

FRAME WORLD

Aluminum Structural Framing Components



www.frame-world.com



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FASTFRAMES

5/16" SLOTS

SAFETY

1/4" SLOTS

TECHNICAL

Compare the steps required to complete a project; Aluminum vs. Steel Weldment

Welded Steel

1. Planning
2. Purchasing
3. Cutting
4. Layout
5. Welding
6. Straightening
7. Chipping and Sanding
8. Priming and Painting
9. Delivery
10. Maintenance

Aluminum Extrusion

1. Planning
2. Purchasing
3. Cutting
4. Assembly

Welding steel is expensive

Steel is less costly than aluminum. However, welding steel is an expensive and time consuming process. Welding requires skilled labor and extensive safety precautions to protect personnel from dangerous light and smoke during the welding process. Priming and painting have an environmental impact to be considered and spray booths are a governmental agency concern. The welding is usually done either off-site or in another area of the building, away from the project site. Any changes required later are difficult to make, and often look like a patch or obvious fix.

Assembling aluminum extrusions is fast and simple

Aluminum extrusions have nearly the same tensile strength as mild steel with a much higher strength to weight ratio. A few simple tools and low-tech labor are all that is required for most projects. Aluminum extrusion assembly can easily be done right at the project site, with no special safety equipment required. Construction or design changes or adjustments can be easily and immediately implemented. Even "design as you go" projects have a finished professional look. With great visual aesthetics. The anodized aluminum does not need painting. As soon as the last extrusion is in place, that part of the project is ready for use. The T-slot concept easily accom-

modates later additions or revisions to the project, without looking patched. Finished projects are inherently square, so the need for shimming or leveling is reduced. The nonporous, hollow extrusions are ideal for use as air reservoirs and manifolds for both pressure and valve exhaust collection. Covered extrusion T-slots can be used as conduits for protecting sensor and control wiring.

The true cost of steel fixtures includes the cost of welding

The true cost of steel includes the cost and special needs of the welding process, special equipment, safety concerns, painting and delivery to the site. Once completed, the project is difficult to modify.

Aluminum extrusion fixtures are easier than steel fixtures

Assembly of aluminum extrusions is fast, requires simple tools and labor. It requires no painting, is clean, reusable, easily modified and looks good.

T-Slot technology is widely utilized in industrial structural components.

FRAME-WORLD extruded aluminum profiles utilize these longitudinal slots for inserting T-bolts and nuts anywhere along its length to attach connection brackets and accessories.

Threading and machining the ends allows for end joint connections.

No welding or painting is required. All joint connections are screwed together to provide extensive flexibility and allow for conversions, extensions and are separable.

ALWAYS WEAR SAFETY GLASSES



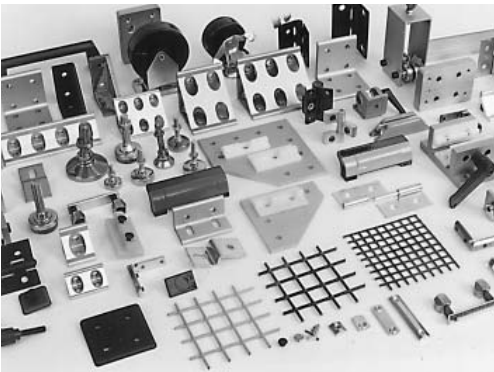
Bulk Profiles

- Standard 8', 12', 16', 20' lengths. (other lengths can be furnished in quantity)
- Available in standard and **SMOOTH-Series** (slotless) and **BLACK** anodized designs
- 1/4" and 5/16" slot sizes
- Standard anodized or optional powder coat finishes
- Skidded, wrapped, padded and banded for shipping



Cut/Machined Profiles

- Extrusions cut to specified lengths (including miter cuts)
- Custom machining available: drilled holes, tapped holes, counter bores, milling, etc.

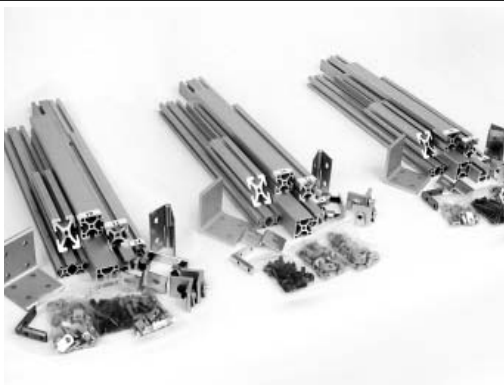


Components & Accessories

- Wide range of brackets, joining plates, gussets, fasteners, handles, end caps, angles, panel material, bolts, etc.
- Special hinges for ultra-strong doors
- Custom accessories available

Kits & I.D. Kits

- **Kits** for multiple frame orders, profiles and accessories are bundled and packaged for each individual frame
- **I.D. Kits** indicate lengths on each extrusion (eliminates profile measuring during assembly)
- Saves you time, money and labor

**FastFrames
Pre-engineered
Modules and
Sub Assemblies**

- Includes panels, doors, bases, carts
- All necessary hardware is included
- Available assembled or in kit form
- Greatly simplifies design, ordering and assembly
- Single part number ordering

**Complete Solutions**

- Complete turnkey solutions for machine guards, bases, frames, enclosures, racks, workstations & more
- Tremendous labor (cost) savings
- The simplest solution available



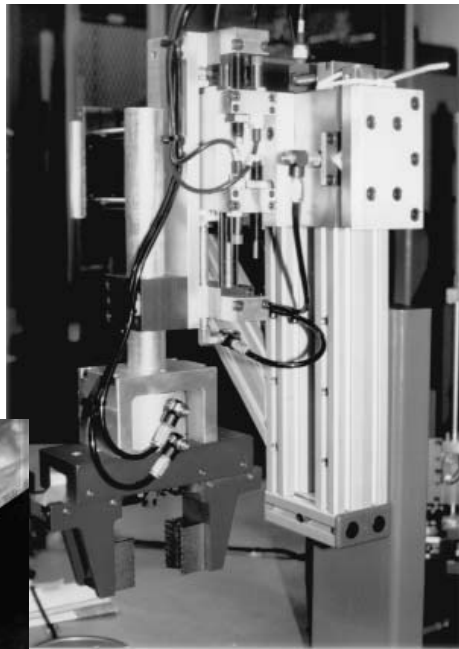
FRAME-WORLD's Aluminum Extrusions can be used in any industrial setting, for any purpose!



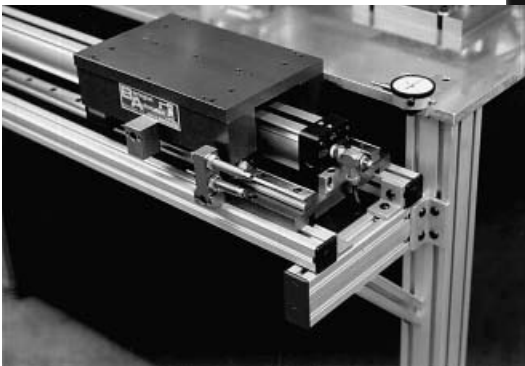
Any setting, Any purpose



Machining & Parts



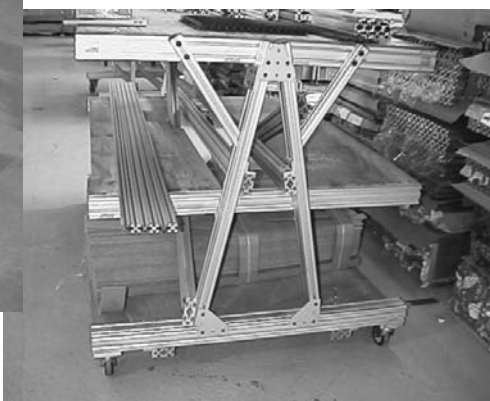
Machine Fixturing



Slide Mount



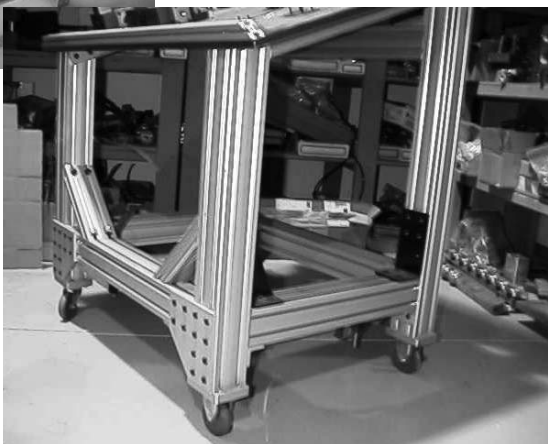
Carts



Racks



Workstations



Stands



Support brackets

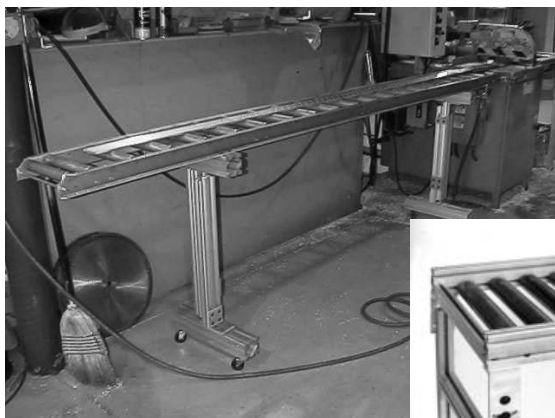


Enclosures



Staging carts





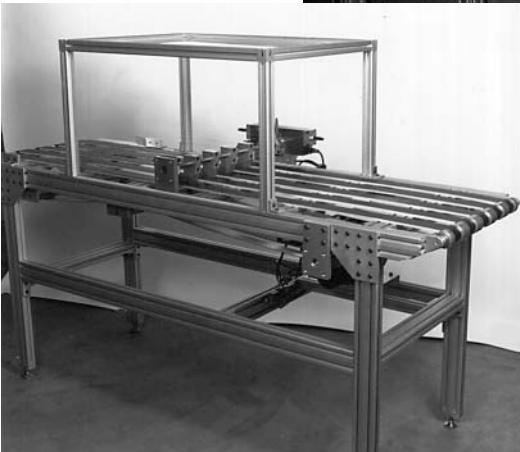
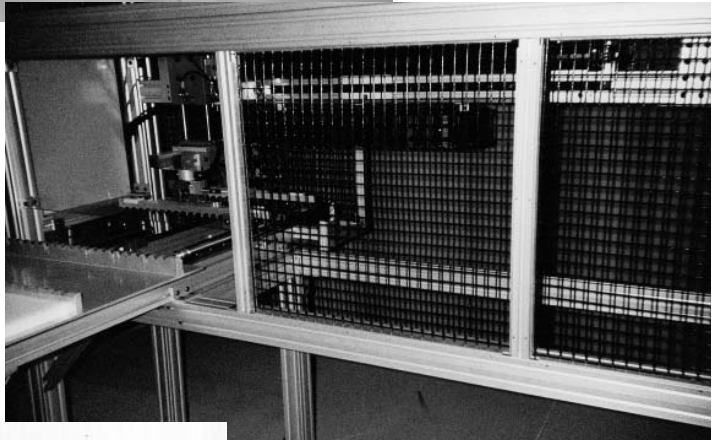
Conveyors



Production Staging



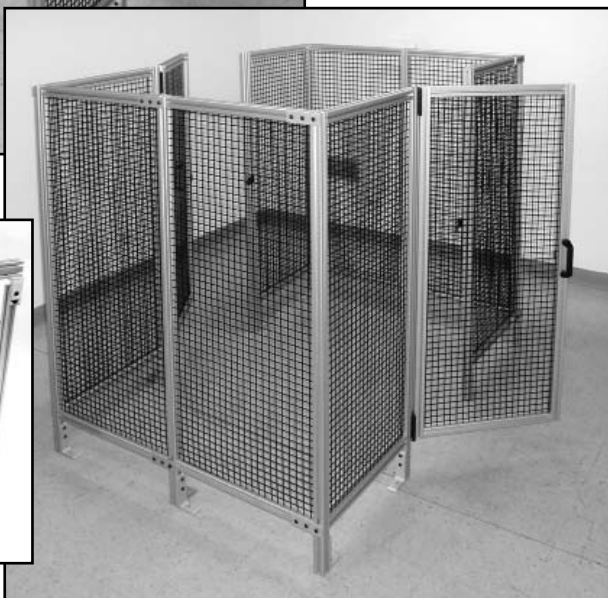
But most importantly, **FRAME-WORLD's** extrusions are a cost effective, low maintenance way to make **Machine Safety Guards**.



FastFrames

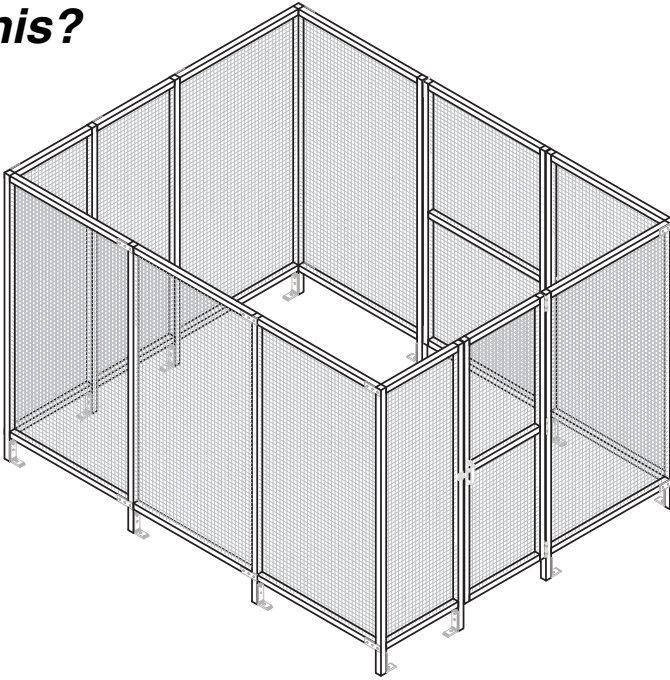
The fastest and easiest way to develop frames, machine guards, enclosures, carts and conveyor systems.

- Order panels, doors, carts, bases and conveyors with a single part number!
- Each is available pre-assembled or in kit form
- All necessary hardware is included

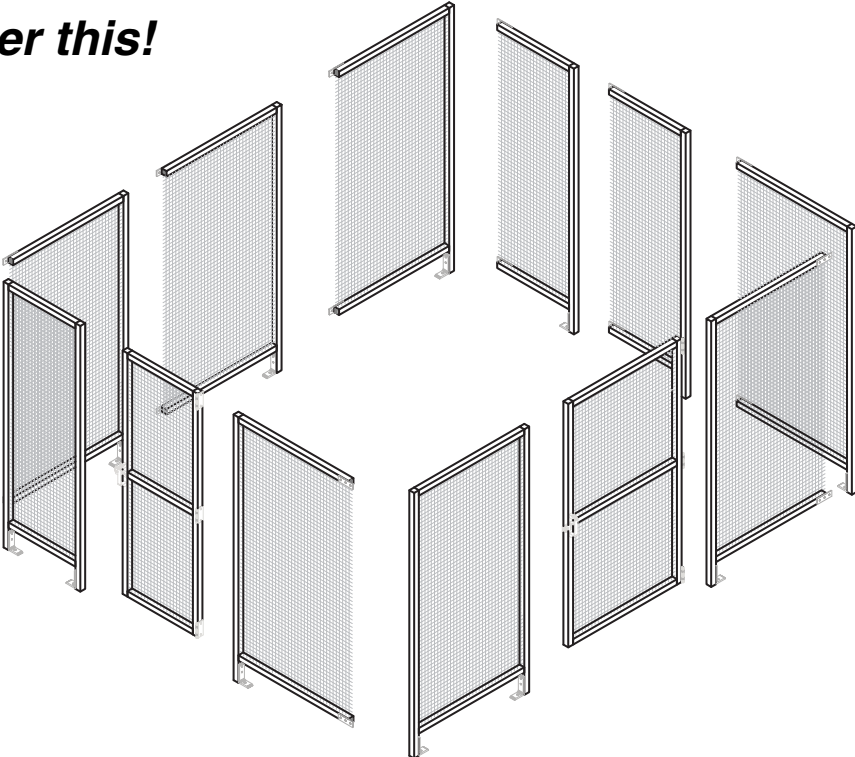
FASTFRAMES

FastFrames

Want this?



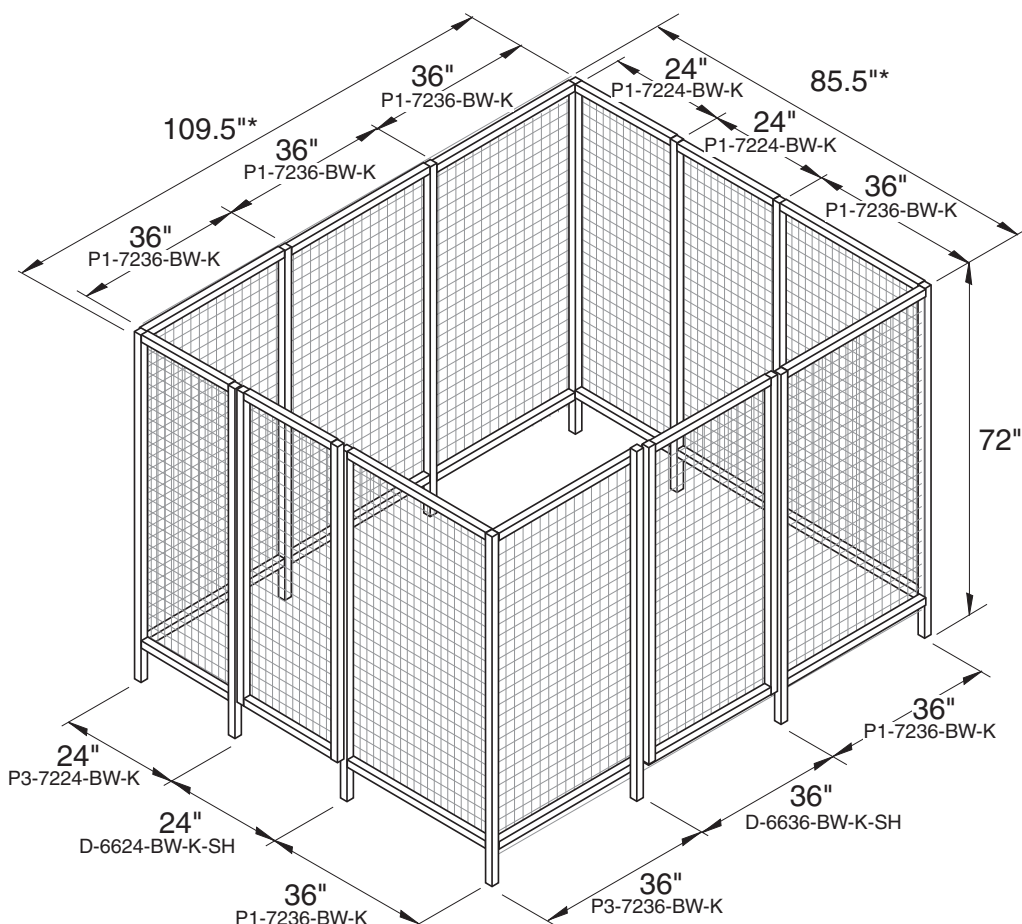
Order this!



FastFrames

Example

Build this entire safety enclosure with only 12 ordered parts, instead of 567 individual components.



Bill of Material

(1) D-6636-BW-K-SH	36" Opening Door
(1) D-6624-BW-K-SH	24" Opening Door
(1) P3-7236-BW-K	36" Panel
(1) P3-7224-BW-K	24" Panel
(6) P1-7236-BW-K	36" Panel
(2) P1-7224-BW-K	24" Panel

These dimensions achieved using standard sized panels.

If desired enclosure height, width or depth cannot be achieved with standard sized panels, FRAME-WORLD can add additional panels and adjust the sizing to do so.

Please contact your distributor or the factory for custom sizes.

Standard Enclosure Panels

- **FastFrames** standard enclosure panels can be purchased pre-assembled or in kit form.
- Frame construction:
 - Panels**
 - Extrusion frame is EX-6 (page 30) .
 - Corner fasteners are EF-29A universal connectors (page 112).
 - Floor mounting brackets are EB-15AL (page 182).
- Inside panel construction options:
 - 2" x 2" black PVC coated wire mesh is EB-38-2 (page 190)
 - 1" x 1" black PVC coated wire mesh is EB-38-1 (page 190).
 - 1" x 1" yellow PVC coated wire mesh is EB-38-1Y (page 190).
 - 1/4" thick clear polycarb is EB-160 (page 197).
 - Wire mesh brackets are EB-49B/EB49Y (page 193).
 - Gasket is EB-40A (page 207).
- Standard panel widths are 18", 24", 30", 36", 48".
- Standard panel heights are 40", 60", 72" & 84".
- Panel to panel connecting brackets EB-33 (page 134) and hardware are included.
- Floor anchors are furnished and installed by customer.
- **SMOOTH Series & BLACK** extrusion panels are available.
- **Custom sizes available**

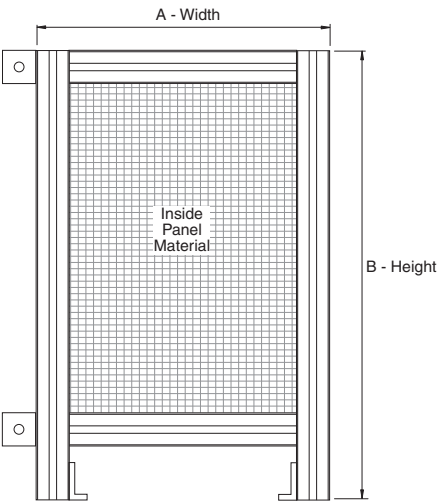
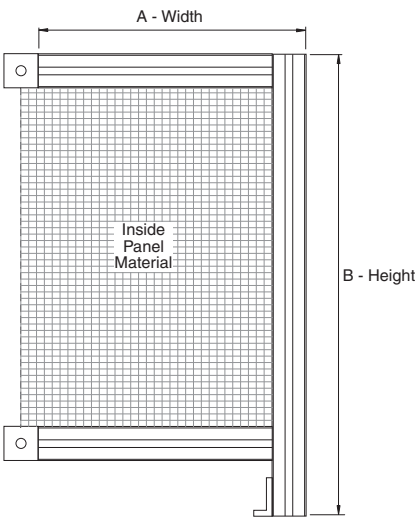


Standard Enclosure Doors

- **FastFrames** standard doors can be purchased pre-assembled or in kit form.
- Frame construction:
 - Doors**
 - Extrusion frame is EX-6 (page 30).
 - Corner connectors are EF-29A (page 112).
 - Hinges are EF-70 (page 226).
 - Handle is EF-15B (page 237).
 - Latch is EF-22HD (page 254).
- Inside panel construction options:
 - 2" x 2" black PVC coated wire mesh is EB-38-2 (page 190)
 - 1" x 1" black PVC coated wire mesh is EB-38-1 (page 190).
 - 1" x 1" yellow PVC coated wire mesh is EB-38-1Y (page 190).
 - 1/4" thick lear polycarb is EB-160 (page 197).
 - Wire mesh brackets are EB-49B/EB49Y (page 193).
 - Gasket is EB-40A (page 207).
- Standard door widths are to fit 24", 30", 36" & 48" opening.
- Standard door heights are 34", 54", 66", & 78".
- **SMOOTH Series & BLACK** extrusion panels are available.
- **Custom sizes available**

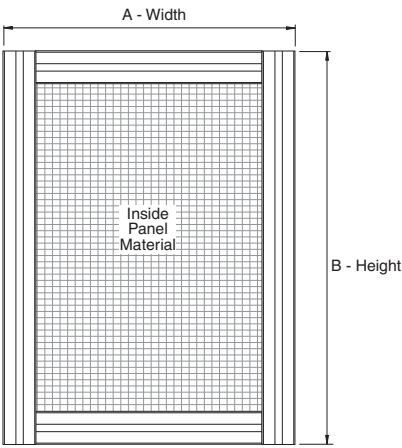
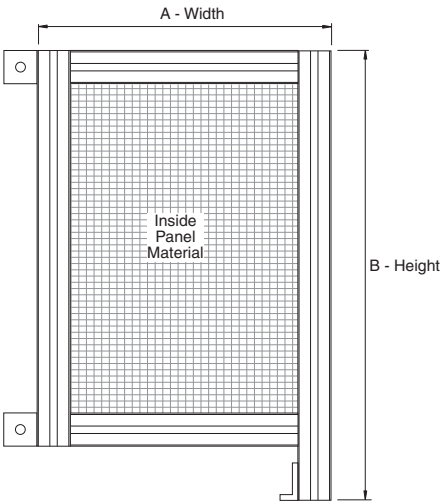


Standard Enclosure Panels



**Standard (1) Leg Panel
Model P1**

**Standard (2) Leg Panel
Model P3**



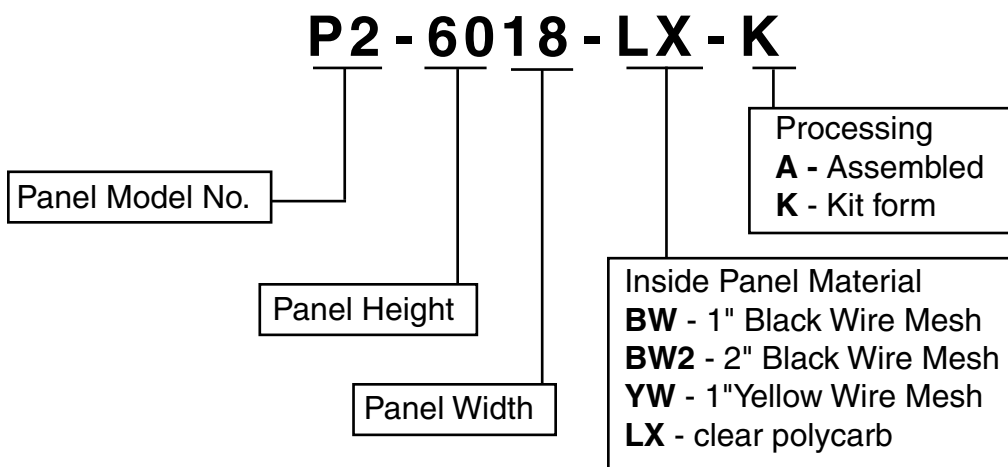
**Standard (1) Leg Panel
Model P2**

**Standard Basic Panel
Model P4**
Note: Mounting Hardware Not
Included

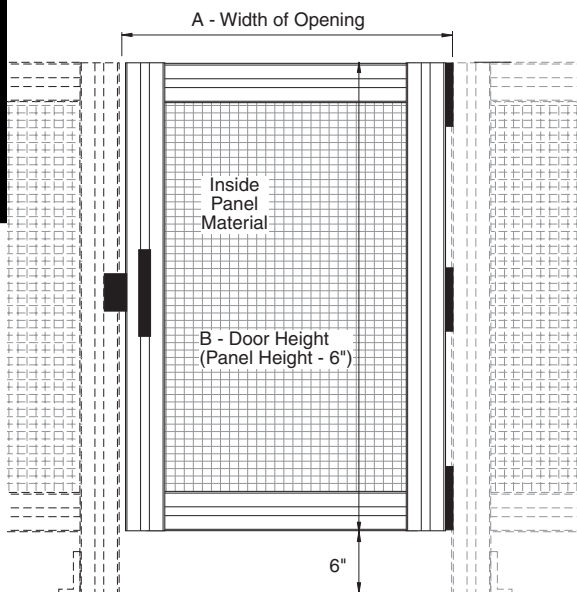
Standard Enclosure Panels

- Standard panel heights are 40", 60", 72" & 84".
- Standard panel widths are 18", 24", 30", 36" & 48".
- **SMOOTH Series** & **BLACK** extrusion panels are available.
- **Custom sizes available** - consult the factory

Panel Ordering Example



Standard Enclosure Doors



- Standard door heights are 30", 34", 54", 66", & 78".
- Standard door widths are 24", 30, 36" & 48" opening.
- **SMOOTH Series & BLACK** extrusion panels are available.
- **Custom sizes are available** - consult the factory

Note: Part Nos. D-5436, D-6636, & D-7836 have a center extrusion bar.

Door Ordering Example

D- 6624 -BW -A - SH

Door Height

Door Width

Inside Panel Material

BW - 1" Black Wire Mesh
BW2 - 2" Black Wire Mesh
YW - 1" Yellow Wire Mesh
LX - clear polycarb

Door Hardware

SH - Standard Hinges, Handle and Latch/Stop
NH - No Hinges, Handle and Latch/Stop

Processing

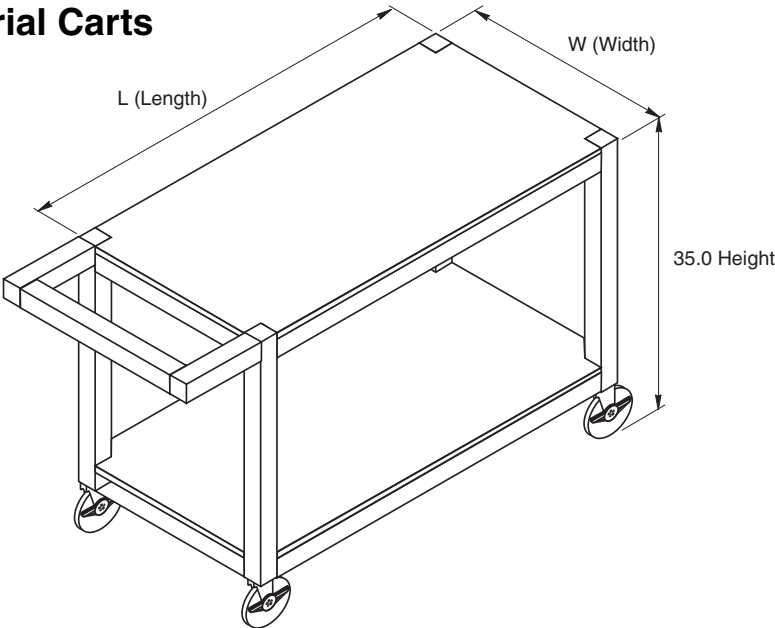
A - Assembled
K - Kit form

Standard Material Carts



- 1 1/2" x 1 1/2" extrusion frame
- 3/8" thick high density polyethylene top and shelf material
- 3" diameter casters with brake, 1" wide rubber wheels
- Standard height: 35.0"
- All shelves are height adjustable
- Carts are shipped as kits or assembled
- Shelf sides are achieved by turning shelf upside down
- All hardware included
- 300 pound total capacity
- **Custom sizes available**

Standard Material Carts



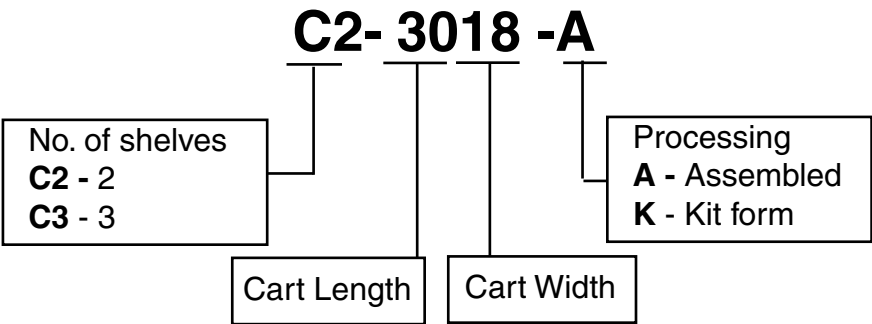
Model C2 Shelf Cart - (2) shelves

Length (L)	18"	22"	26"	30"
30	C2-3018	C2-3022	C2-3026	C2-3030
36	C2-3618	C2-3622	C2-3626	C2-3630

Model C3 Shelf Cart- (3) shelves

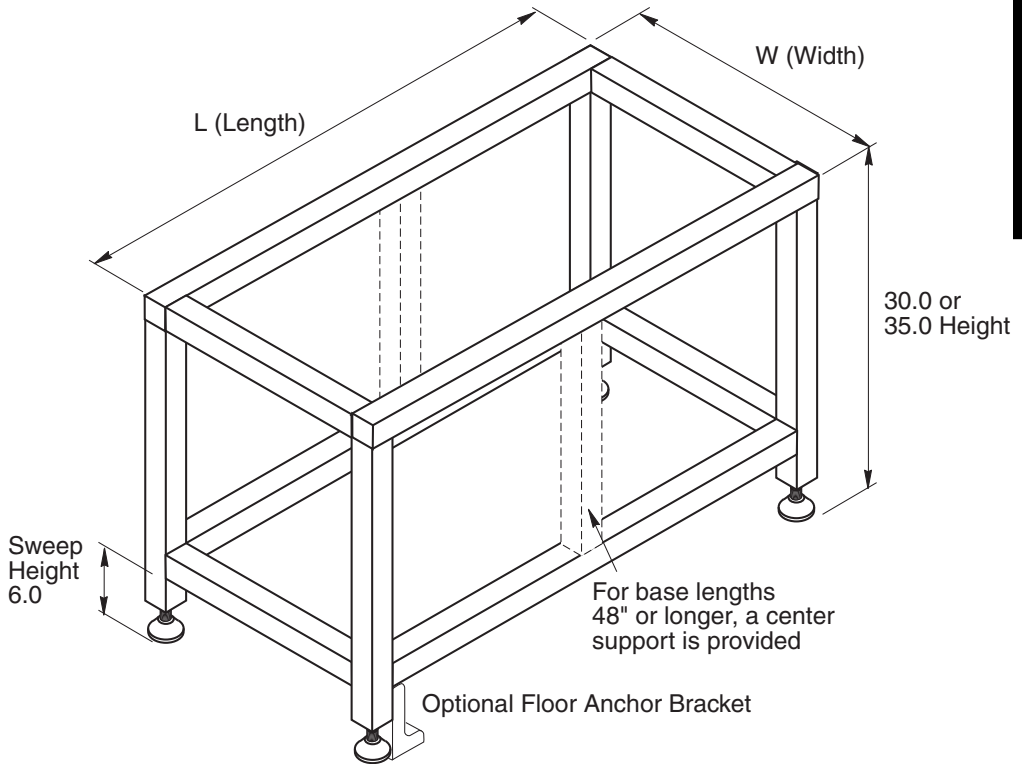
Length (L)	18"	22"	26"	30"
30	C3-3018	C3-3022	C3-3026	C3-3030
36	C3-3618	C3-3622	C3-3626	C3-3630

Material Cart Ordering Example



Custom sizes are available - consult the factory

Standard Bases and Tables



- Available in kit form or assembled
- Includes adjustable legs
- Floor Anchor Brackets available on request
- Choice of Light, Standard or Heavy Duty
- Standard Heights of 30" or 35"
- Tops and enclosure panels available on request - consult factory
- Sweep height = 6.00"
- Light Duty is EX-1
- Standard Duty is EX-2
- Heavy Duty is EX-3
- **Custom sizes available**

FASTFRAMES

Model L Light Duty

Length (L)	24"	30"	Width (W) 36"	Max Load
36"	L-3624	L-3630	L-3636	400
48"	L-4824	L-4830	L-4836	360
60"	L-6024	L-6030	L-6036	300
72"	L-7224	L-7230	L-7236	240

Model S Standard Duty

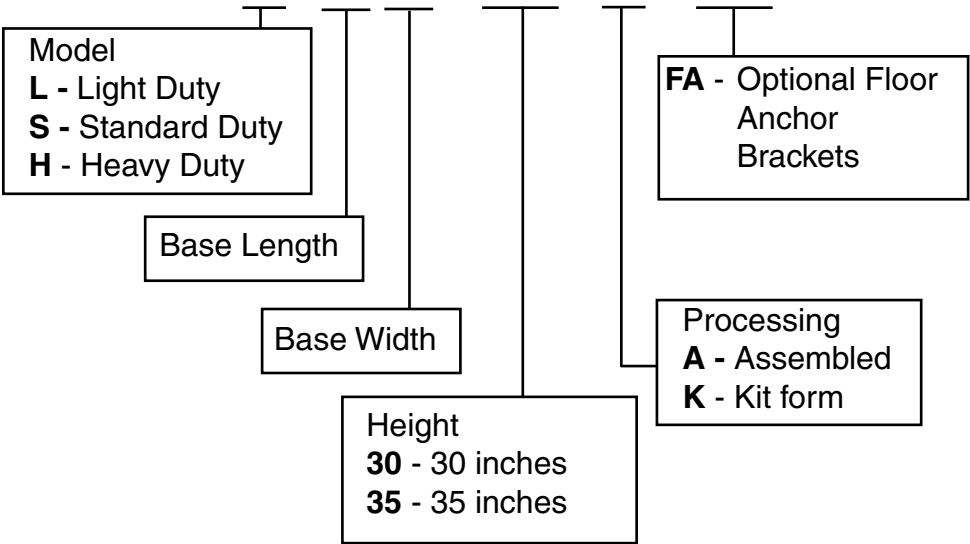
Length (L)	24"	30"	Width (W) 36"	Max Load
36"	S-3624	S-3630	S-3636	2800
48"	S-4824	S-4830	S-4836	2000
60"	S-6024	S-6030	S-6036	1720
72"	S-7224	S-7230	S-7236	1480

Model H Heavy Duty

Length (L)	24"	30"	Width (W) 36"	Max Load
36"	H-3624	H-3630	H-3636	5400
48"	H-4824	H-4830	H-4836	3800
60"	H-6024	H-6030	H-6036	3300
72"	H-7224	H-7230	H-7236	3000

Standard Base Ordering Example

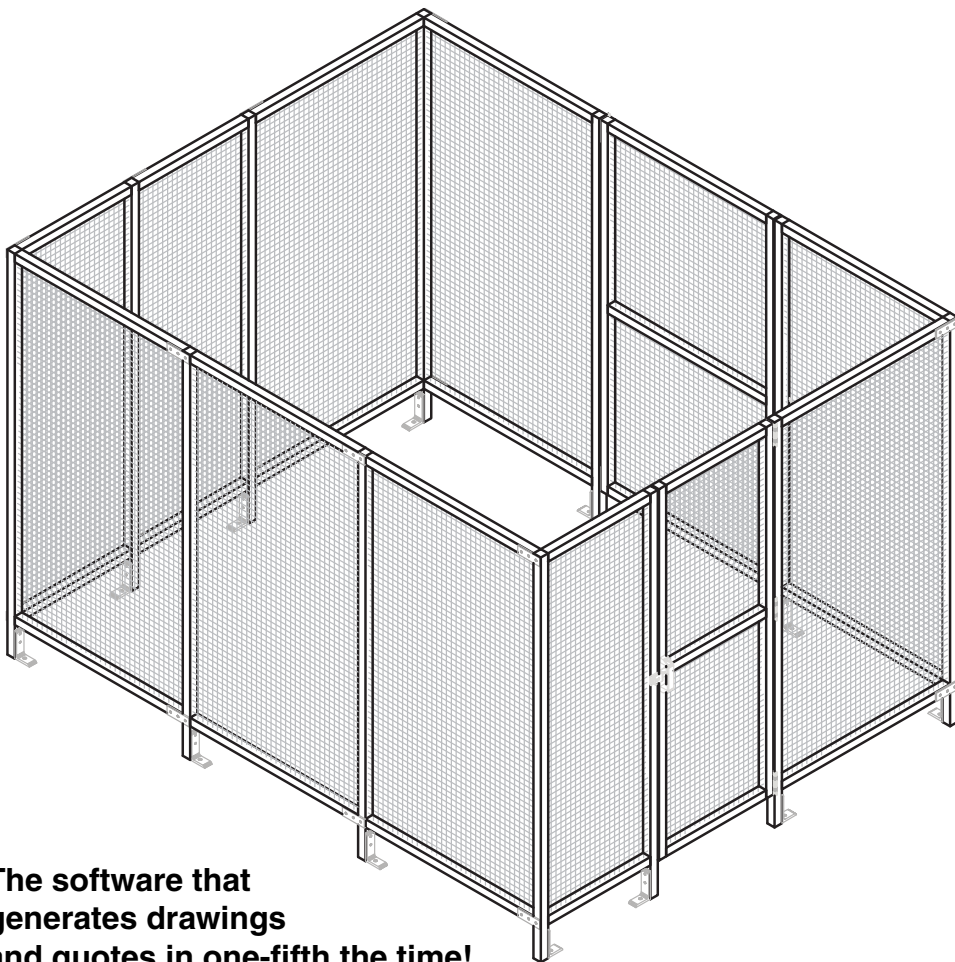
S- 4824 -30 -A - FA



Custom sizes are available - consult the factory

FrameQuoter

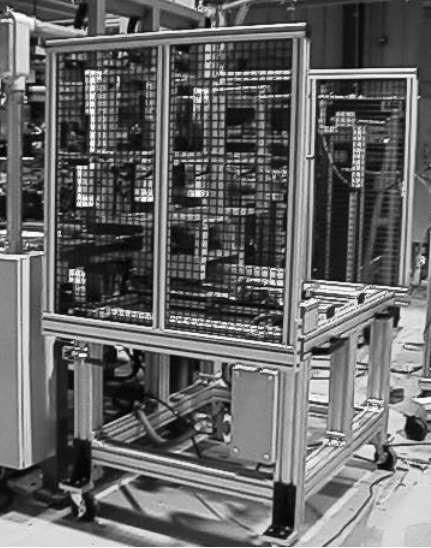
Aluminum Extrusion Design Software



The software that
generates drawings
and quotes in one-fifth the time!

FrameQuoter is the most advanced and easiest to use aluminum profile design and quote software available today! It will enable you to quickly and easily produce professional looking 3D drawings with bills of materials and quotations that are detailed and accurate, 5 times faster than doing them by hand! **FrameQuoter** will increase your efficiency and confidence.

You Can Design This Machine Guard In 2 ½ Hours...



Or In Just 14 Minutes.

Try Our **FREE Design Software And See For Yourself.**

Designing a machine guard, frame or enclosure can be a very time-consuming and frustrating experience. Any errors, omissions or miscalculations can result in a structure which is cumbersome to use, doesn't fit the application, or is totally useless. Our **FrameQuoter** design software eliminates these problems, and helps you create the ideal structure, quickly and easily.

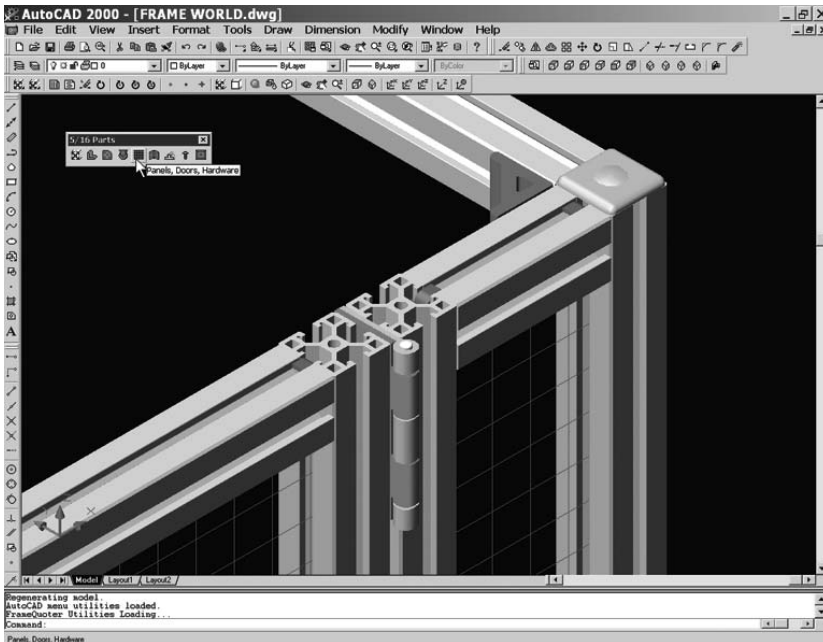
FrameQuoter Software Decreases Design Time By Up To 92% And Eliminates Errors, Omissions and Hassles

Actual field studies have shown that our **FrameQuoter** design software will drastically reduce the amount of time required to design a machine guard or frame. And because we have simplified and/or automated many functions ("snap-in-place" corner brackets, automatically includes necessary machining, nuts, bolts, etc.), you will have less errors, mistakes or hassles. You can be assured that every structure you design will be right the first time, every time.

Easy To Learn, Easy To Use

This was the #1 design criteria. With even a basic knowledge of AutoCAD, you will quickly master **FrameQuoter**. We have shortened and/or eliminated many of the steps necessary with other design software packages by using simple icons and drop-down menus. A complete Bill of Materials is also only one mouse click away.

Incredible Life-Like Full-Color Graphics



FrameQuoter is the only design software package that enables you to develop wireframe, hidden and shaded drawings in 2D and 3D, in both simplified and detailed views. The “Detailed-Shaded” view shows you the final assembly with incredible detail & clarity:

The Possibilities Are Endless

If you can build it with aluminum extrusions, you can design it with **FrameQuoter**. People have designed wall racks, workstations, tables, machine bases, machining stations, clean room enclosures, tool fixtures, and much more. Unlike other design packages, **FrameQuoter** enables you to employ every FRAME-WORLD extrusion, and every bracket and accessory into any drawing. You can even add non-FRAME-WORLD parts to the Bill of Materials!

Solidworks Library Available

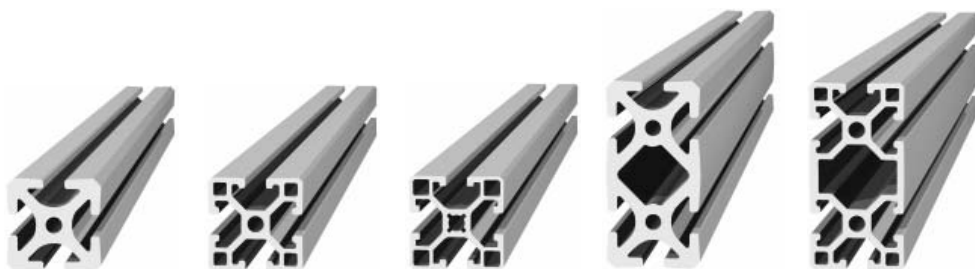
FRAME-WORLD offers a full Solidworks (TM) parasolid library of all our products. Additional CAD formats of our part library, including .igs, .dwg, and .dxf, are also available. All CAD files are available for download at www.frame-world.com

Metric Sizes for FRAME-WORLD T-slot Extrusions and Accessories



5/16" SLOTS

Part No.	Extrusion Size		Fastener Size	
	Inches	Nearest Metric	Inches	Metric
EX-1, BLX-1	1.5" x 1.5"	38 x 38 mm	5/16-18	m8
EX-2, BLX-2	1.5" x 3"	38 x 76 mm	5/16-18	m8
EX-3, BLX-3	3" x 3"	76 x 76 mm	5/16-18	m8
EX-6, BLX-6	1.5" x 1.5"	38 x 38 mm	5/16-18	m8
EX-7	1.5" corner	38 x 38 mm	5/16-18	m8
EX-8	1.5" round	38 x 38 mm	5/16-18	m8
EX-9, BLX-9	1.5" x 1.5"	38 x 38 mm	5/16-18	m8
EX-11, BLX-11	1" x 1"	25 x 25 mm	1/4-20	m6
EX-12, BLX-12	1" x 2"	25 x 50 mm	1/4-20	m6
EX-13	1" x 3"	25 x 76 mm	1/4-20	m6
EX-22, BLX-22	2" x 2"	50 x 50 mm	1/4-20	m6
EX-24	2.0" x 4.0"	50 x 100 mm	1/4-20	m6
EX-26	1.5" x 4.5"	38 x 174 mm	5/16-18	m8
EX-36	3" x 6"	76 x 152 mm	5/16-18	m8
EX-37	3.0" x 3.0"	76 x 76 mm	5/16-18	m8
EX-45HD	4.5" x 4.5"	114 x 114 mm	5/16-18	m8
EX-52	1" x 1.5"	25 x 38 mm	5/16-18	m8
EX-54	1" x 1.5"	25 x 38 mm	5/16-18	m8
EX-60	2.38" x 2.38"	60 x 60 mm	5/16-18	m8
EX-61	1.5" x 1.5"	38 x 38 mm	5/16-18	m8
EX-63	1.5" x 1.5"	38 x 38 mm	5/16-18	m8
EX-64	1.5" x 1.5"	38 x 38 mm	5/16-18	m8
EX-65	1.5" x 1.5"	38 x 38 mm	5/16-18	m8
EX-66	1.5" x 3"	38 x 76 mm	5/16-18	m8
EX-67, BLX-67	1.5" x 3"	38 x 76 mm	5/16-18	m8
EX-68	1.5" x 3"	38 x 76 mm	5/16-18	m8
EX-69	1.5" x 3"	38 x 76 mm	5/16-18	m8
EX-70	1" x 1"	25 x 25 mm	1/4-20	m6
EX-71	1" x 1"	25 x 25 mm	1/4-20	m6
EX-72	1" x 1"	25 x 25 mm	1/4-20	m6
EX-73	1" x 1"	25 x 25 mm	1/4-20	m6
EX-82	1.5" angle	38 x 38 mm	5/16-18	m8
EX-83	1.5" x 3.0"	38 x 76 mm	5/16-18	m8



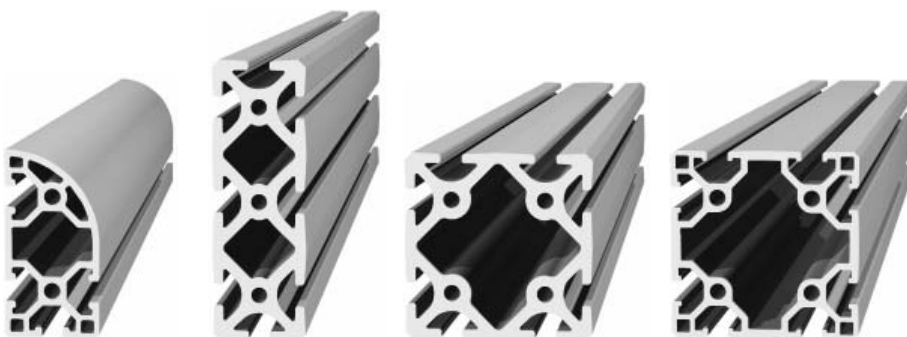
EX-1
1.5" x 1.5"

EX-6
1.5" x 1.5"

EX-9
1.5" x 1.5"

EX-2
1.5" x 3.0"

EX-67
1.5" x 3.0"

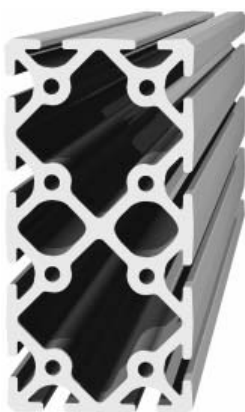


EX-83
1.5" x 3.0"

EX-26
1.5" x 4.5"

EX-3
3.0" x 3.0"

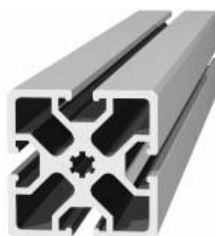
EX-37
3.0" x 3.0"



EX-36
3.0" x 6.0"



EX-45HD
4.5" x 4.5"



EX-60
2.38" x 2.38"

5/16" SLOTS

SMOOTH-Series

5/16" SLOTS



EX-63

1.5" x 1.5"



EX-64

1.5" x 1.5"



EX-65

1.5" x 1.5"



EX-61

1.5" x 1.5"



EX-7

1.5" x 1.5"



EX-8

1.5" x 1.5"



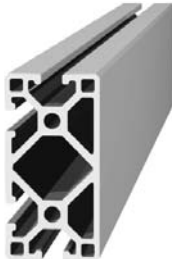
EX-68

1.5" x 3.0"



EX-66

1.5" x 3.0"



EX-69

1.5" x 3.0"



EX-52

1.0" x 1.5"



EX-54

1.0" x 1.5"



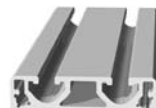
EX-82

1.5" x 1.5"
45 deg.



EX-81

1.75" x 2.0"



EX-57

.75" x 3.0"

BLACK-Series



BLX-1
1.5" x 1.5"



BLX-6
1.5" x 1.5"



BLX-9
1.5" x 1.5"



BLX-2
1.5" x 3.0"



BLX-67
1.5" x 3.0"



BLX-3
3.0" x 3.0"

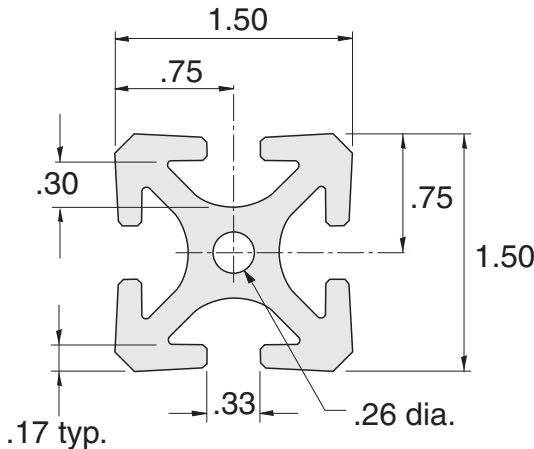
5/16" SLOTS

EX-1

Clear Anodized

BLX-1

Black Anodized



- Material = 6105-T5 Aluminum
- Est. Area = 1.164 Sq. In.
- Weight/ft = 1.4522 lbs.
- 96", 144.25" (clear only), 192.63", 242" (clear only) Lengths standard.

Section Properties:

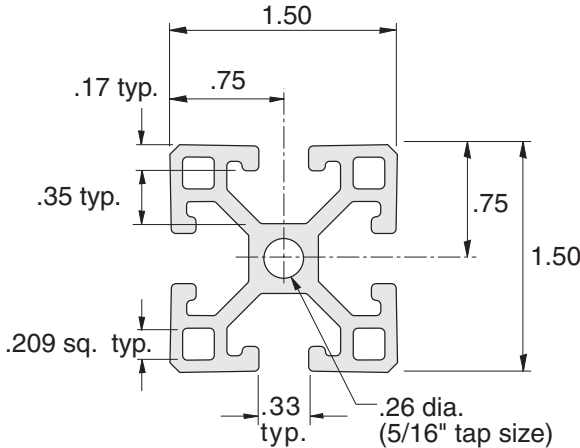
Moment of Inertia in ⁴	.242
Section modulus in ³	.323

EX-6

Clear Anodized

BLX-6

Black Anodized



- Material = 6105-T5 Aluminum
- Est. Area = .878 Sq. In.
- Weight/ft = 1.029 lbs.
- 96", 144.25" (clear only), 192.63", 242" (clear only) Lengths standard.

Section Properties:

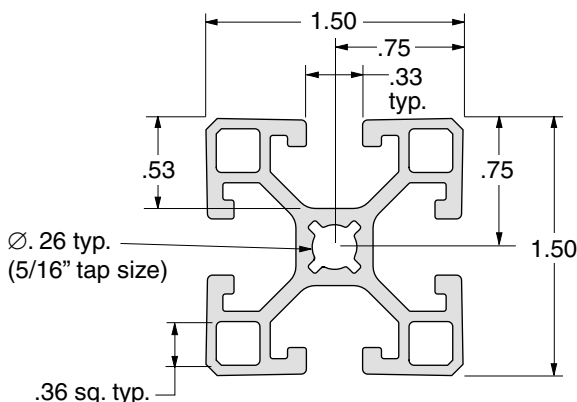
Moment of Inertia in ⁴	.199
Section modulus in ³	.265

Clear Anodized

EX-9

Black Anodized

BLX-9



- 5/16" Slot Size
- Weight/Ft = .85 lbs.
- Est. Area = .73 Sq. In.
- Material = 6105-T5 Aluminum
- 96", 144.25" (clear only), 192.63" Standard Lengths

Section Properties:

Moment of Inertia in ⁴	.162
Section modulus in ³	.216

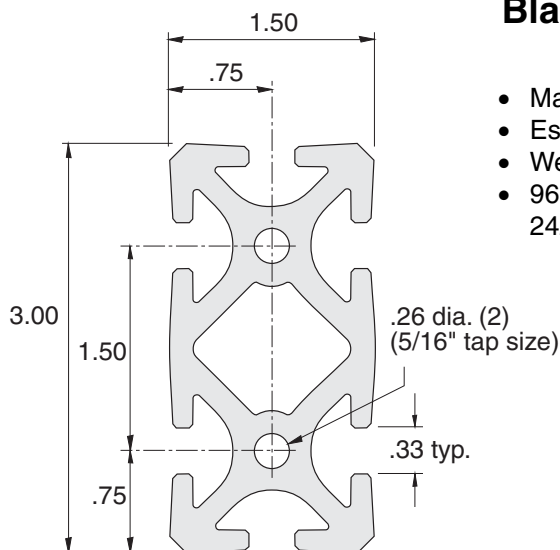
5/16" SLOTS

Clear Anodized

EX-2

Black Anodized

BLX-2



- Material = 6105-T5 Aluminum
- Est. Area = 2.051 Sq. In.
- Weight/ft = 2.471 lbs.
- 96", 144.25" (clear only), 192.63", 242" (clear only) Lengths standard.

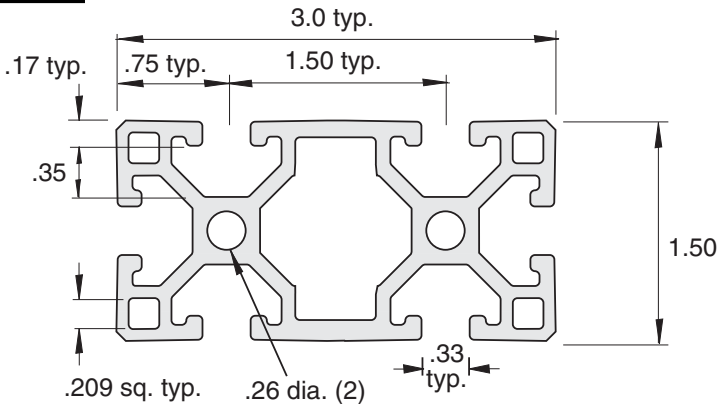
Section Properties:

Moment of Inertia in ⁴	1.76	.481
Section modulus in ³	1.173	.641



EX-67
BLX-67

Clear Anodized
Black Anodized



- Material = 6105-T5 Aluminum
- Est. Area = 1.569 Sq. In.
- Weight/ft = 1.845 lbs
- 96", 144.25" (clear only), 192.63", 242" (clear only) Lengths standard.

Section Properties:
Moment of Inertia in⁴
Section modulus in³



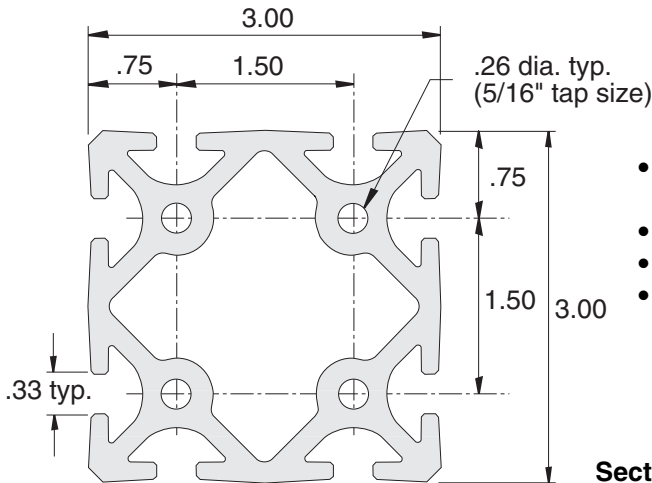
1.376
0.917



0.387
0.516

EX-3
BLX-3

Clear Anodized
Black Anodized

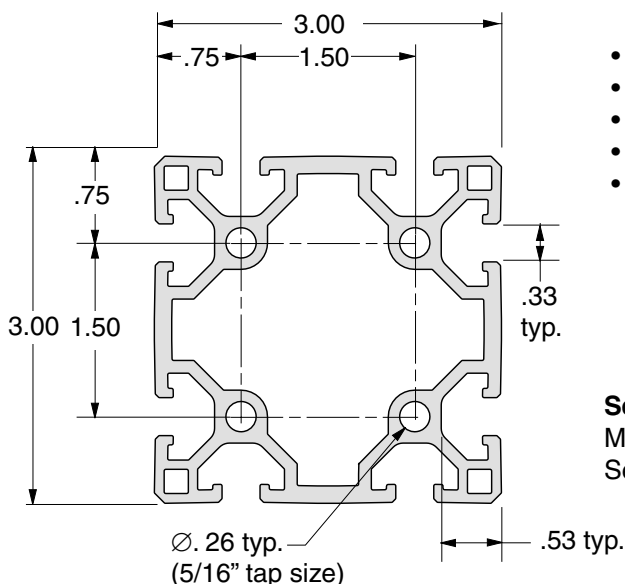


- Material = 6105-T5 Aluminum
- Est. Area = 3.188 Sq. In.
- Weight/ft = 4.037 lbs.
- 96", 144.25" (clear only), 192.63", 242" (clear only) Lengths standard.

Section Properties:
Moment of Inertia in⁴
Section modulus in³



3.26
2.173



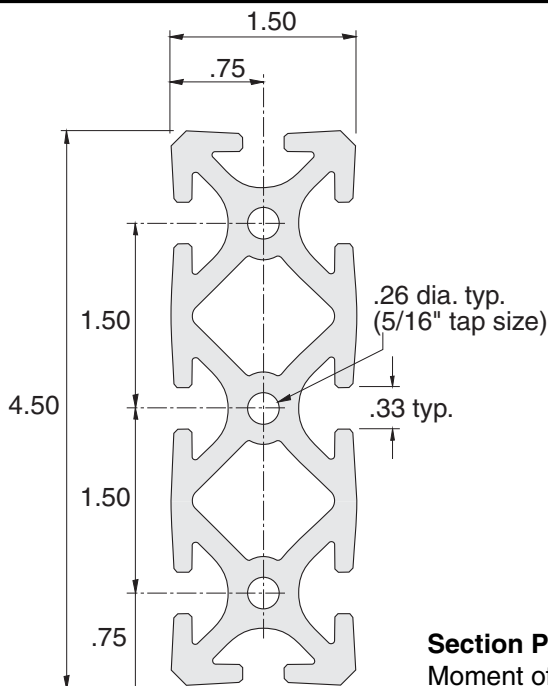
- Finish = Clear Anodized
- Material = 6105-T5 Aluminum
- Est. Area = 2.35 Sq. In.
- Weight/Ft = 2.81 lbs.
- 96", 192.63" Standard Lengths



2.44
1.63

5/16" SLOTS

EX-26



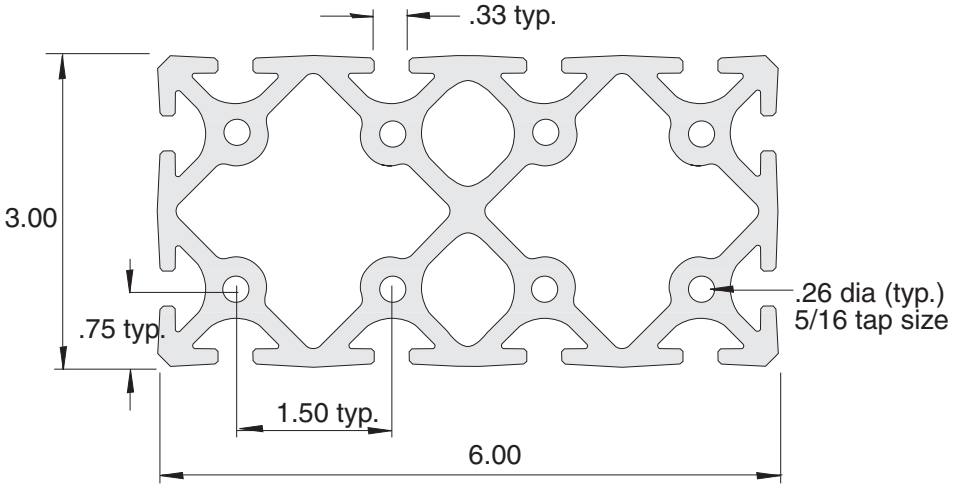
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 3.02 Sq. In.
- Weight/ft = 3.552 lbs.
- 96", 192.63" Lengths standard.



Section Properties:

Moment of Inertia in ⁴	5.6781	.6911
Section modulus in ³	2.5236	.9215

EX-36



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 5.924 Sq. In.
- Weight/ft = 6.967 lbs.
- 96", 192.63"
- Lengths standard.

Section Properties:

Moment of Inertia in⁴
Section modulus in³

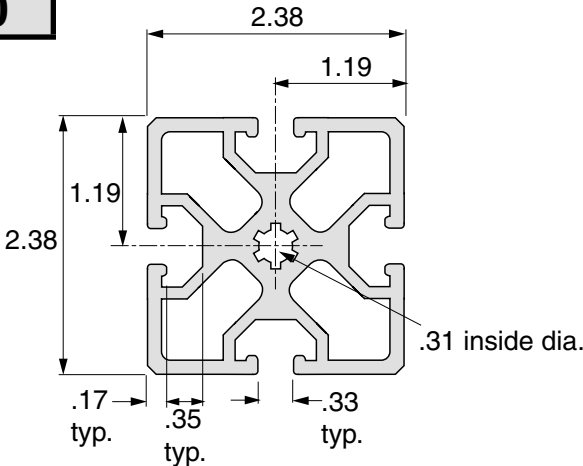


22.05
7.35



6.41
4.28

EX-60



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 2.041 Sq. In.
- Weight/ft = 2.400 lbs
- 96", 192.63" Lengths standard.

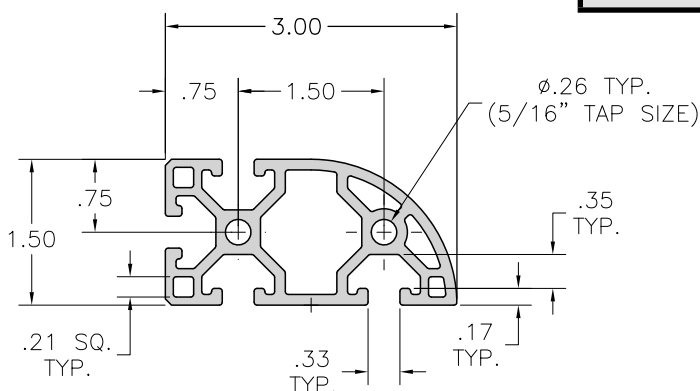
Section Properties:

Moment of Inertia in⁴
Section modulus in³



1.021
0.860

EX-83



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.464 Sq. In.
- Weight/ft = 1.722 lbs.
- 96", 192.63"
Lengths standard.

Section Properties:
Moment of Inertia in⁴
Section Modulus in³

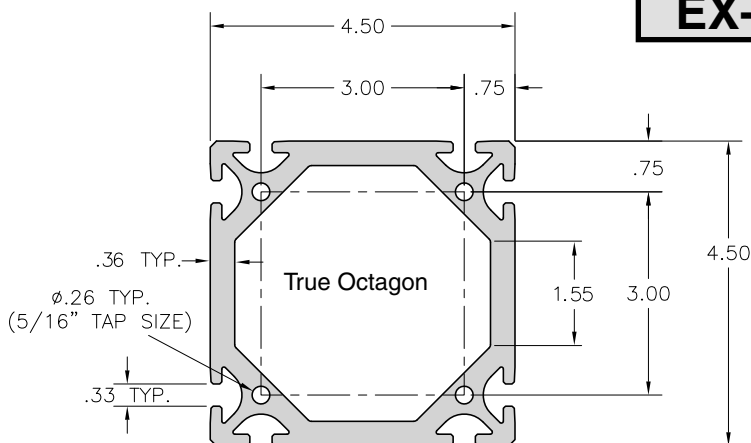


1.229
0.779



0.338
0.424

EX-45HD



- Finish = Clear anodized
 - Material = 6105-T5 Aluminum
 - Est. Area = 6.330 Sq. In.
 - Weight/ft = 7.445 lbs.
 - 192.63 Length standard.
- Special cut charge required for non-standard length (EM-1-EX45)



Section Properties:
Moment of Inertia in⁴
Section Modulus in³

16.4
6.56

SMOOTH-Series Aluminum Profiles Give You *Less*:



Less Slots.

Less Grooves.

Less Dirt.

Less Germs.

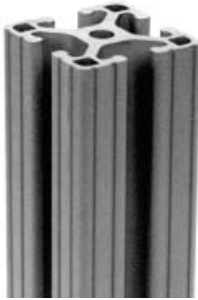
Less Maintenance.

***And Less
Headaches.***

For Less Money.

Aluminum extrusions are the ideal choice when building protective machine guards, machine frames or enclosures for any industrial environment. Unfortunately, traditional aluminum profiles are also a breeding ground for dirt, oil, grease, mold, mildew, germs and bacteria to accumulate and grow. They have up to 22 places to hide (3 exposed T-slots and 19 grooves, per length of extrusion). This makes maintenance and cleaning difficult, ongoing and very expensive. Health and safety issues are a huge concern.

How do you stop the maintenance nightmare? Our ***SMOOTH-Series*** profiles eliminate all the dirt catching grooves, and provide you only the number of T-slots required for your assembly. The ***SMOOTH surfaces*** wipe clean easily, without the toothbrush-scrubbing, knuckle-breaking cleaning required for exposed slots and grooves. Dirt, germs and other contaminants don't have a place to hide.



Traditional Aluminum
Extrusion
4 Slots & 16 Grooves



FRAME-WORLD's
SMOOTH-Series
1 Slot, NO Grooves

Suitable for clean rooms, tough enough for steel mills
SMOOTH-Series profiles are ideal for any manufacturing facility
where dirt, germs, mold, mildew and bacteria build-up can
result in critical health and safety issues:

- Clean Rooms
- Food & Beverage
- Packaging
- Pharmaceutical
- Medical and Biotechnology
- Electronics

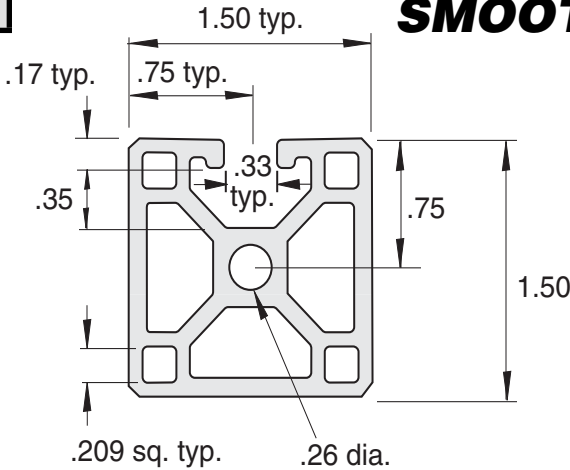
The same *SMOOTH-Series* profiles can also withstand harsh industrial environments where dirt, oil, grease and chemicals are a daily fact of life.

In stock and available for immediate delivery.

All models and versions are available for same-day shipment. For your convenience, *SMOOTH-Series* profiles are also available as kits, engineered sub-assemblies, or as complete turnkey solutions (machine guards, frames, enclosures, etc.).

EX-61

SMOOTH-Series



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .866 Sq. In.
- Weight/ft = 1.018 lbs
- 96", 192.63" Lengths standard.

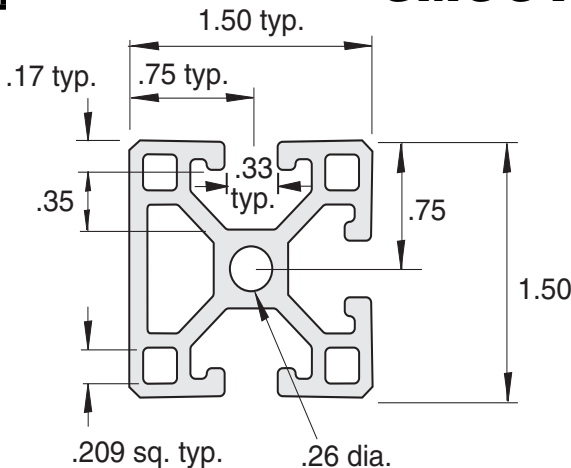
Section Properties:

Moment of Inertia in ⁴	0.200	0.210
Section modulus in ³	0.267	0.276



EX-63

SMOOTH-Series



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .833 Sq. In.
- Weight/ft = .980 lbs.
- 96", 192.63" Lengths standard.

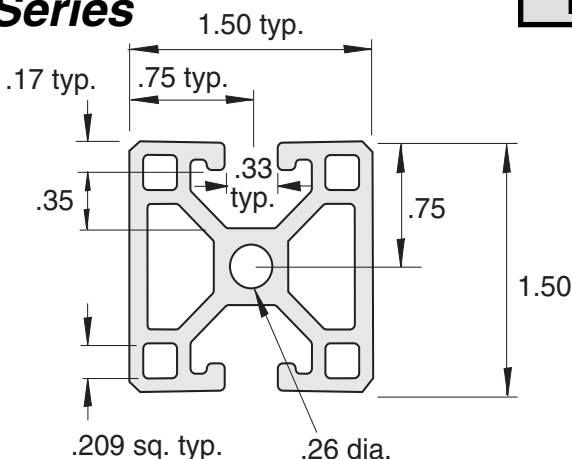
Section Properties:

Moment of Inertia in ⁴	0.195	0.203
Section modulus in ³	0.260	0.267



SMOOTH-Series

EX-64



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .849 Sq. In.
- Weight/ft = .998 lbs
- 96", 192.63" Lengths standard.

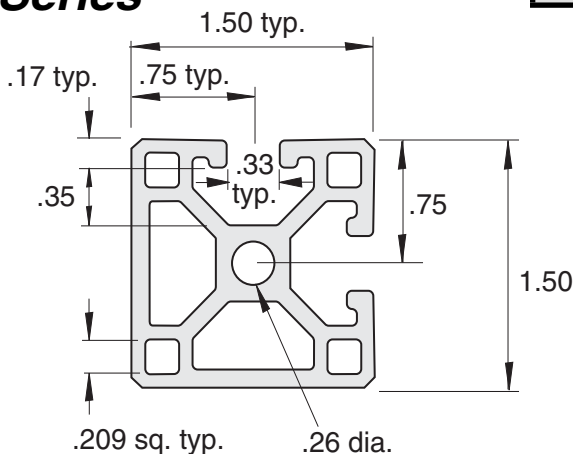
Section Properties:

Moment of Inertia in ⁴	0.190	0.210
Section modulus in ³	0.253	0.280



SMOOTH-Series

EX-65



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .849 Sq. In.
- Weight/ft = .998 lbs.
- 96", 192.63" Lengths standard.

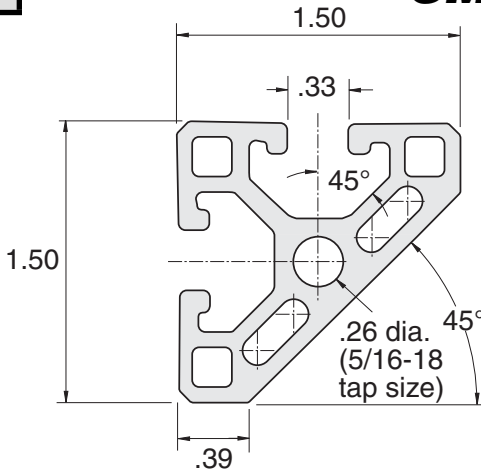
Section Properties:

Moment of Inertia in ⁴	0.200
Section modulus in ³	0.267



5/16" SLOTS

EX-7



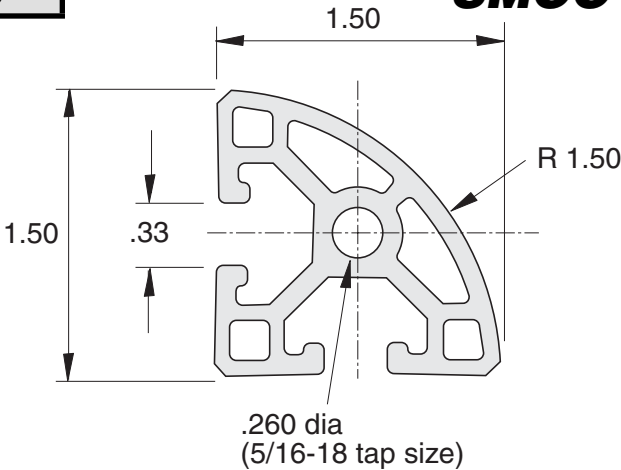
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .729 Sq. In.
- Weight/ft = .854 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Inertia in ⁴	.137
Section modulus in ³	.195

EX-8

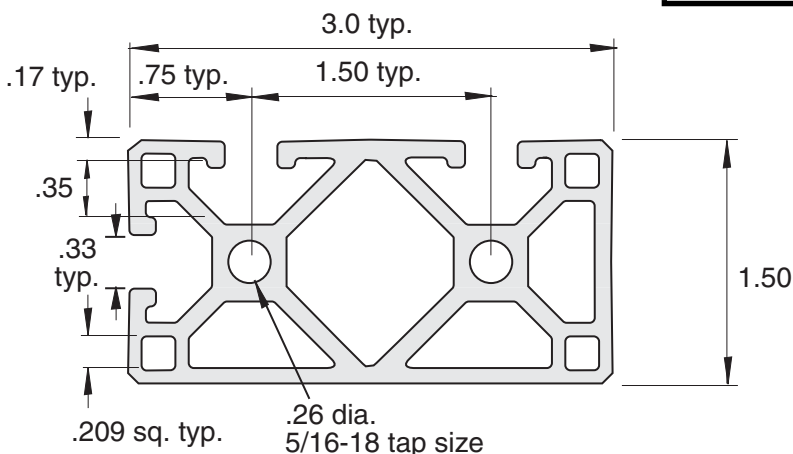
SMOOTH-Series



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .803 Sq. In.
- Weight/ft = .945 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Inertia in ⁴	.156
Section modulus in ³	.188



- Finish = Clear anodized
 - Material = 6105-T5 Aluminum
 - Est. Area = 1.599 Sq. In.
 - Weight/ft = 1.880 lbs.
 - 96", 192.63"
- Lengths standard.

Section Properties:

Moment of Inertia in⁴
Section modulus in³



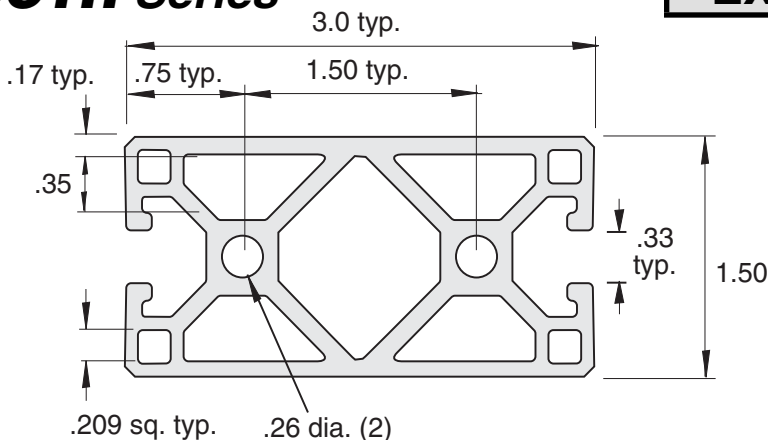
1.385
0.923

0.401
0.535

5/16" SLOTS

SMOOTH-Series

EX-68



- Finish = Clear anodized
 - Material = 6105-T5 Aluminum
 - Est. Area = 1.599 Sq. In.
 - Weight/ft = 1.880 lbs.
 - 96", 192.63"
- Lengths standard.

Section Properties:

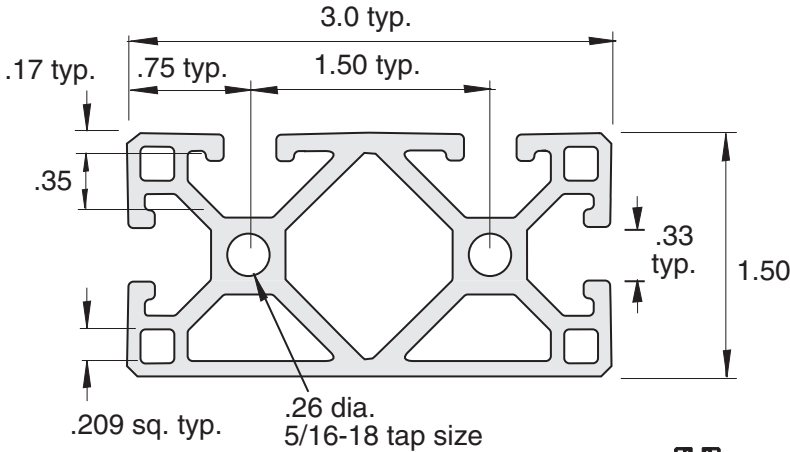
Moment of Inertia in⁴
Section modulus in³



1.385
0.923

0.401
0.535

EX-69



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.599 Sq. In.
- Weight/ft = 1.880 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Inertia in⁴
Section modulus in³

1.385
0.923

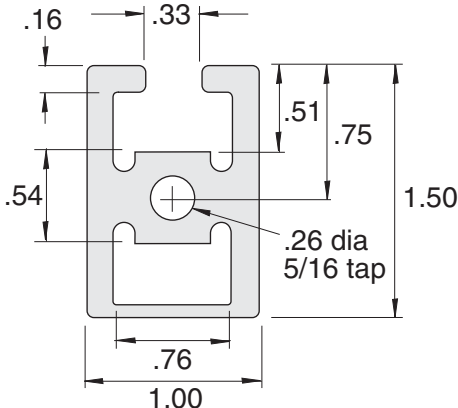


0.401
0.535

5/16" SLOTS

EX-52

SMOOTH-Series



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .818 Sq. In.
- Weight/ft = .954 lbs.
- 96", 192.63" Lengths standard.

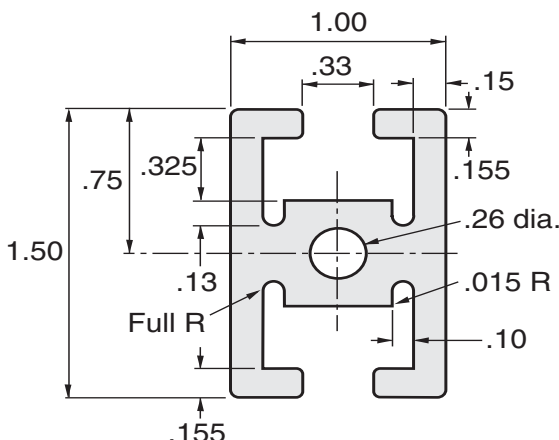
Section Properties:

Moment of Inertia in⁴
Section modulus in³

0.417
0.549



0.099
0.198



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .840 Sq. In.
- Weight/ft = 1.008 lbs.
- 96", 192.63" Lengths standard.

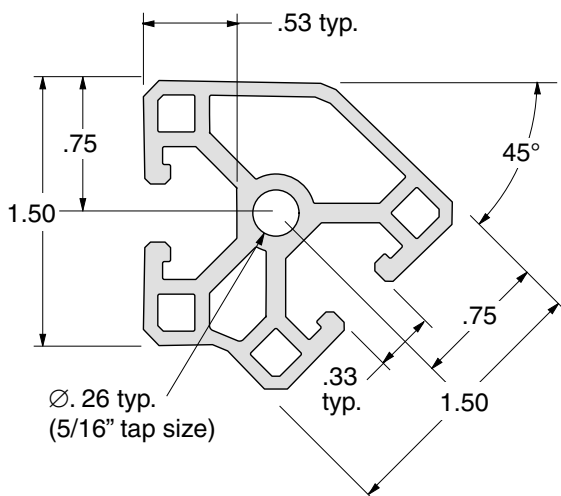


Section Properties:

Moment of Inertia in ⁴	0.142	0.100
Section modulus in ³	0.189	0.200

SMOOTH-Series

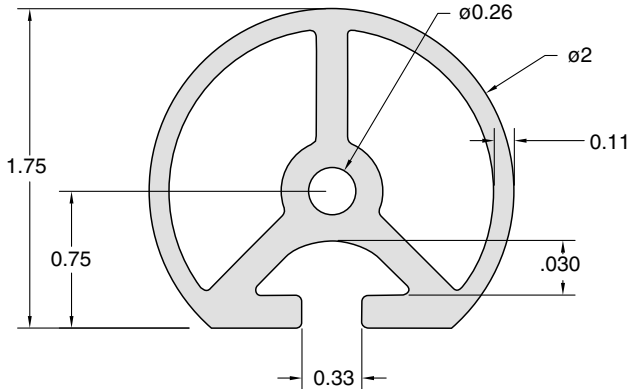
EX-82



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .85 Sq. In.
- Weight/ft = 1.02 lbs.
- 96", 192.63" Lengths standard.

Aluminum Extrusions

EX-81



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.17 Sq. In.
- Weight/ft = 1.363 lbs.
- 96", 192.63" Lengths standard.



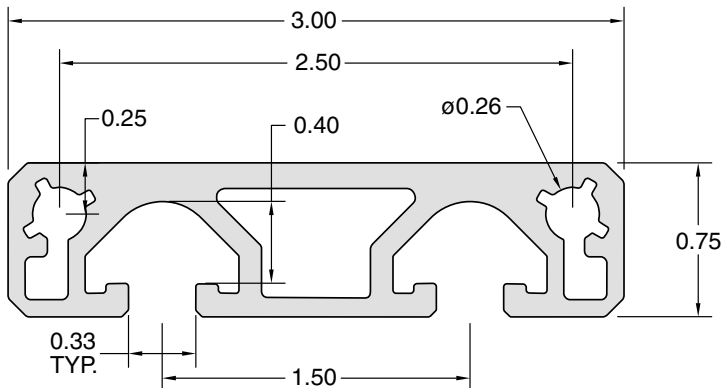
Section Properties:

Moment of Inertia in⁴
Section modulus in³

.33
1.00

.34
1.00

EX-57



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.05 Sq. In.
- Weight/ft = 1.27 lbs.
- 96", 192.63" Lengths standard.

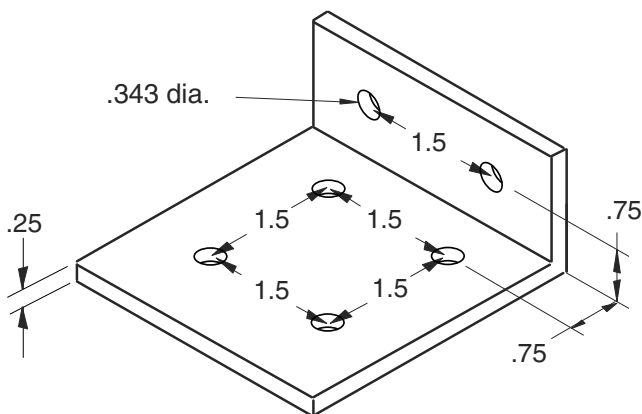


Section Properties:

Moment of Inertia in⁴
Section modulus in³

.90
.60

.07
.18



Mounting and connecting brackets have clearance holes for 5/16" (8 mm) dia. connecting screws which are all on .75" and 1.5" centers.

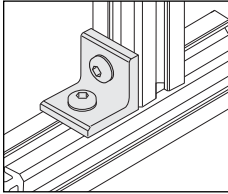
FRAME-WORLD designed fastener brackets, extrusions, hardware and accessories provide an unlimited system for structural design and assembly.

Note: Mounting brackets and plates are made of clear anodized aluminum unless otherwise specified

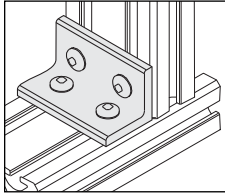
Recommended torque for 5/16-18 or m8 fasteners is 15 to 20 ft lbs

Section C.1

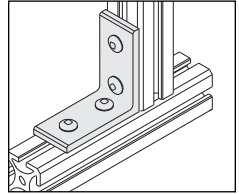
Corner Angle Brackets



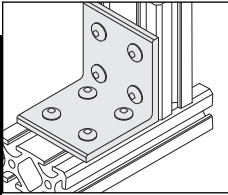
page 59



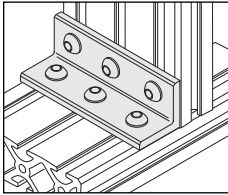
page 60



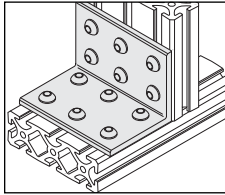
page 61



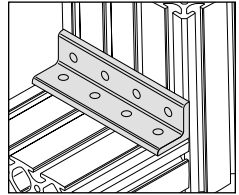
page 62



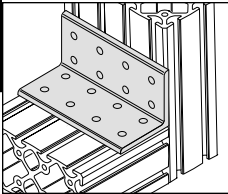
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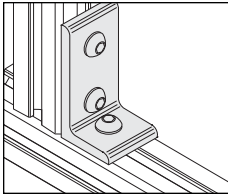
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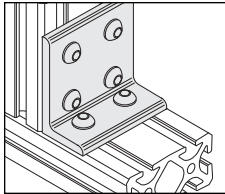
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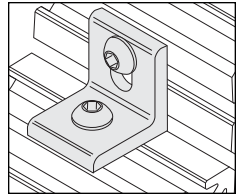
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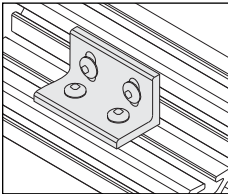
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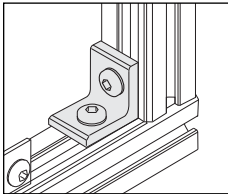
page 68



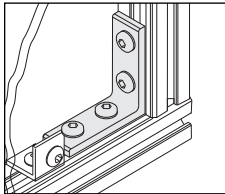
page 69



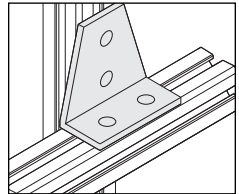
page 70



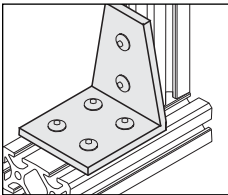
page 71



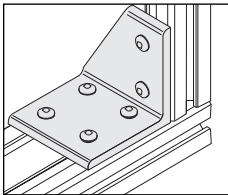
page 72



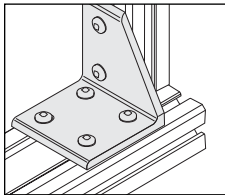
page 73



page 74



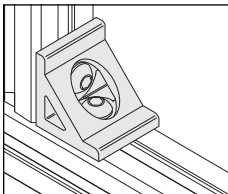
page 75



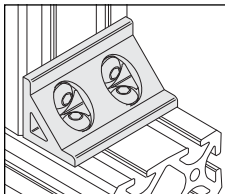
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Section C.2

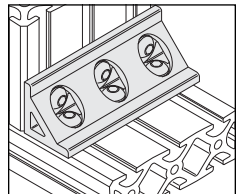
Gusseted Corner Angle Brackets



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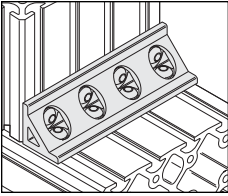


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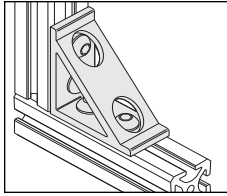


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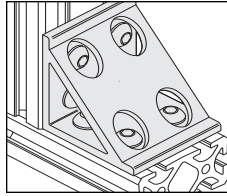
5/16" SLOTS



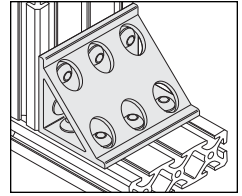
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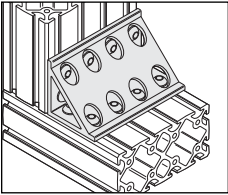
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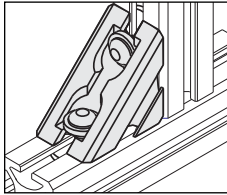
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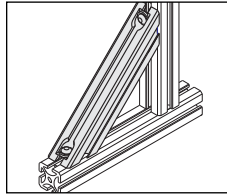
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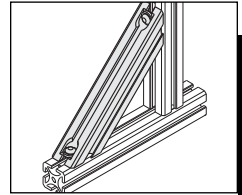
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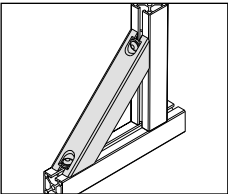
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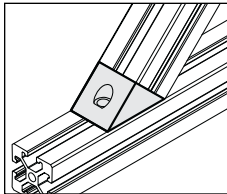
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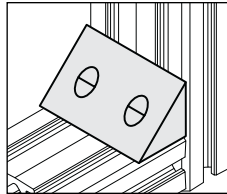
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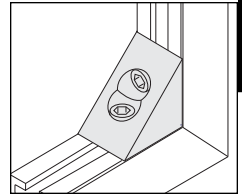
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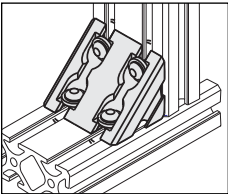
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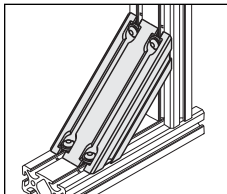
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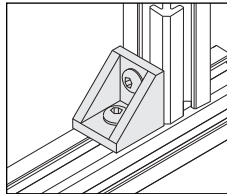
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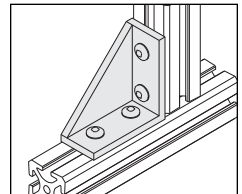
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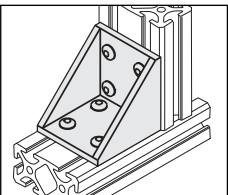
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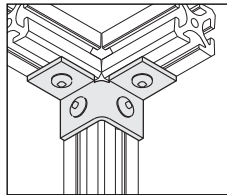


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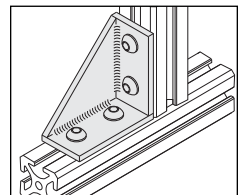


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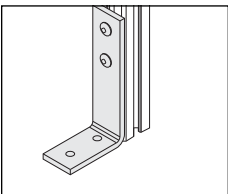
Section C.3 Steel Corner Angle Brackets



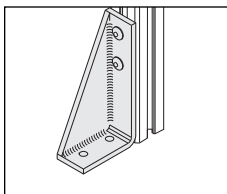
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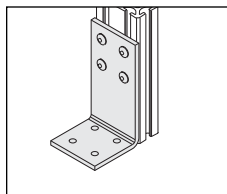
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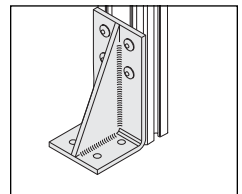
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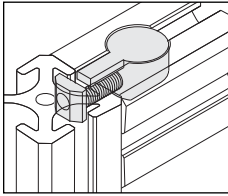
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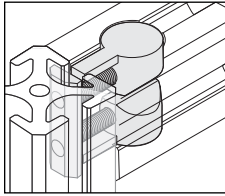
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Section C.4

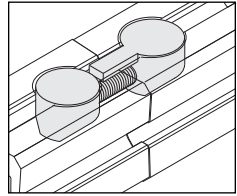
Internal & Adjustable Corner Brackets



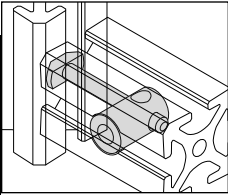
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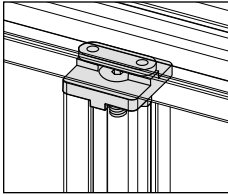
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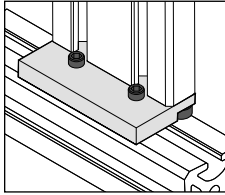
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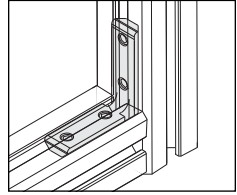
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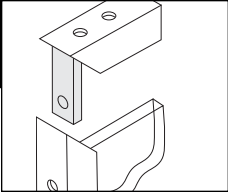
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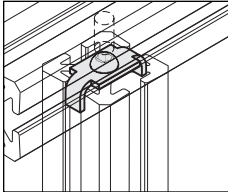
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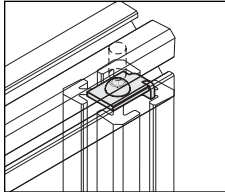
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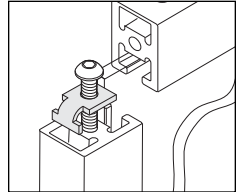
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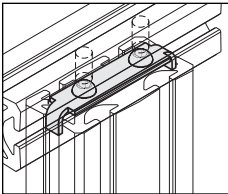
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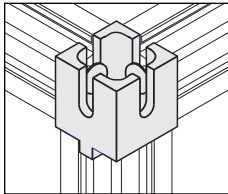
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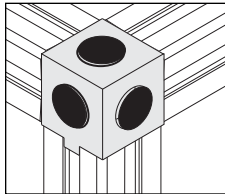
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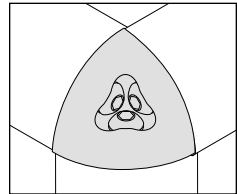
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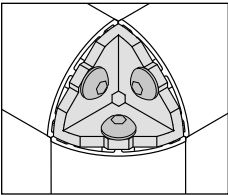
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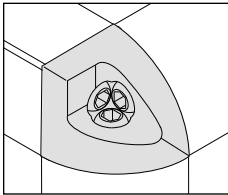
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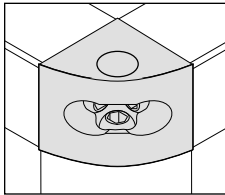
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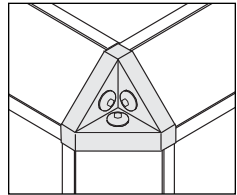
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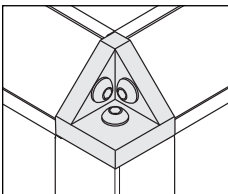
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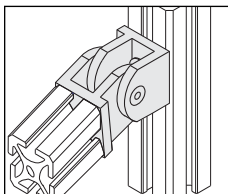
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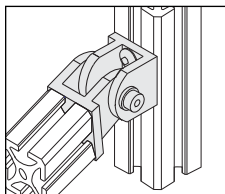
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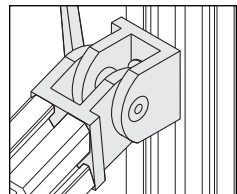
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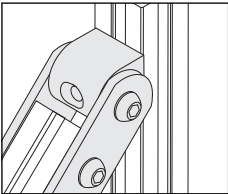


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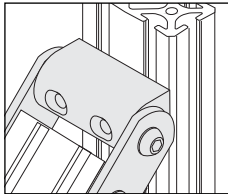


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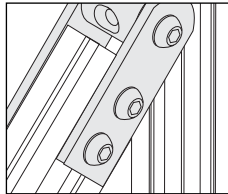
5/16" SLOTS



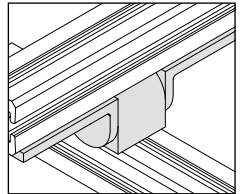
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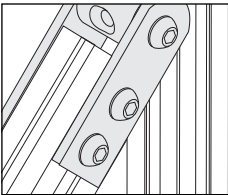
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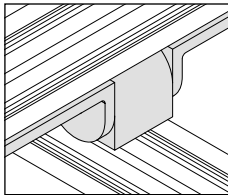
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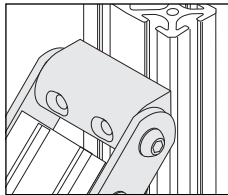
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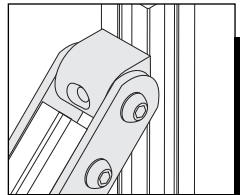
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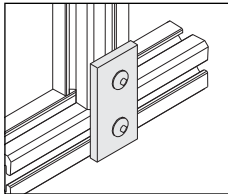
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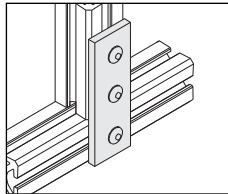
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Section C.5

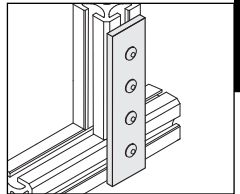
Joining Plates



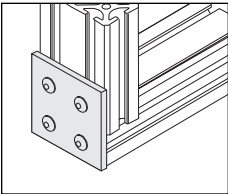
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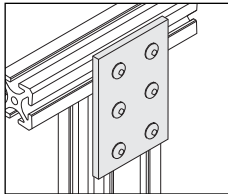
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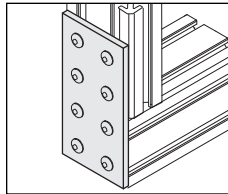
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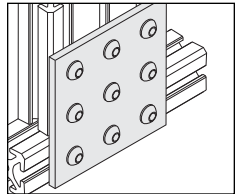
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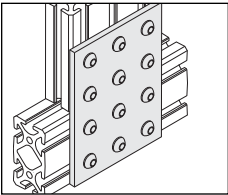
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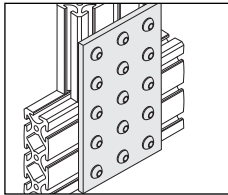
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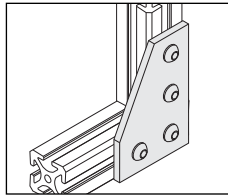
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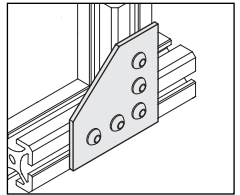
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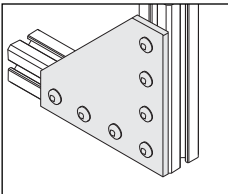
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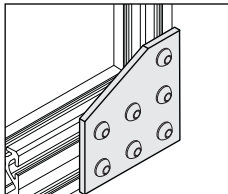
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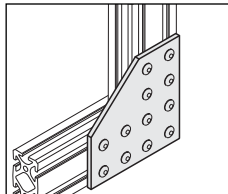
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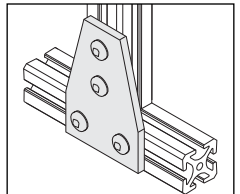
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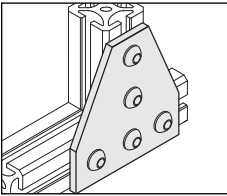
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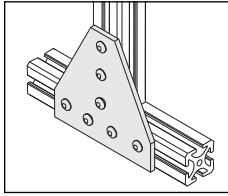
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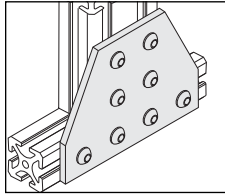
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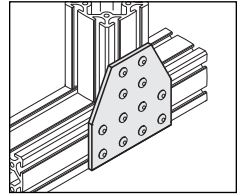
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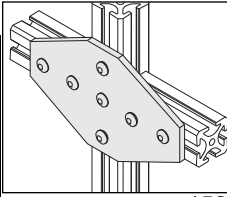
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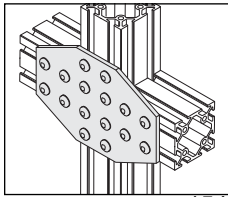
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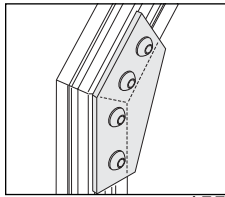
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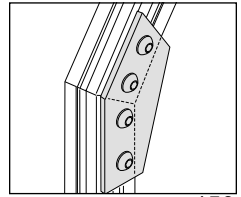
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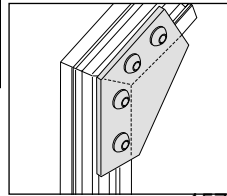
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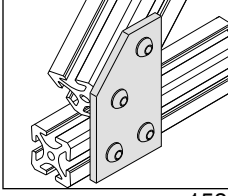
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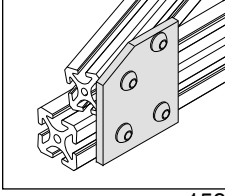
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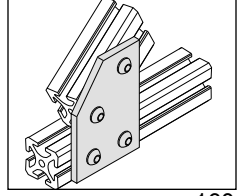
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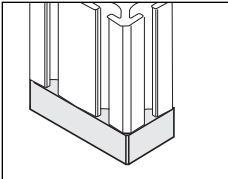
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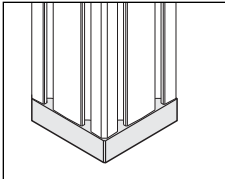
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Section C.6

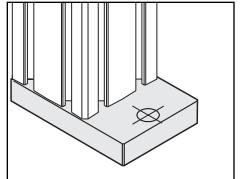
Floor Mounts, Casters and Adjustable Feet



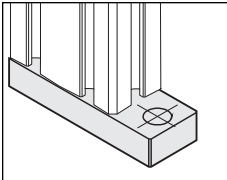
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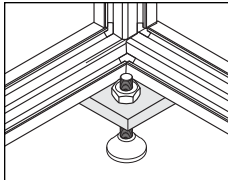
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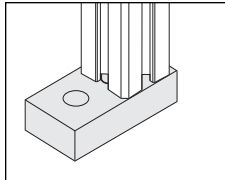
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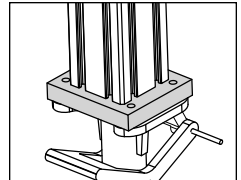
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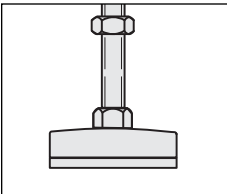
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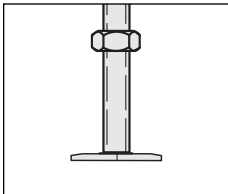
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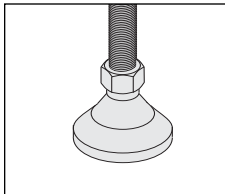
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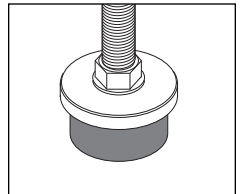
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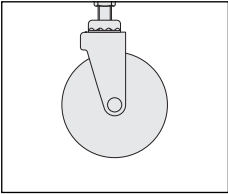


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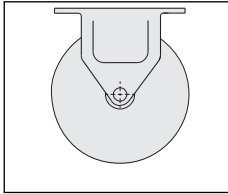


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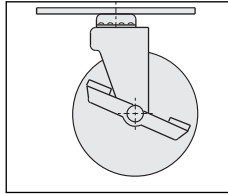
5/16" SLOTS



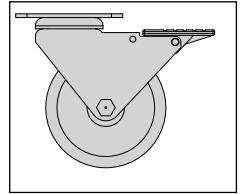
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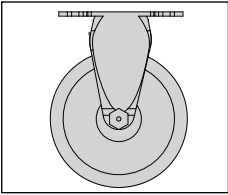
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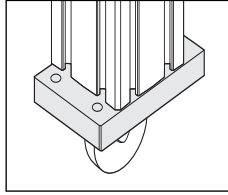
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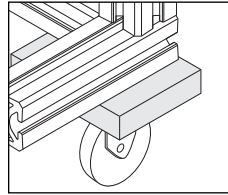
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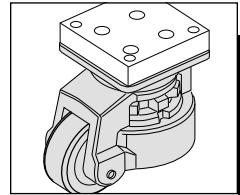
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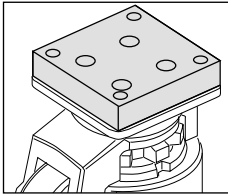
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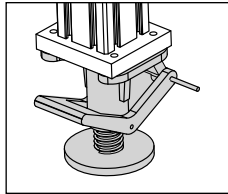
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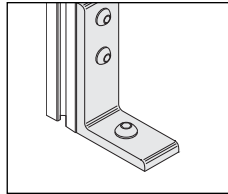
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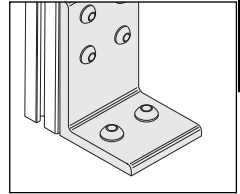
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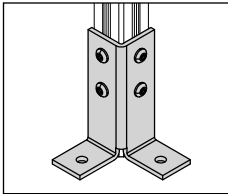
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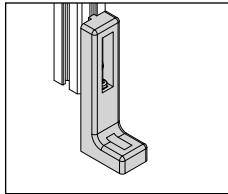
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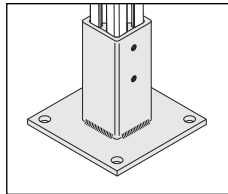
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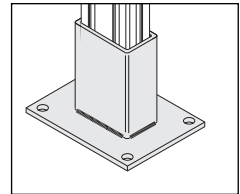
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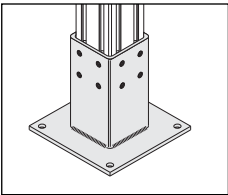
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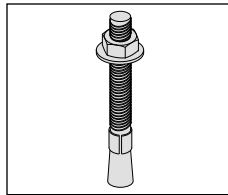
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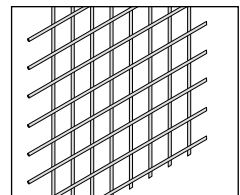


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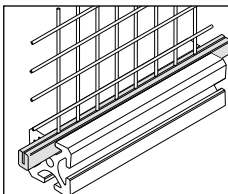


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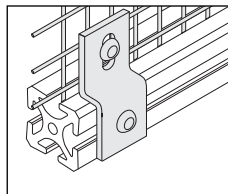
Section C.7 Panels, Doors and Hardware



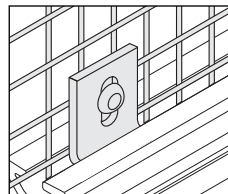
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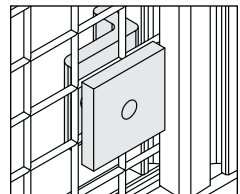
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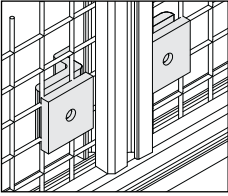


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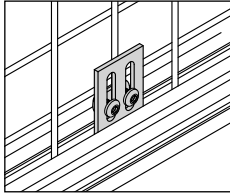


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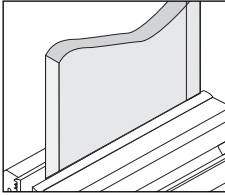
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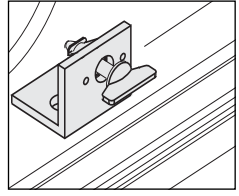
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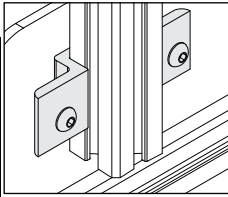
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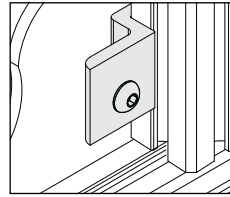
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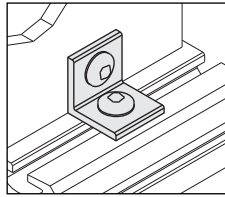
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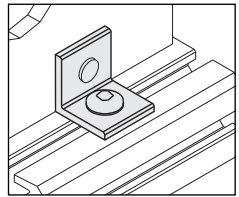
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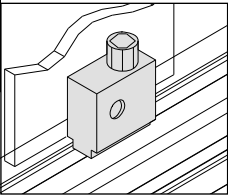
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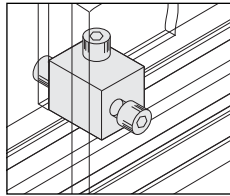
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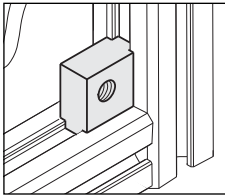
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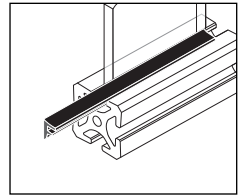
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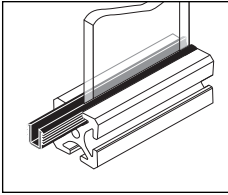
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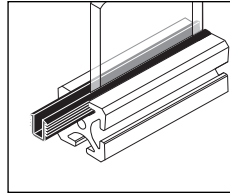
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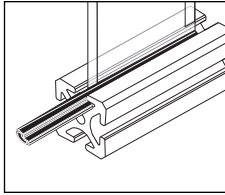
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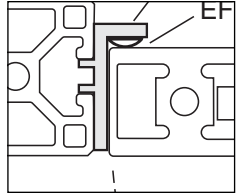
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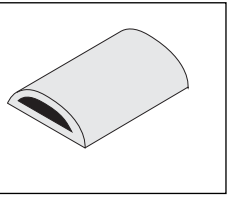
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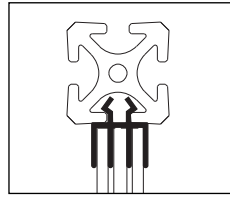
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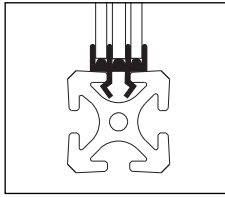
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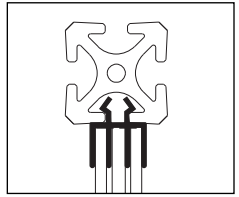
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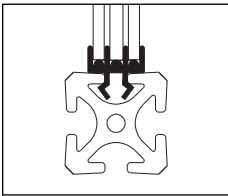
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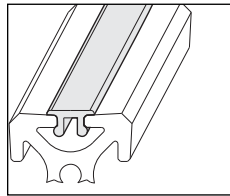
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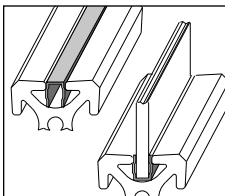
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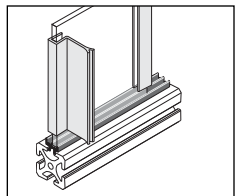
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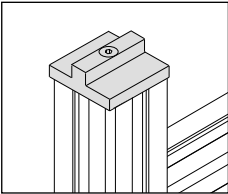
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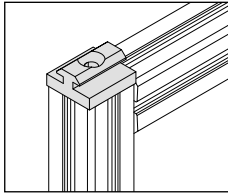
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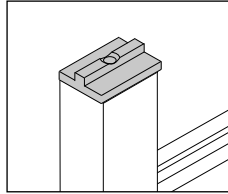
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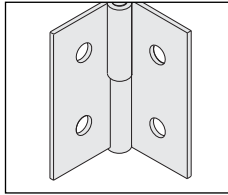
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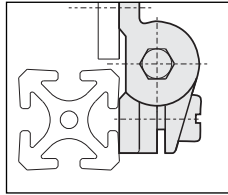
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Section C.8

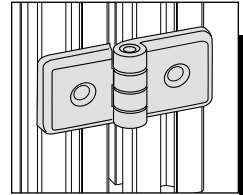
Hinges, Handles and Latches



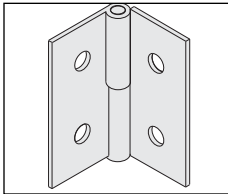
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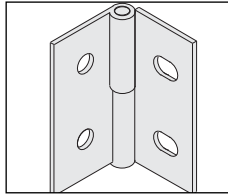
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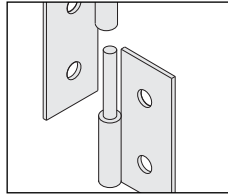
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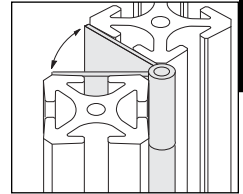
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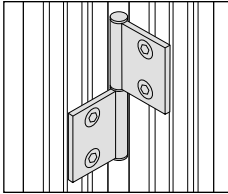
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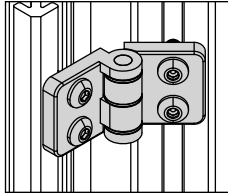
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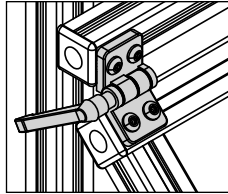
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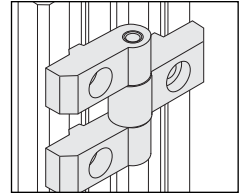
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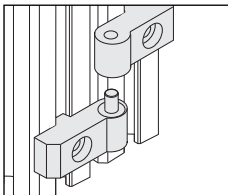
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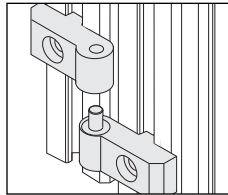
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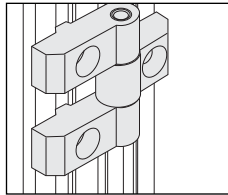
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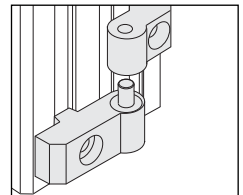
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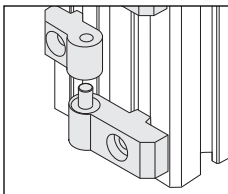
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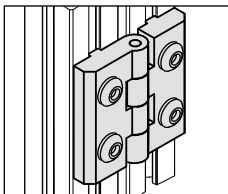
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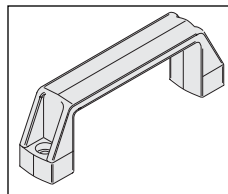
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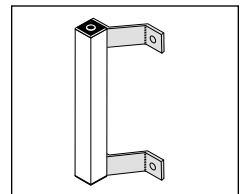
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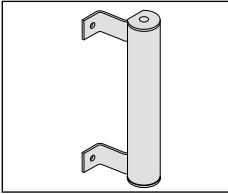


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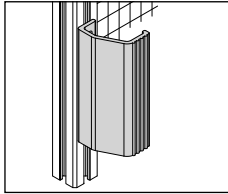


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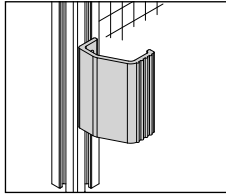
5/16" SLOTS



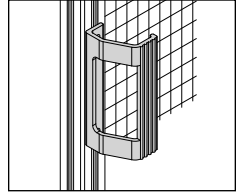
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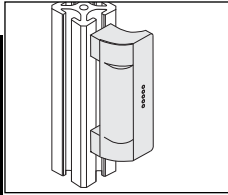
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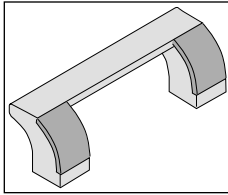
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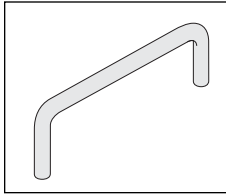
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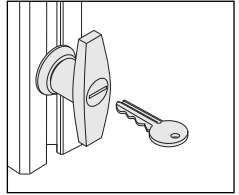
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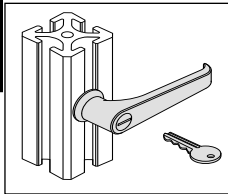
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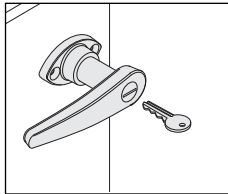
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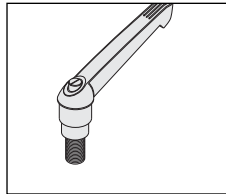
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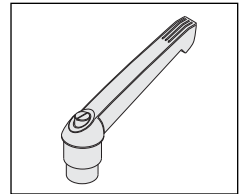
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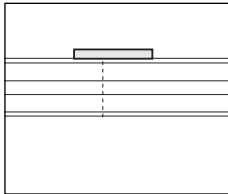
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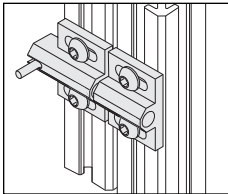
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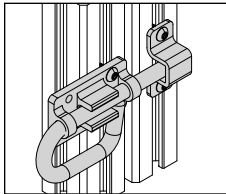
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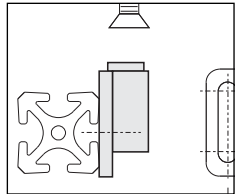
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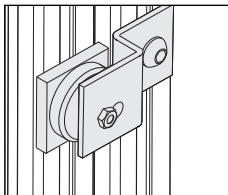
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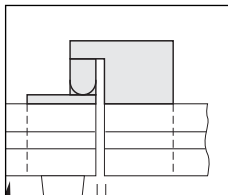
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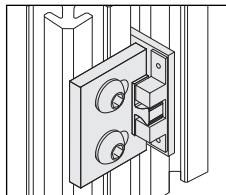
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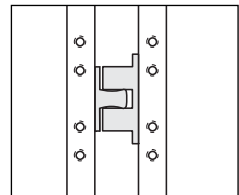
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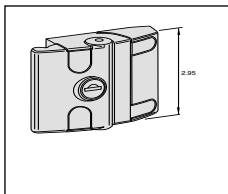
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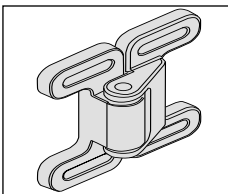
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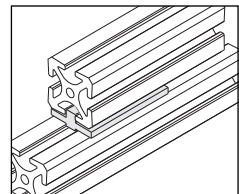


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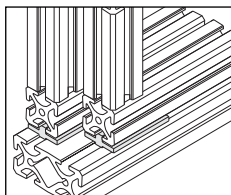


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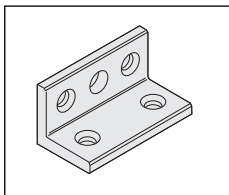
Section C.9 Sliding Components and Bearings



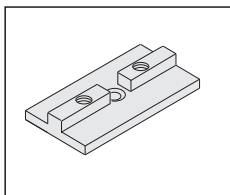
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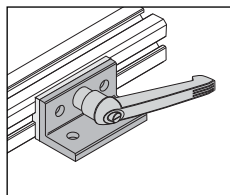
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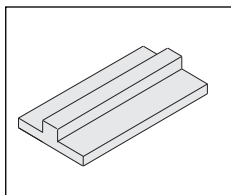
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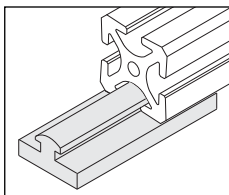
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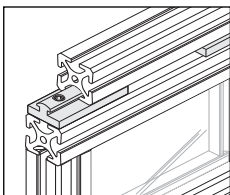
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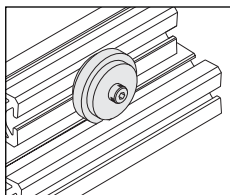
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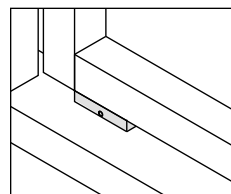
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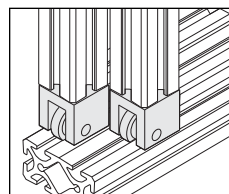
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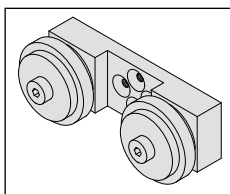
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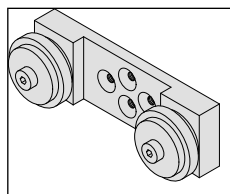
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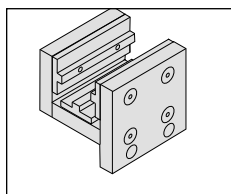
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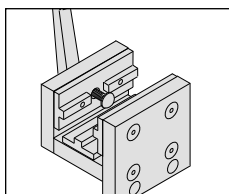
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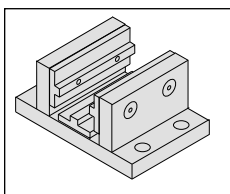
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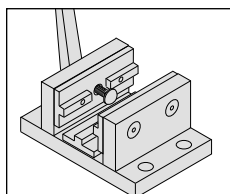
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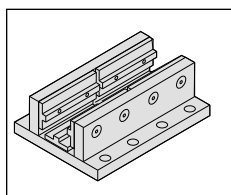
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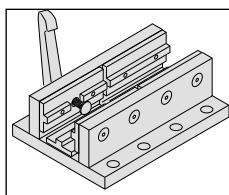
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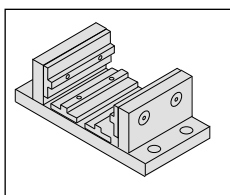
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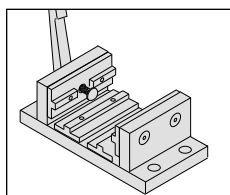
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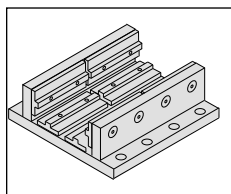
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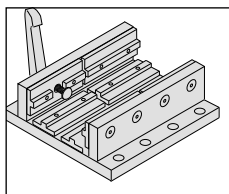
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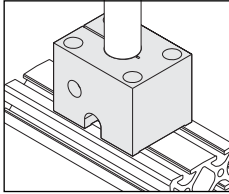
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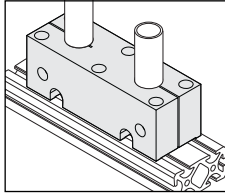
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5/16" SLOTS

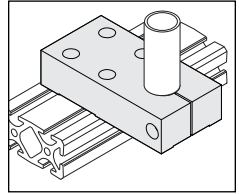
Section C.10 Stanchions



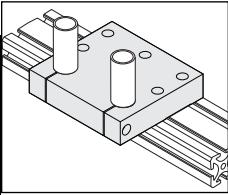
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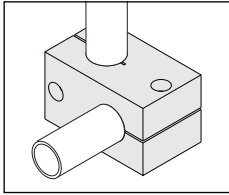
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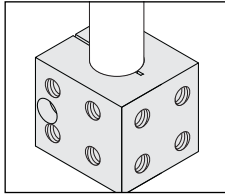
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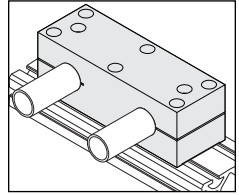
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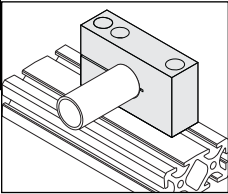
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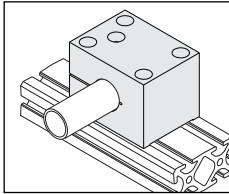
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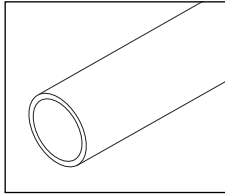
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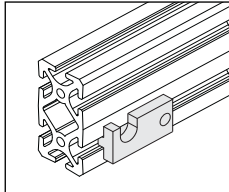


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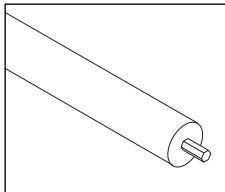


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Section C.11 Conveyor

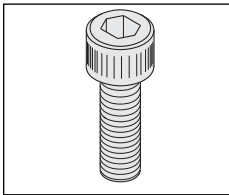


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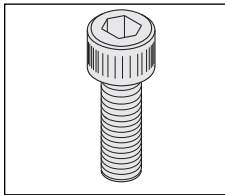


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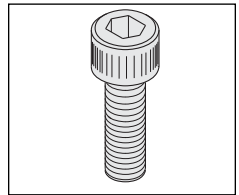
Section C.12 Screws, Nuts & Fasteners



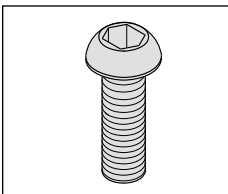
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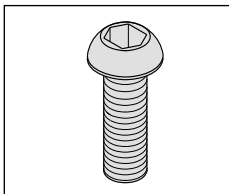
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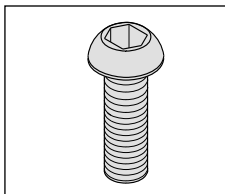
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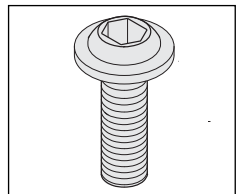
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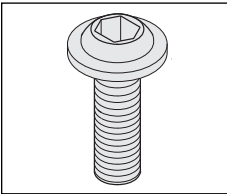
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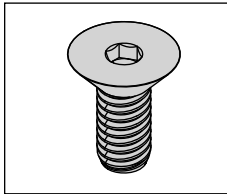
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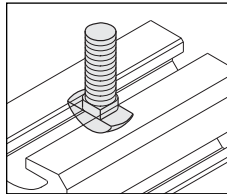
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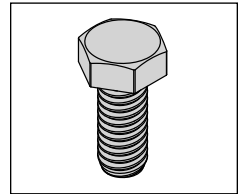
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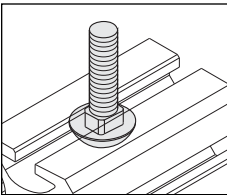
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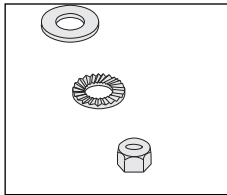
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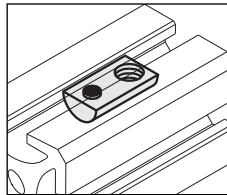
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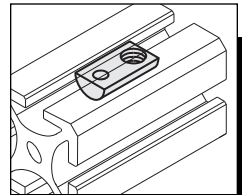
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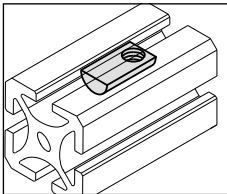
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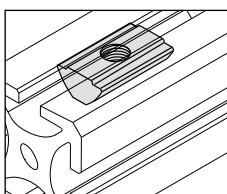
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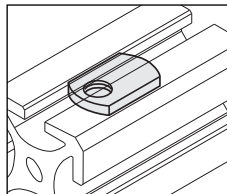
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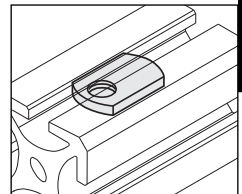
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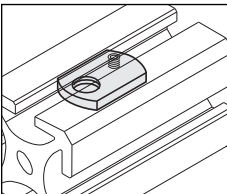
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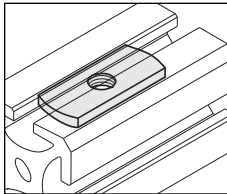
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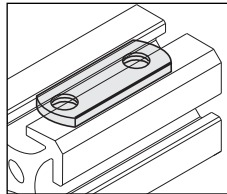
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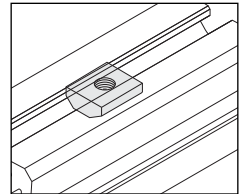
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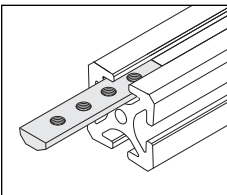
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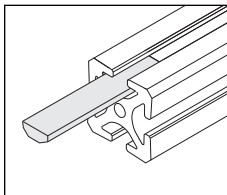
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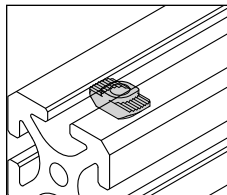
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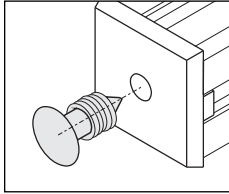


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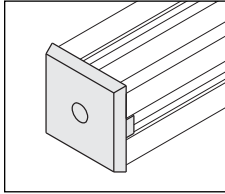


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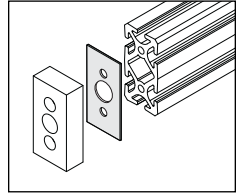
Section C.13 Miscellaneous Components



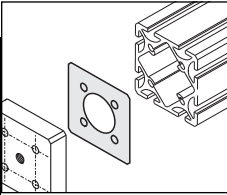
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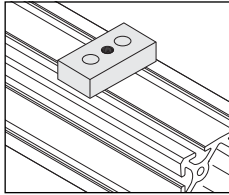
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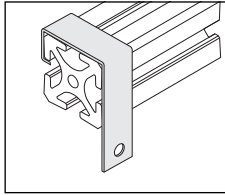
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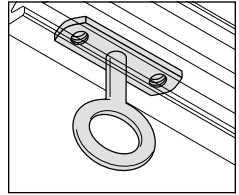
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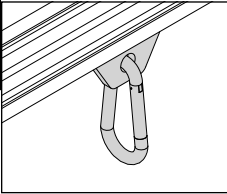
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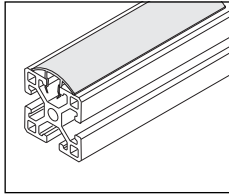
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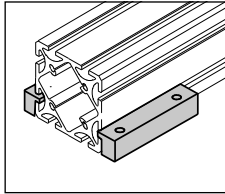
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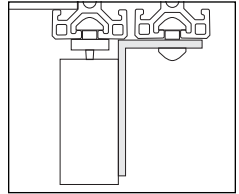
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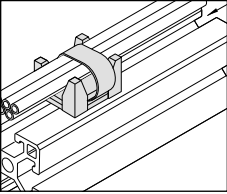
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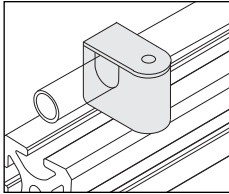
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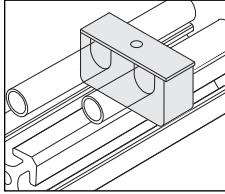
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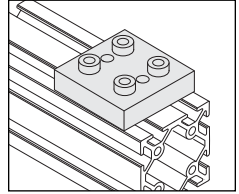
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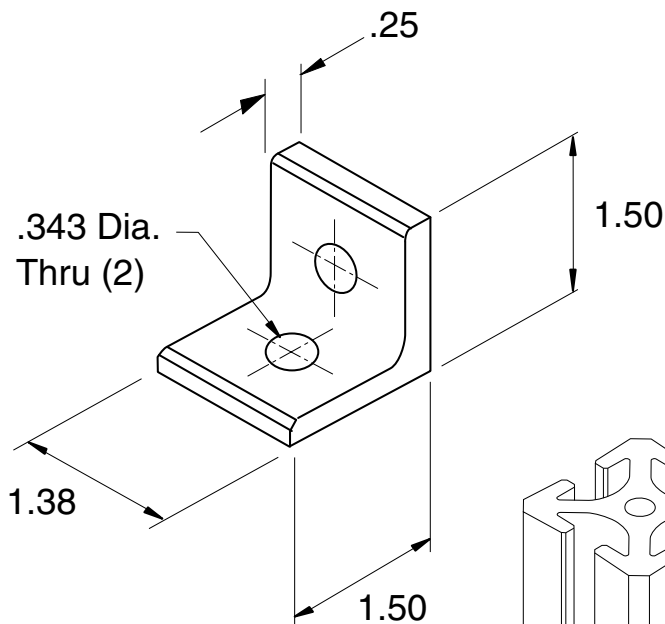


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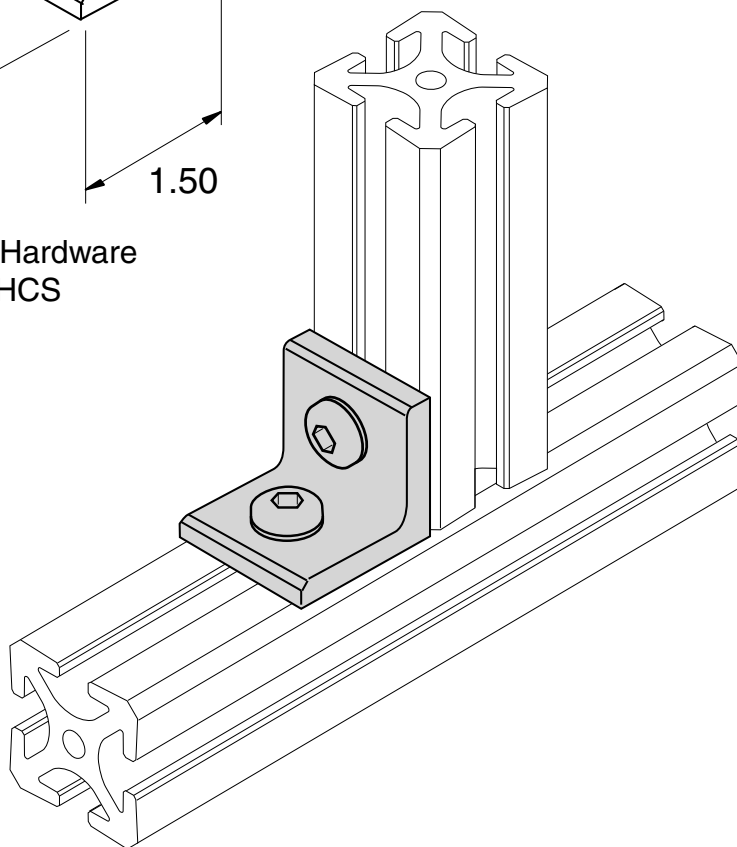
Clear Anodized
Flat Black Powder Coat

EB-1

BLB-1



Recommended Hardware
(2) EF-12-.63 BHCS
(2) EF-2 T-nut



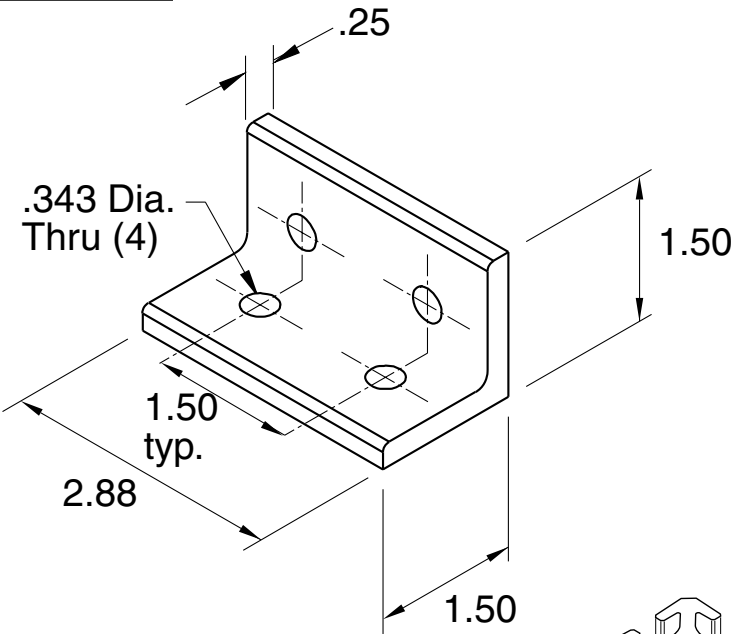
5/16" SLOTS

Material - Aluminum

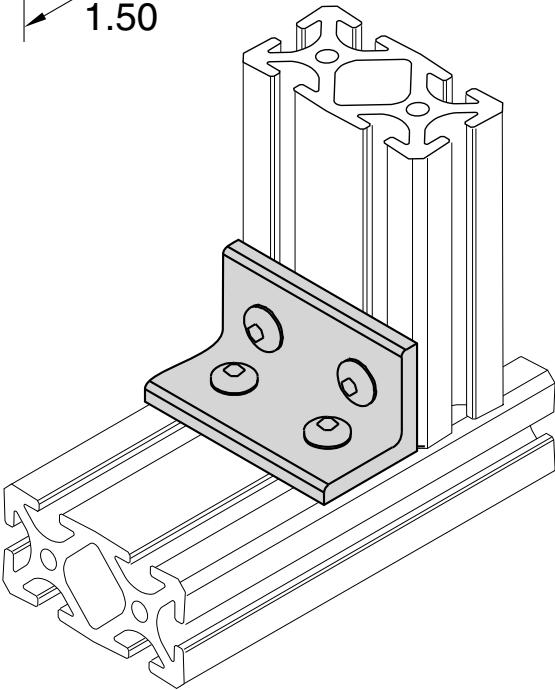
EB-2
BLB-2

Clear Anodized
Flat Black Powder Coat

5/16" SLOTS



Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

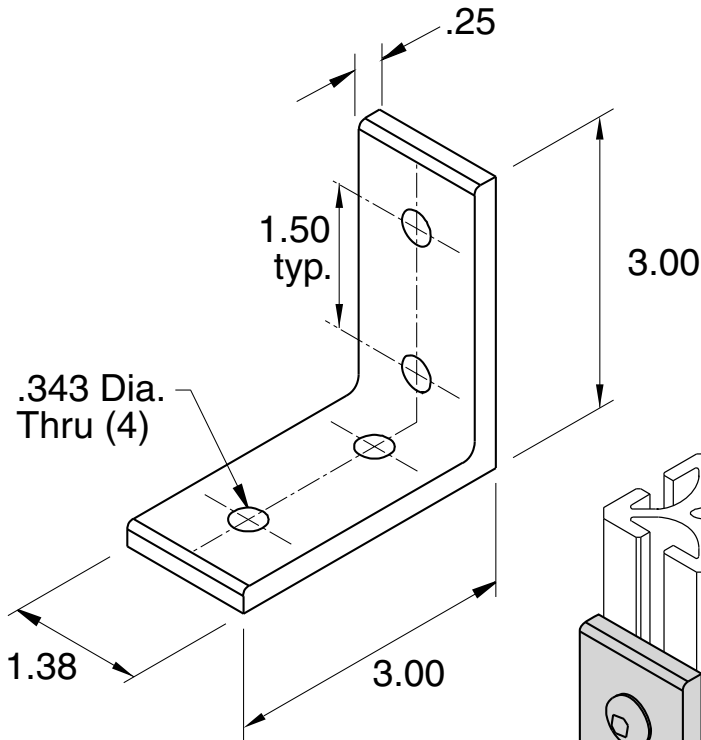


Material - Aluminum

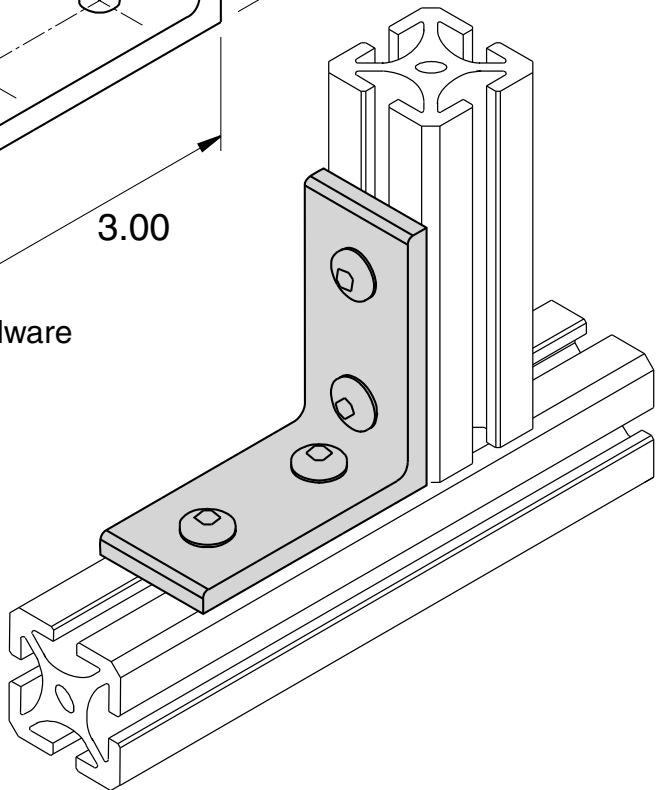
Clear Anodized
Flat Black Powder Coat

EB-3

BLB-3



Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut



5/16" SLOTS

Material - Aluminum

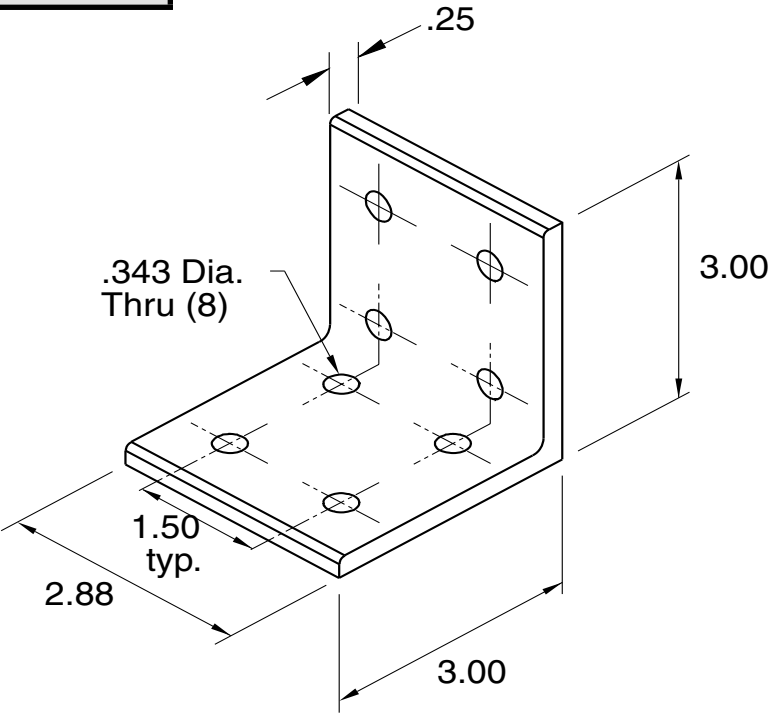
Corner Angle



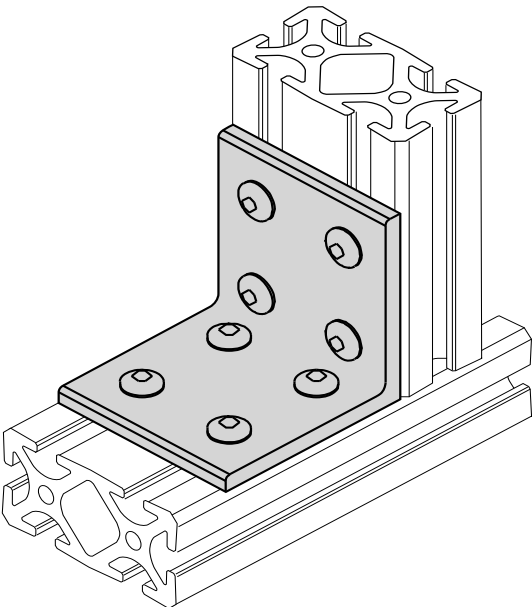
EB-4
BLB-4

Clear Anodized
Flat Black Powder Coat

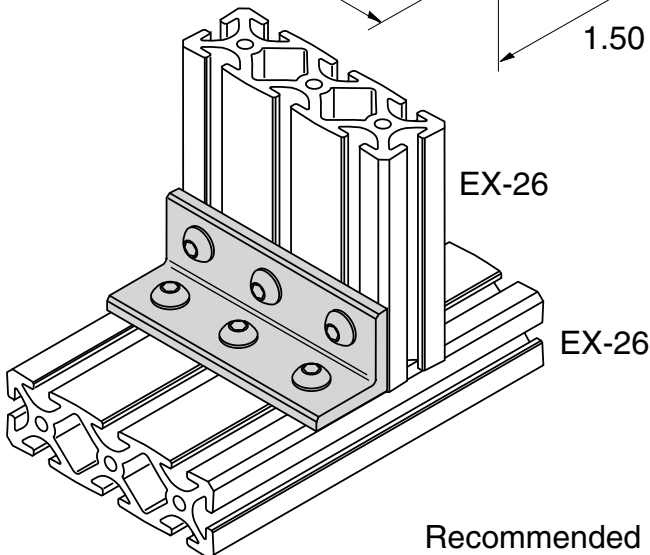
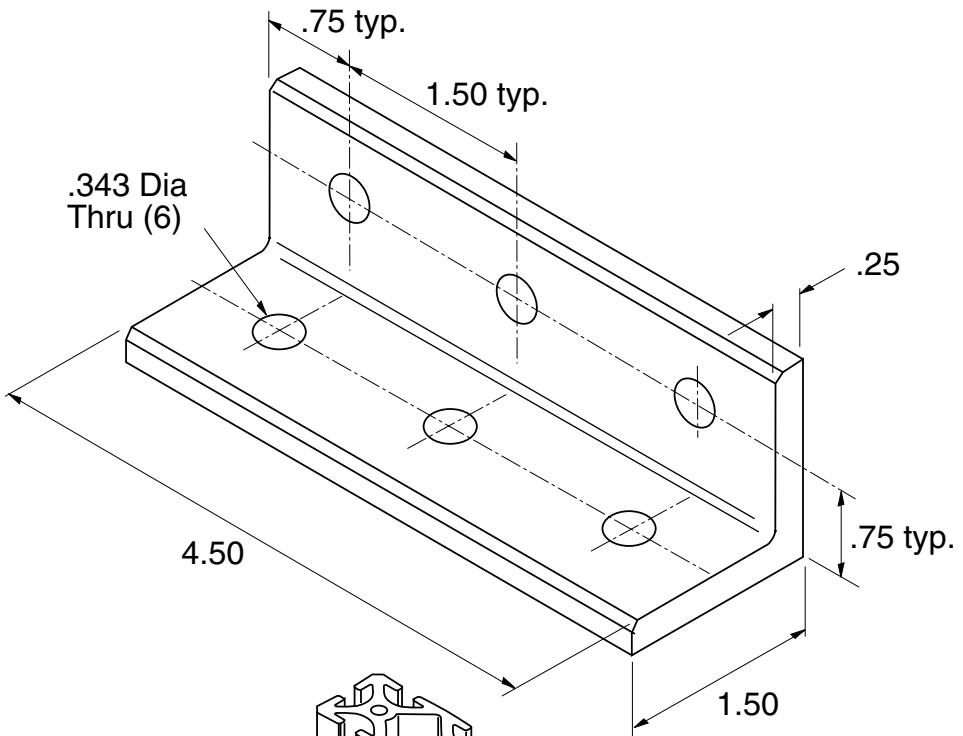
5/16" SLOTS



Recommended Hardware
(8) EF-12-.63 BHCS
(8) EF-2 T-nut



Material - Aluminum

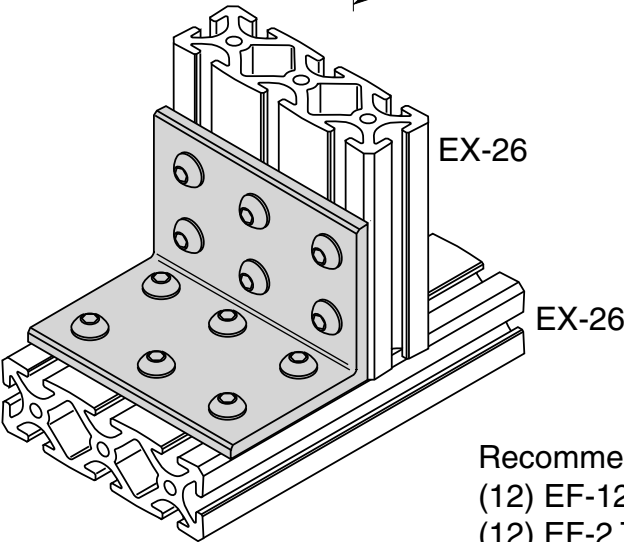
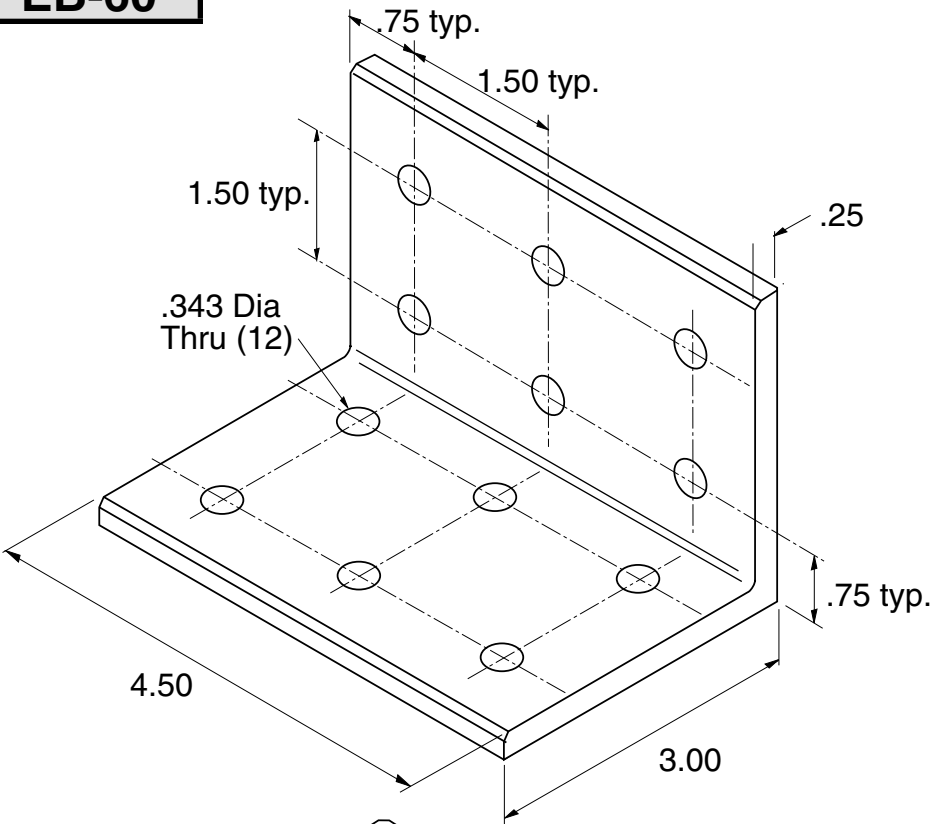


Recommended Hardware
 (6) EF-12-.63 BHCS
 (6) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

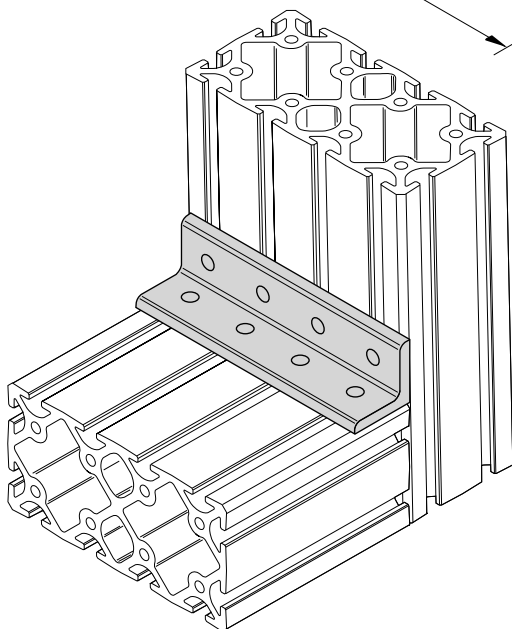
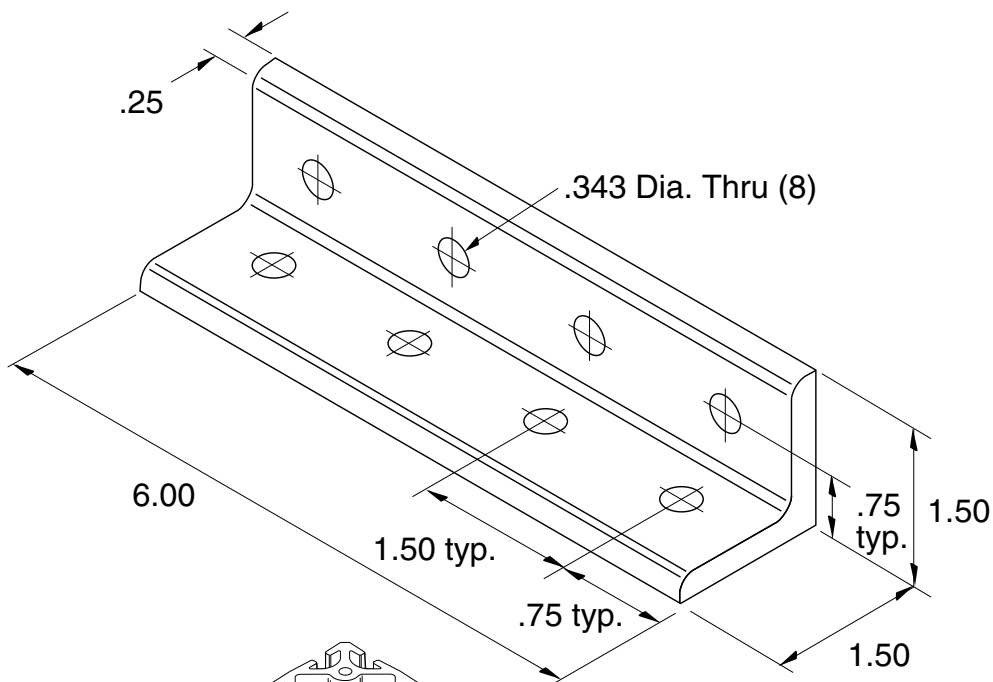
EB-60

5/16" SLOTS



Recommended Hardware
(12) EF-12-.63 BHCS
(12) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

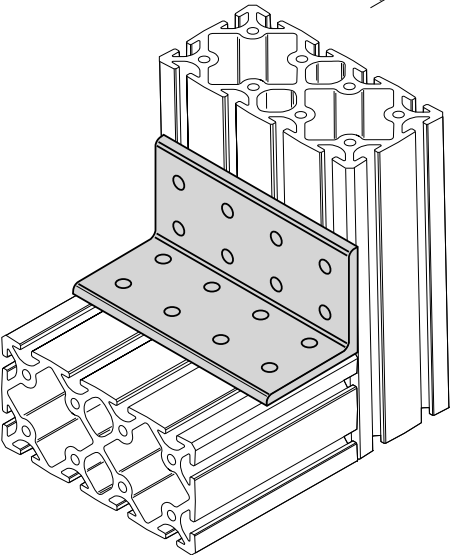
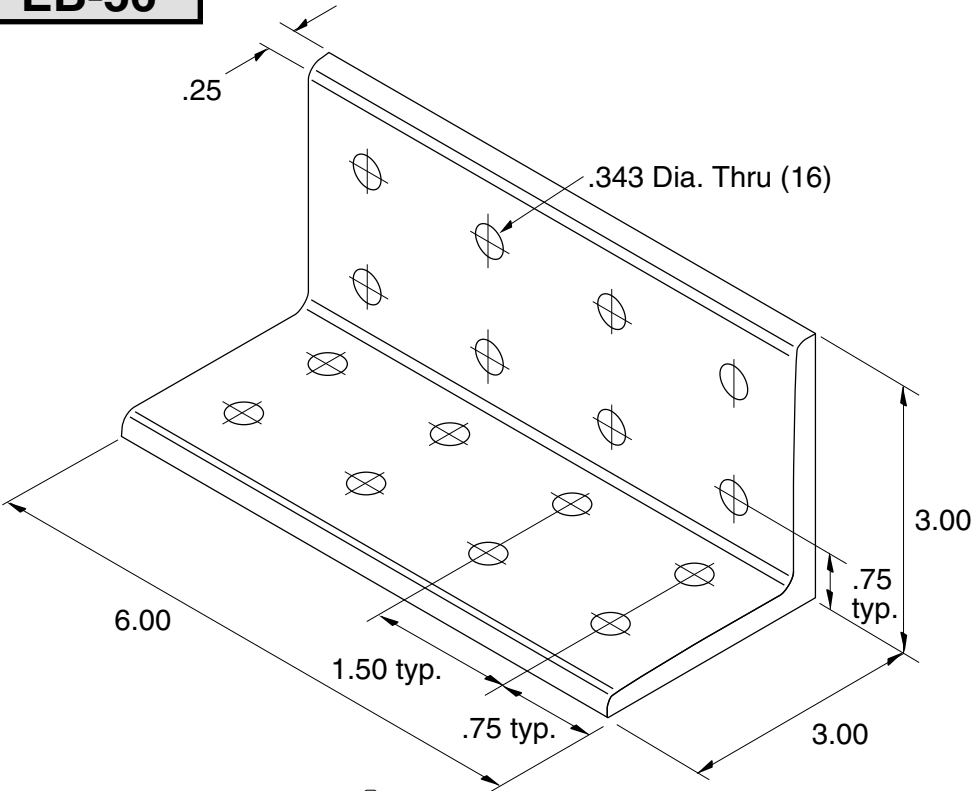


Recommended
Hardware
(8) EF-12-.63 BHCS
(8) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

EB-56

5/16" SLOTS



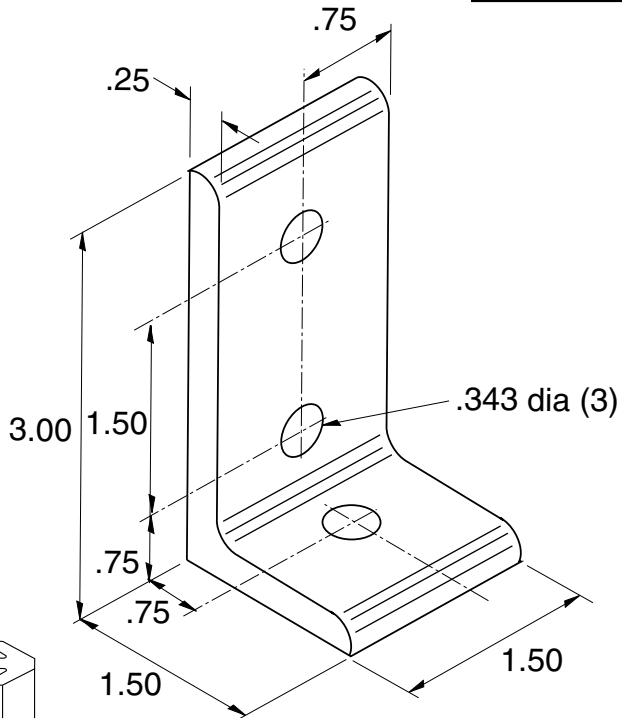
Recommended
Hardware
(16) EF-12-.63 BHCS
(16) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

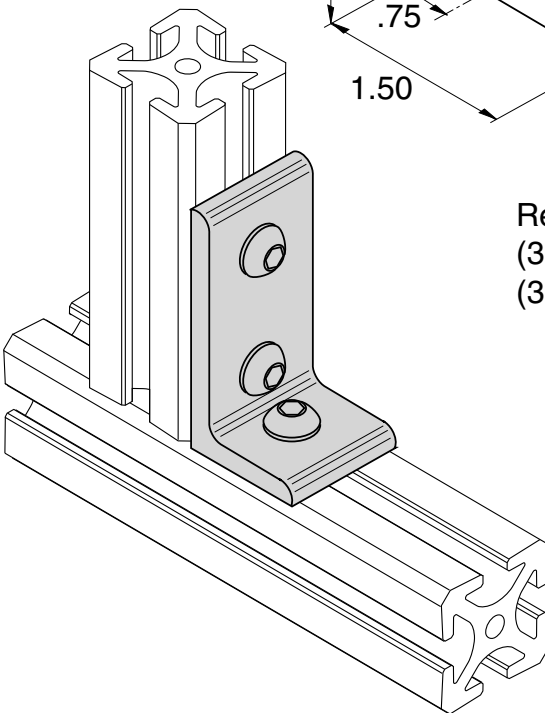
**Clear Anodized
Flat Black Powder Coat**

EB-100

BLB-100



5/16" SLOTS

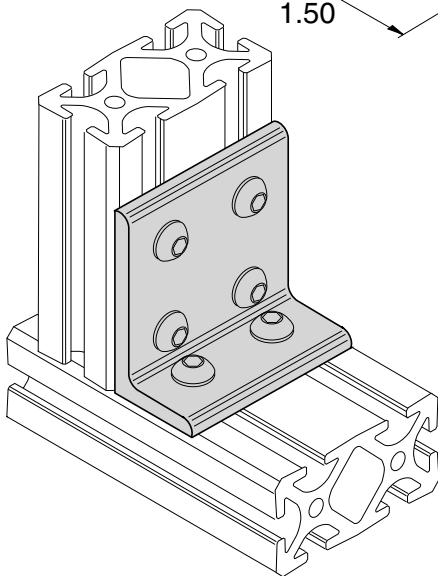
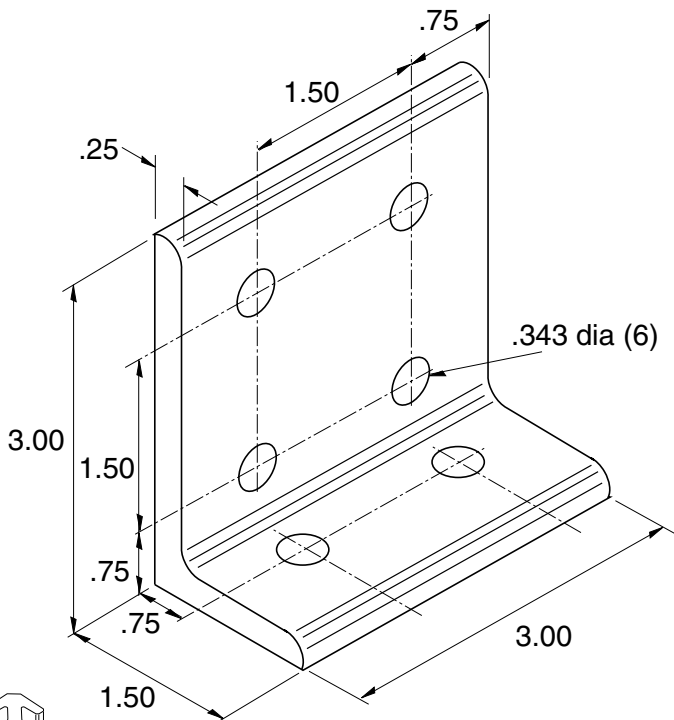


Recommended Hardware
(3) EF-12-.63 BHCS
(3) EF-2 T-nut

Material - Aluminum

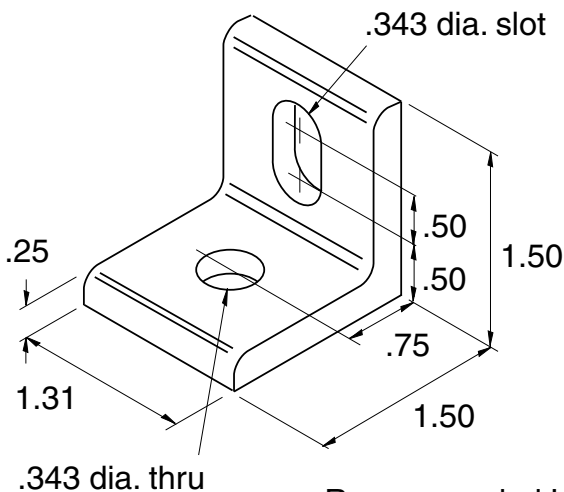
EB-101

5/16" SLOTS



Recommended Hardware
(6) EF-12-.63 BHCS
(6) EF-2 T-nut

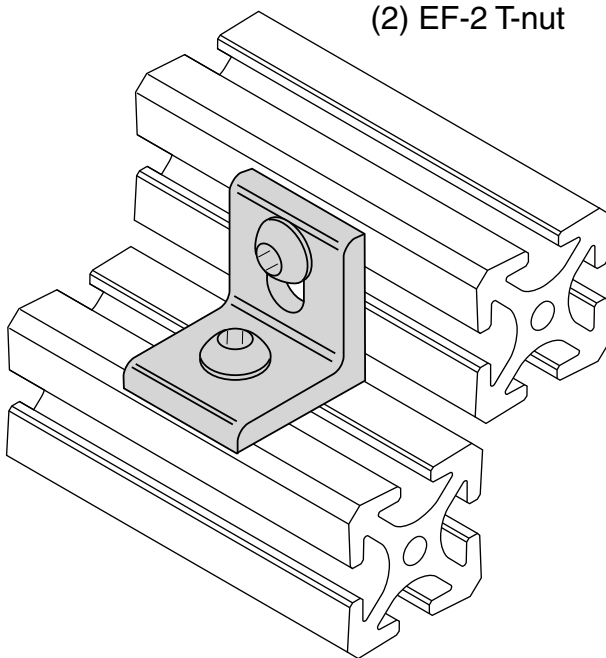
Material - Aluminum
Finish - Clear Anodize



Recommended Hardware

(2) EF-12-.63 BHCS

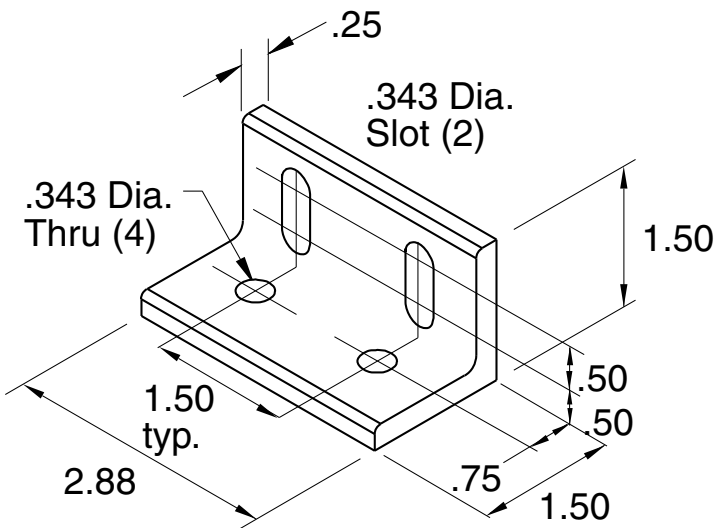
(2) EF-2 T-nut



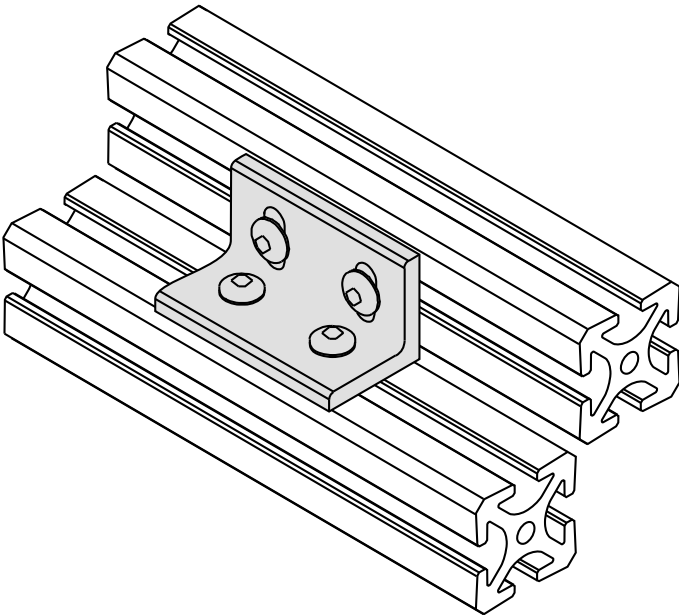
Material - Aluminum
Finish - Clear Anodize

EB-103

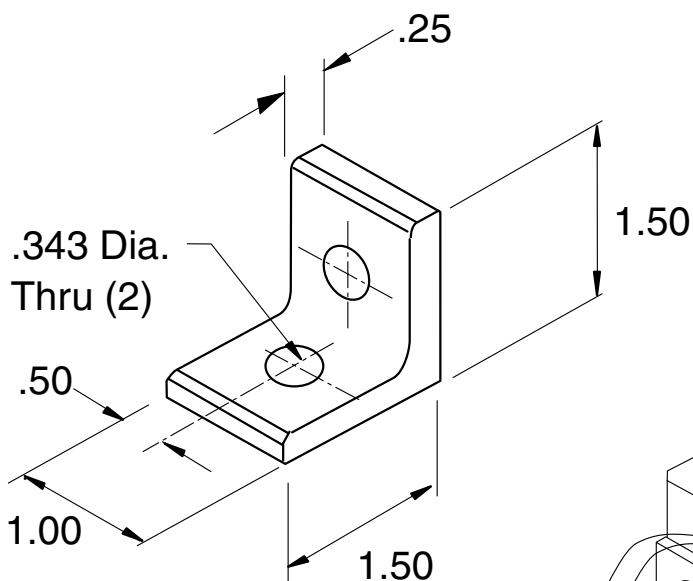
5/16" SLOTS



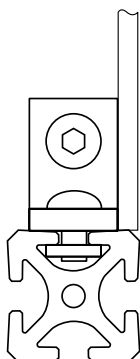
Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut



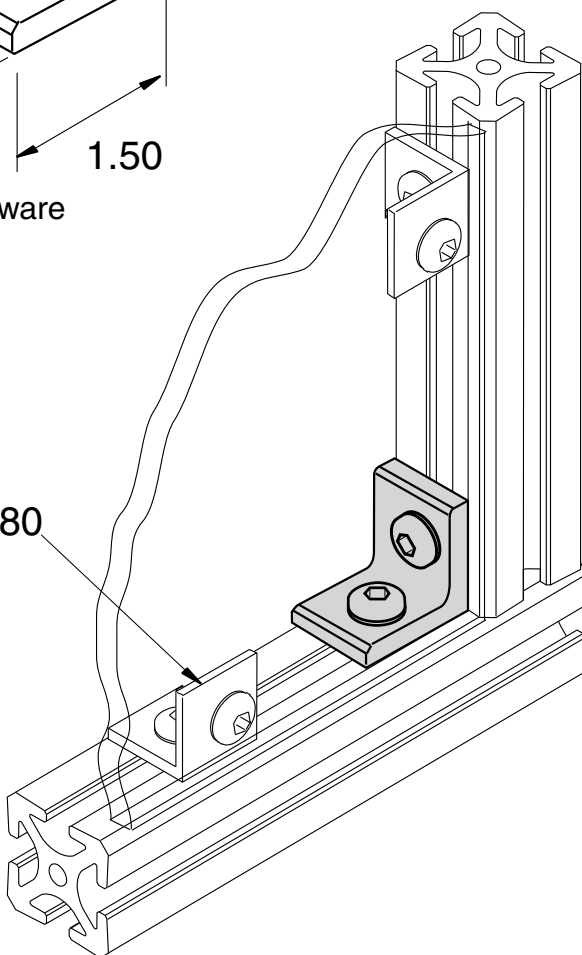
Material - Aluminum
Finish - Clear Anodize



Recommended Hardware
(2) EF-12-.63 BHCS
(2) EF-2 T-nut



EB-80

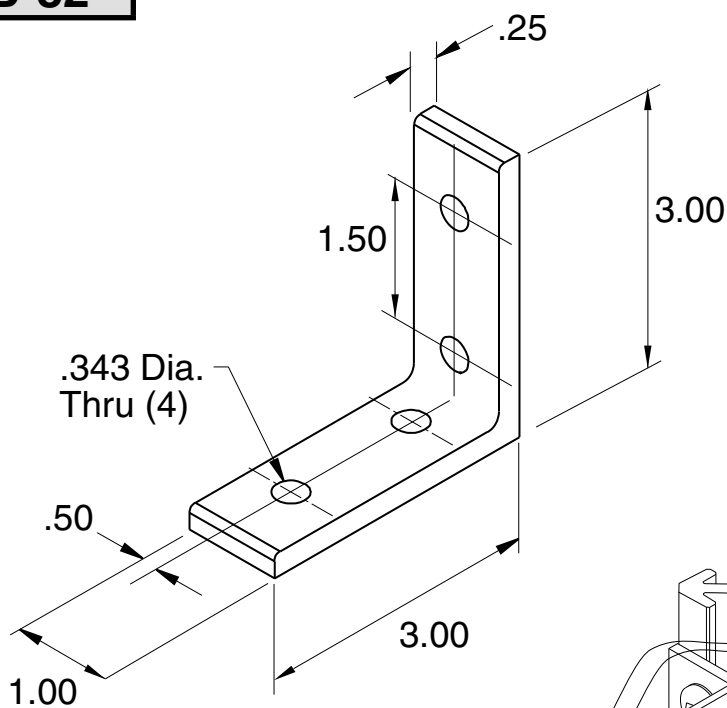


Material - Aluminum
Finish - Clear Anodize

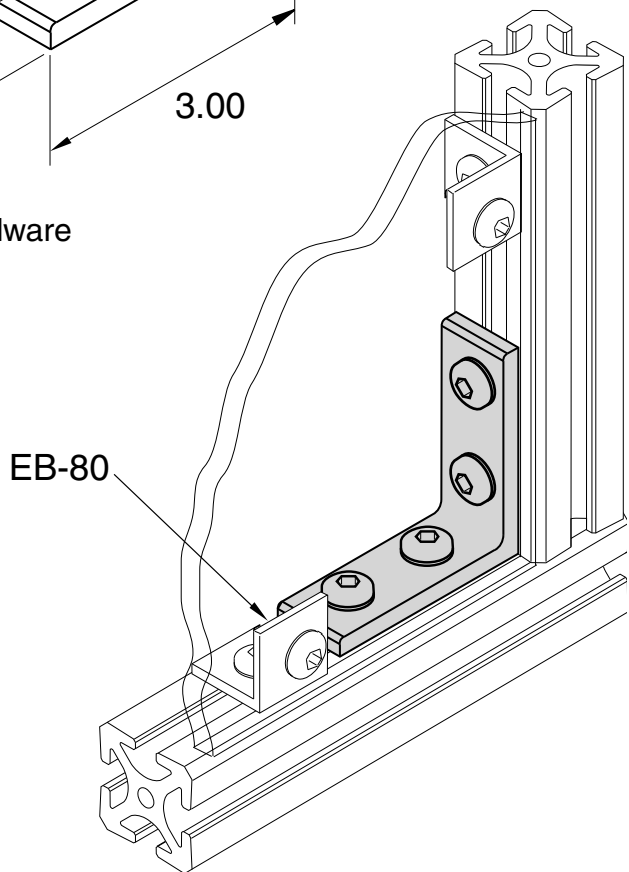
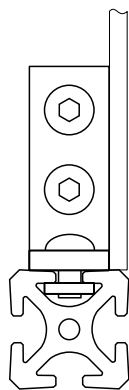
5/16" SLOTS

EB-82

5/16" SLOTS



Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

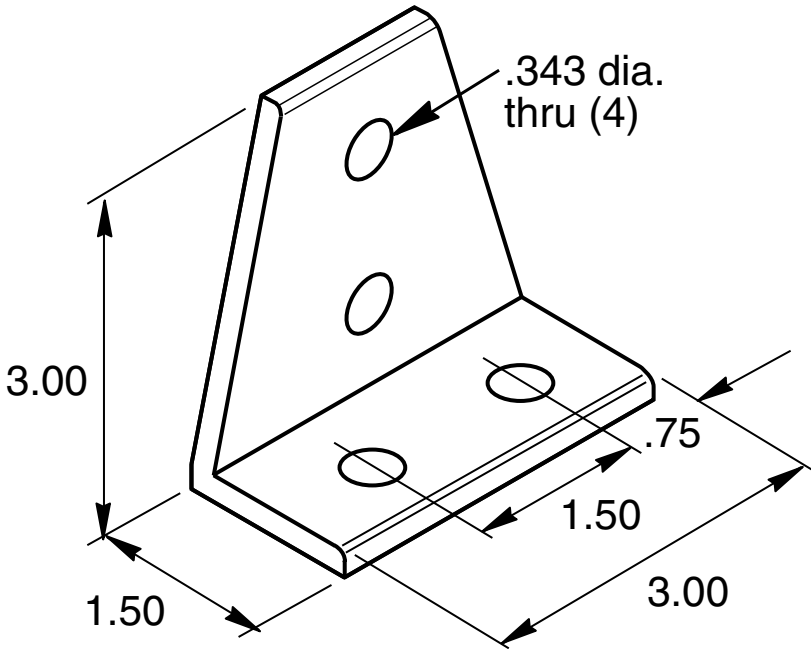


Material - Aluminum
Finish - Clear Anodize

Clear Anodized
Flat Black Powder Coat

EB-30

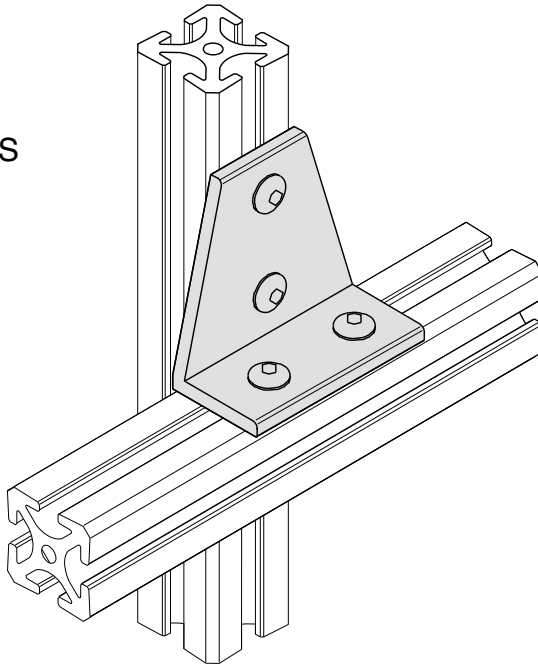
BLB-30



5/16" SLOTS

Recommended
Hardware

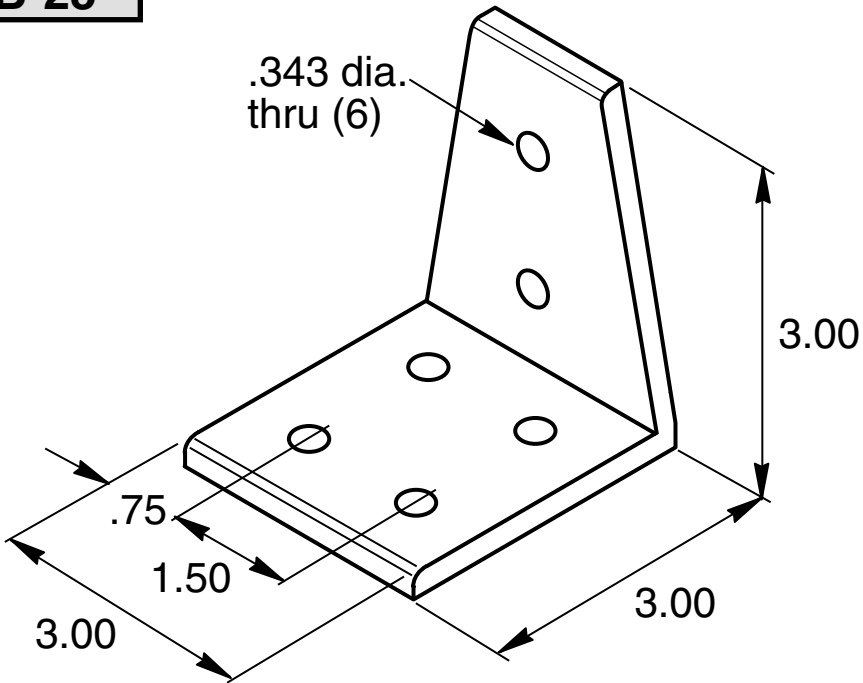
- (4) EF-12-.63 BHCS
- (4) EF-2 T-nut



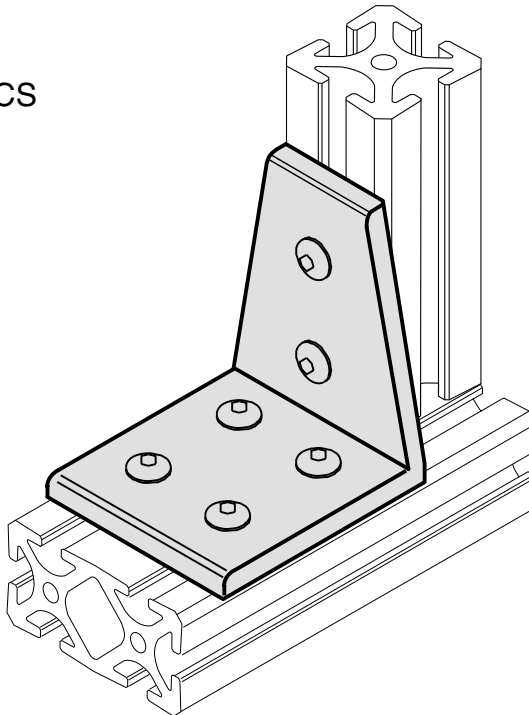
Material - Aluminum

EB-25

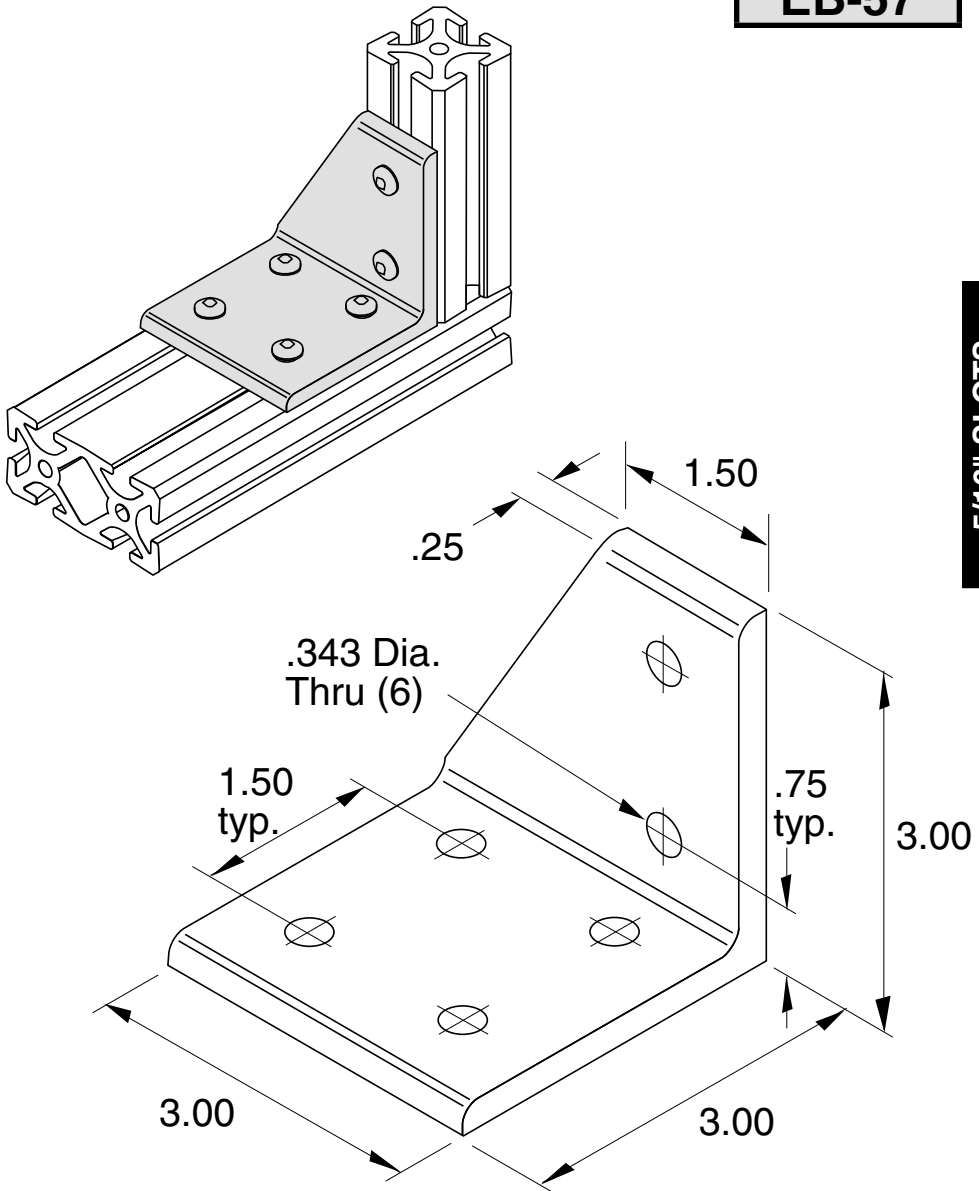
5/16" SLOTS



Recommended
Hardware
(6) EF-12-.63 BHCS
(6) EF-2 T-nut

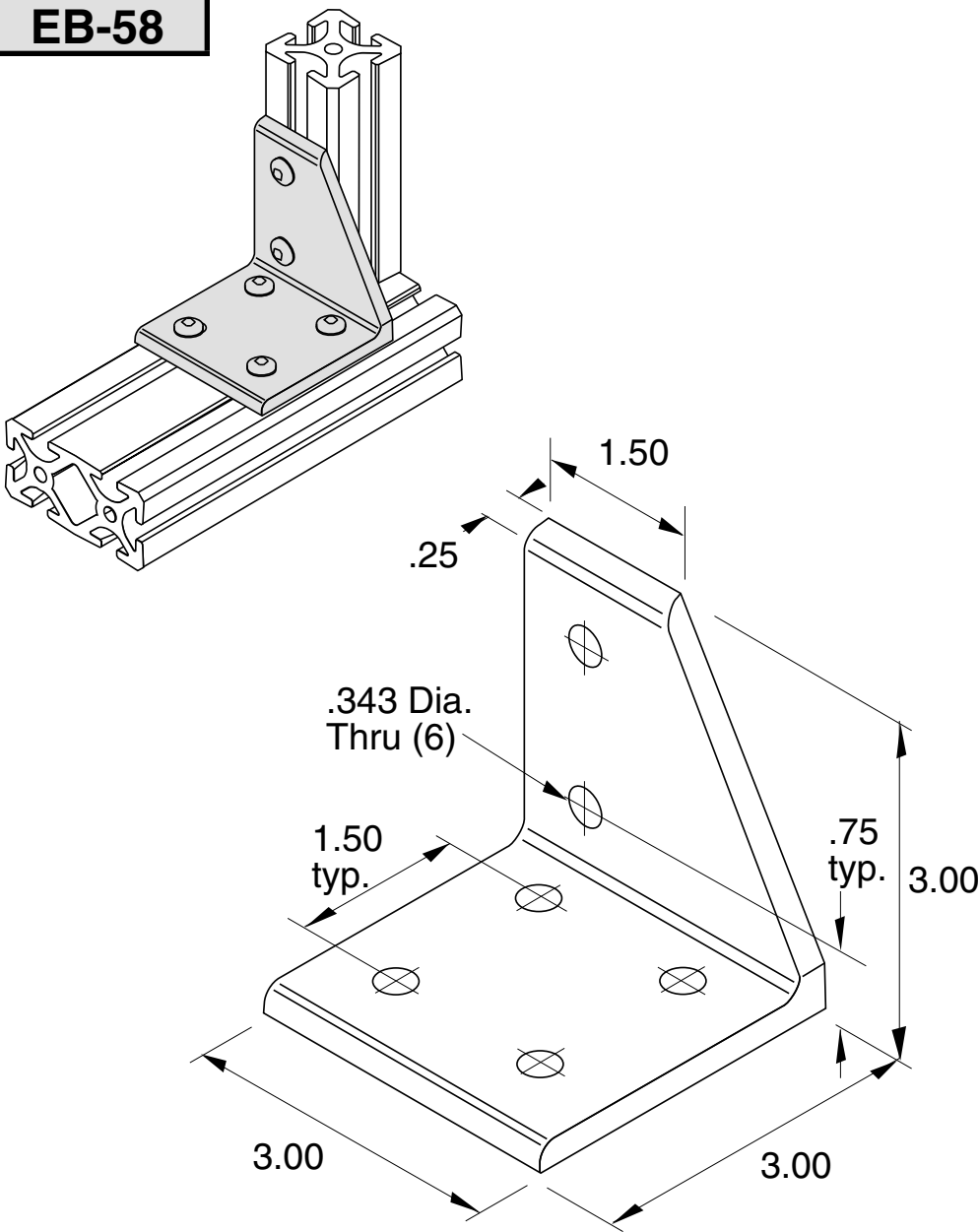


Material - Aluminum
Finish - Clear Anodize

**Recommended Hardware****(6) EF-12-.63 BHCS****(6) EF-2 T-nut****Material - Aluminum
Finish - Clear Anodize**

EB-58

5/16" SLOTS



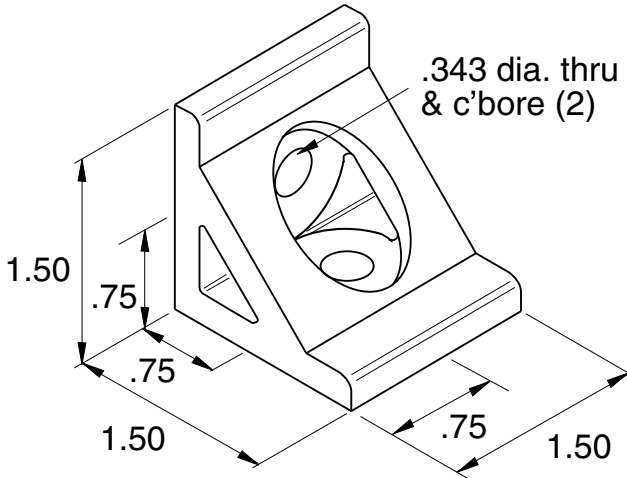
Recommended Hardware
(6) EF-12-.63 BHCS
(6) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

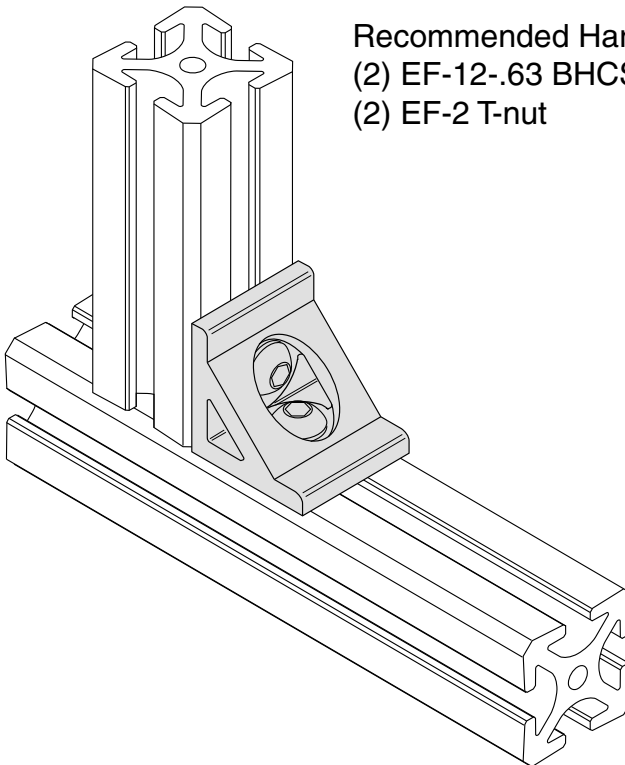
**Clear Anodized
Flat Black Powder Coat**

EB-111

BLB-111



5/16" SLOTS



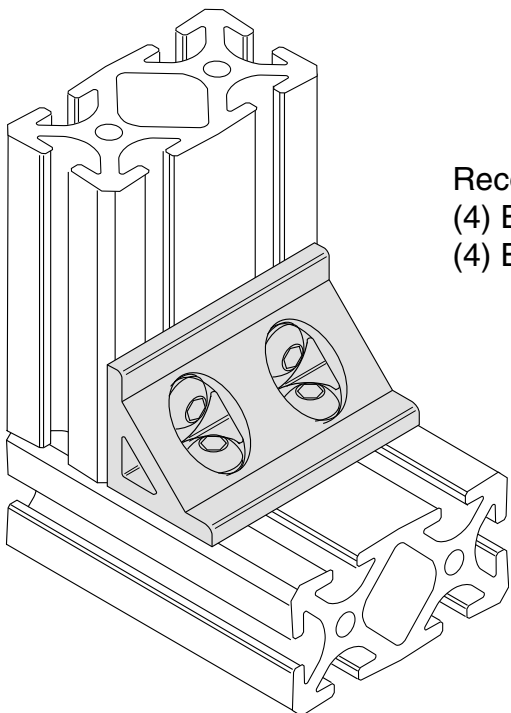
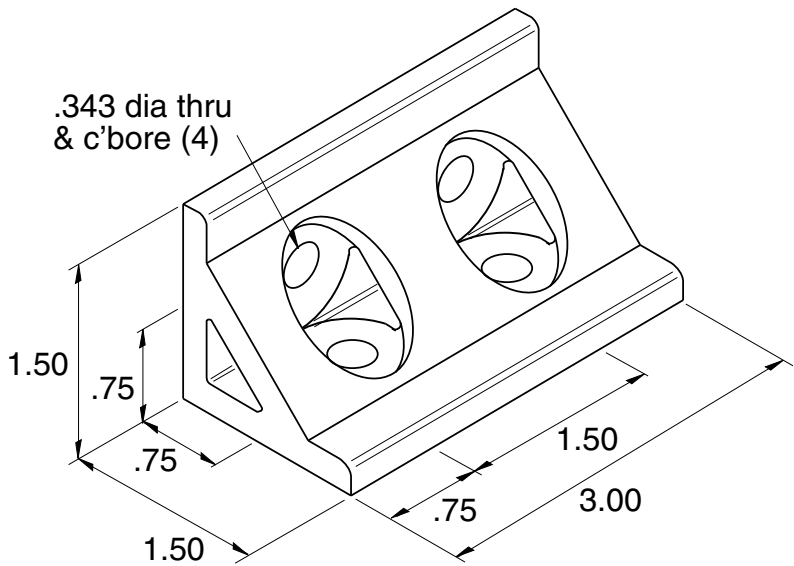
Recommended Hardware
(2) EF-12-.63 BHCS
(2) EF-2 T-nut

Material - Aluminum

EB-112
BLB-112

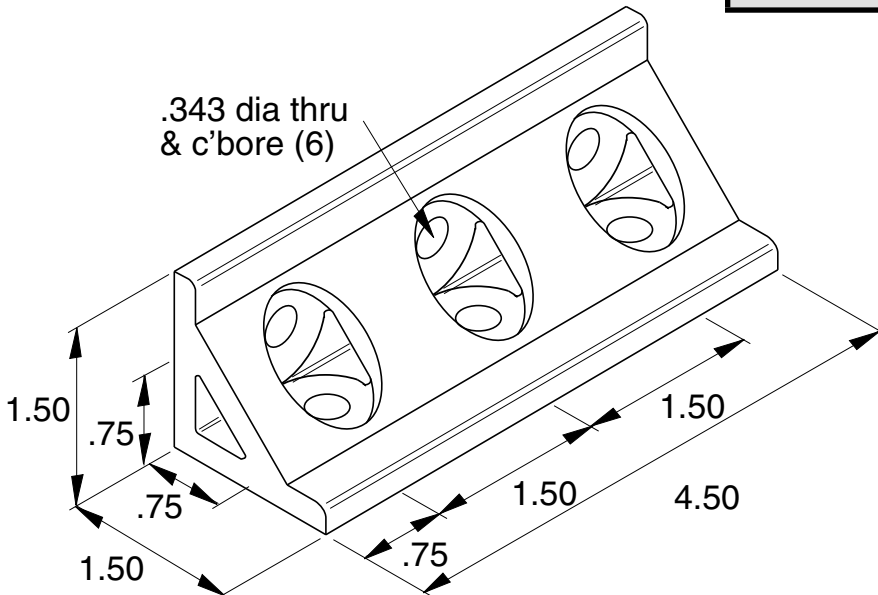
Clear Anodized
Flat Black Powder Coat

5/16" SLOTS

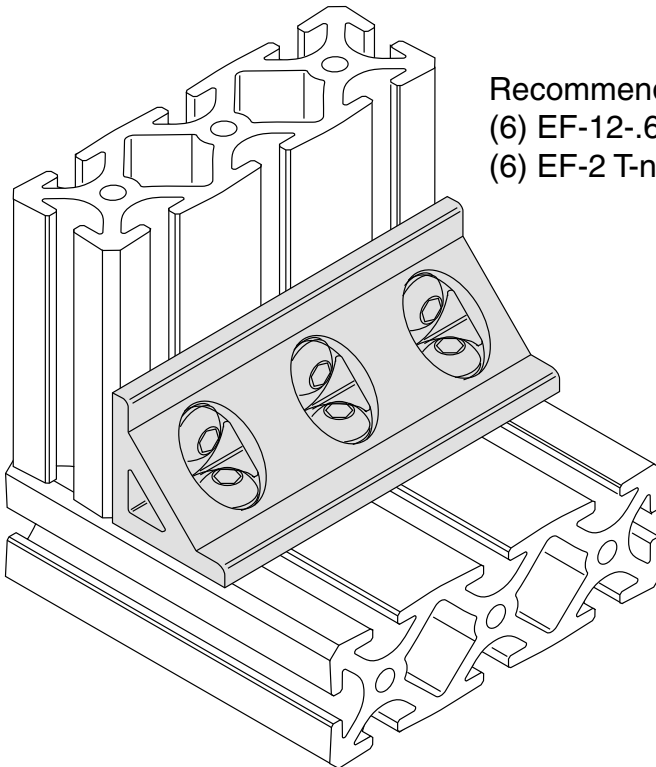


Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Aluminum



5/16" SLOTS

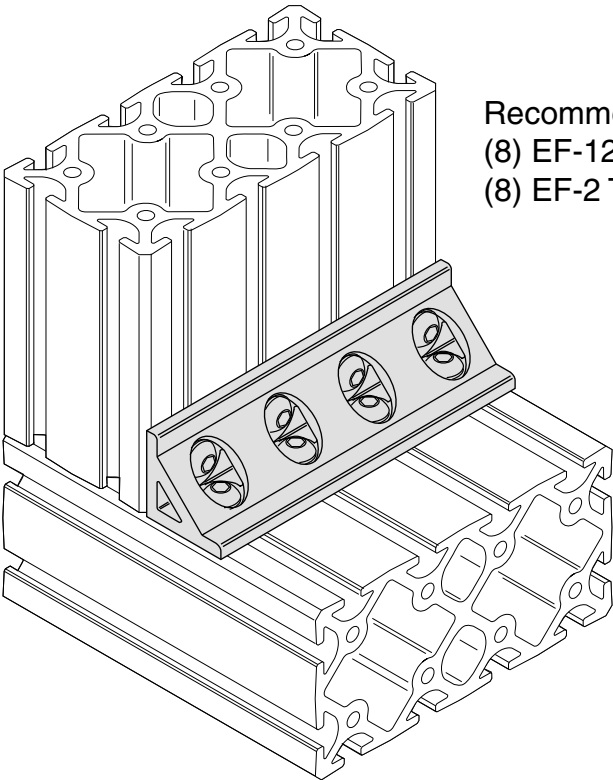
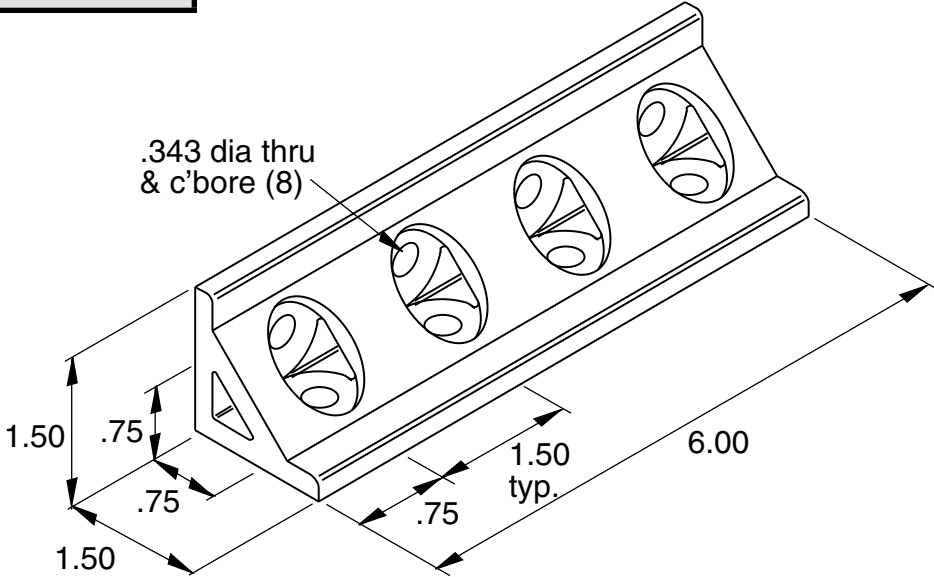


Recommended Hardware
 (6) EF-12-.63 BHCS
 (6) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

EB-114

5/16" SLOTS



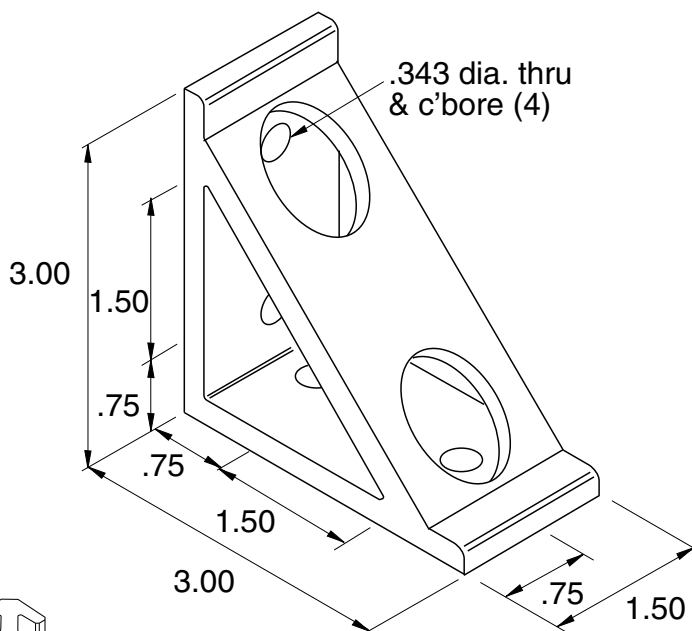
Recommended Hardware
(8) EF-12-.63 BHCS
(8) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

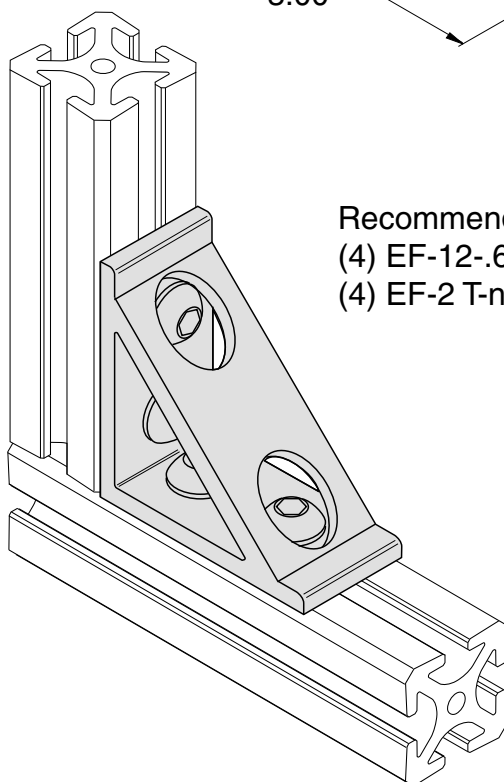
Clear Anodized
Flat Black Powder Coat

EB-121

BLB-121



5/16" SLOTS



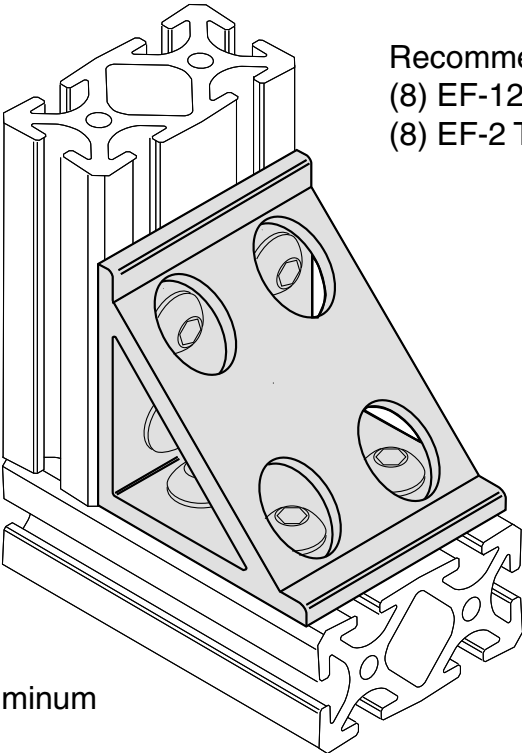
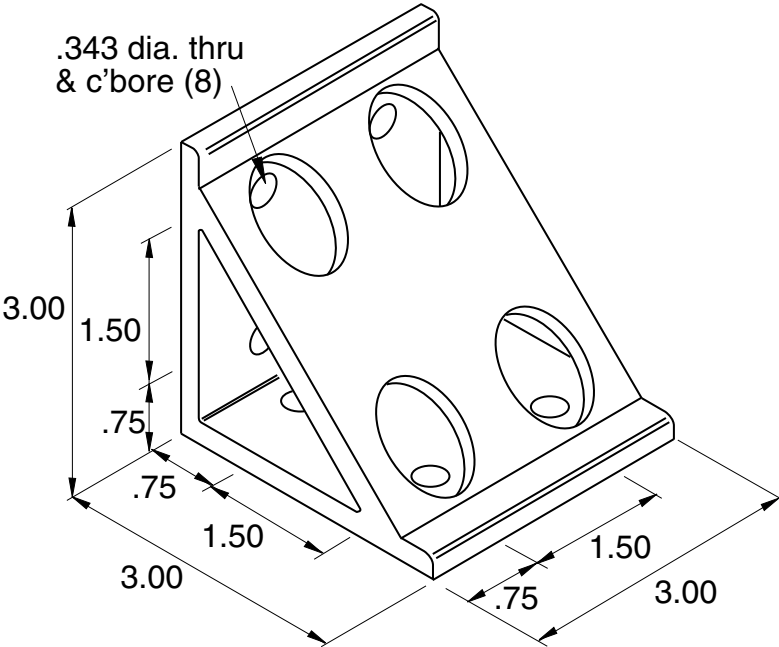
Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Aluminum

EB-122
BLB-122

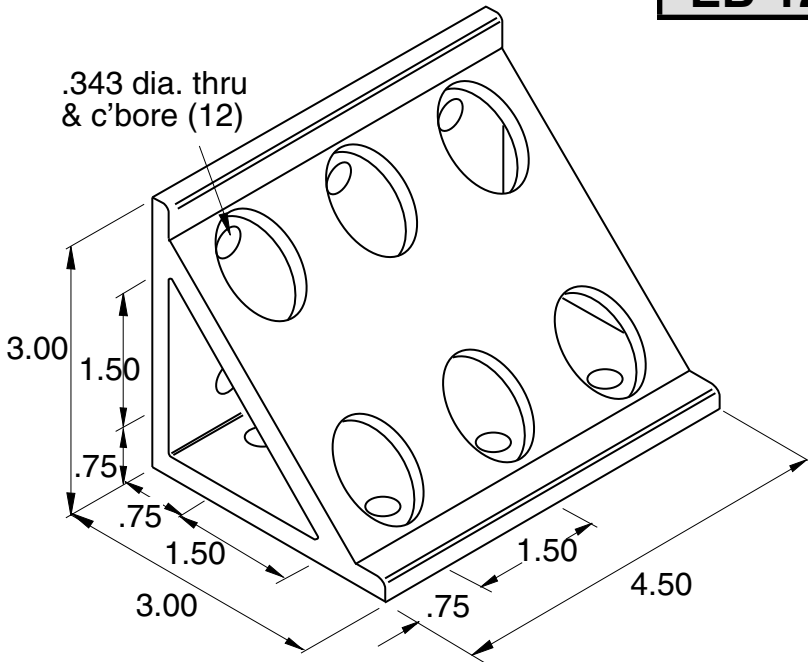
Clear Anodized
Flat Black Powder Coat

5/16" SLOTS

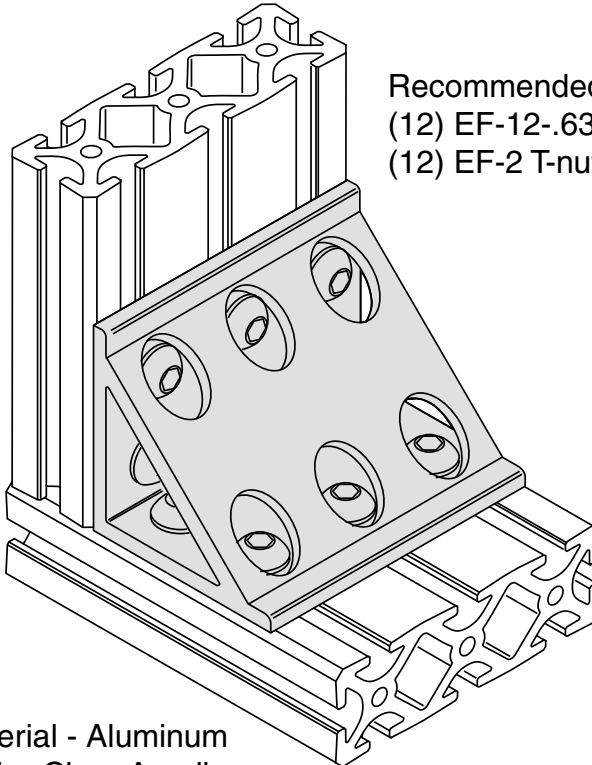


Recommended Hardware
(8) EF-12-.63 BHCS
(8) EF-2 T-nut

Material - Aluminum



5/16" SLOTS

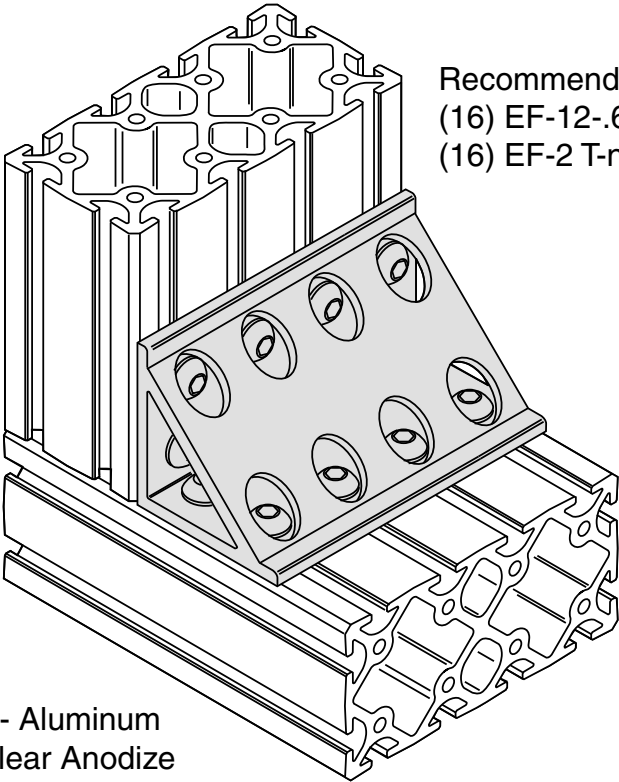
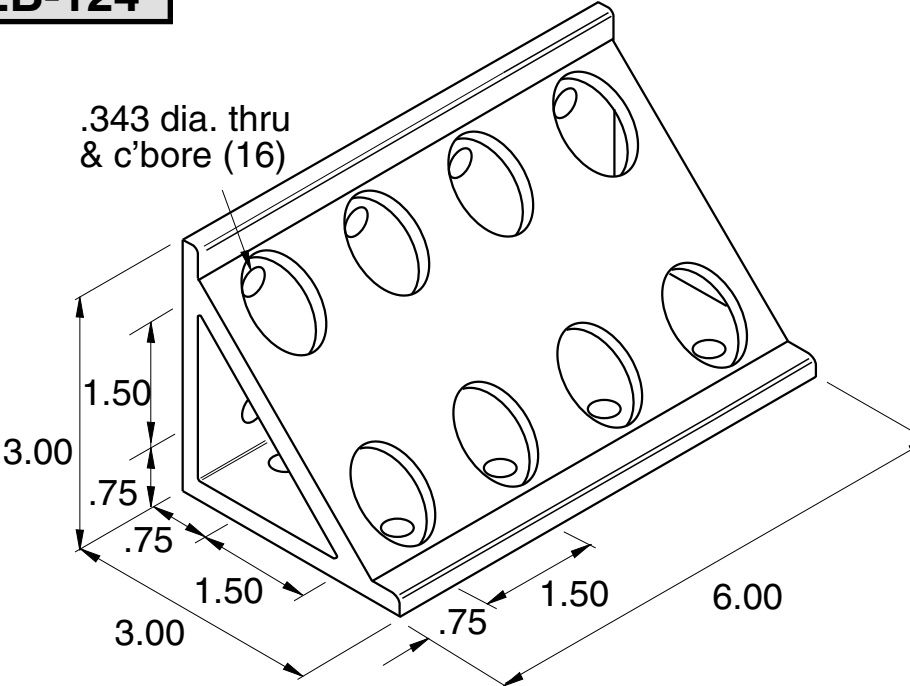


Recommended Hardware
(12) EF-12-.63 BHCS
(12) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

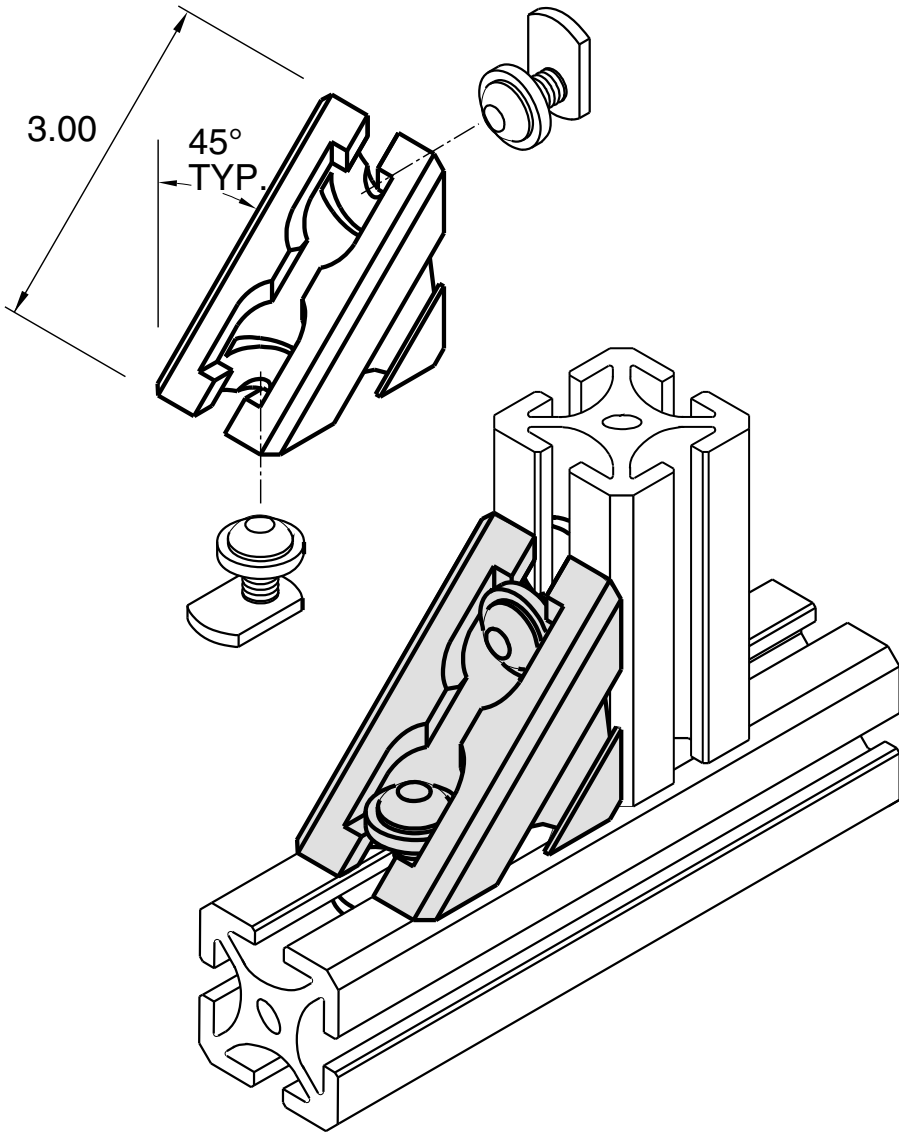
EB-124

5/16" SLOTS



Recommended Hardware
(16) EF-12-.63 BHCS
(16) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



Hardware included

Material - Aluminum (EX-1)
Finish - Clear Anodize

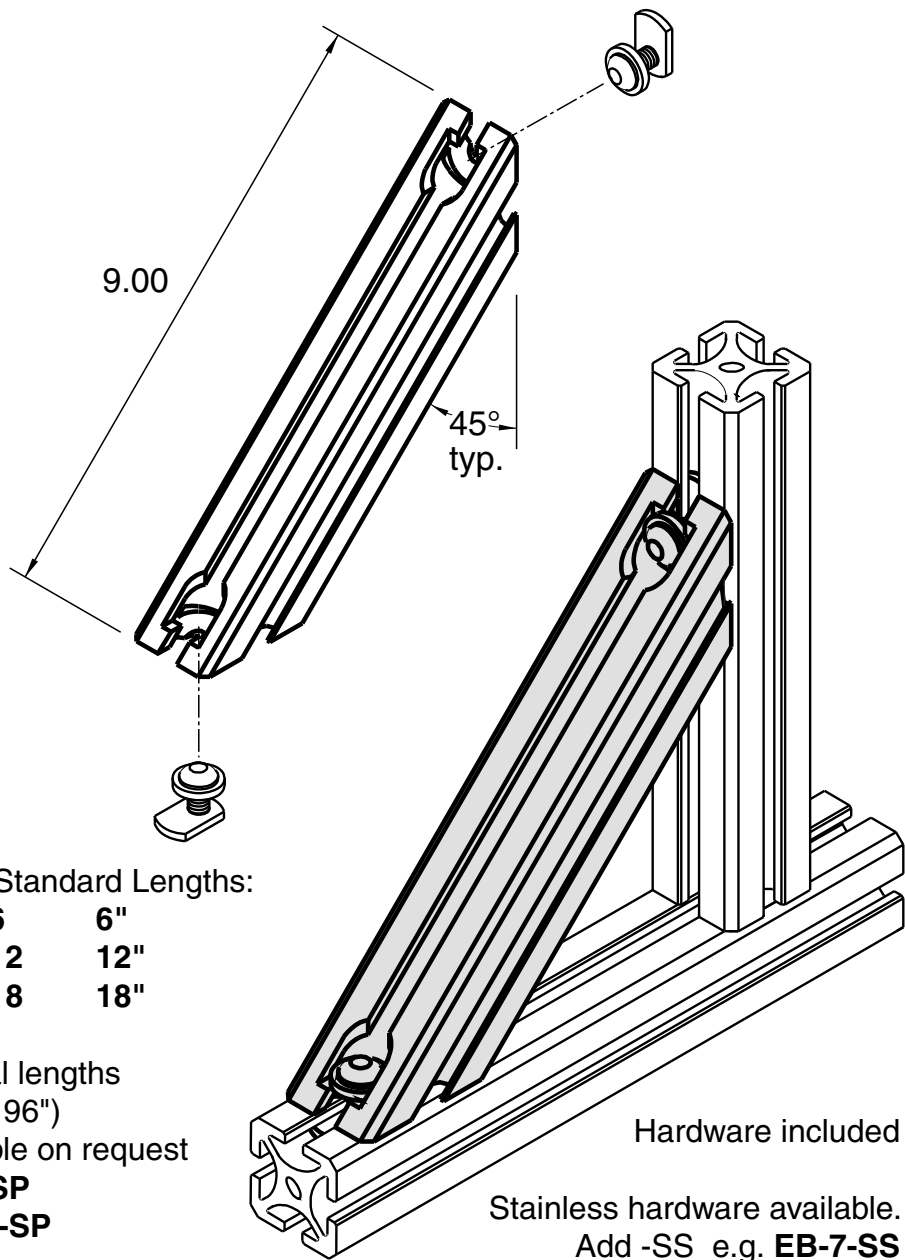
1.5 x 1.5 Extrusion
Corner Gusset



EB-7
BLB-7

Clear Anodized
Black Anodized

5/16" SLOTS



Other Standard Lengths:

EB-7-6	6"
EB-7-12	12"
EB-7-18	18"

Special lengths
(up to 96")
available on request

EB-7-SP
BLB-7-SP

Hardware included

Stainless hardware available.
Add -SS e.g. **EB-7-SS**
Metric hardware available (m8).
Add -M e.g. **EB-7-M**

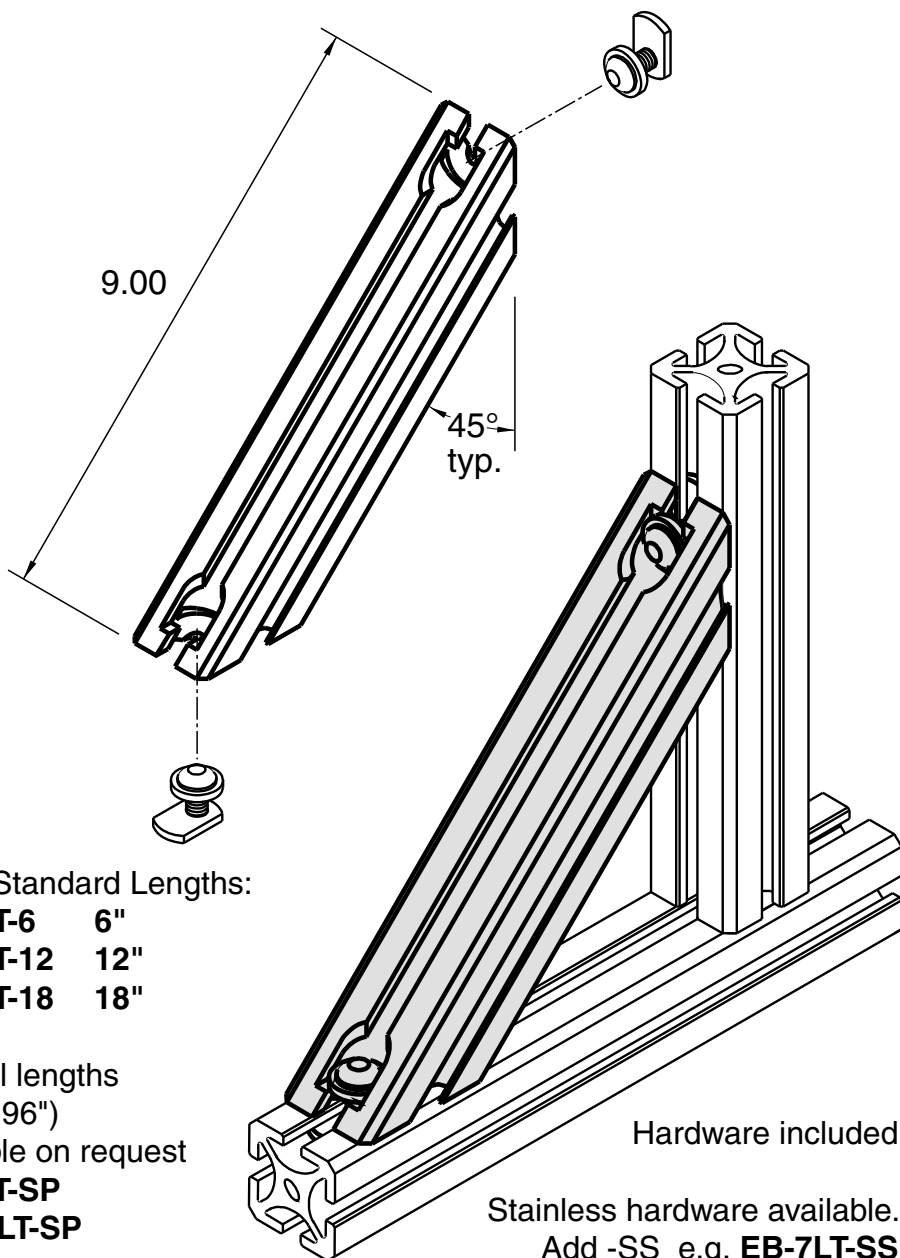
Material - Aluminum (EX-1, BLX-1)

Clear Anodized

EB-7LT

Black Anodized

BLB-7LT



Other Standard Lengths:

EB-7LT-6 6"

EB-7LT-12 12"

EB-7LT-18 18"

Special lengths
(up to 96")
available on request

EB-7LT-SP

BLB-7LT-SP

Hardware included

Stainless hardware available.

Add -SS e.g. **EB-7LT-SS**

Metric hardware available (m8).

Add -M e.g. **EB-7LT-M**

Material - Aluminum (EX-6, BLX-6)

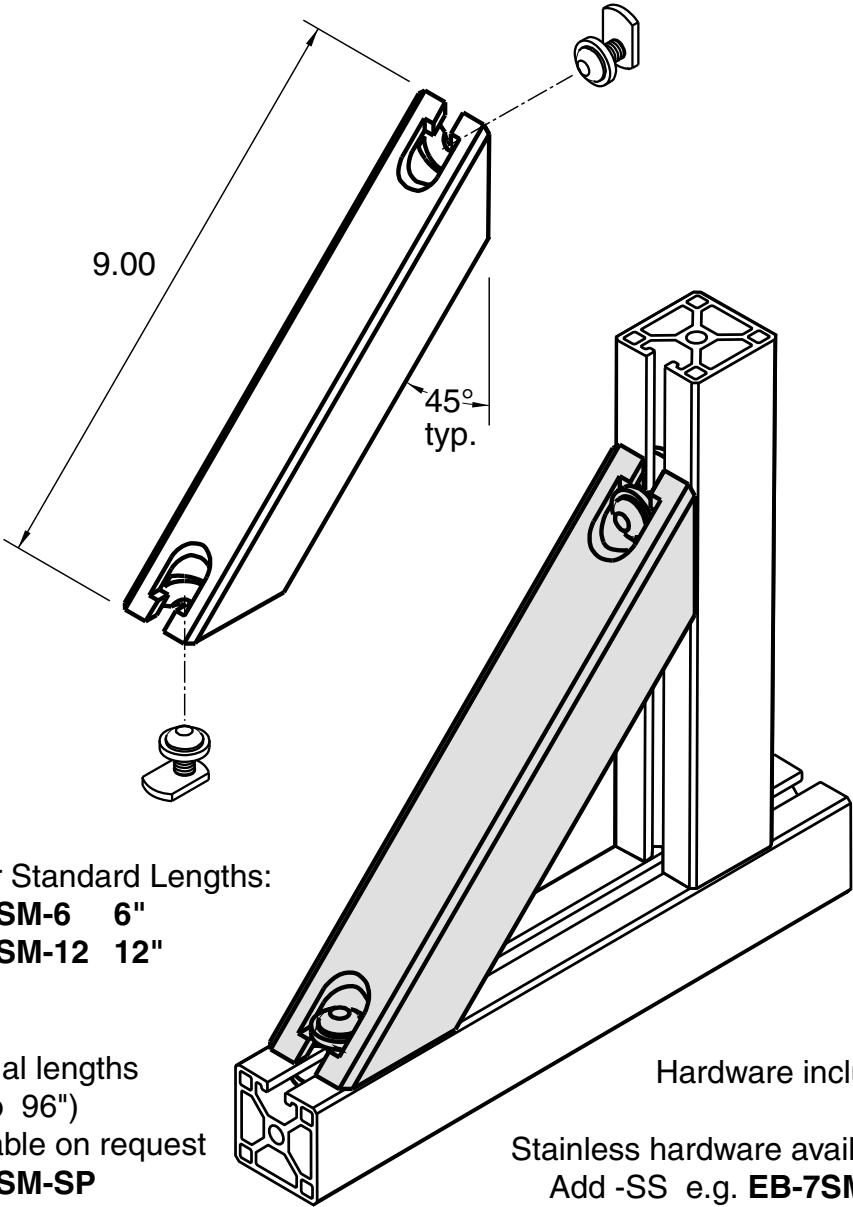
Smooth 1.5 x 1.5 Extrusion
Corner Gusset



EB-7SM
BLB-7SM

Clear Anodized
Flat Black Powder Coat

5/16" SLOTS



Other Standard Lengths:
EB-7SM-6 6"
EB-7SM-12 12"

Special lengths
(up to 96")
available on request
EB-7SM-SP

Hardware included

Stainless hardware available.
Add -SS e.g. **EB-7SM-SS**
Metric hardware available (m8).
Add -M e.g. **EB-7SM-M**

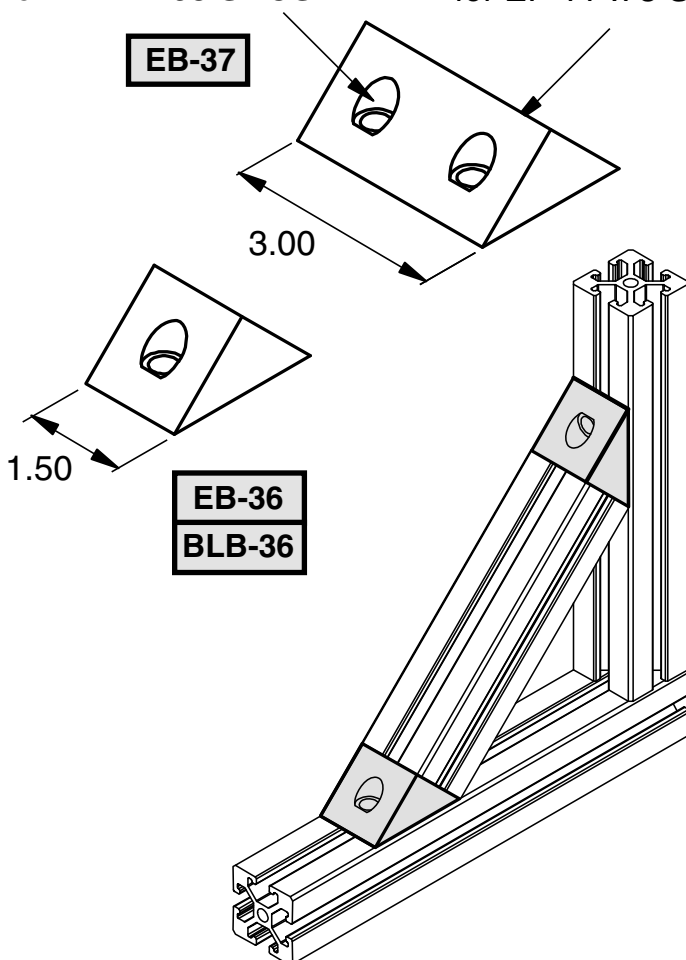
Material - Aluminum (EX-61)

Clear Anodized
Flat Black Powder Coat
Clear Anodized

EB-36
BLB-36
EB-37

drilled and c'bored
for EF-11-.63 SHCS

drilled and c'bored
for EF-11-.75 SHCS



5/16" SLOTS

EB-36
Recommended Hardware

- (1) EF-11-.75 SHCS
- (1) EF-11-.63 SHCS
- (1) EF-2 T-nut

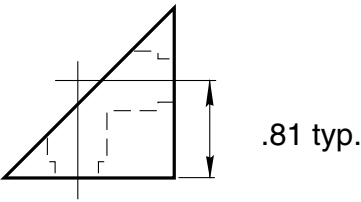
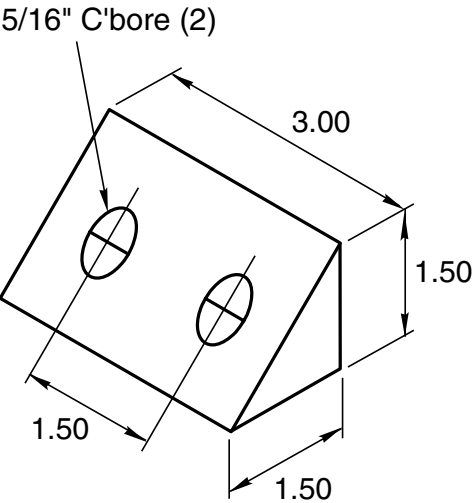
EB-37
Recommended Hardware

- (2) EF-11-.75 SHCS
- (2) EF-11-.63 SHCS
- (2) EF-2 T-nut

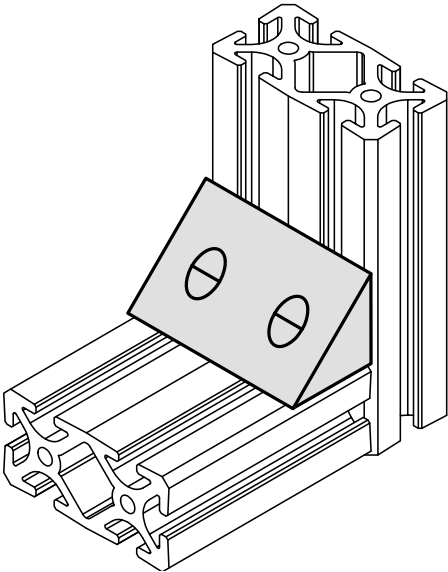
Material - Aluminum

EB-44

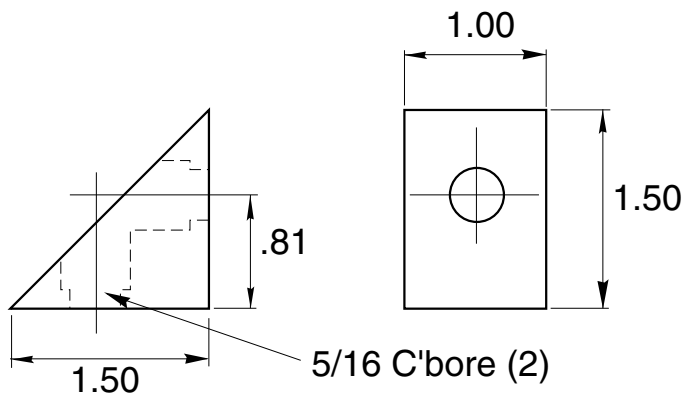
5/16" SLOTS



Recommended Hardware
(4) EF-11-.63 SHCS
(4) EF-2 T-nut

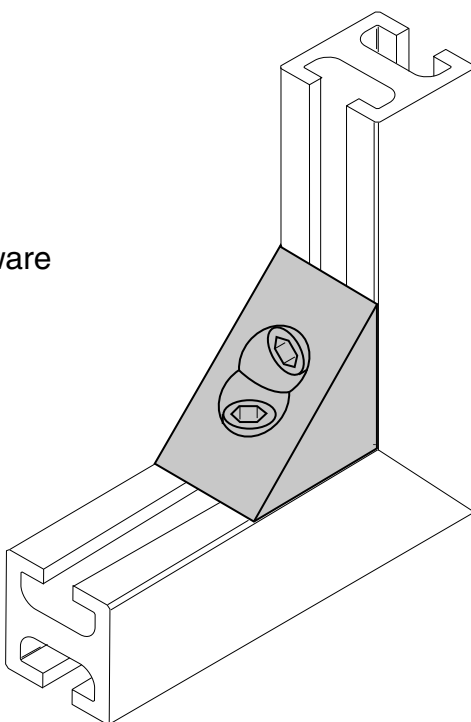


Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS

Recommended Hardware
(4) EF-11-.63 SHCS
(4) EF-2 T-nut



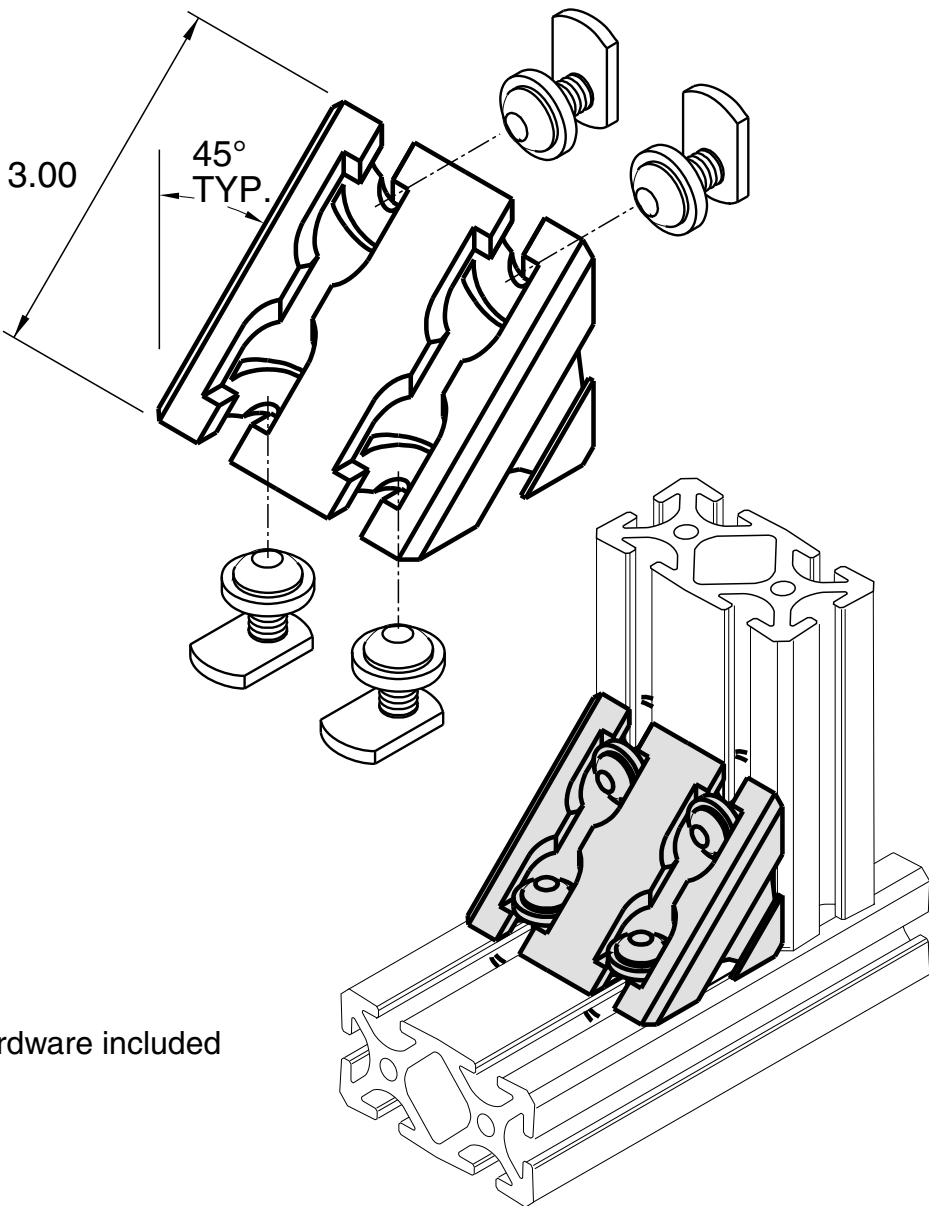
Material - Aluminum
Finish - Clear Anodize

1.5 x 3.0 Extrusion
Corner Gusset



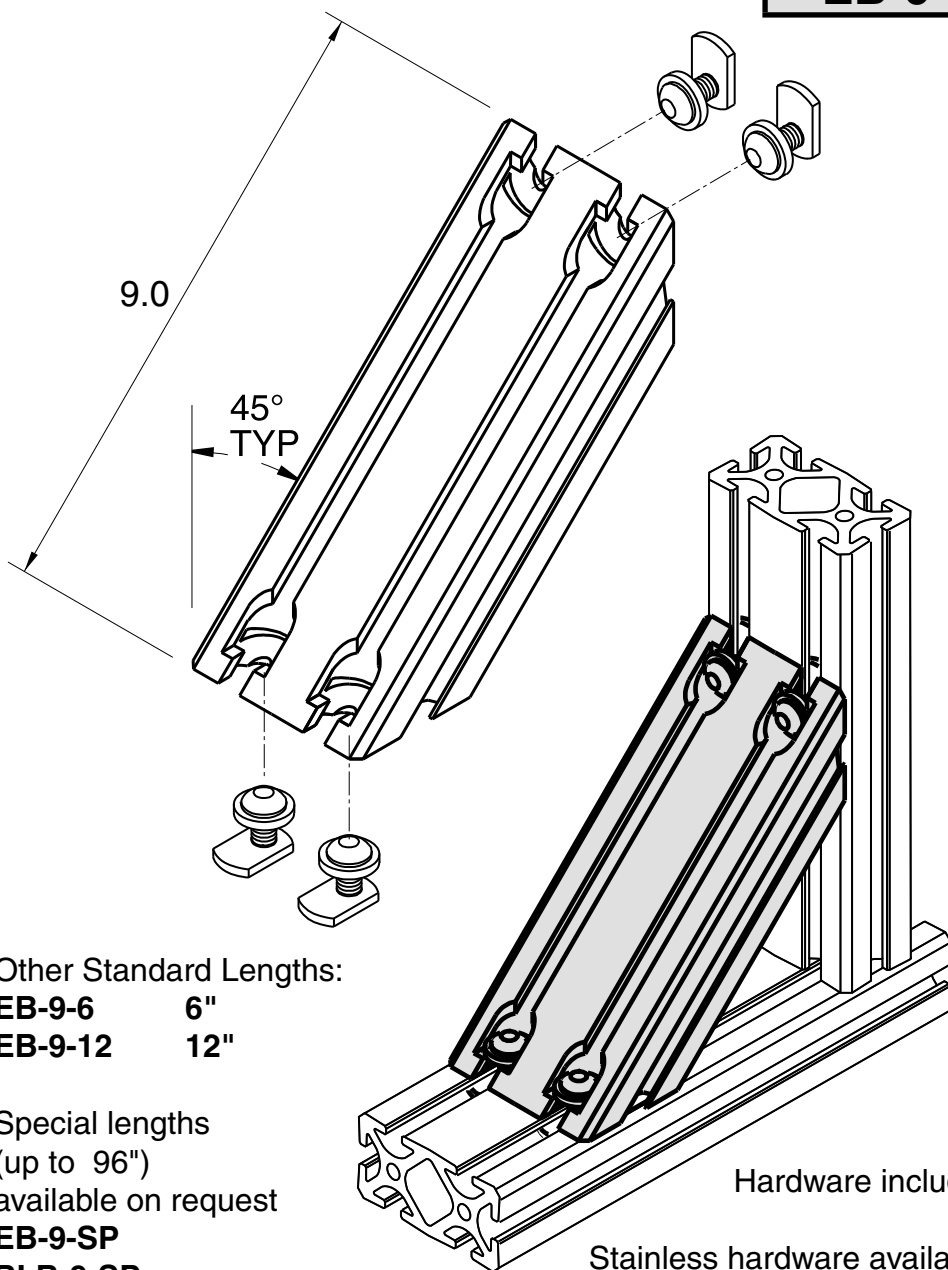
EB-8

5/16" SLOTS



Hardware included

Material - Aluminum (EX-2)
Finish - Clear Anodize



Other Standard Lengths:

EB-9-6 6"

EB-9-12 12"

Special lengths
(up to 96")
available on request

EB-9-SP

BLB-9-SP

Black anodized gusset
available upon request

Hardware included

Stainless hardware available.

Add -SS e.g. **EB-9-SS**

Metric hardware available (m8).

Add -M e.g. **EB-9-M**

Material - Aluminum (EX-2)

Finish - Clear Anodize

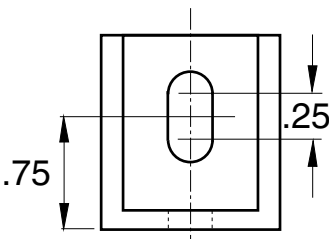
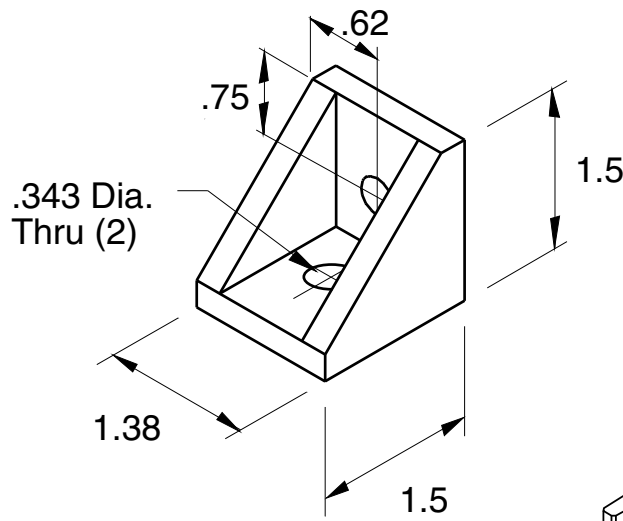
Cast Corner Gusset



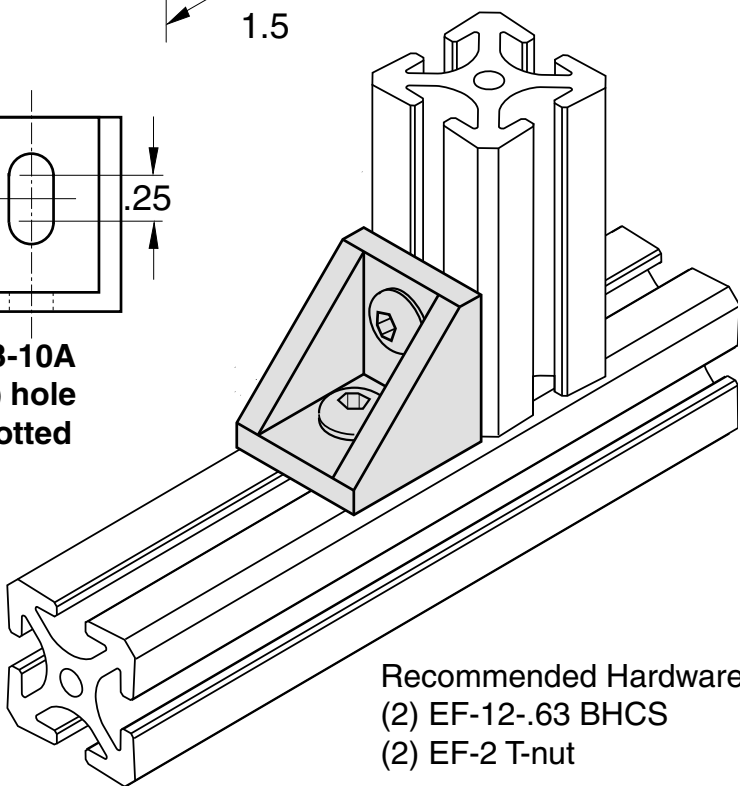
EB-10
EB-10A

Slotted

5/16" SLOTS

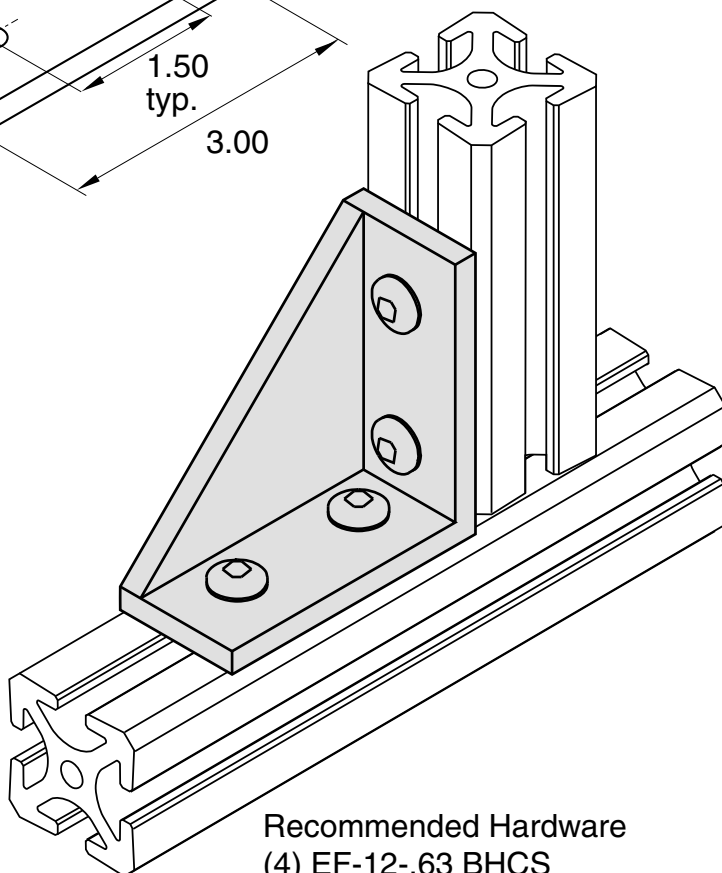
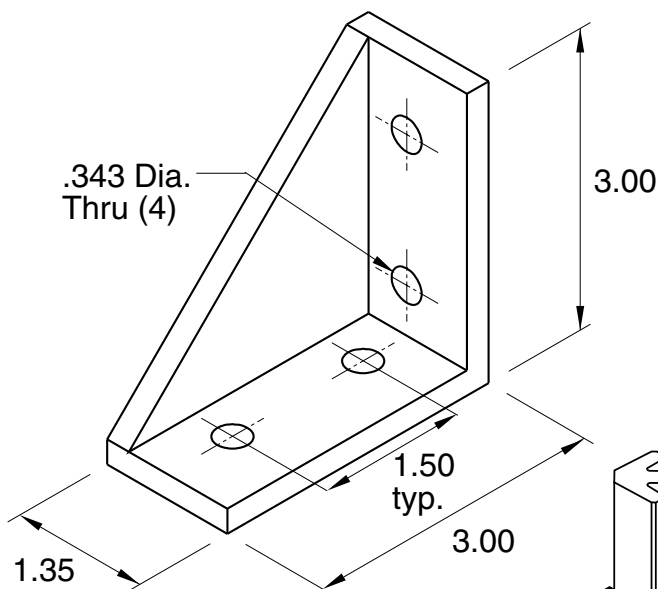


**EB-10A
(1) hole
slotted**



Recommended Hardware
(2) EF-12-.63 BHCS
(2) EF-2 T-nut

Material - Aluminum
Finish - Grey Powder Coat



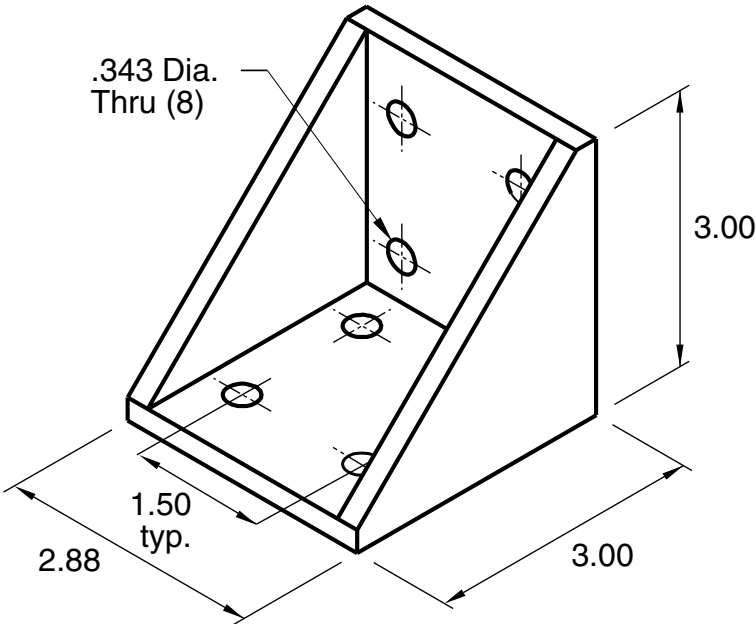
Recommended Hardware
 (4) EF-12-.63 BHCS
 (4) EF-2 T-nut

Material - Aluminum
Finish - Grey Powder Coat

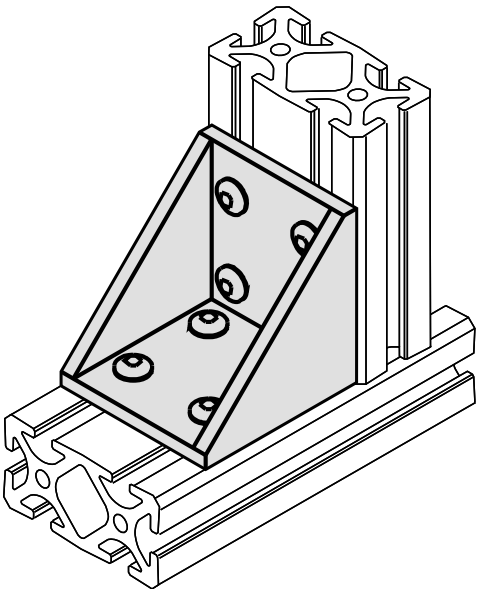
5/16" SLOTS

EB-12

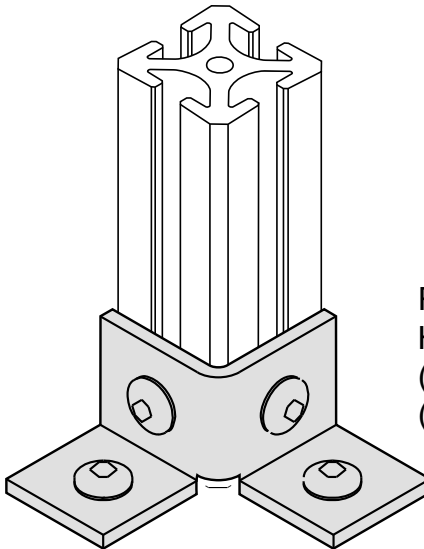
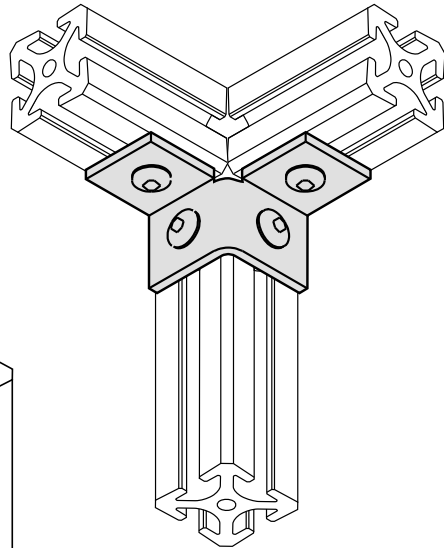
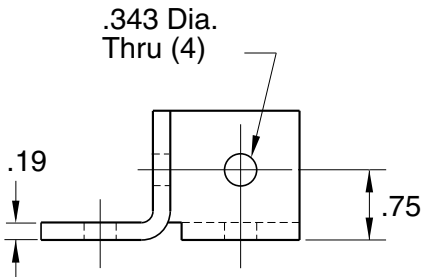
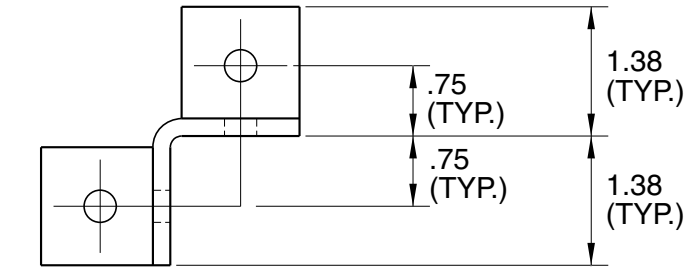
5/16" SLOTS



Recommended Hardware
(8) EF-12-.63 BHCS
(8) EF-2 T-nut



Material - Aluminum
Finish - Grey Powder Coat



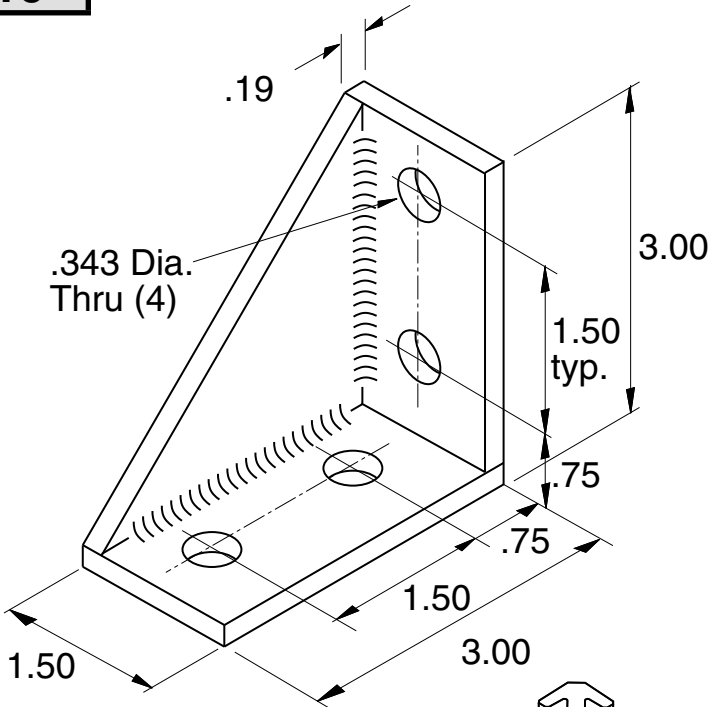
**Recommended
Hardware**
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Steel
Finish - Zinc Plated

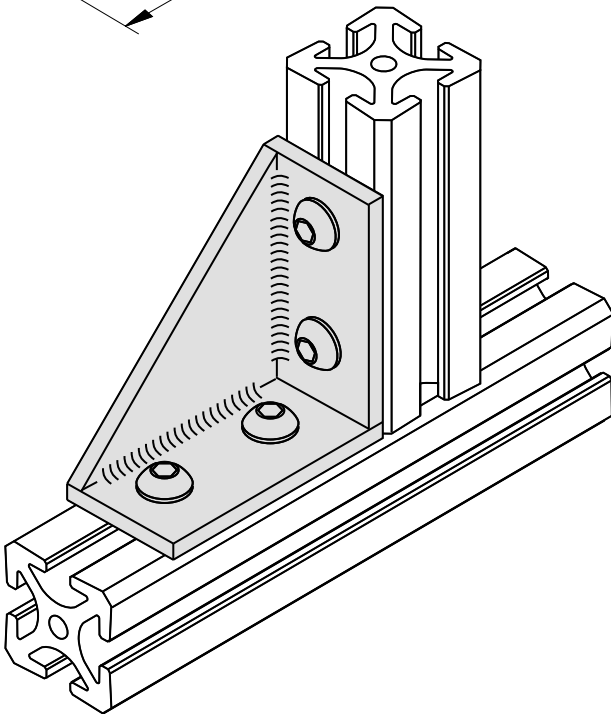
5/16" SLOTS

EB-16

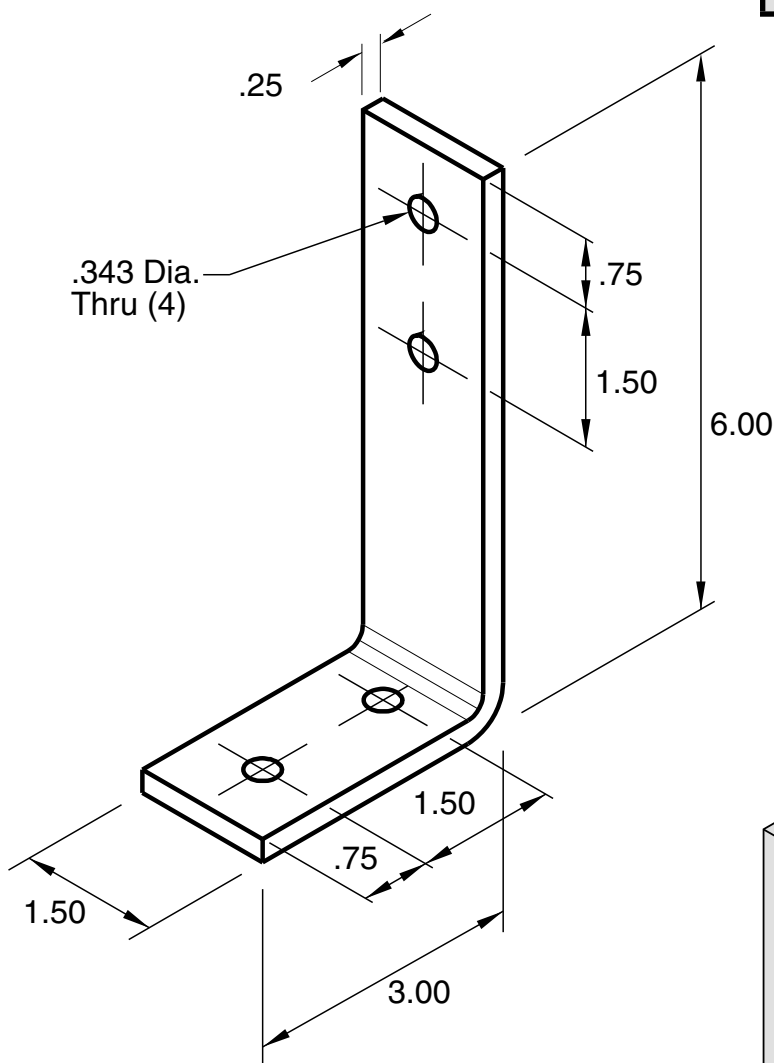
5/16" SLOTS



Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut



Material - Steel
Finish - Black Powder Coat



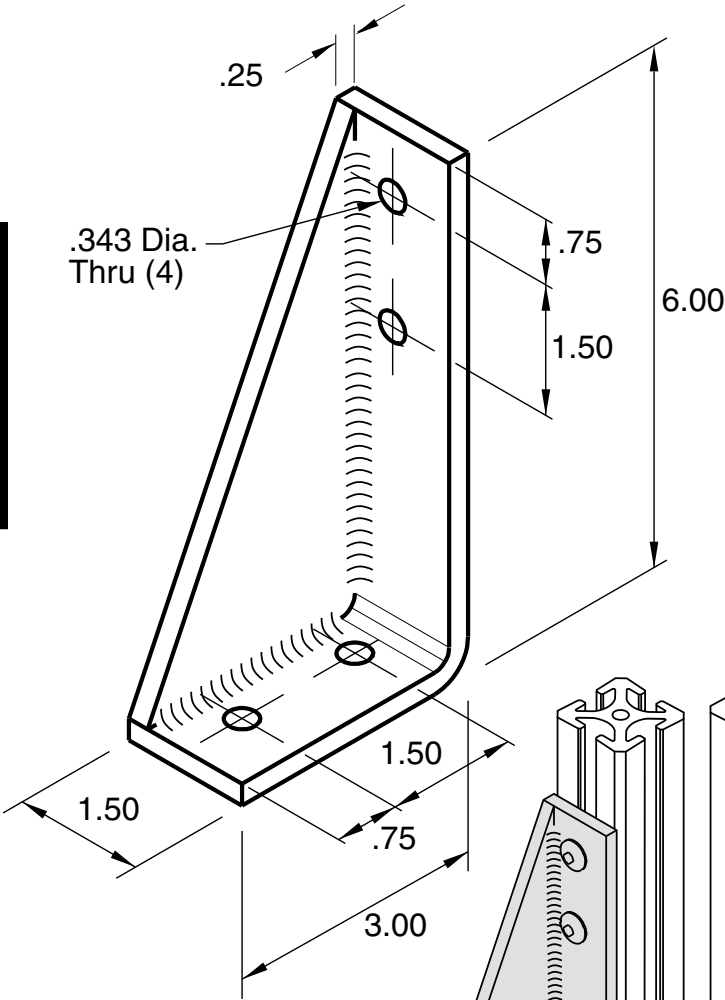
Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Steel
Finish - Black Powder Coat

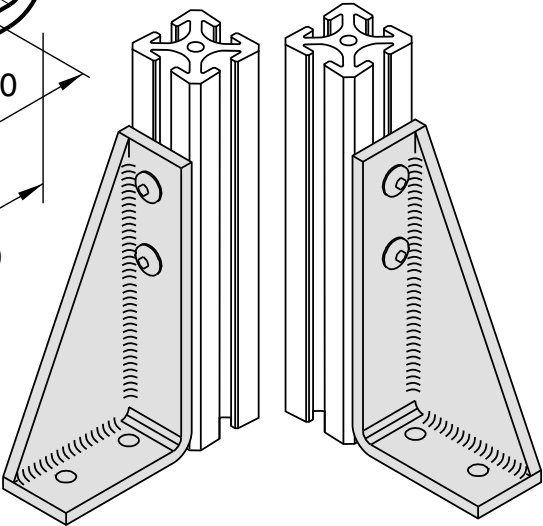
EB-15

EB-15LH (left hand)
EB-15RH (right hand)

5/16" SLOTS



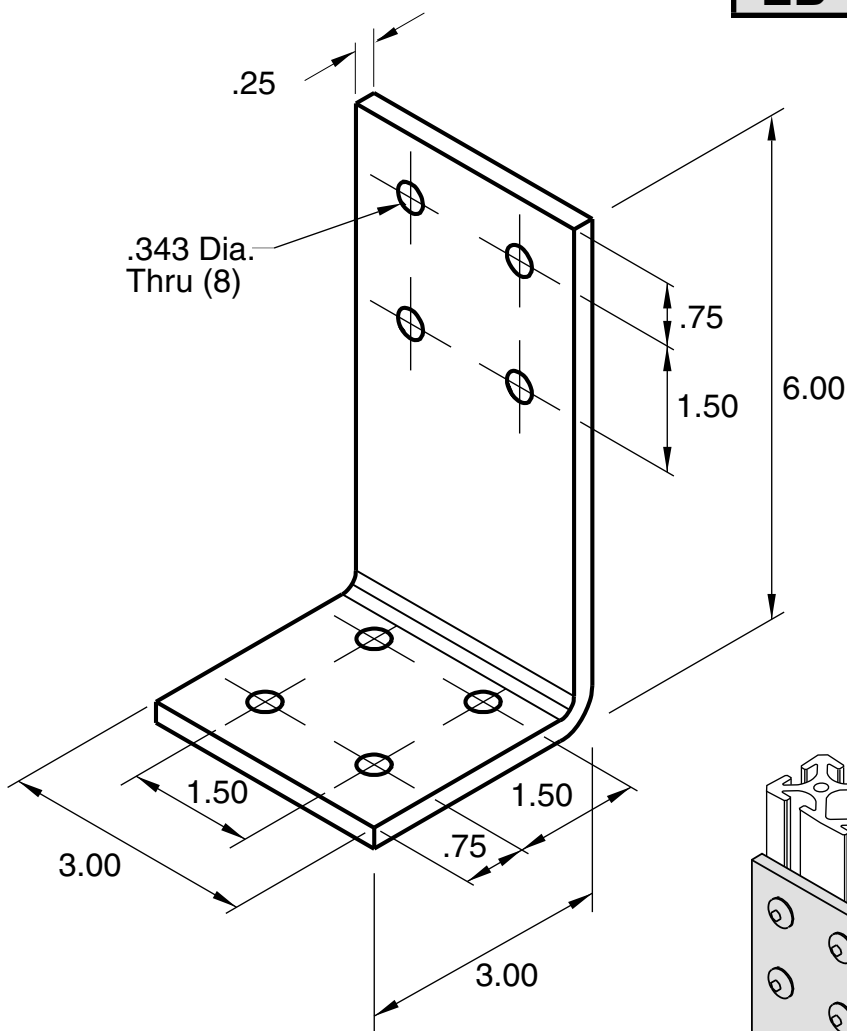
Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut



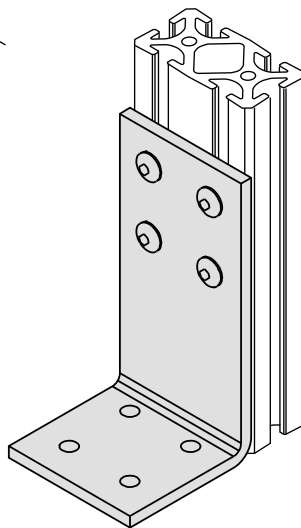
EB-15LH
(left hand)

EB-15RH
(right hand)

Material - Steel
Finish - Black Powder Coat



5/16" SLOTS

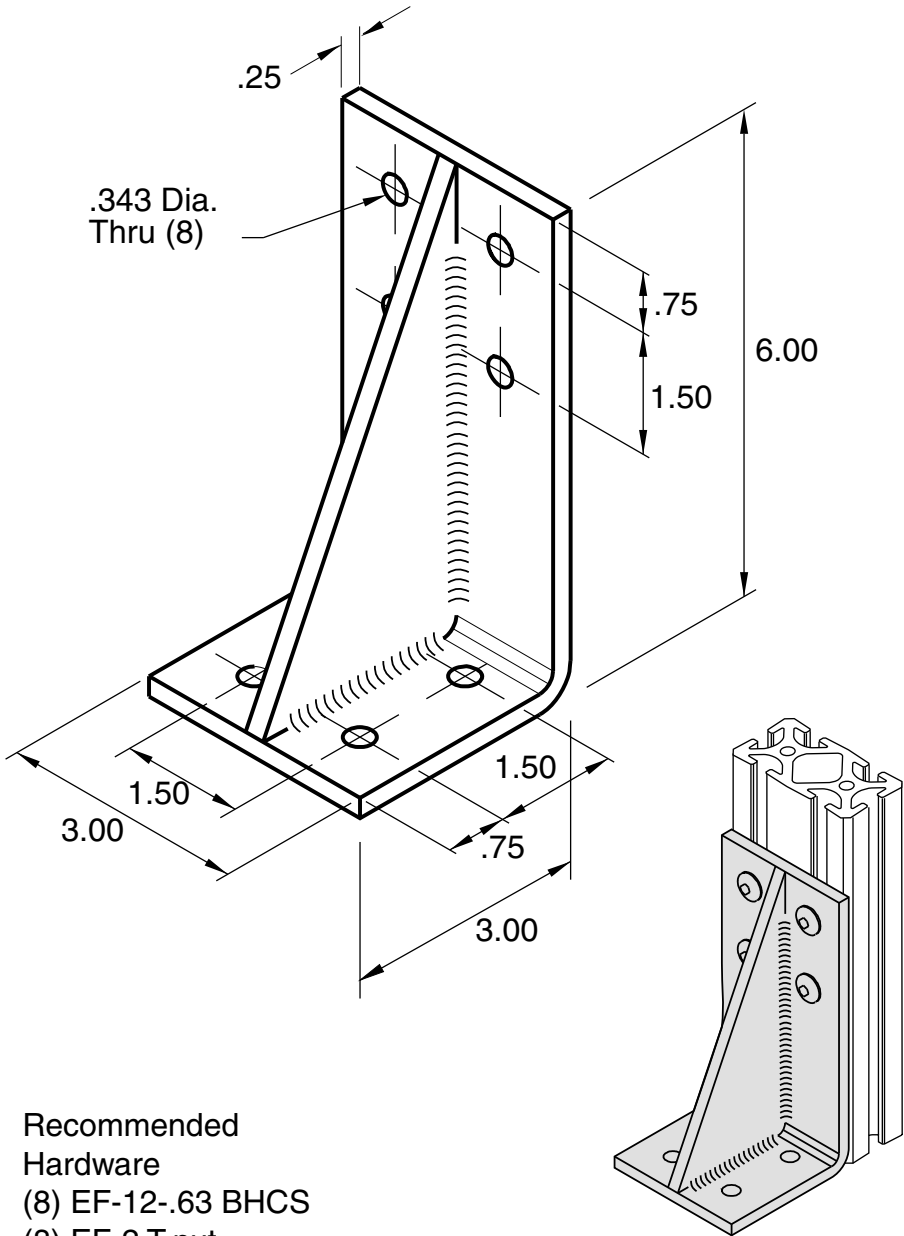


Recommended
Hardware
(8) EF-12-.63 BHCS
(8) EF-2 T-nut

Material - Steel
Finish - Black Powder Coat

EB-14G

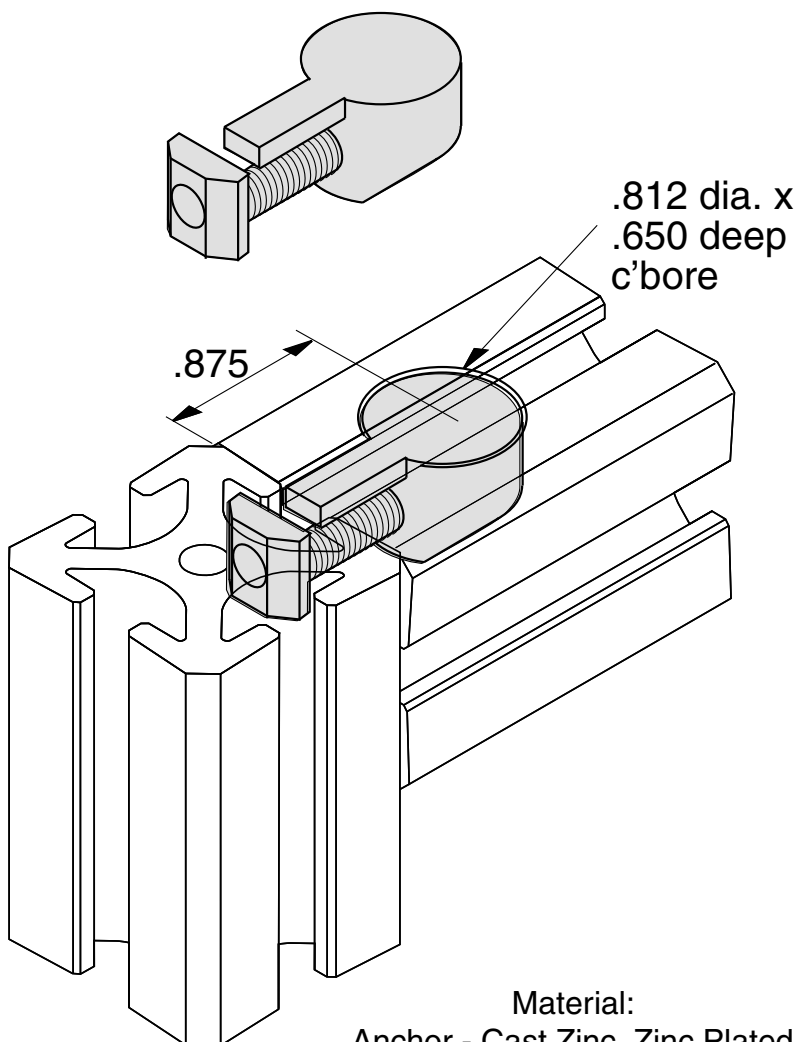
5/16" SLOTS



Recommended
Hardware
(8) EF-12-.63 BHCS
(8) EF-2 T-nut

Material - Steel
Finish - Black Powder Coat

with hardware	EF-62
without hardware	EF-62P
with metric hardware	EF-62M
with stainless steel bolt	EF-62SS
metric with stainless steel bolt	EF-62M-SS
black zinc	BLF-62



Material:
 Anchor - Cast Zinc, Zinc Plated
 Bolt - Steel, Black Oxide Coating
 T-nut - Steel Zinc Coated

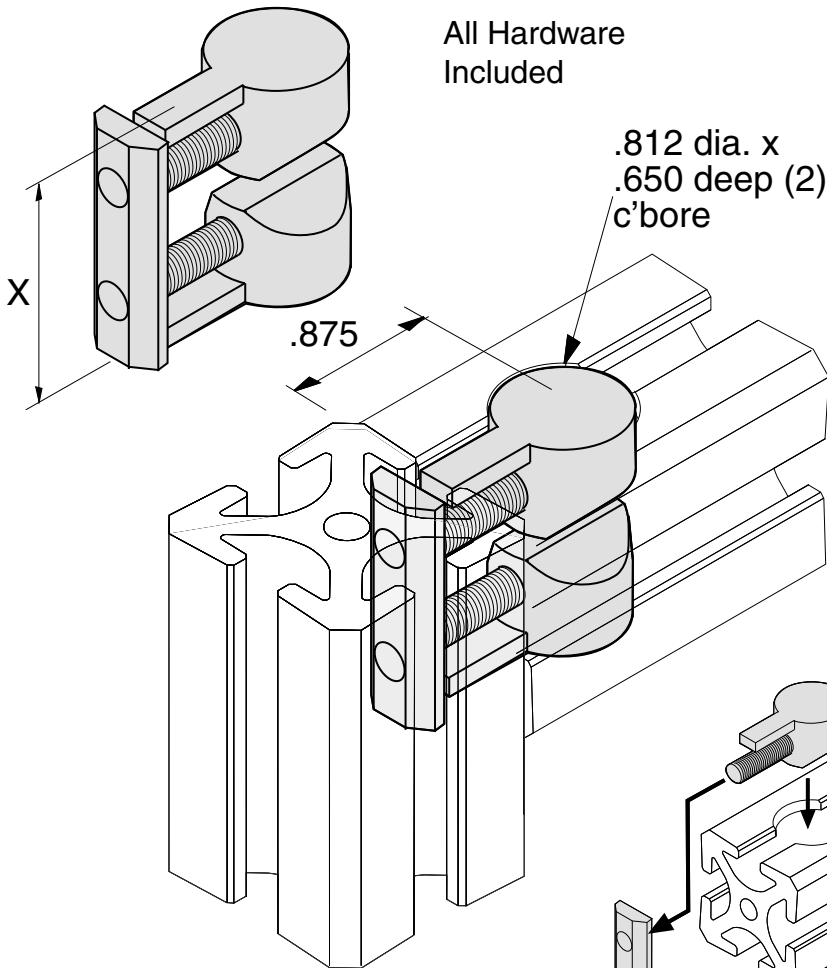
5/16" SLOTS

Double Anchor Fastener



EF-63	X = 1.5"
EF-63M	X = 1.5" with metric hardware
EF-63SS	X = 1.5" with stainless steel bolt
EF-64	X = 3.0"
EF-64M	X = 3.0" with metric hardware
EF-64SS	X = 3.0" with stainless steel bolt

5/16" SLOTS



All Hardware
Included

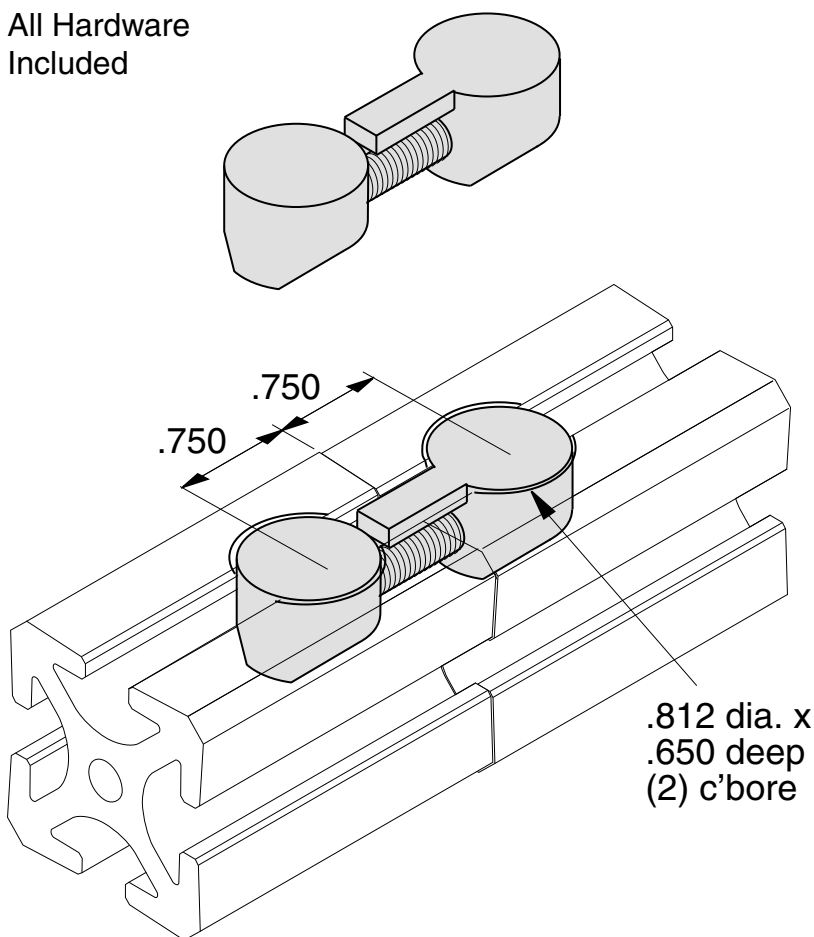
Material:

Anchor - Cast Zinc, Zinc Plated
Bolt - Steel, Black Oxide Coating
T-nut - Steel Zinc Coated

with metric hardware
with stainless steel bolt

EF-61**EF-61M****EF-61SS**

All Hardware
Included

**5/16" SLOTS**

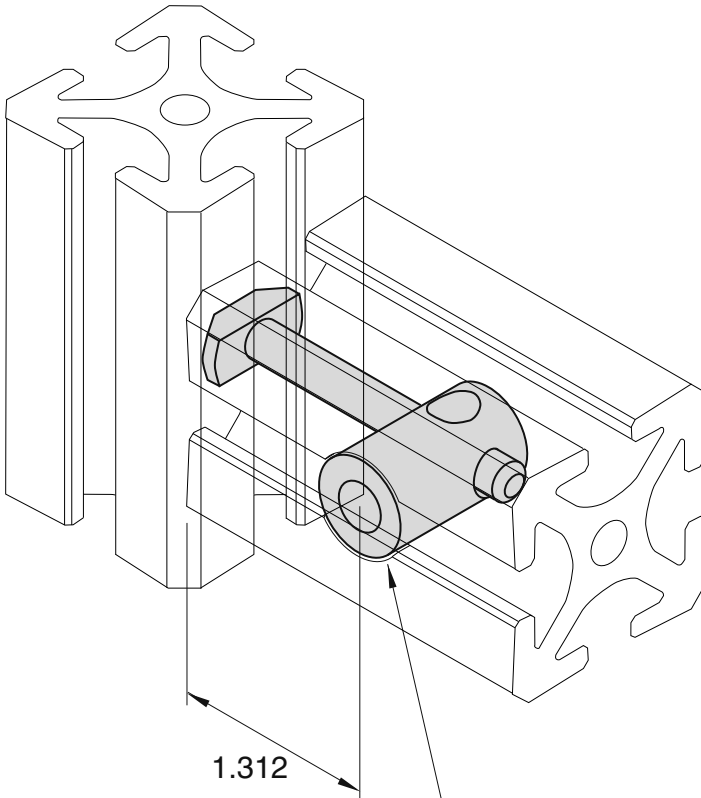
Material:

Anchor - Cast Zinc, Zinc Plated
Bolt - Steel, Black Oxide Coating
T-nut - Steel Zinc Coated

EF-49

with Hardware

5/16" SLOTS



DRILL $\varnothing$ 5/8" X 1.00 DEEP

Hardware Included

Use with 5/16" Slot Extrusions Only

Material

Anchor - Cold Rolled Steel

Bolt - Cold Rolled Steel

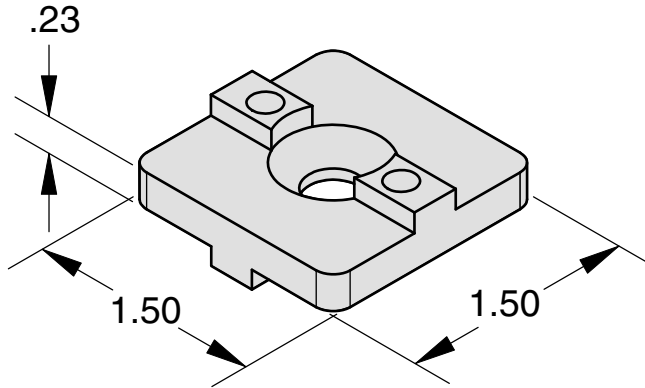
Set Screw - Steel, Black Oxide Coating

hardware included

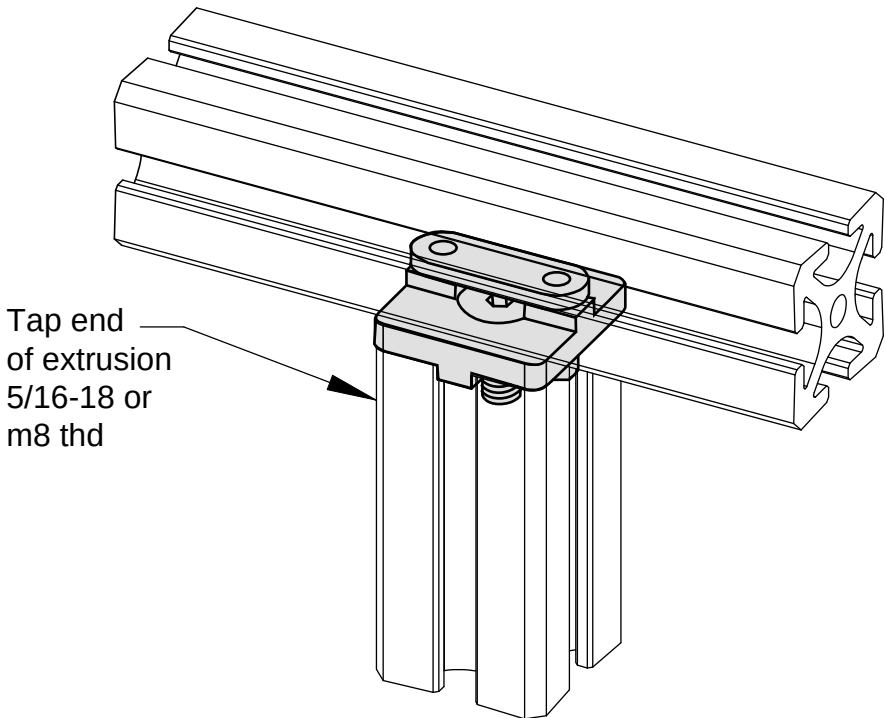
EF-100

metric hardware included

EF-100M



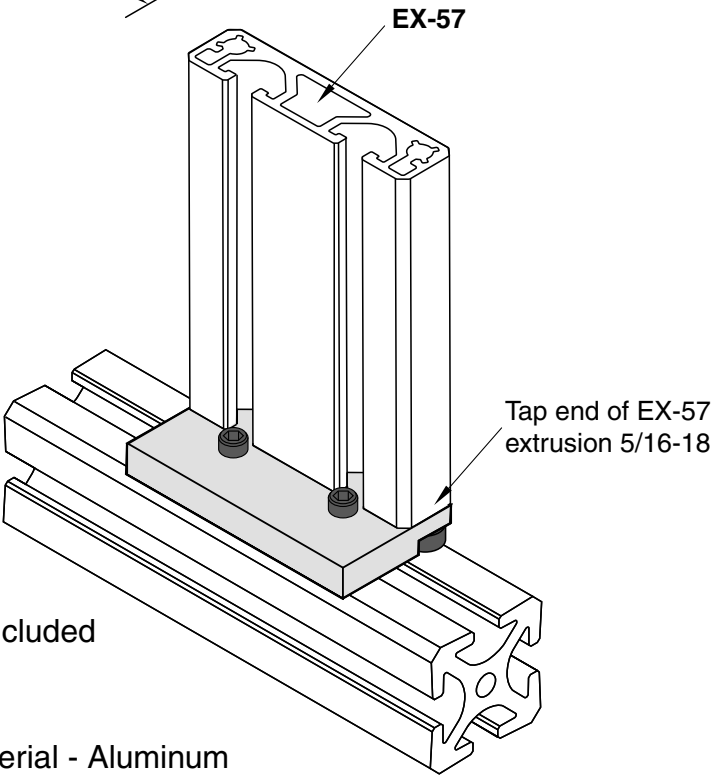
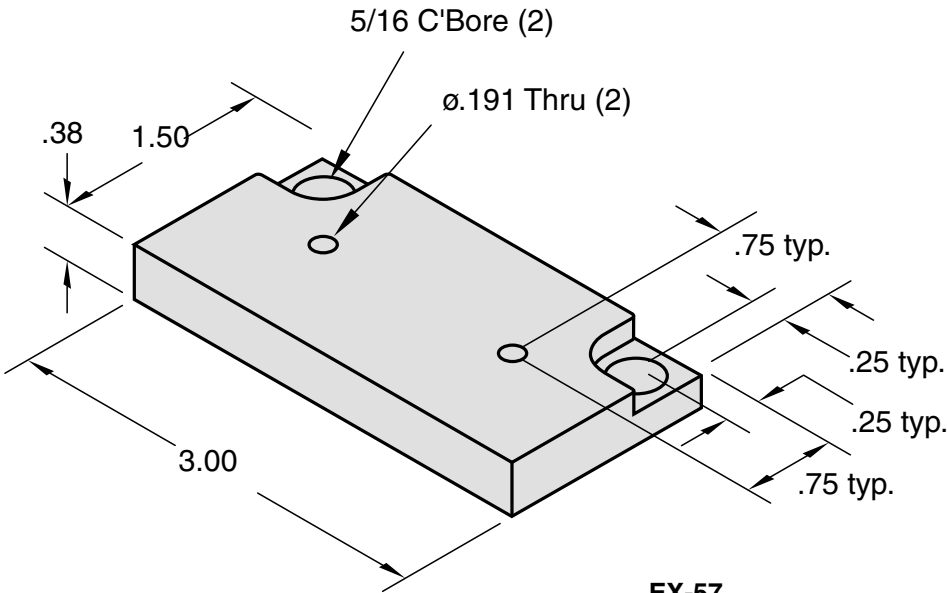
5/16" SLOTS



**Material - Cast Zinc
Finish - Zinc Plated**

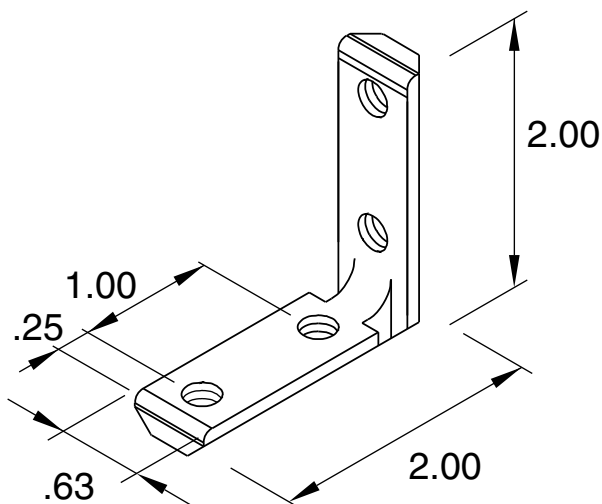
EB-222

5/16" SLOTS

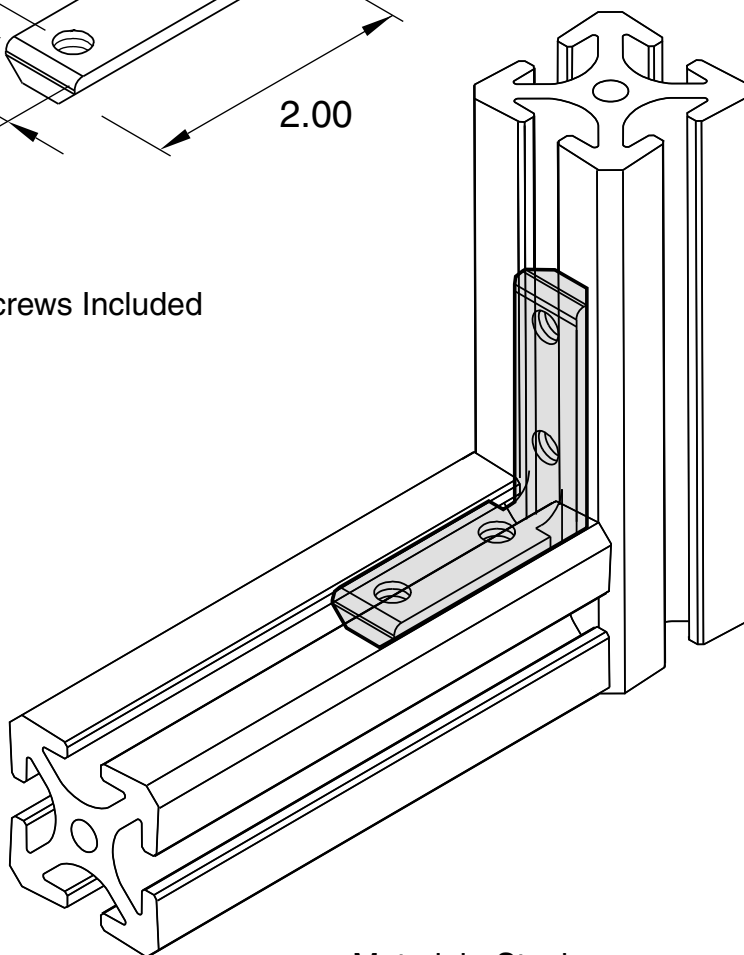


Hardware Included

Material - Aluminum
Finish - Clear Anodize



1/4-20 Set Screws Included



5/16" SLOTS

Material - Steel
Finish - Zinc Plated

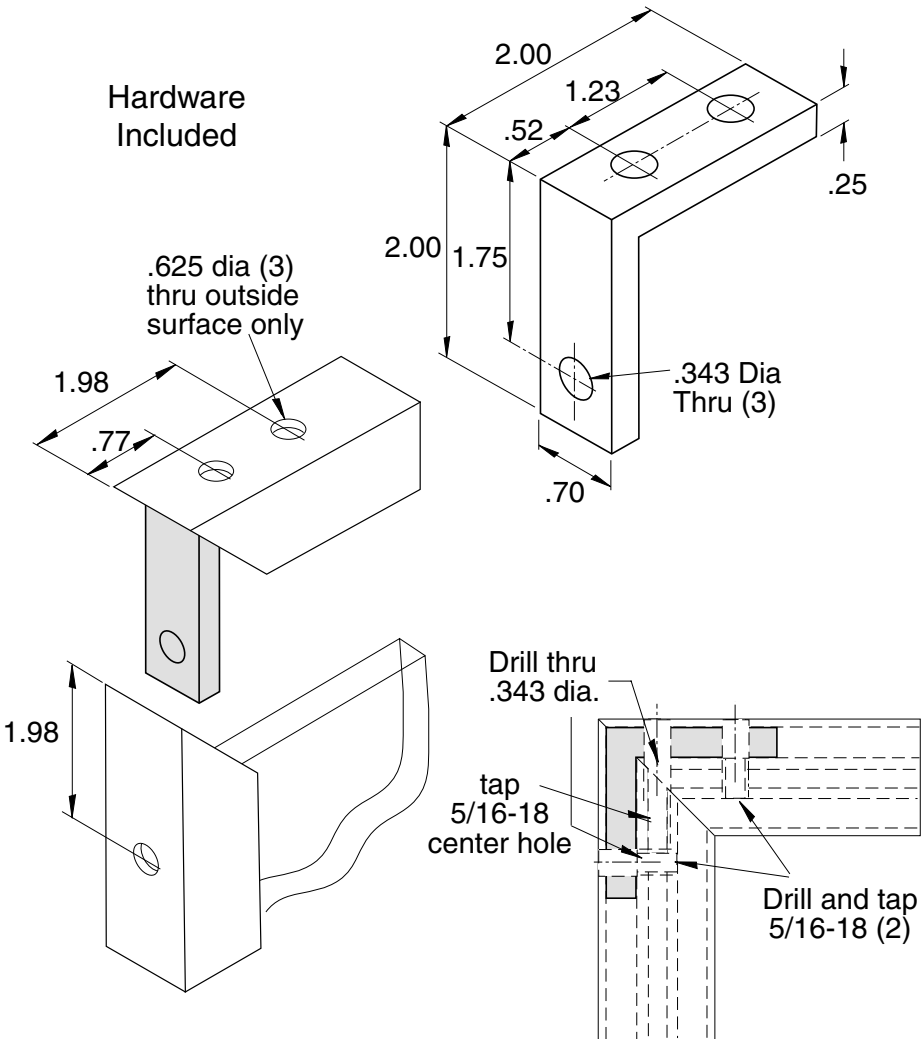
Internal Corner Bracket



EF-27A use with EX-52 and EX-54

Hardware
Included

5/16" SLOTS



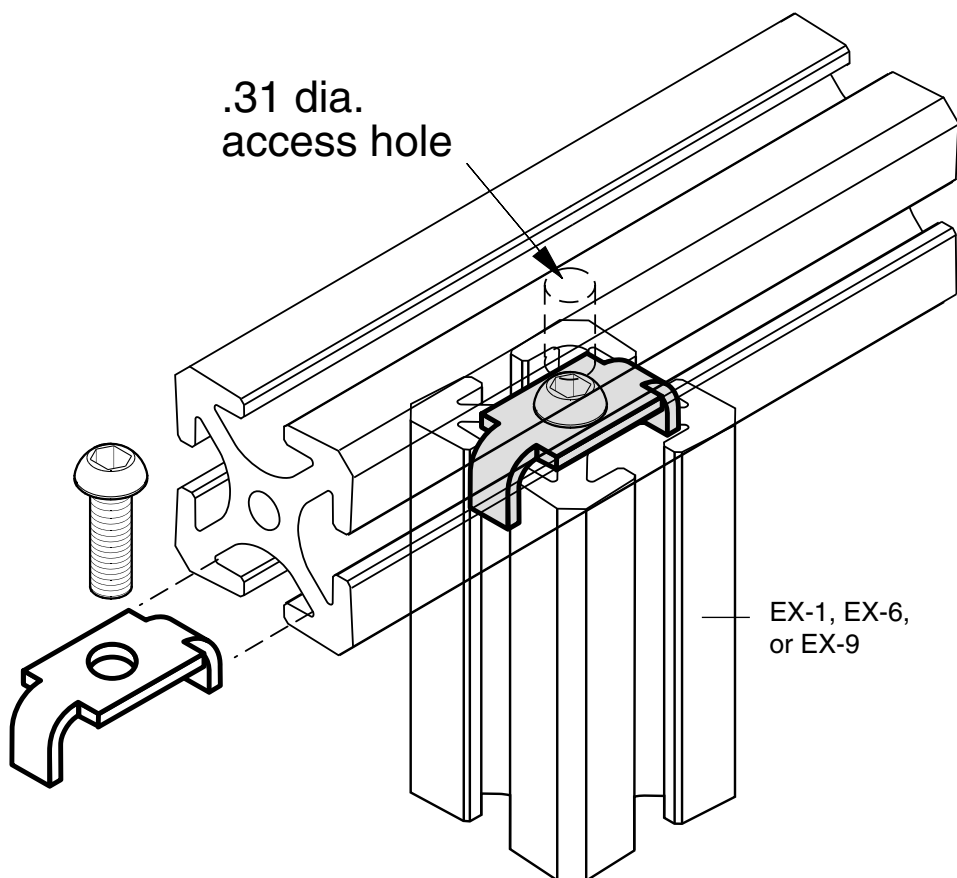
Note: This is the strongest
door corner available anywhere.

Material - Steel
Finish - Zinc Plated

zinc plated steel

EF-29

stainless steel

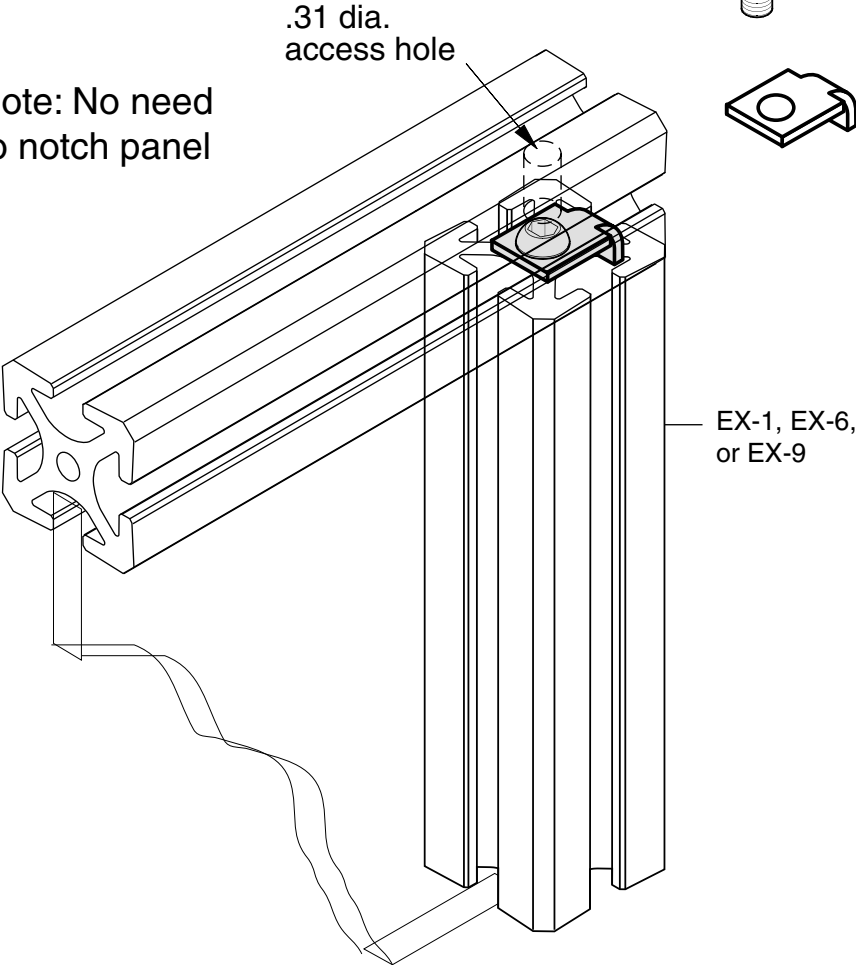
EF-SS29

Requires (1) EF-12-1.0
or (1) EF-12SS-1.0 BHCS

EF-29A	zinc plated steel
EF-SS29A	stainless steel

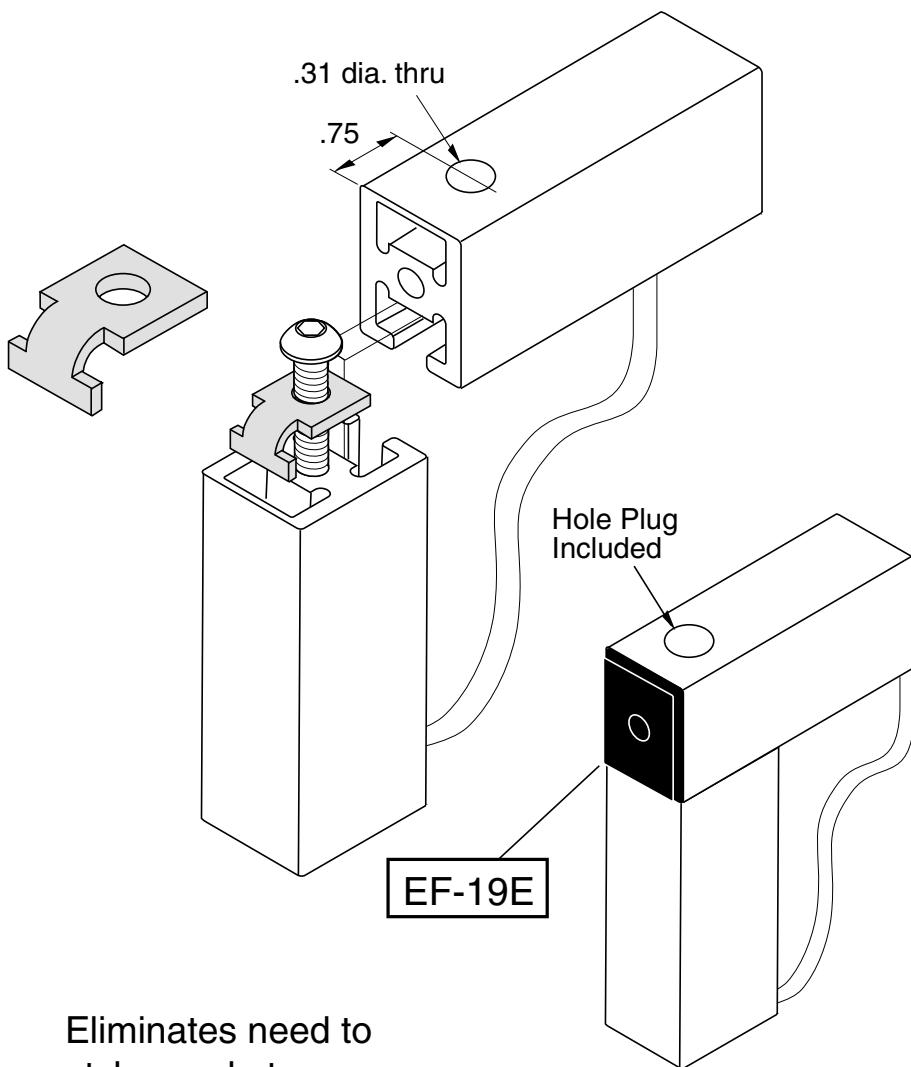
5/16" SLOTS

Note: No need
to notch panel



Requires (1) EF-12-1.0
or (1) EF-12SS-1.0 BHCS

Use with **SMOOTH-Series** profiles
EX-52, EX-54, EX-61, EX-63, EX-64, EX-65

EF-29B**5/16" SLOTS**

Eliminates need to
notch panel at corner

Requires (1) EF-12-1.0 BHCS

Material - Steel
Finish - Zinc Plated

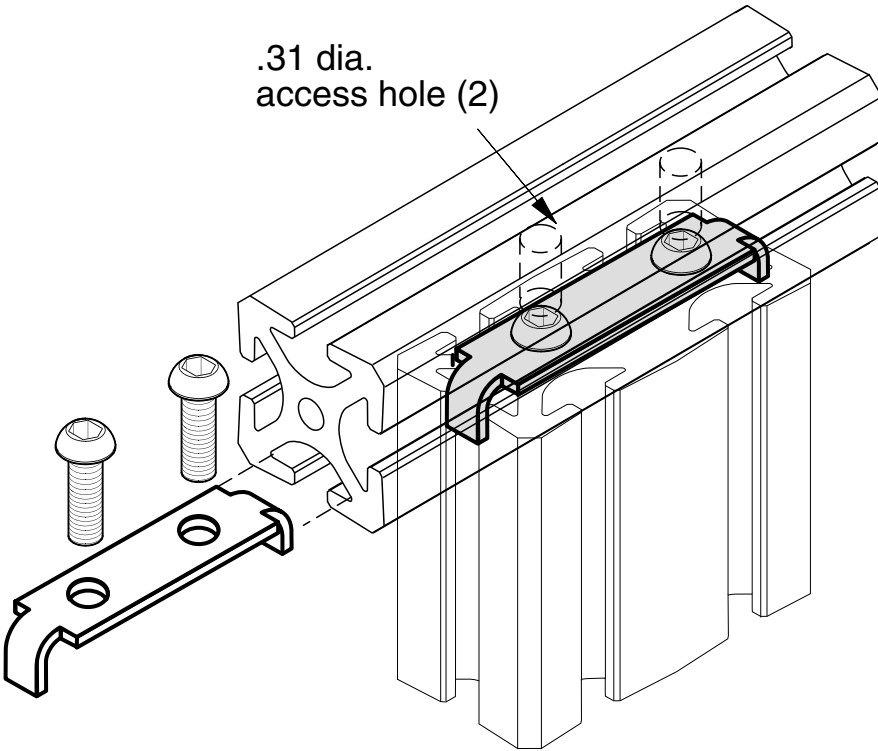
Double Universal Connector



EF-29D 33 wide slot

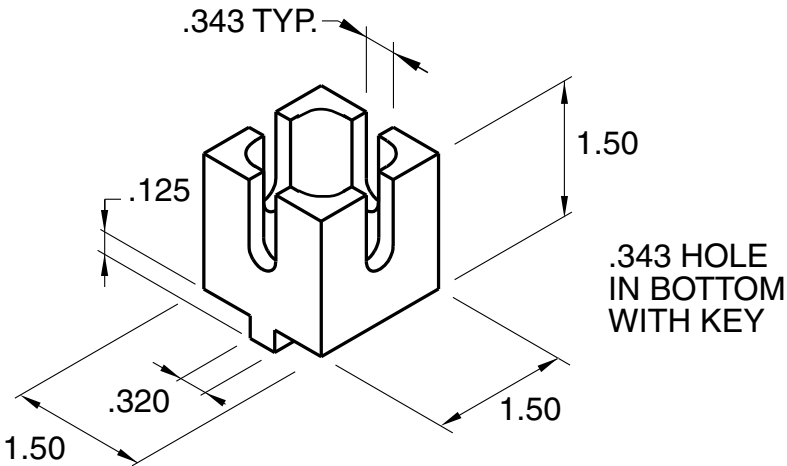
.31 dia.
access hole (2)

5/16" SLOTS

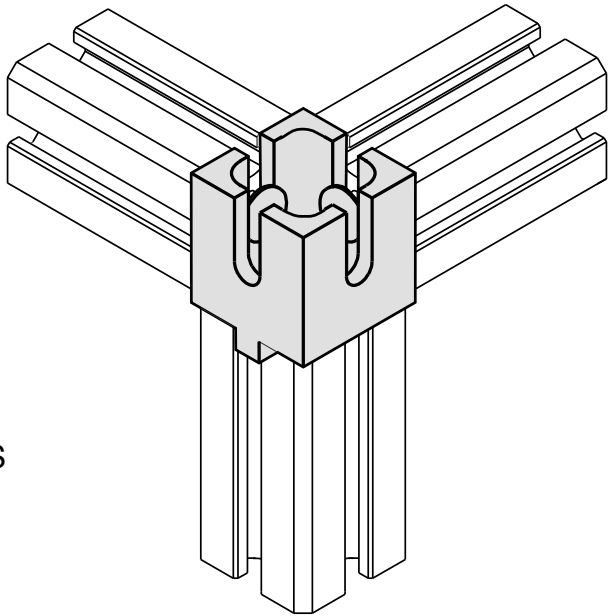


Requires (2) EF-12-1.0 BHCS

Material - Steel
Finish - Zinc Plated



5/16" SLOTS



Requires
(3) EF-12-.75 BHCS

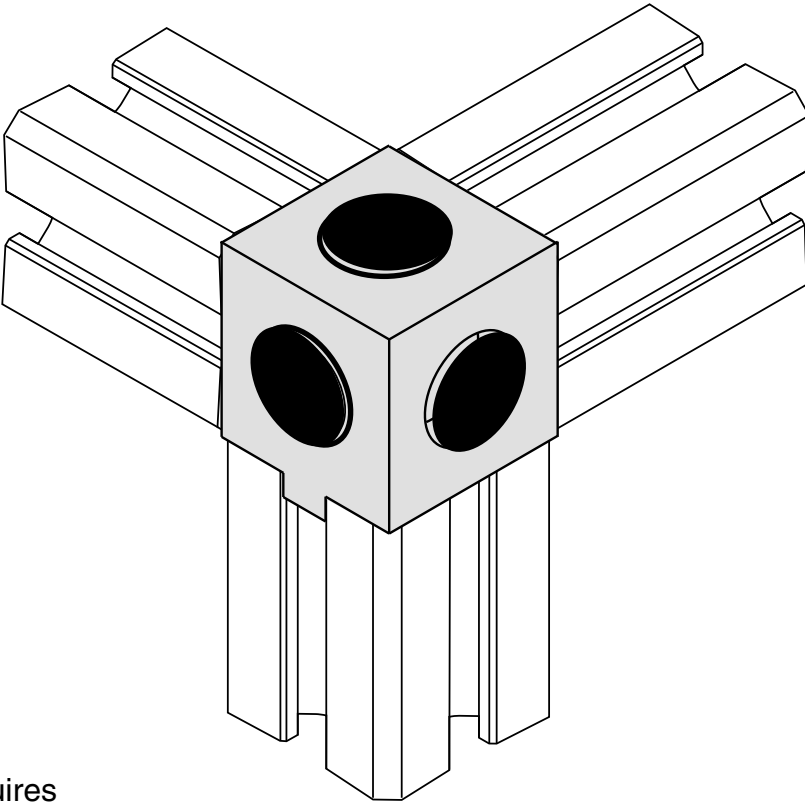
Material - Aluminum
Finish - Clear Anodize

3-way Castle Corner



ECC-A

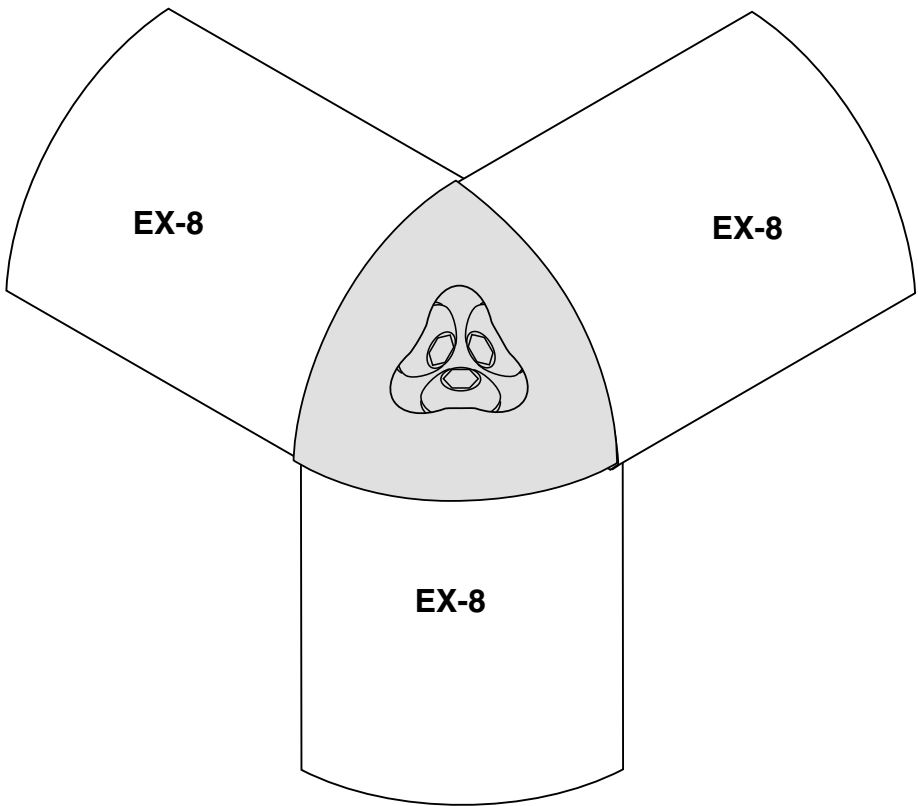
5/16" SLOTS



Requires
(3) EF-12-.75 BHCS

Hole plugs included

Material - Aluminum
Finish - Clear Anodize

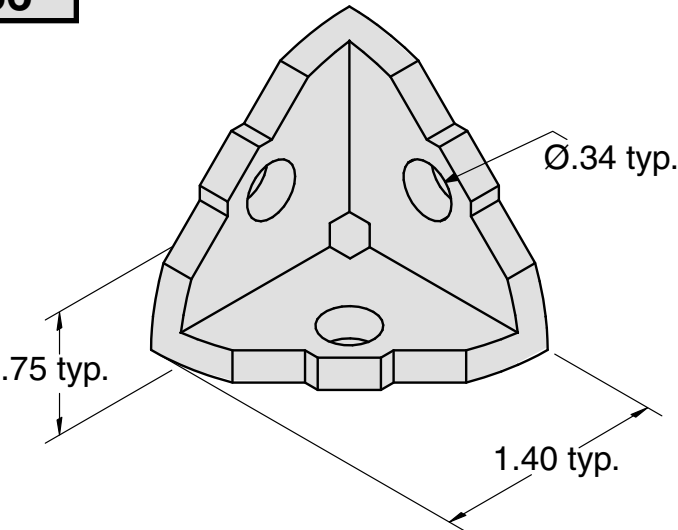


Hardware Included

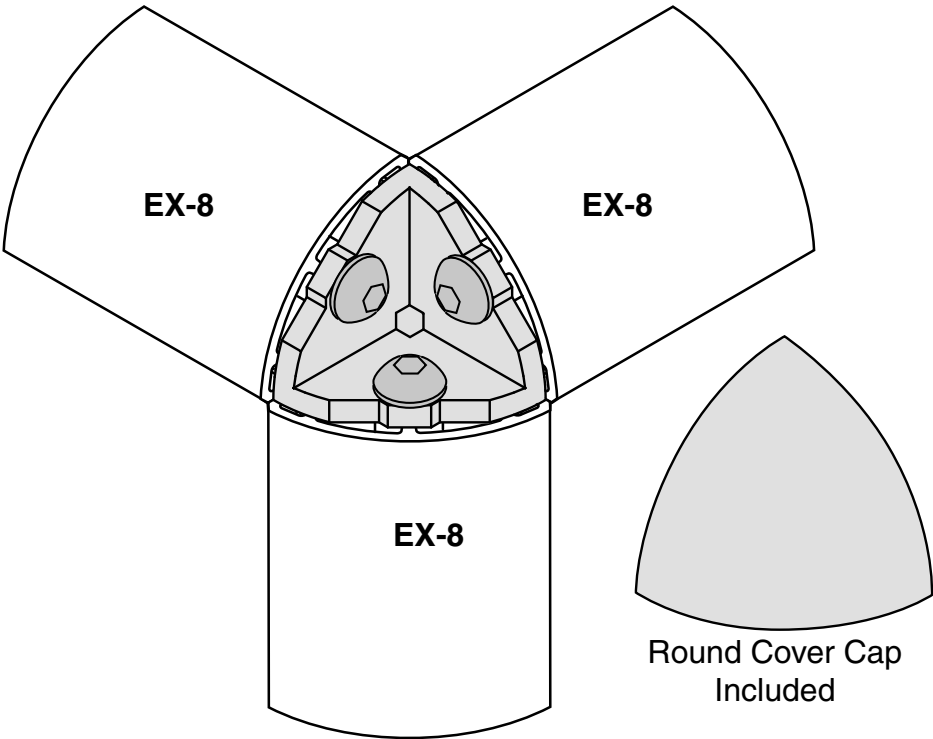
Material - Aluminum
Finish - Grey Powder Coat

EB-86

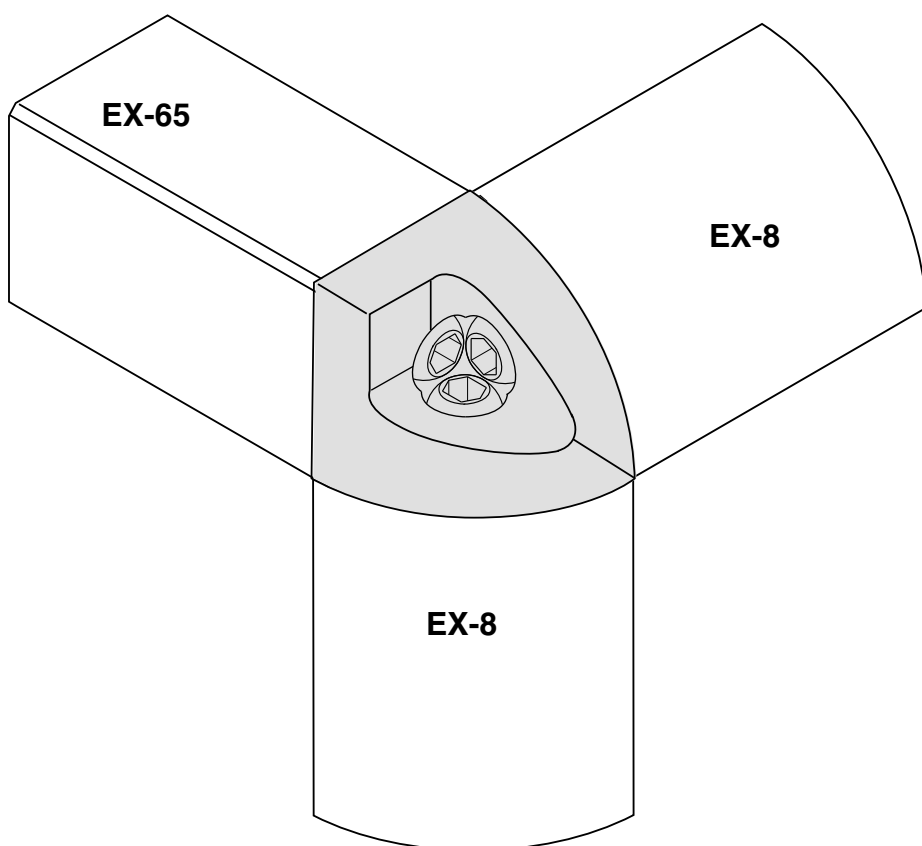
5/16" SLOTS



Hardware Included



Material -Bracket: Die Cast Zinc
Cap: Reinforced Nylon

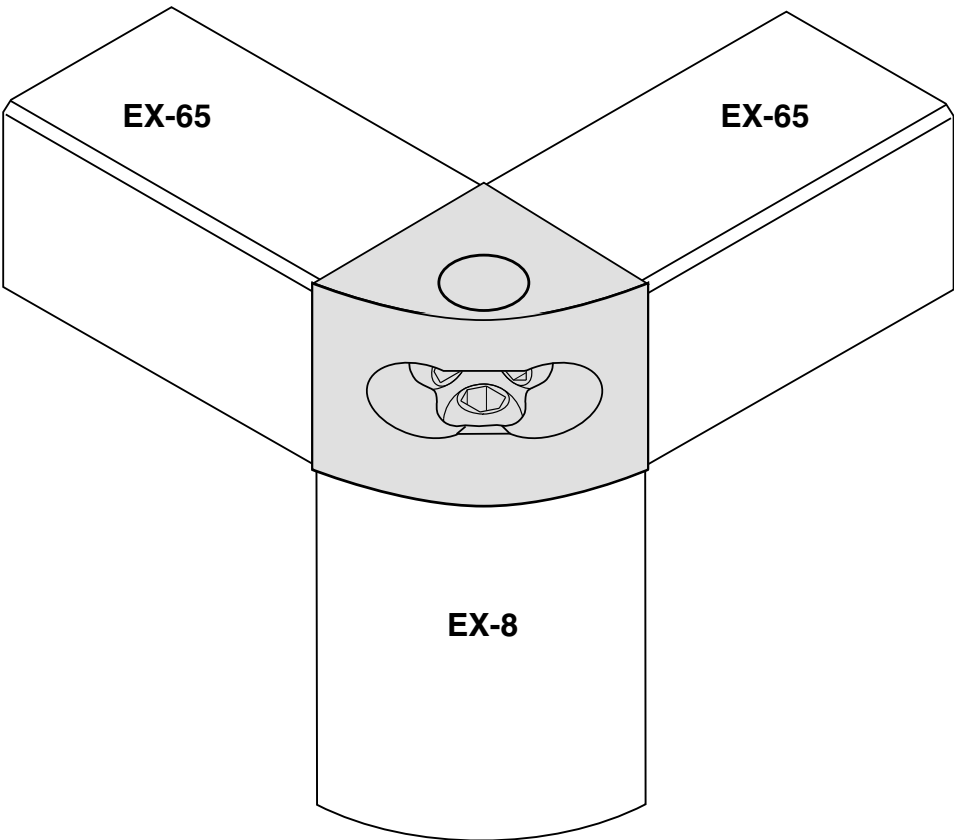


Hardware Included

Material - Aluminum
Finish - Grey Powder Coat

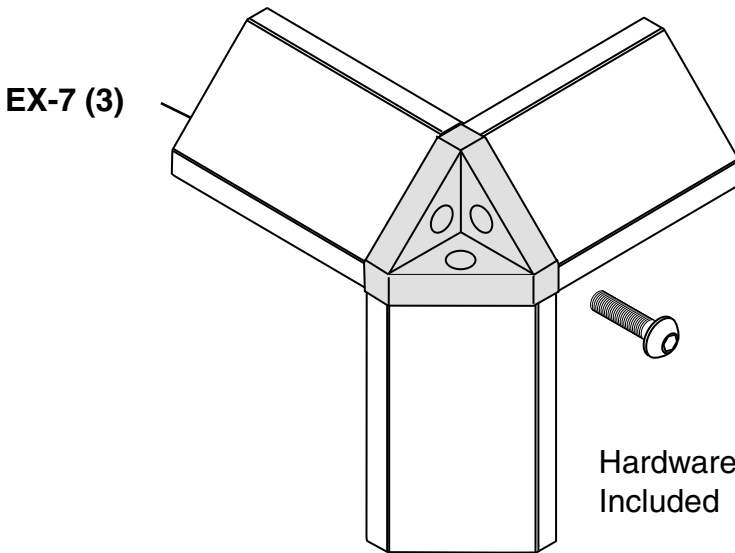
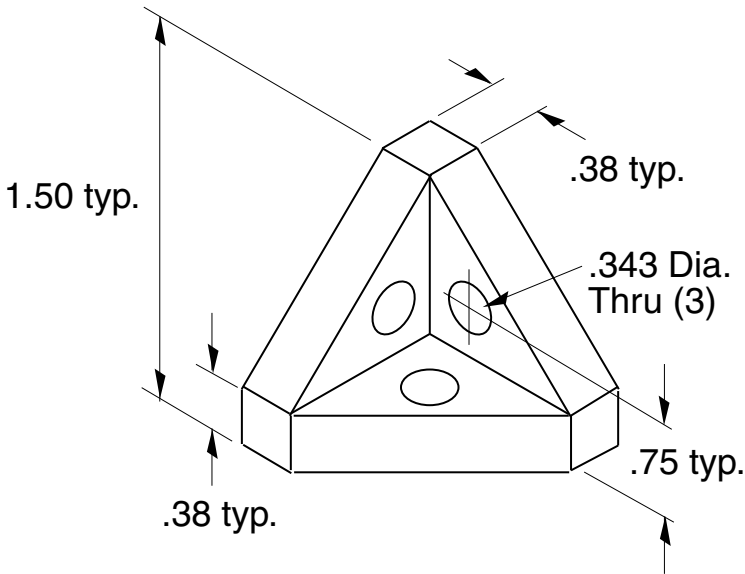
EB-54

5/16" SLOTS



Hardware Included

Material - Aluminum
Finish - Grey Powder Coat

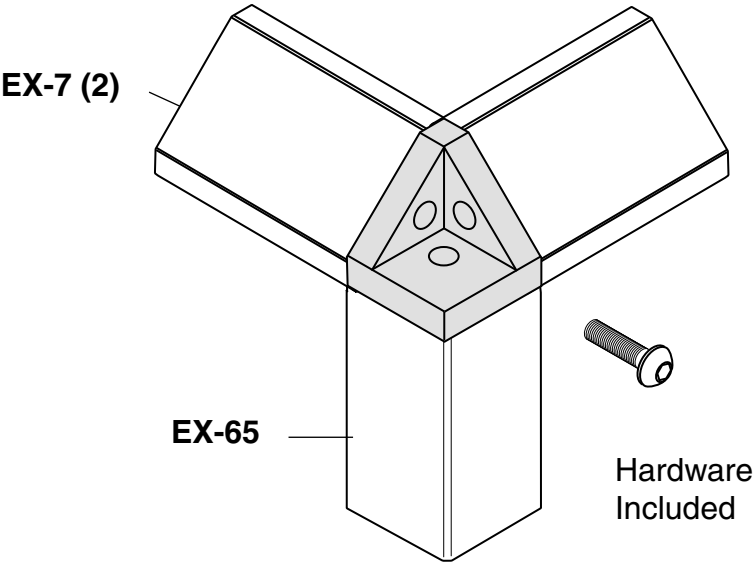
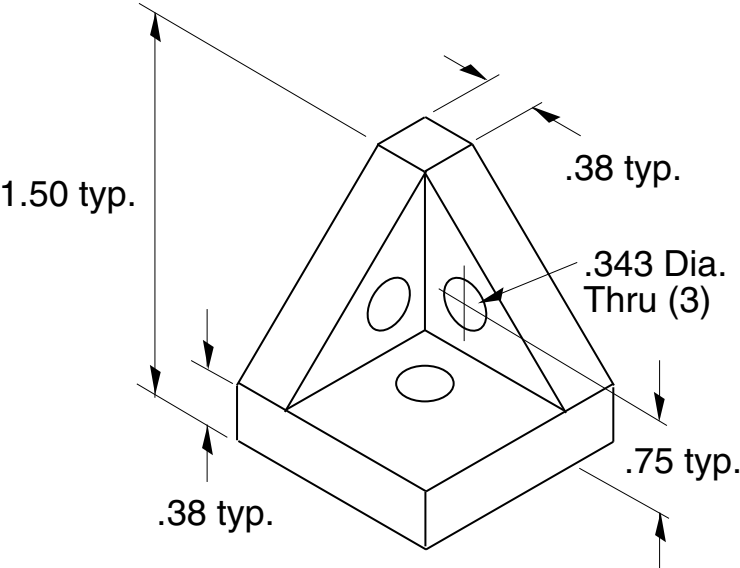


Material - Aluminum
Finish - Clear Anodize

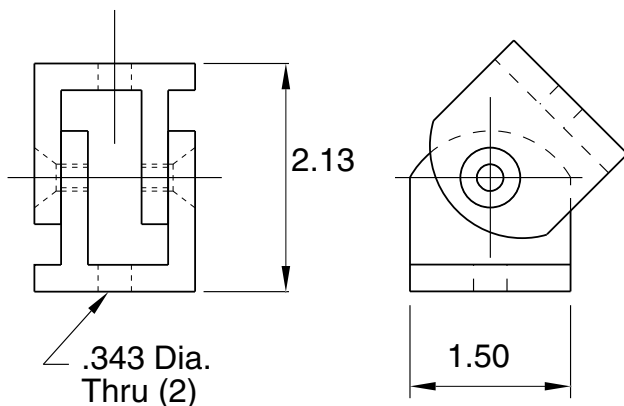
5/16" SLOTS

EB-51

5/16" SLOTS



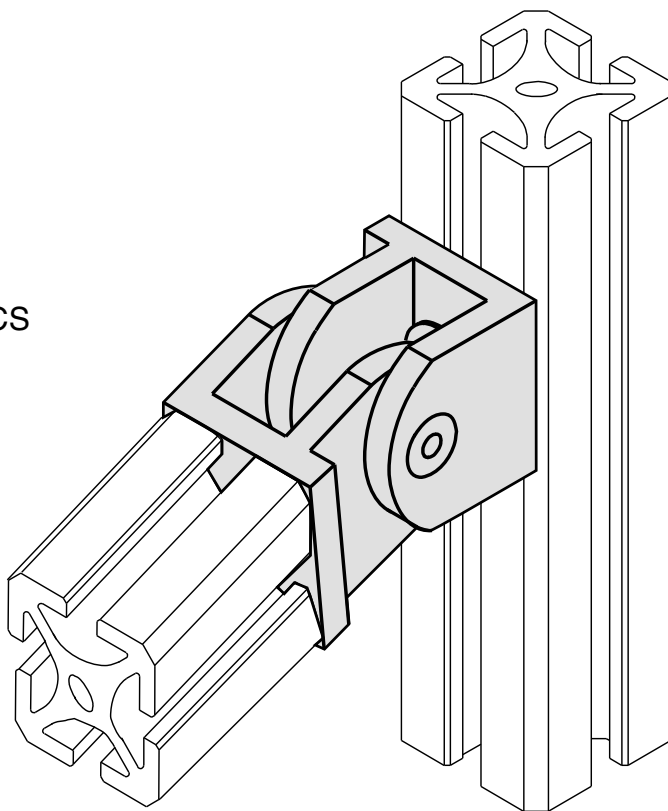
Material - Aluminum
Finish - Clear Anodize



Requires

(2) EF-11-.63 SHCS

(1) EF-2 T-nut



Material - Aluminum
Finish - Grey Powder Coat

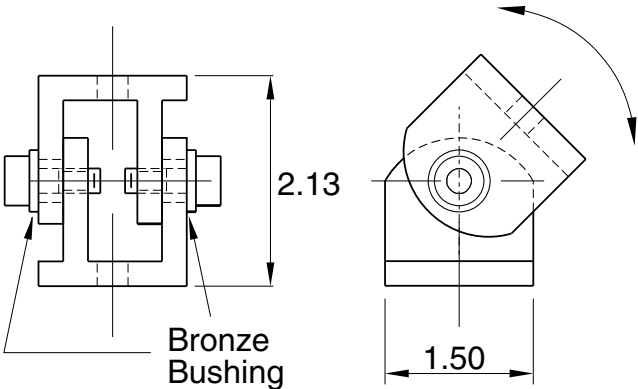
5/16" SLOTS

Pivoting Hinge

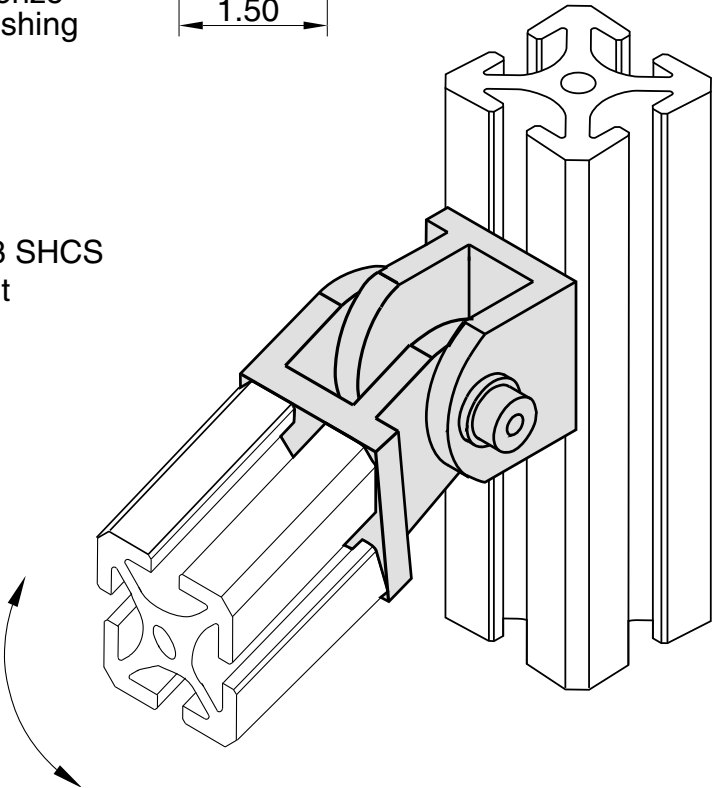


EB-13P

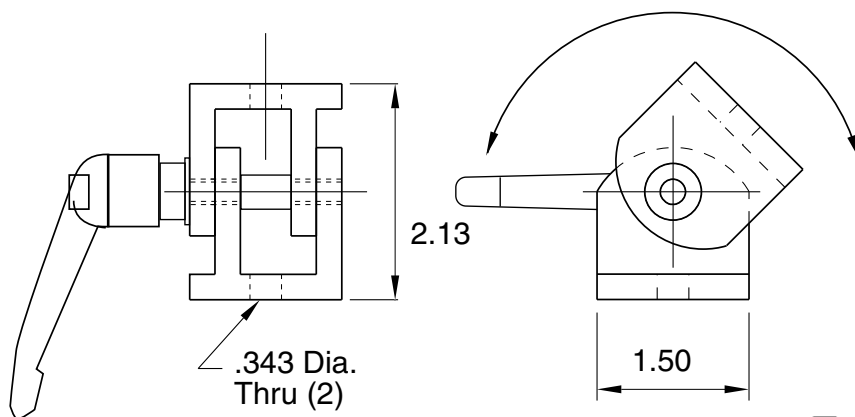
5/16" SLOTS



- Requires
- (2) EF-11-.63 SHCS
 - (1) EF-2 T-nut



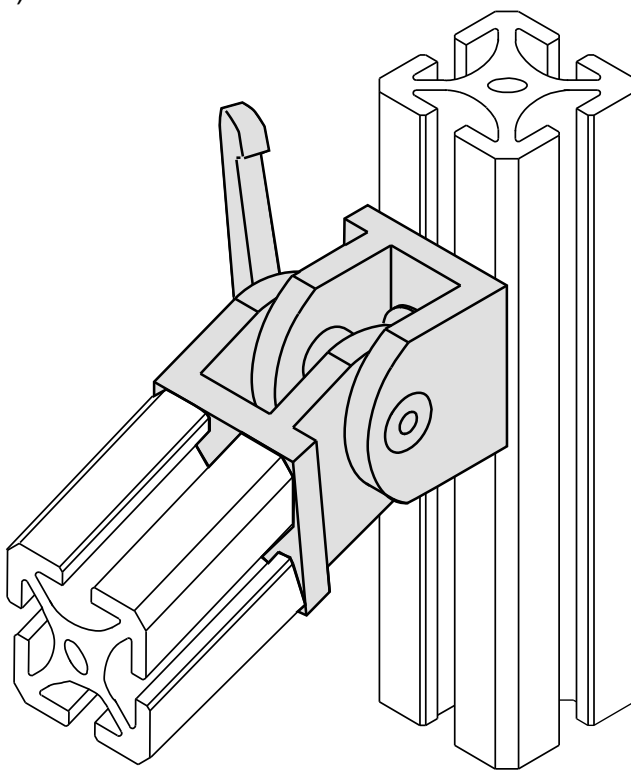
Material - Aluminum
Finish - Grey Powder Coat


5/16" SLOTS

Requires

(2) EF-11-.63 SHCS

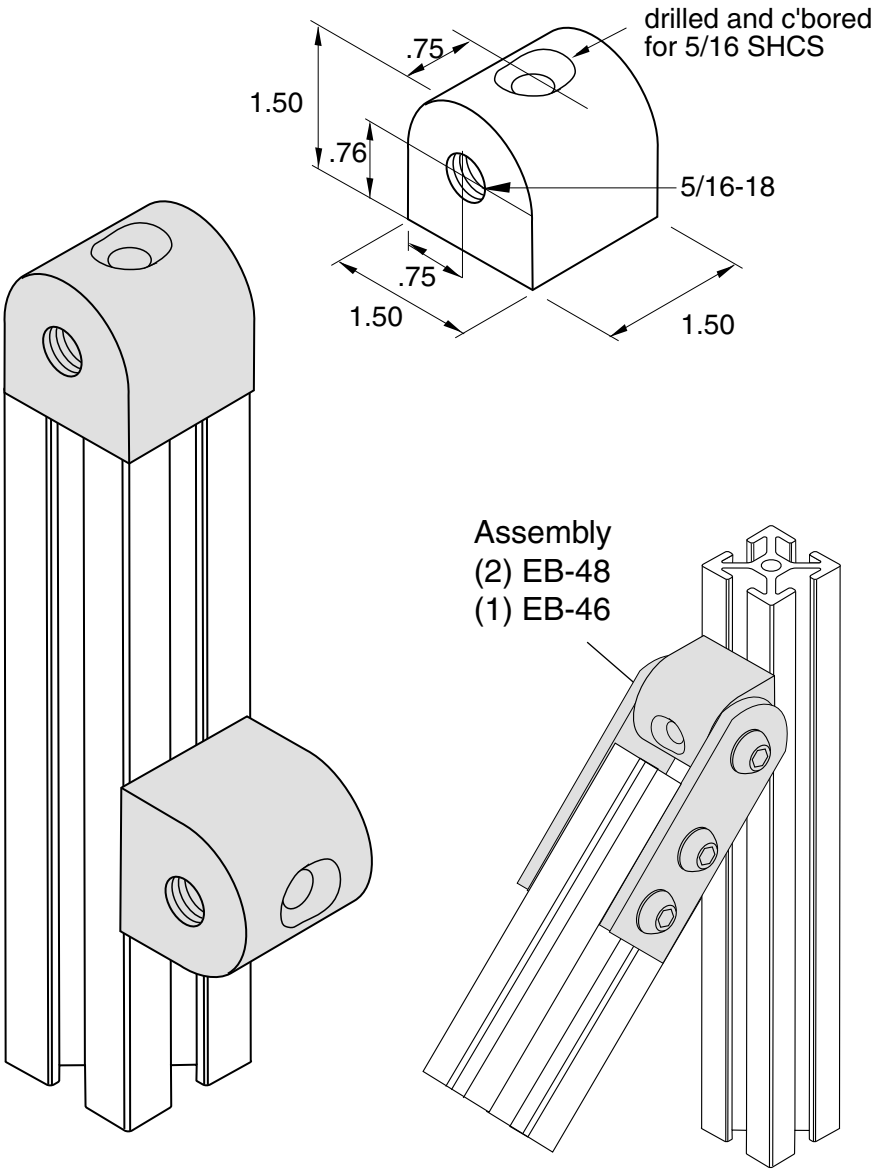
(1) EF-2 T-nut



Material - Aluminum
Finish - Grey Powder Coat

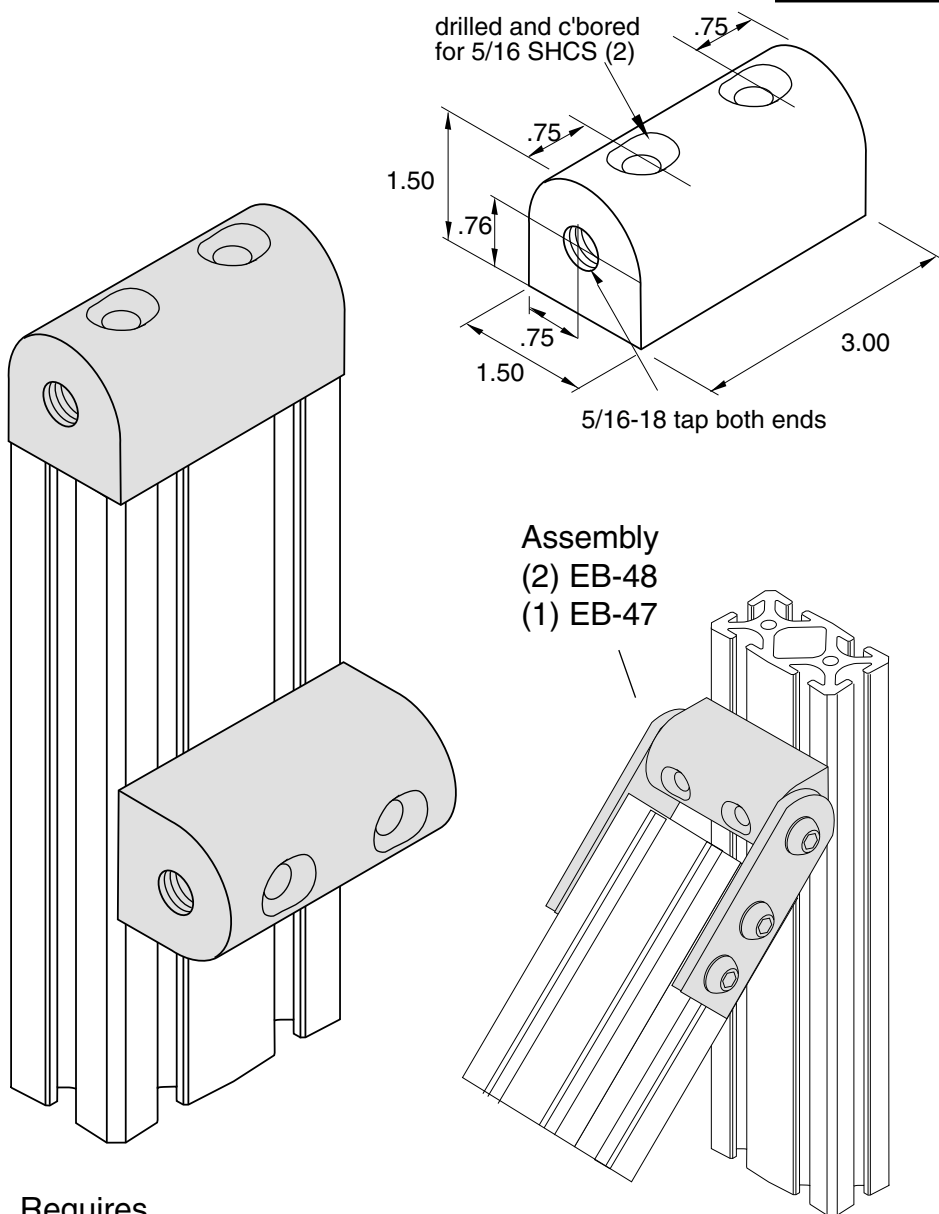
EB-46

5/16" SLOTS



Requires
(1) EF-11-1.25 SHCS
(1) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS

Requires

(2) EF-11-1.25 SHCS

(2) EF-2 T-nut

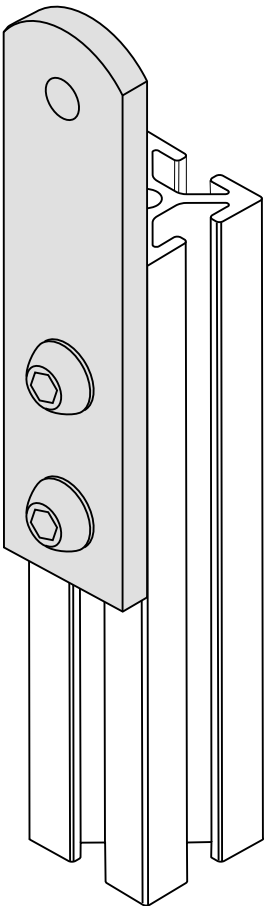
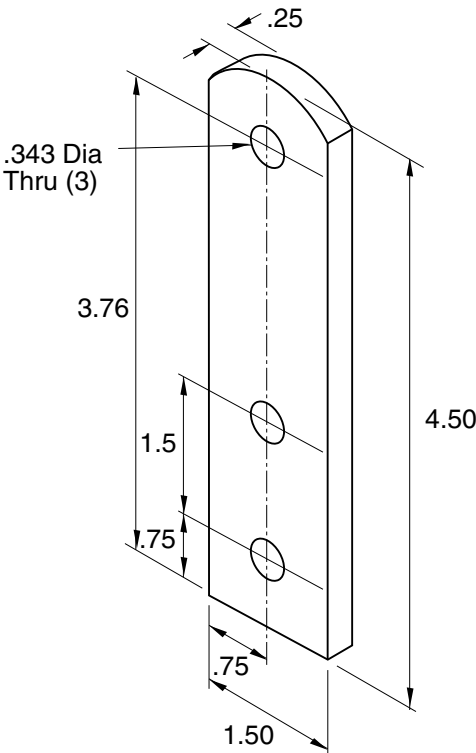
Material - Aluminum
Finish - Clear Anodize

Adjustable Arm Post

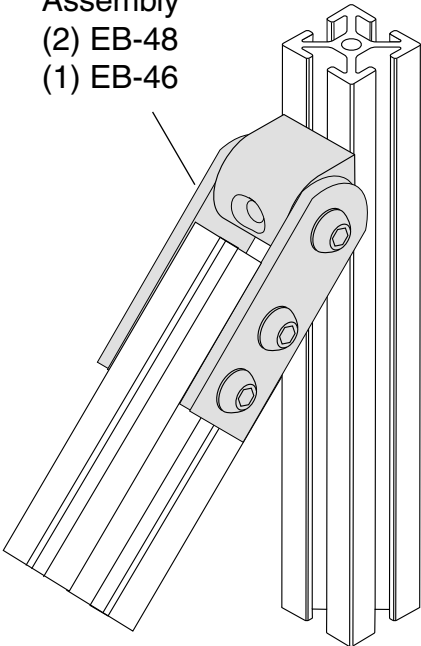


EB-48 use with EB-46 & EB-47

5/16" SLOTS

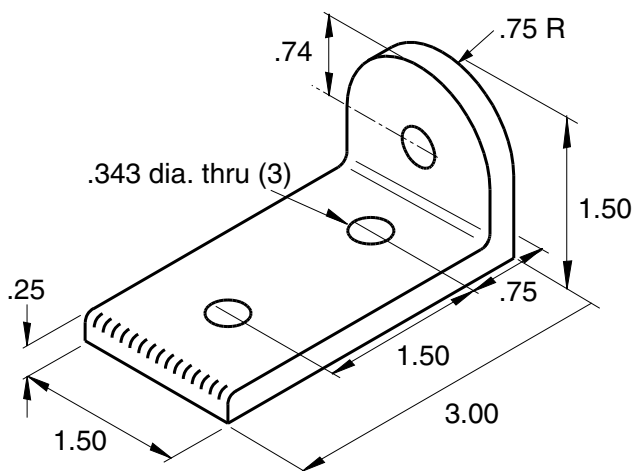
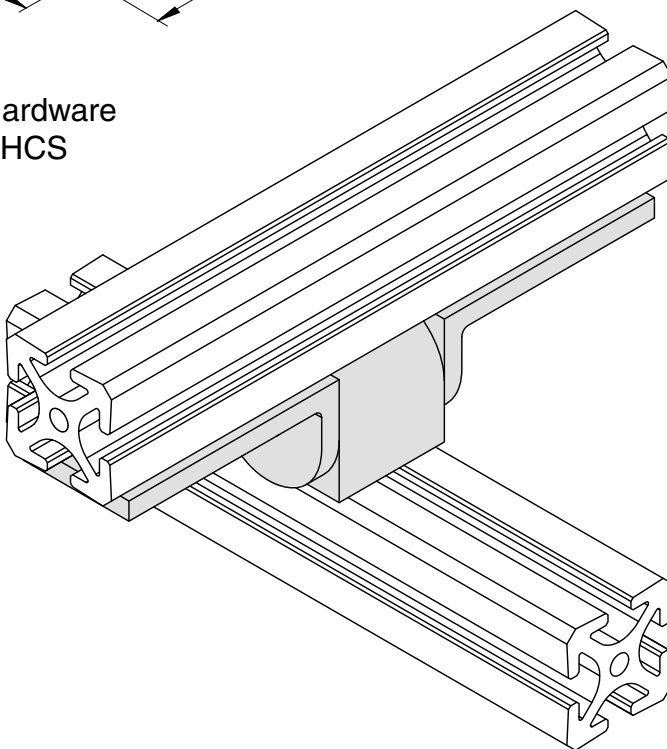


Assembly
(2) EB-48
(1) EB-46



Requires
(3) EF-12-.63 BHCS
(2) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

**5/16" SLOTS****Recomended Hardware****(3) EF-12-.63 SHCS****(2) EF-2 T-nut**

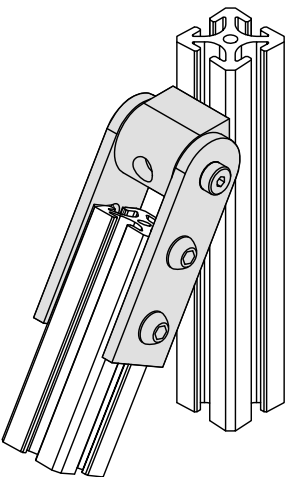
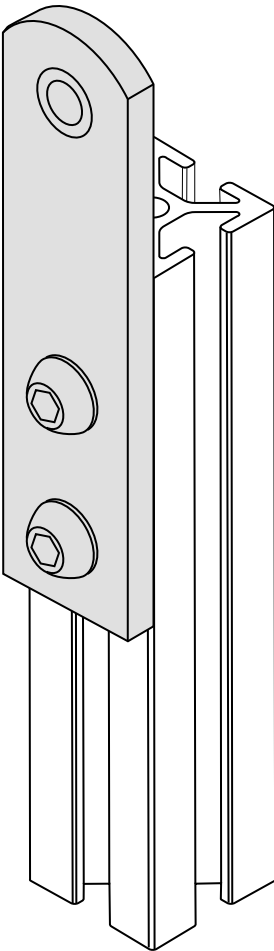
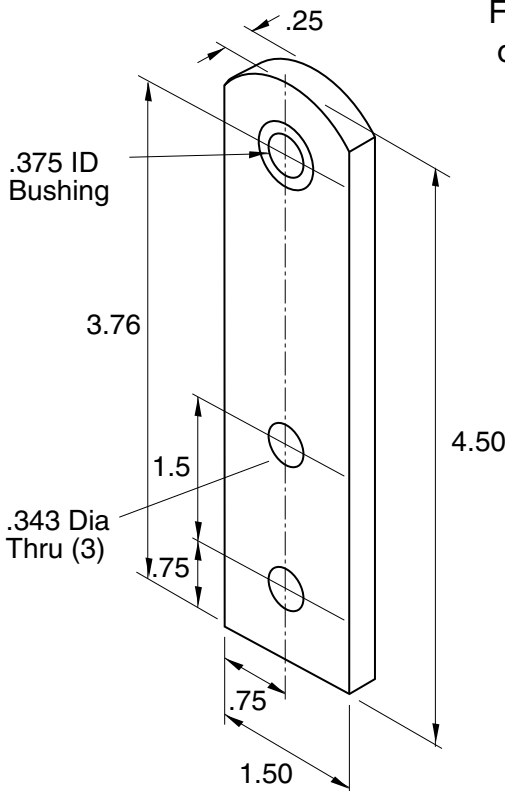
Material - Aluminum
Finish - Clear Anodize

Pivoting Post Arm with Bushing



EB-65 Use with EB-68, EB-69

For Shoulder Bolt
order (1) EF-46

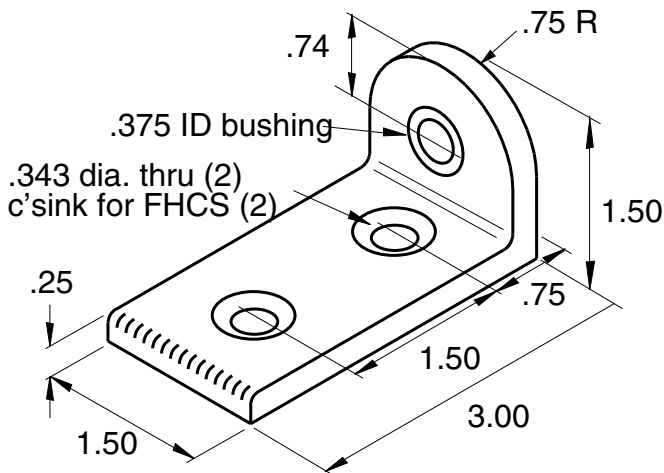


- Recommended Hardware
- (2) EF-12-.63 BHCS
 - (2) EF-2 T-nut
 - (1) EF-46

Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

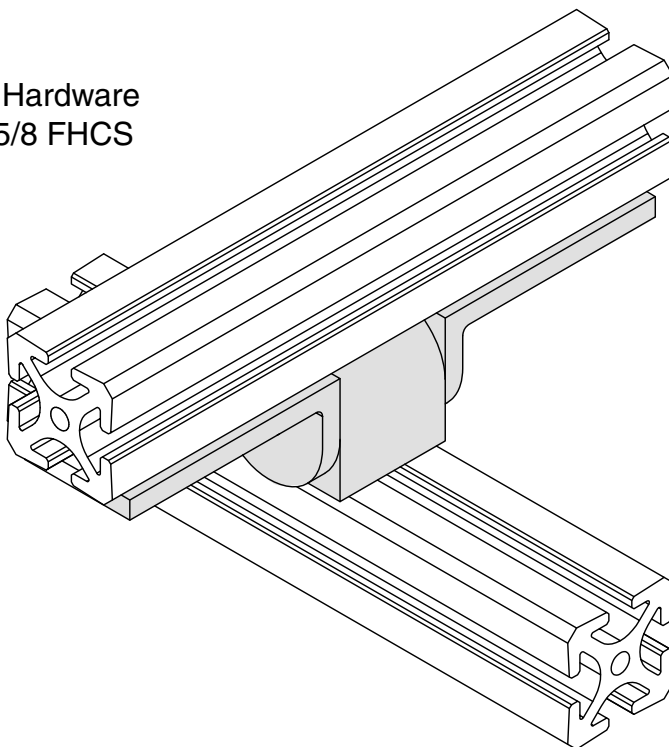
For Shoulder
Bolt order (1) EF-46



5/16" SLOTS

Recommended Hardware

- (2) 5/16-18 x 5/8 FHCS
- (2) EF-2 T-nut
- (1) EF-46



Material - Aluminum
Finish - Clear Anodize

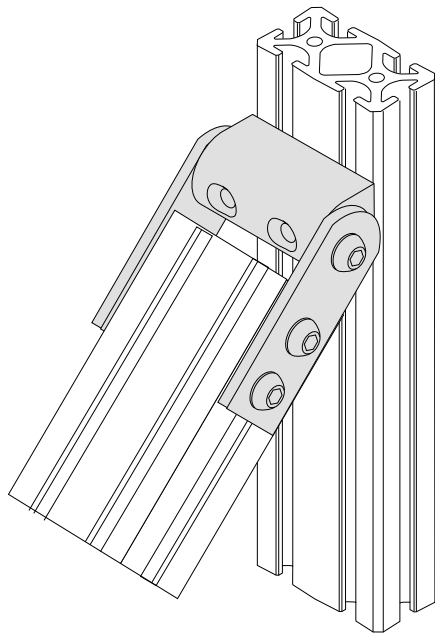
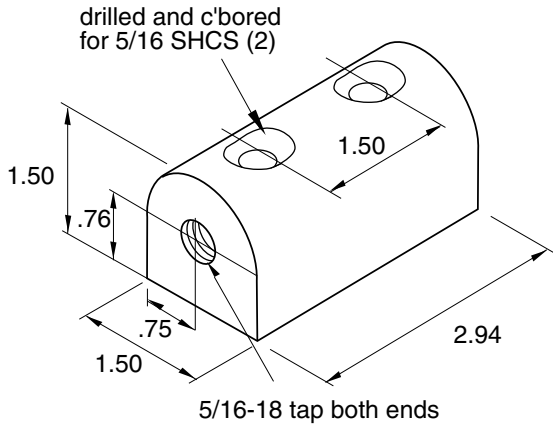
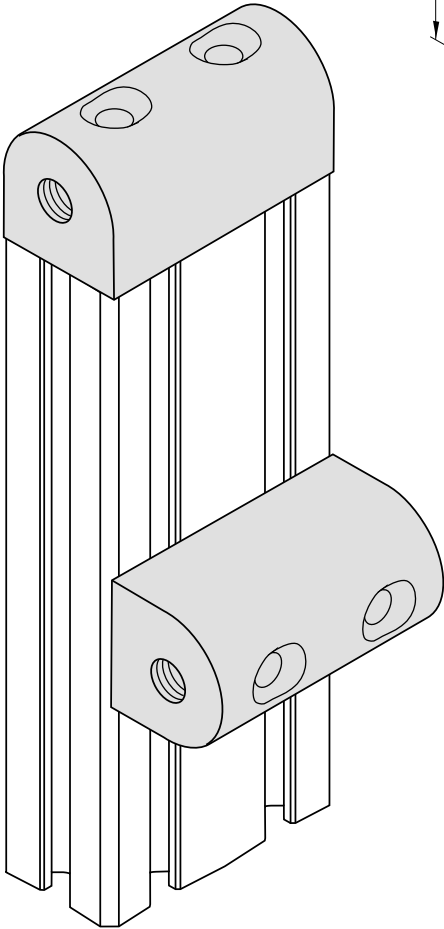
Pivoting Corner Post



EB-68

Use with (2) EB-65 or (2) EB-67

5/16" SLOTS



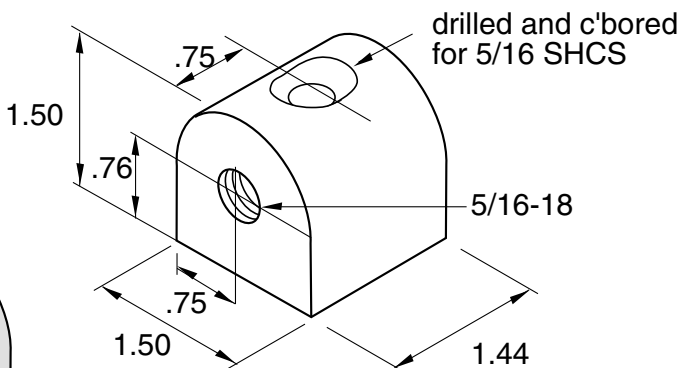
Recomended Hardware
(2) EF-11-1.25 SHCS
(2) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

Use with (2) EB-65 or (2) EB-67

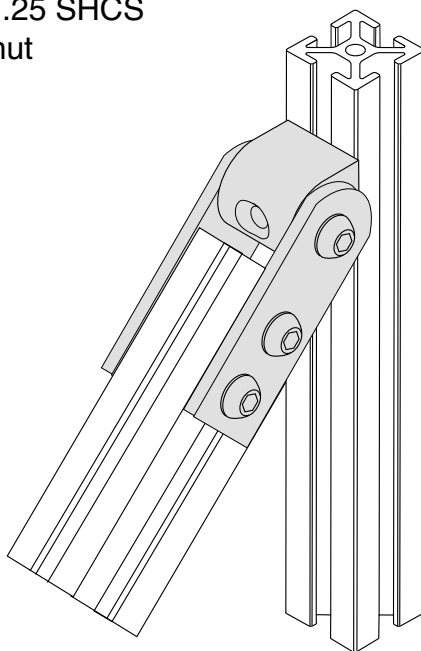
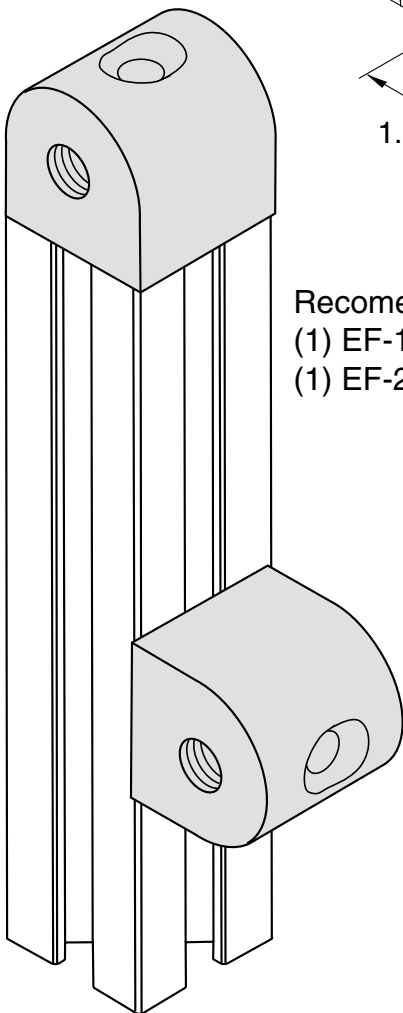
EB-69

5/16" SLOTS



Recomended Hardware

- (1) EF-11-1.25 SHCS
- (1) EF-2 T-nut



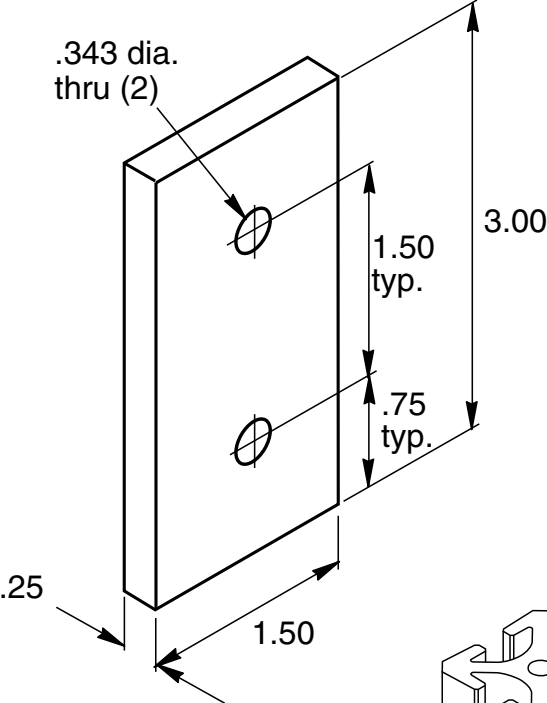
Material - Aluminum
Finish - Clear Anodize

Joining Plate

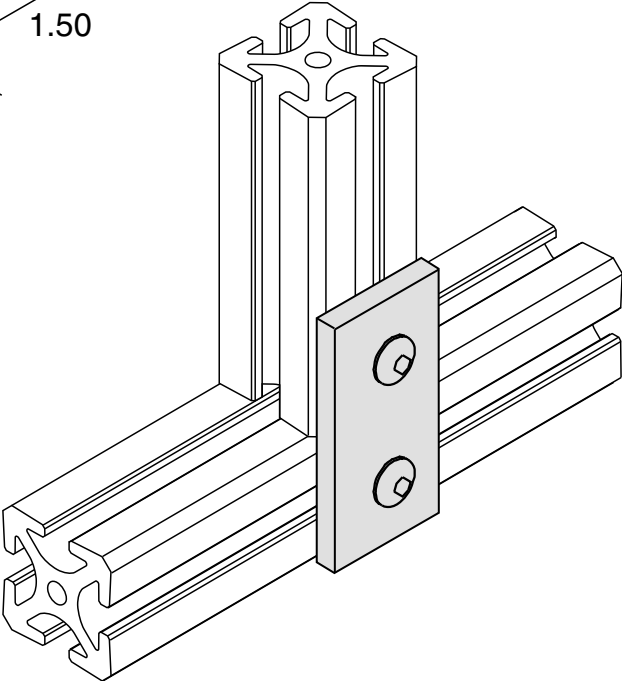


EB-33	Clear Anodized
BLB-33	Flat Black Powder Coat
EB-33-S	Clear Anodized 1 hole is slotted

5/16" SLOTS



Recommended
Hardware
(2) EF-12-.63 BHCS
(2) EF-2 T-nut

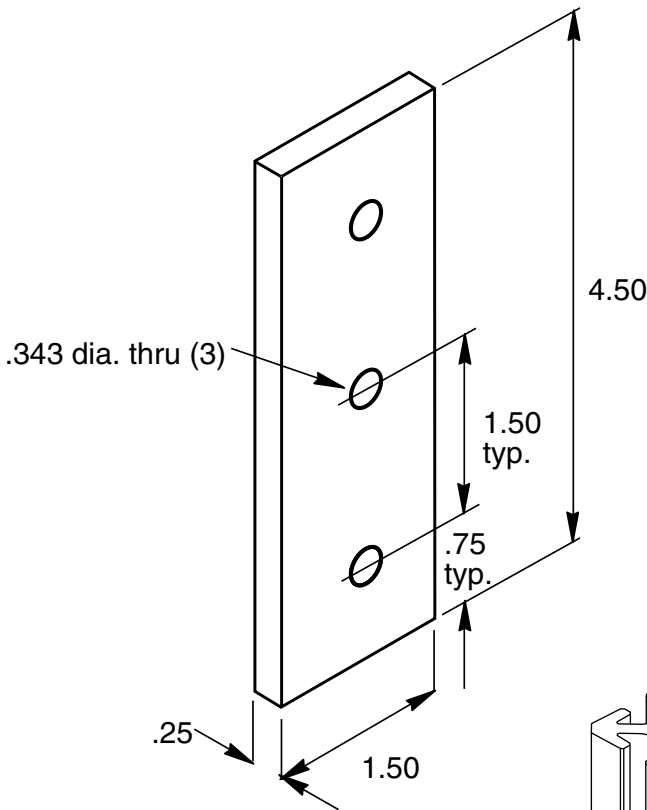


Material - Aluminum

Clear Anodized
Flat Black Powder Coat

EB-31

BLB-31

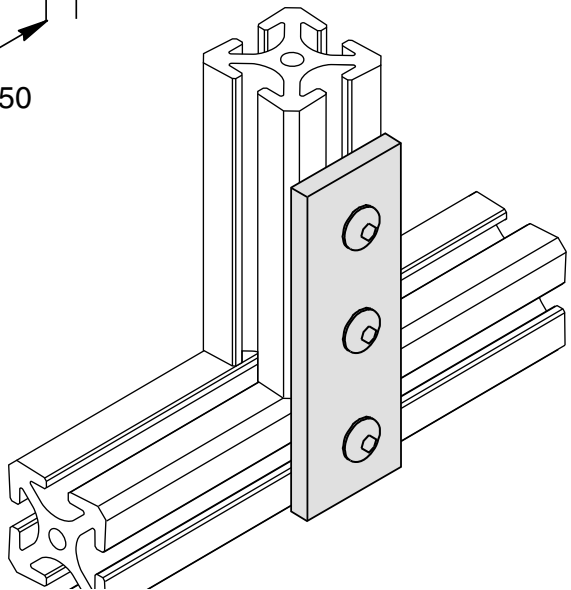


5/16" SLOTS

**Recommended
Hardware**

(3) EF-12-.63 BHCS

(3) EF-2 T-nut

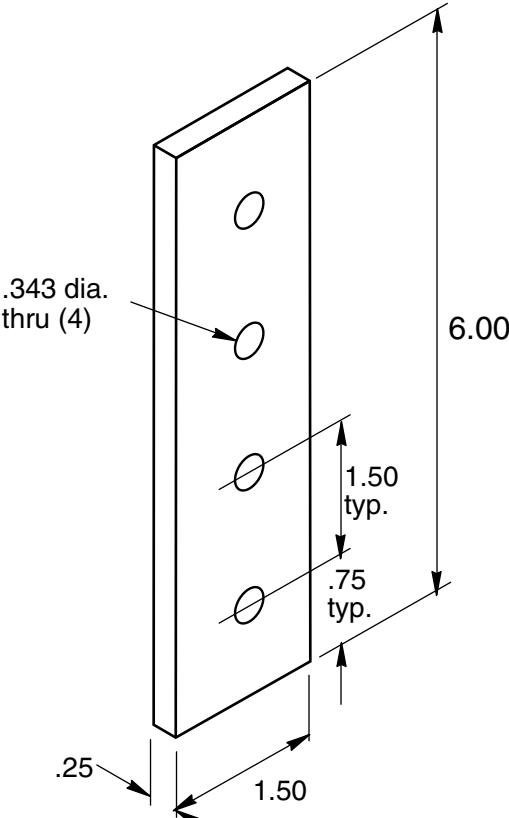


Material - Aluminum

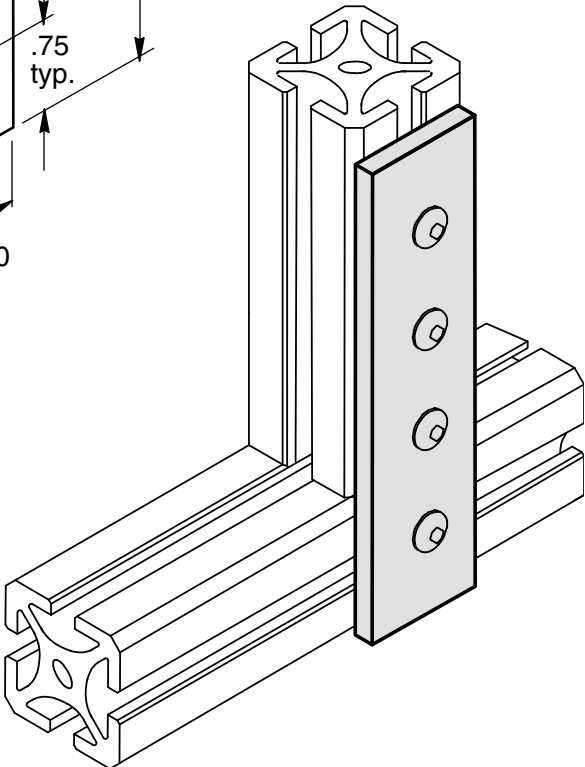
EB-28
BLB-28

Clear Anodized
Flat Black Powder Coat

5/16" SLOTS



Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

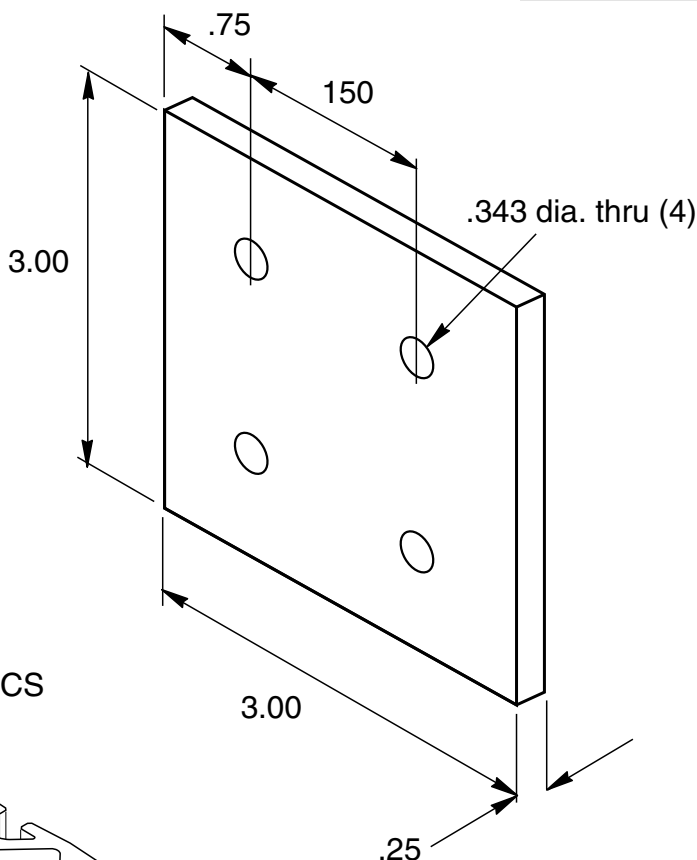


Material - Aluminum

Clear Anodized
Flat Black Powder Coat

EB-29

BLB-29

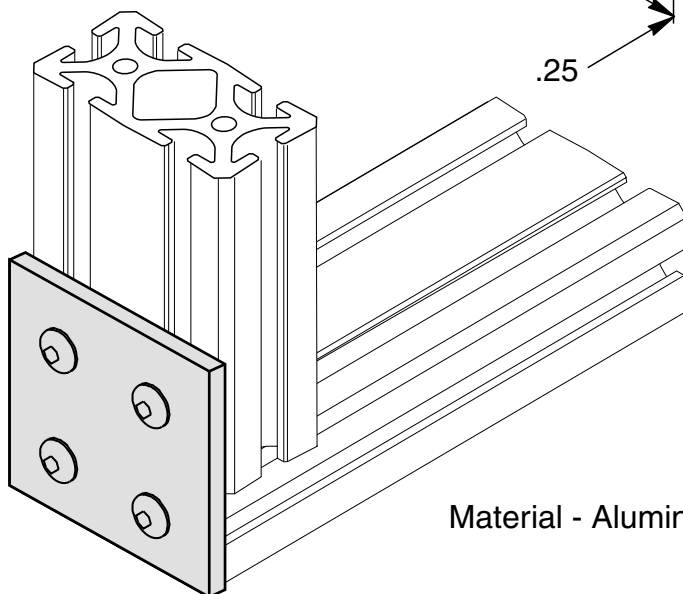


5/16" SLOTS

Recommended
Hardware

(4) EF-12-.63 BHCS

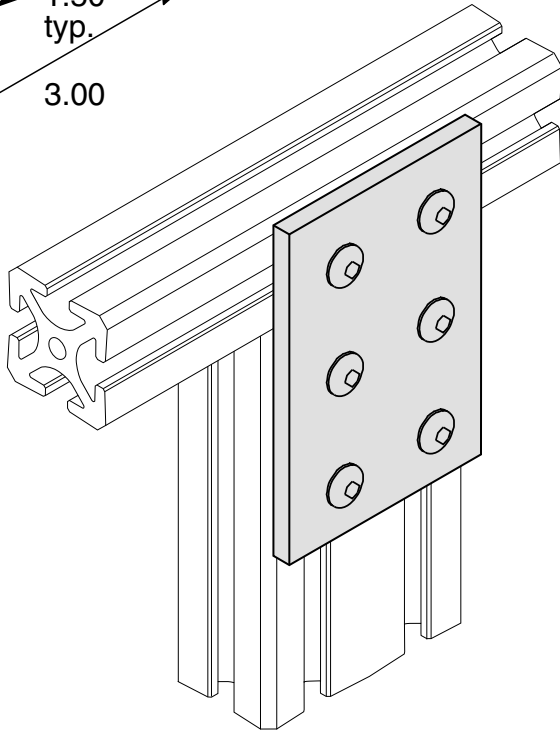
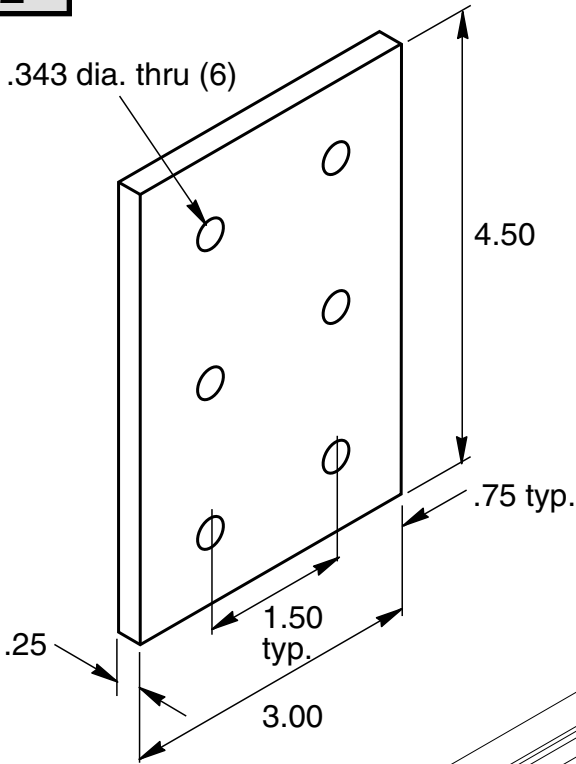
(4) EF-2 T-nut



Material - Aluminum

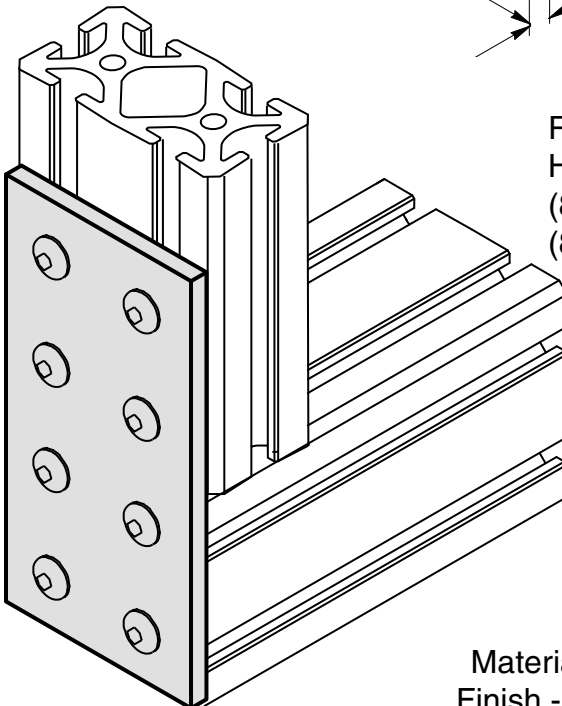
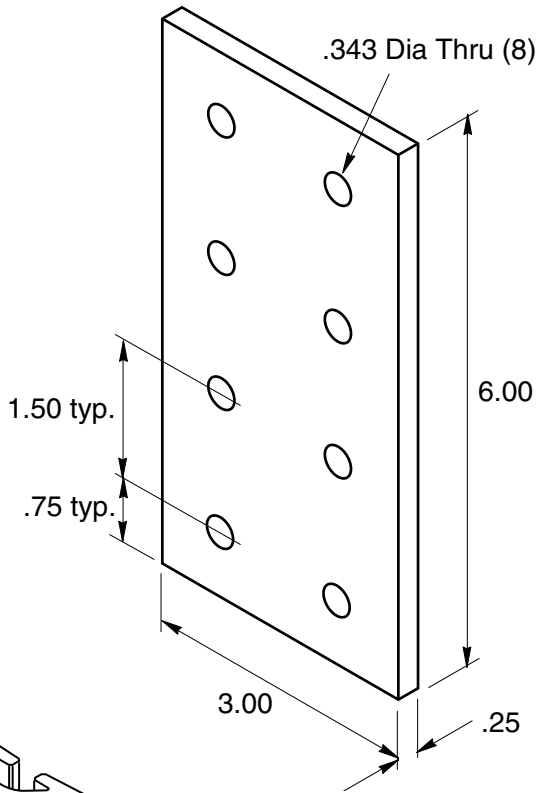
EB-32

5/16" SLOTS



Recommended
Hardware
(6) EF-12-.63 BHCS
(6) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



**Recommended
Hardware**
(8) EF-12- .63 BHCS
(8) EF-2 T-nut

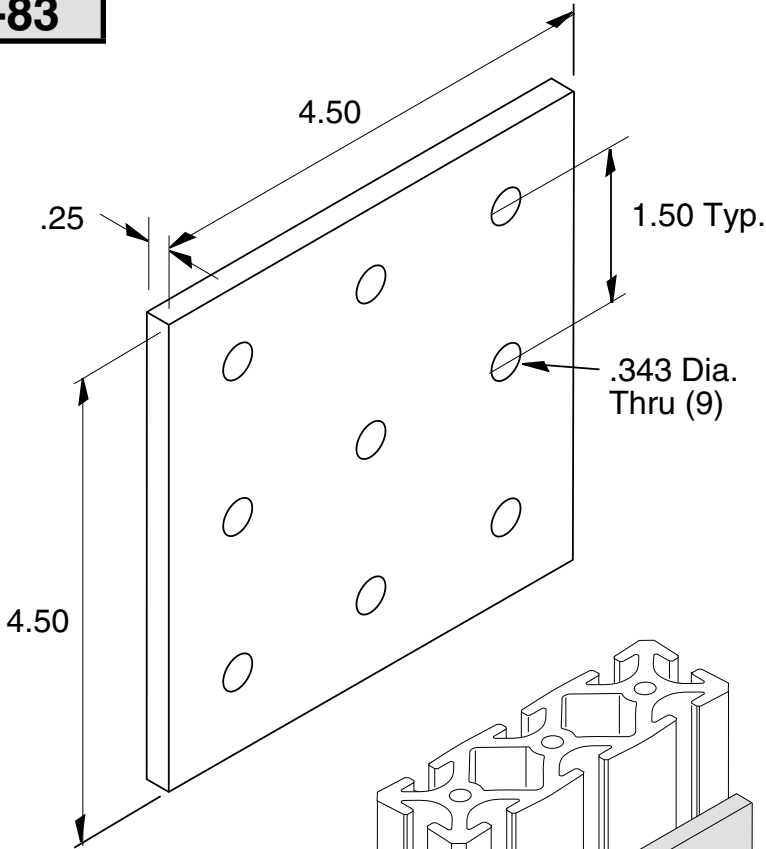
Material - Aluminum
Finish - Clear Anodize

Joining Plate

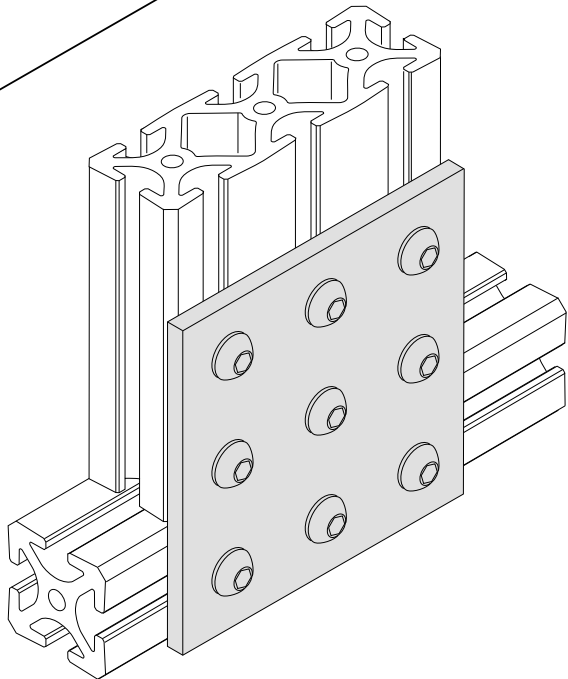


EB-83

5/16" SLOTS



Recommended
Hardware
(9) EF-12-.63 BHCS
(9) EF-2 T-nut

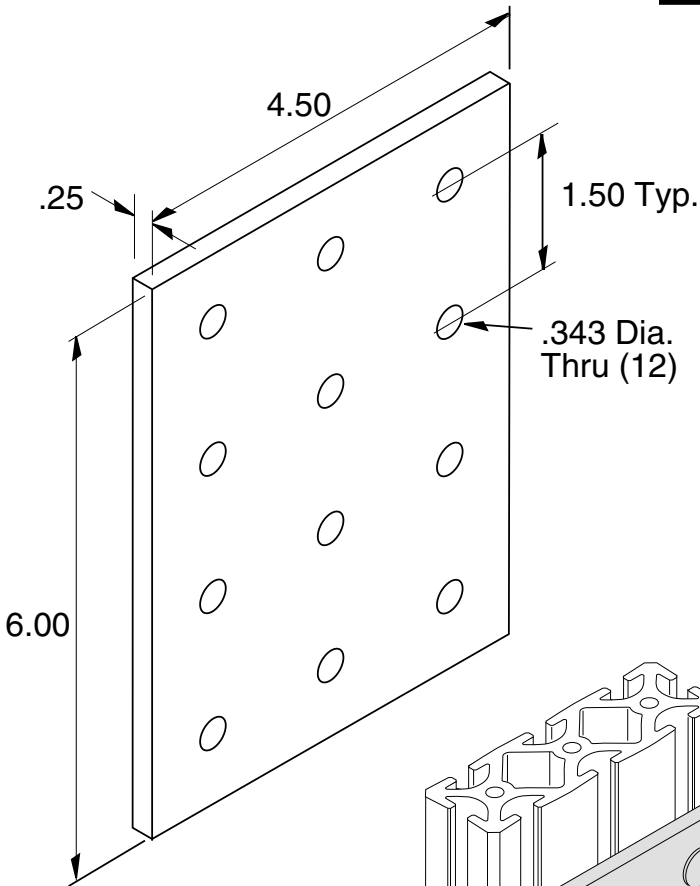


Material - Aluminum
Finish - Clear Anodize

Clear Anodized
Flat Black Powder Coat

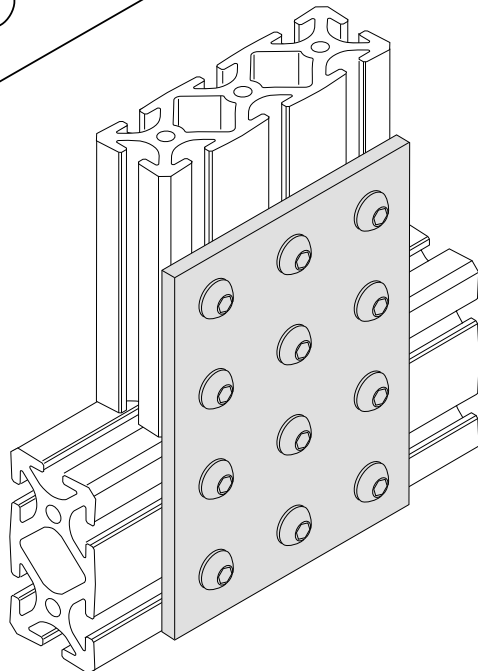
EB-84

BLB-84



5/16" SLOTS

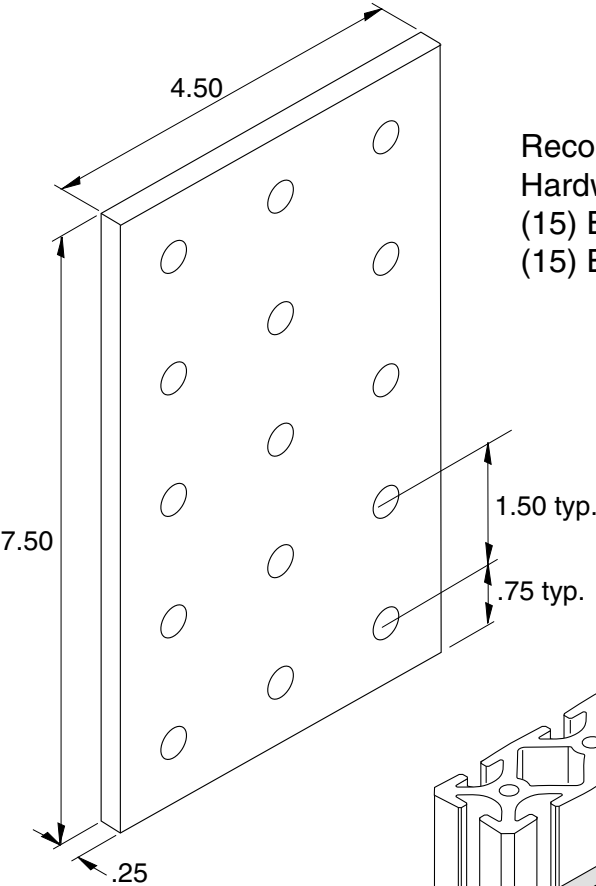
**Recommended
Hardware**
(12) EF-12- .63 BHCS
(12) EF-2 T-nut



Material - Aluminum

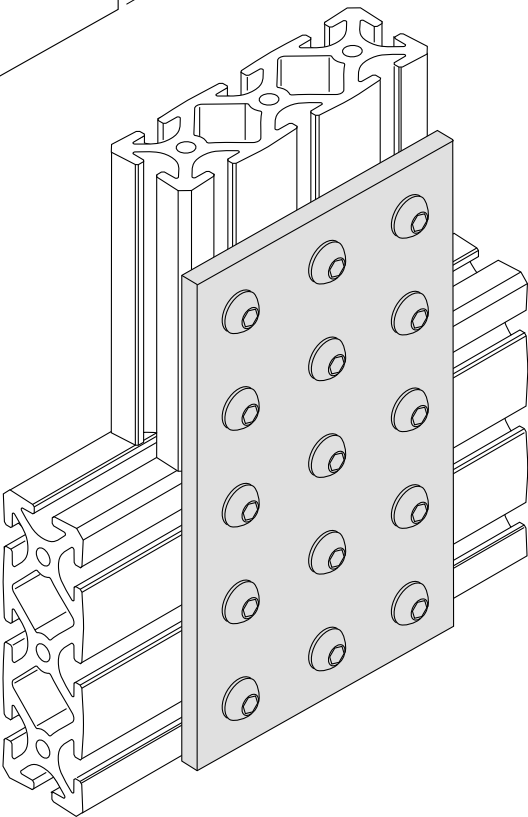
EB-85

5/16" SLOTS



Recommended
Hardware
(15) EF-12-.63 BHCS
(15) EF-2 T-nut

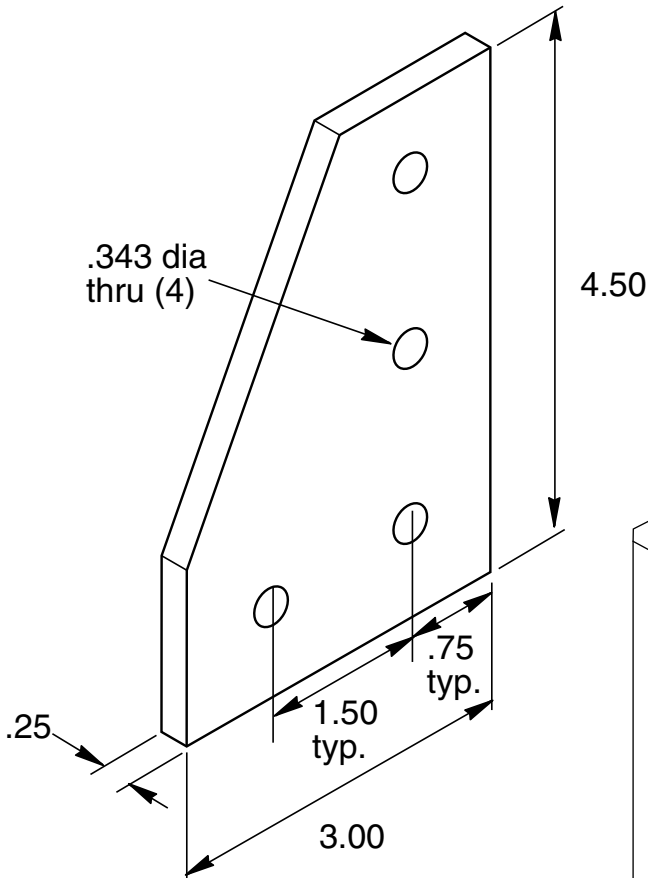
Material - Aluminum
Finish - Clear Anodize



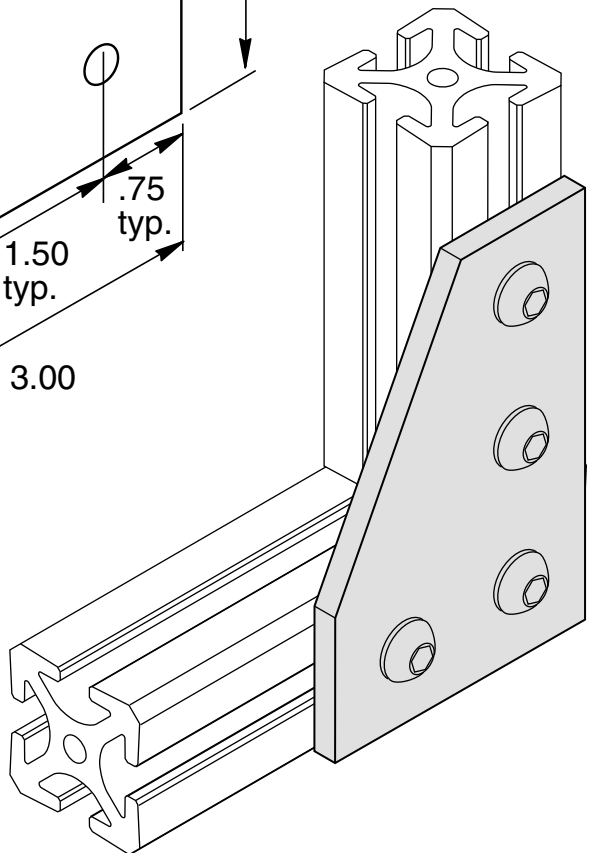
Clear Anodized
Flat Black Powder Coat

EB-79

BLB-79



Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut



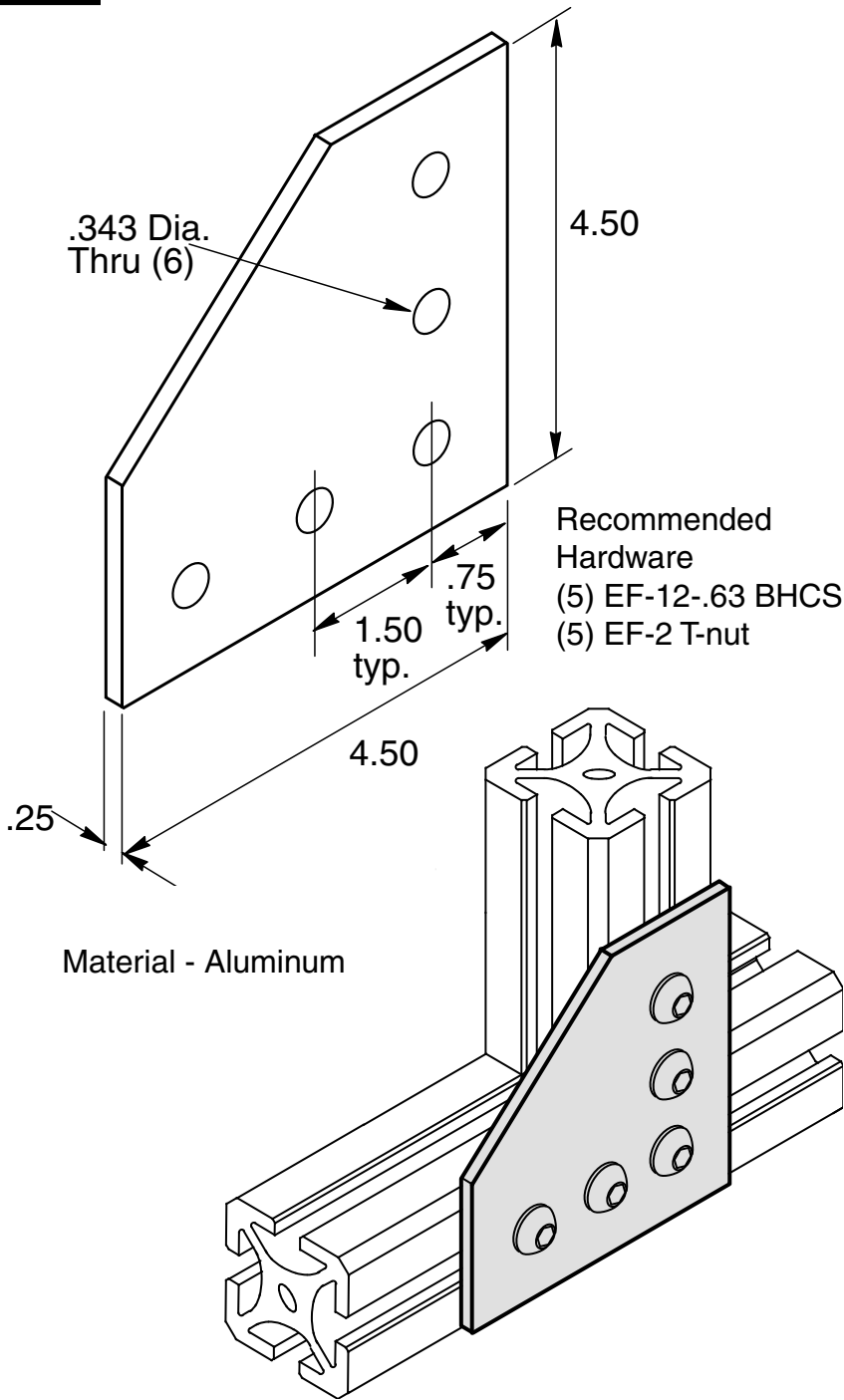
5/16" SLOTS

Material - Aluminum

EB-22
BLB-22

Clear Anodized
Flat Black Powder Coat

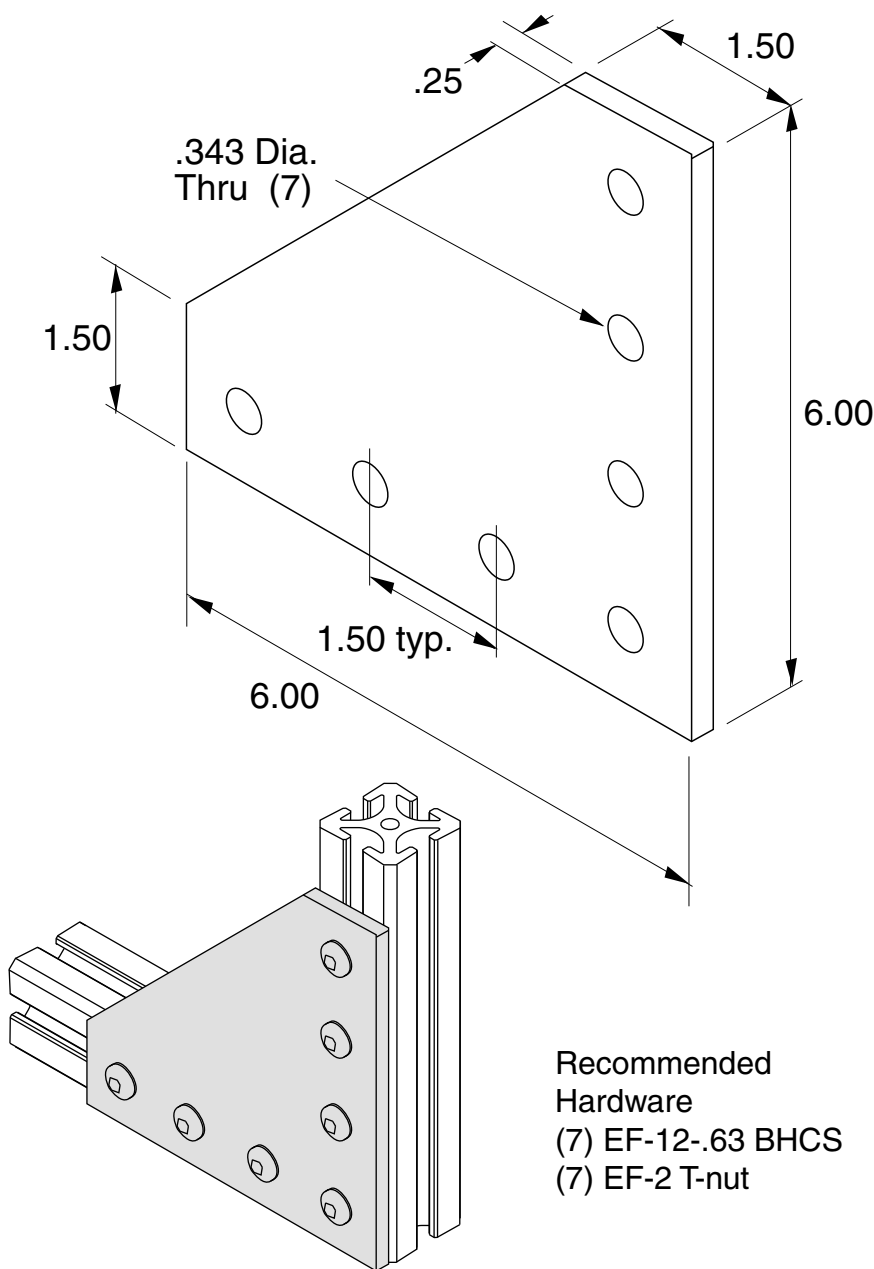
5/16" SLOTS



Clear Anodized
Flat Black Powder Coat

EB-71

BLB-71



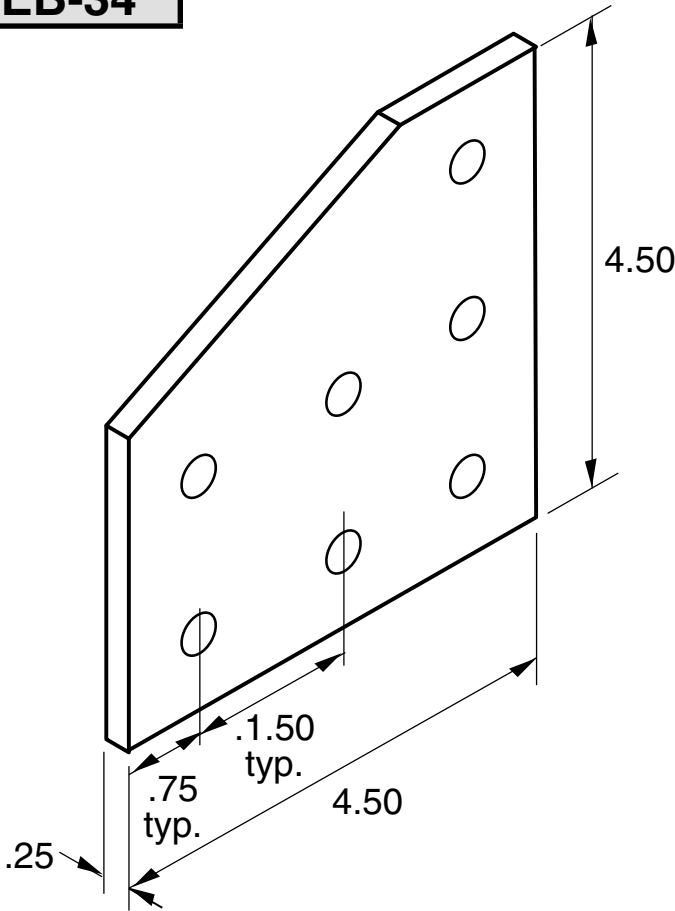
5/16" SLOTS

Recommended
Hardware
(7) EF-12-.63 BHCS
(7) EF-2 T-nut

Material - Aluminum

EB-34

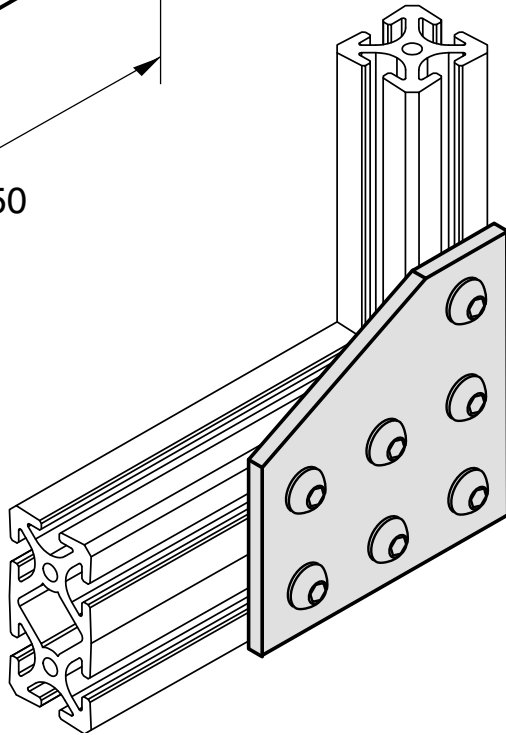
5/16" SLOTS



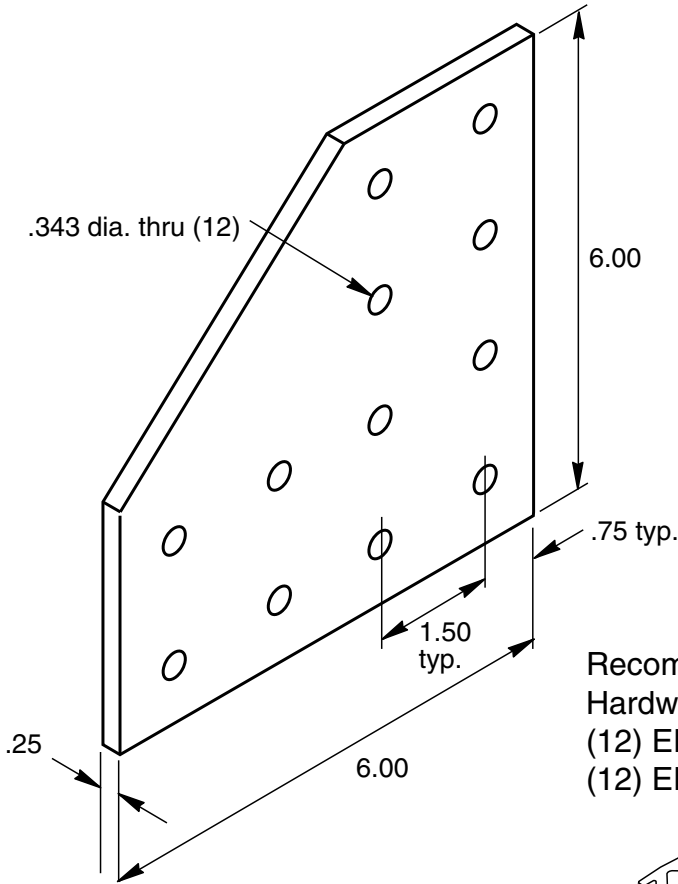
Recommended
Hardware

(7) EF-12-.63 BHCS

(7) EF-2 T-nut

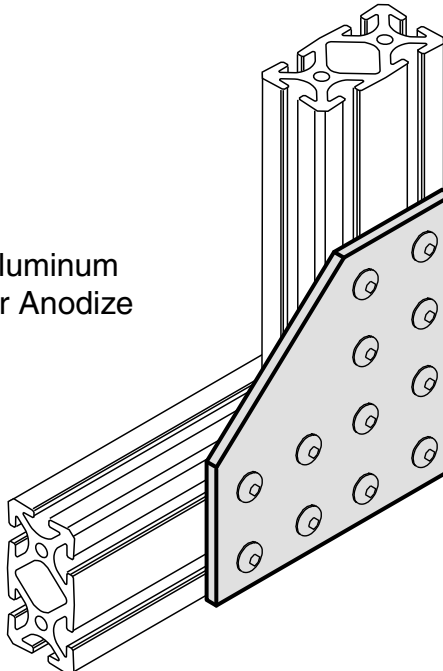


Material - Aluminum
Finish - Clear Anodize



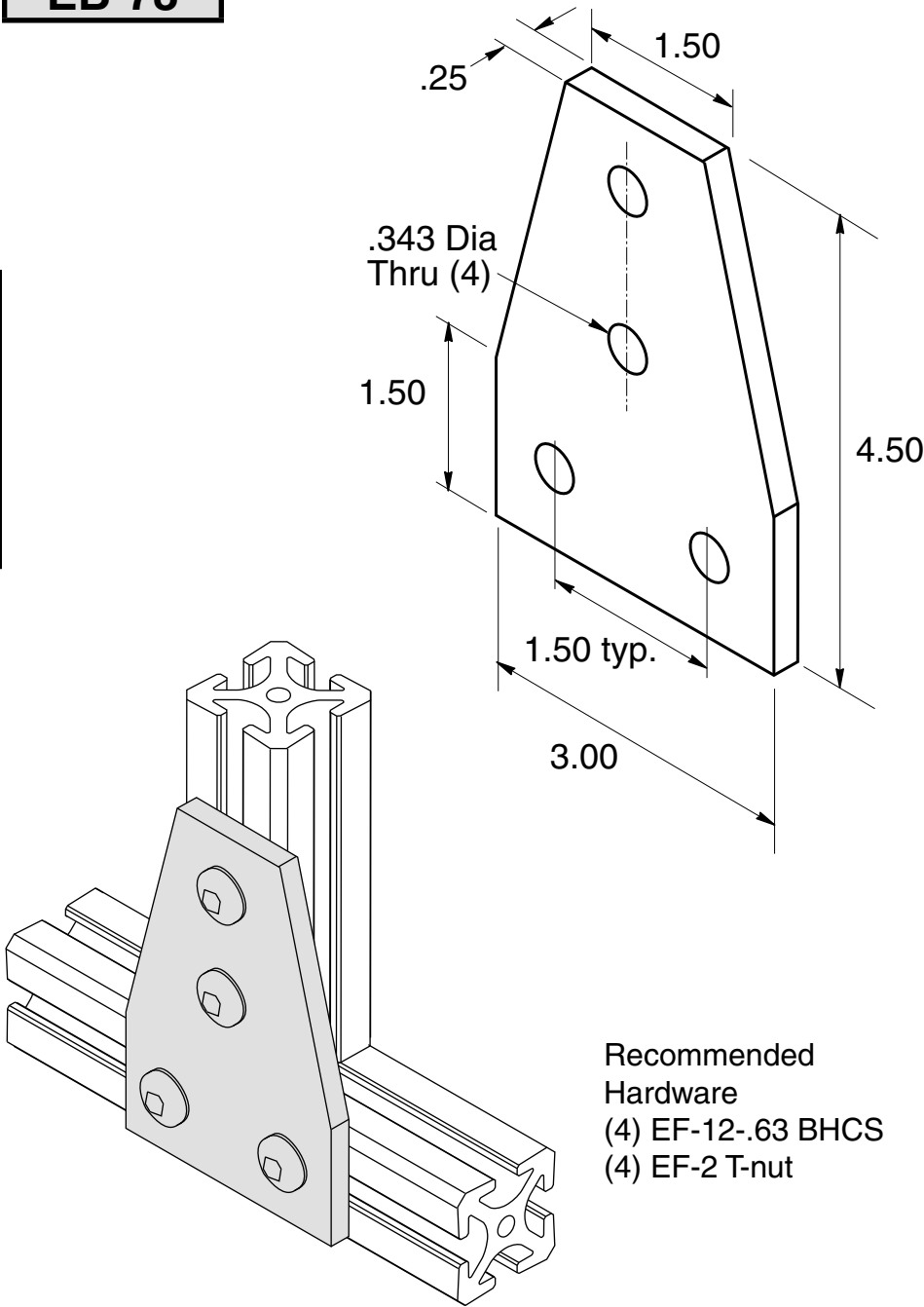
**Recommended
Hardware**
(12) EF-12-.63 BHCS
(12) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



EB-73

5/16" SLOTS



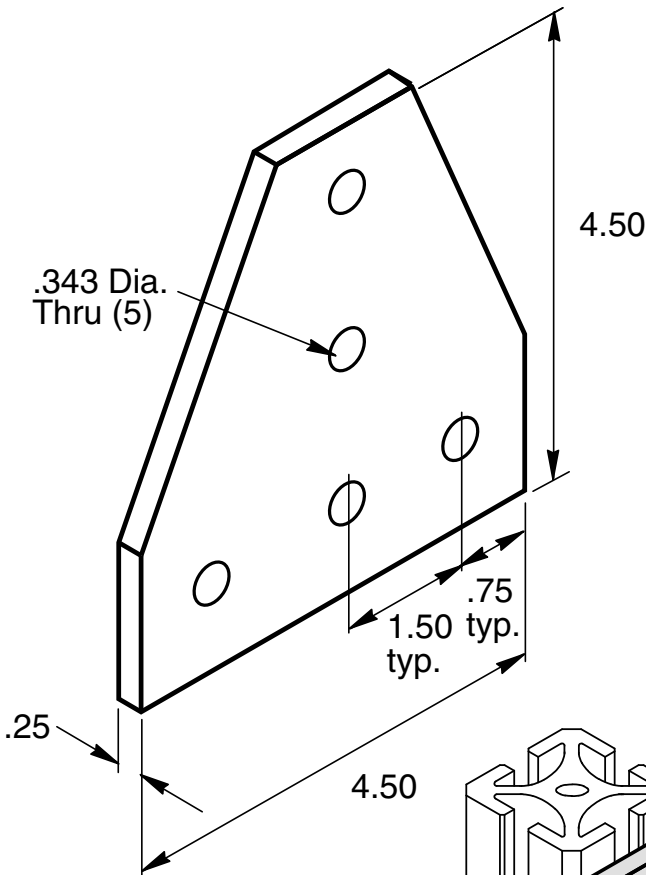
Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

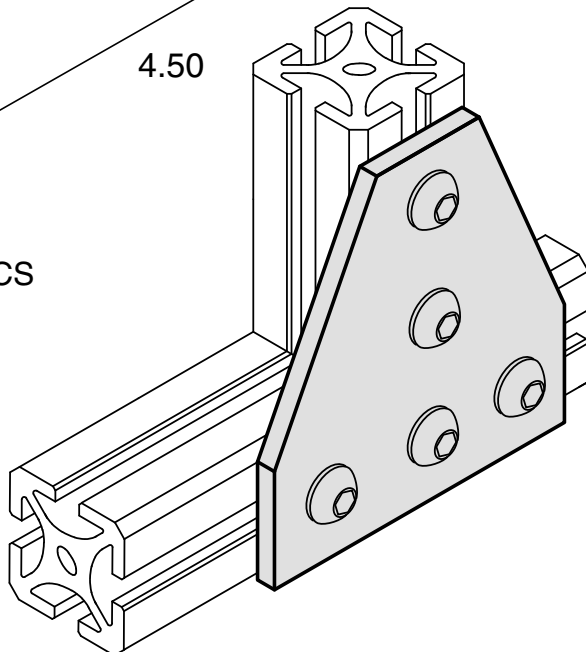
Clear Anodized
Flat Black Powder Coat

EB-23

BLB-23



Recommended
Hardware
(5) EF-12-.63 BHCS
(5) EF-2 T-nut

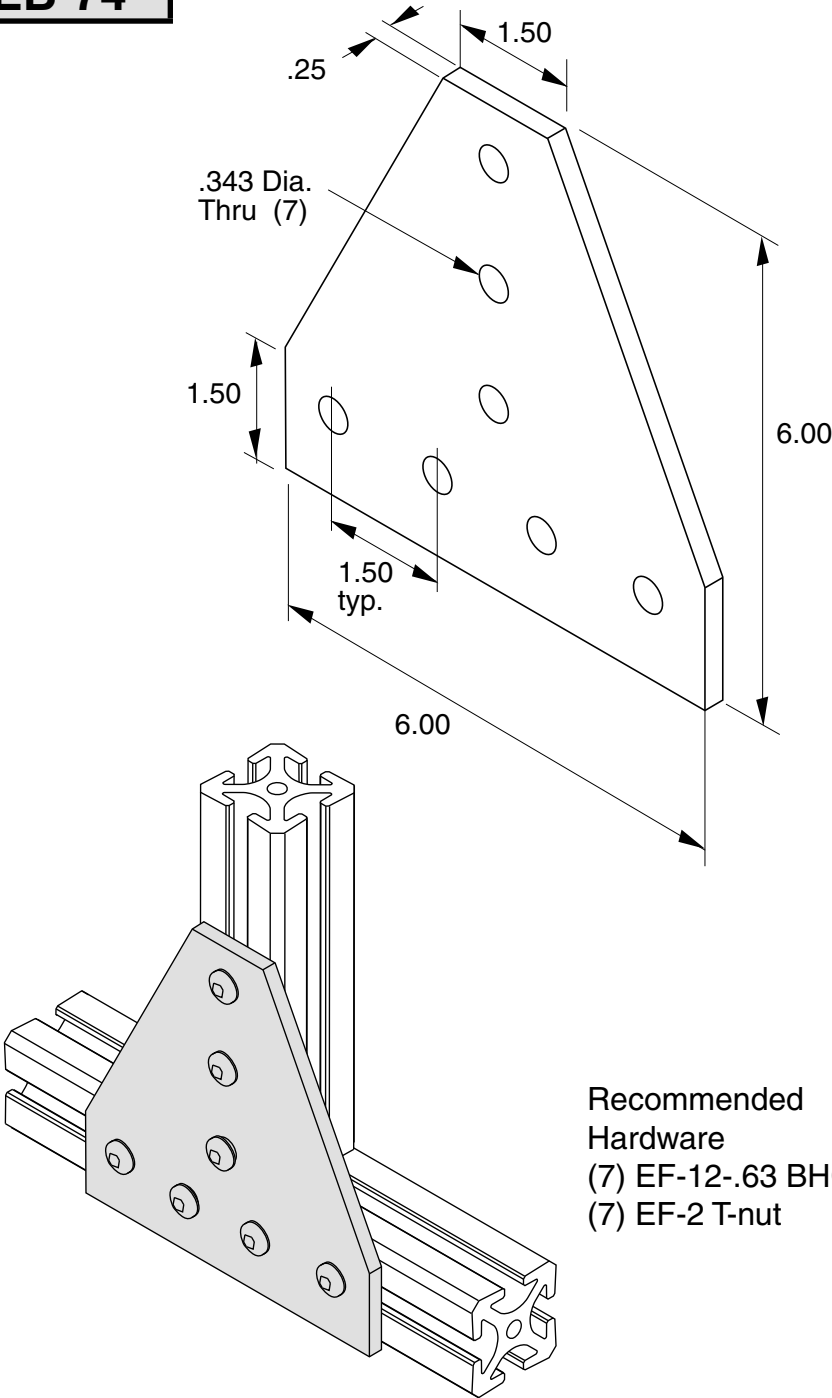


Material - Aluminum

5/16" SLOTS

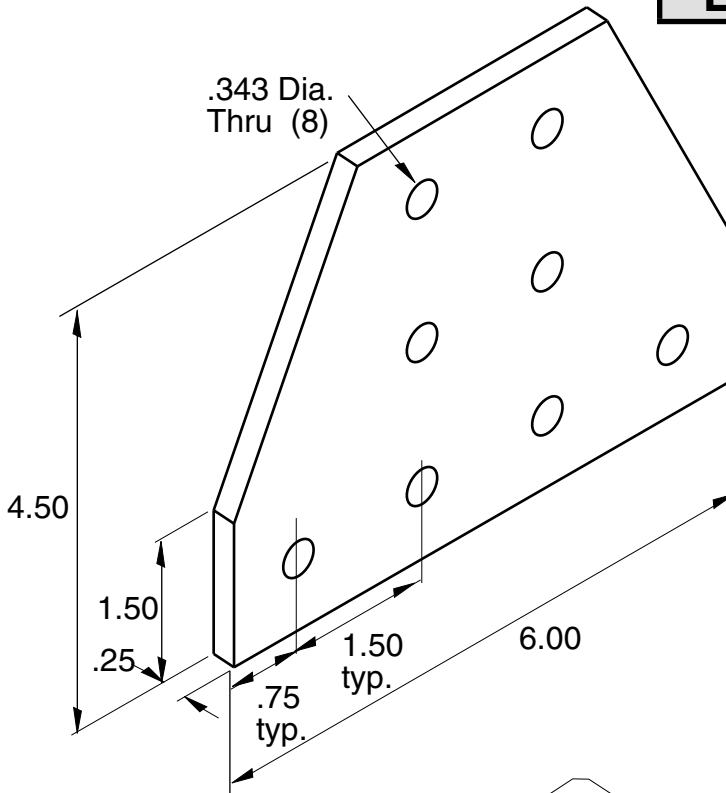
EB-74

5/16" SLOTS



Recommended
Hardware
(7) EF-12-.63 BHCS
(7) EF-2 T-nut

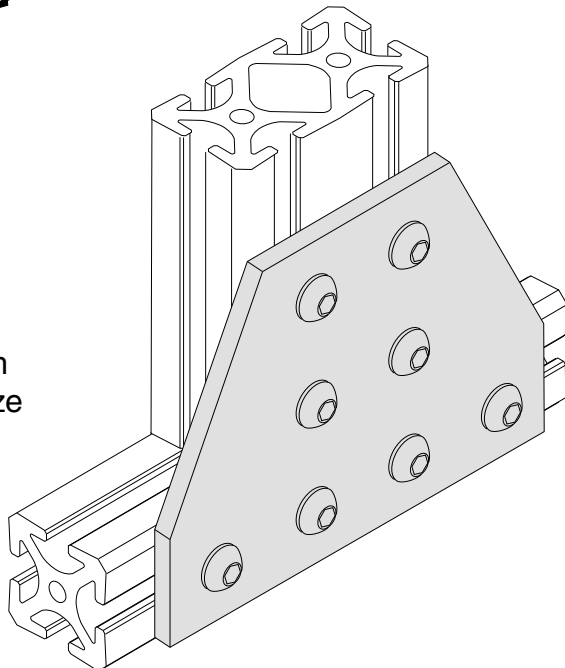
Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS

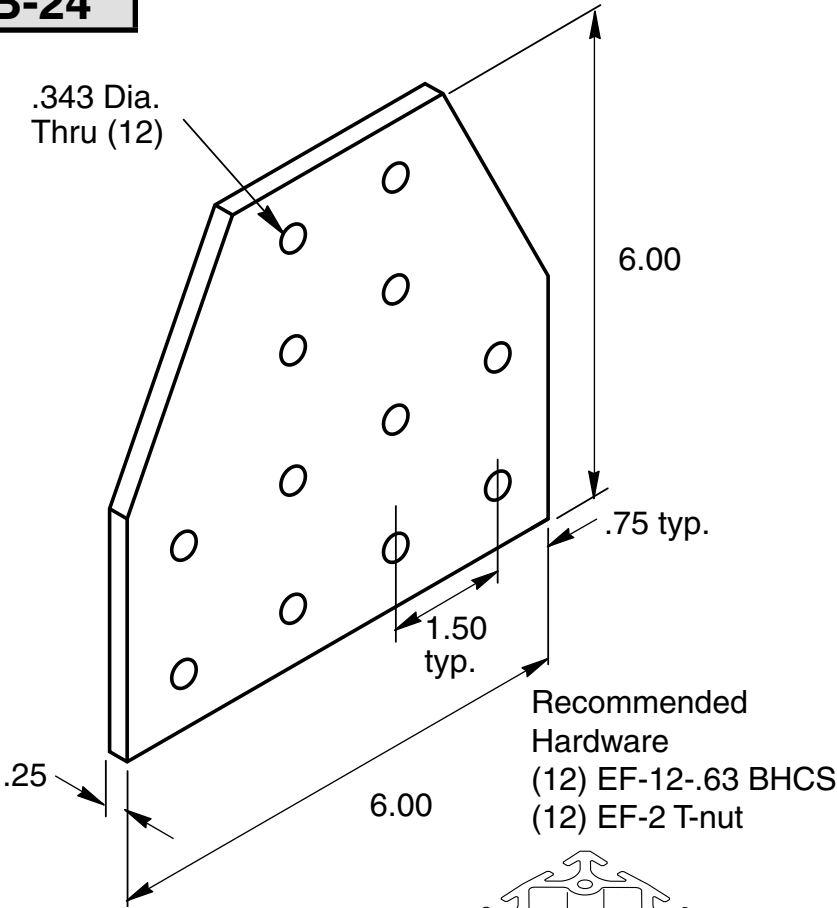
**Recommended
Hardware**
(8) EF-12-.63 BHCS
(8) EF-2 T-nut

**Material - Aluminum
Finish - Clear Anodize**

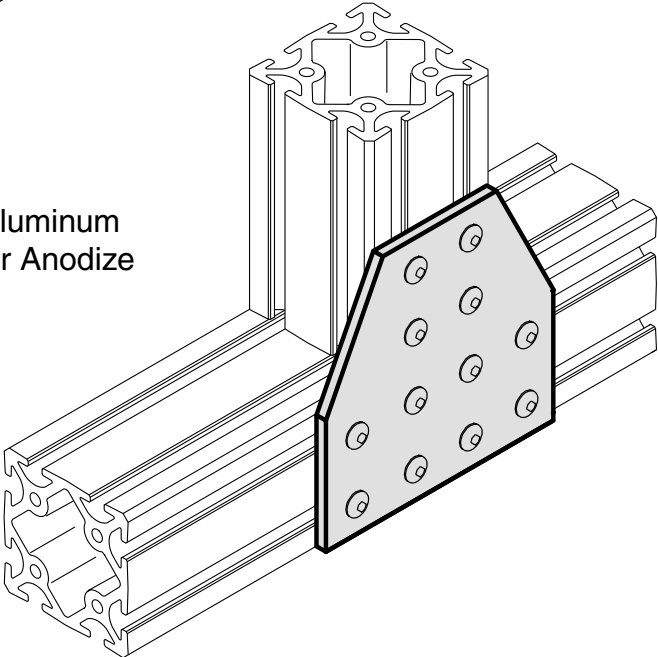


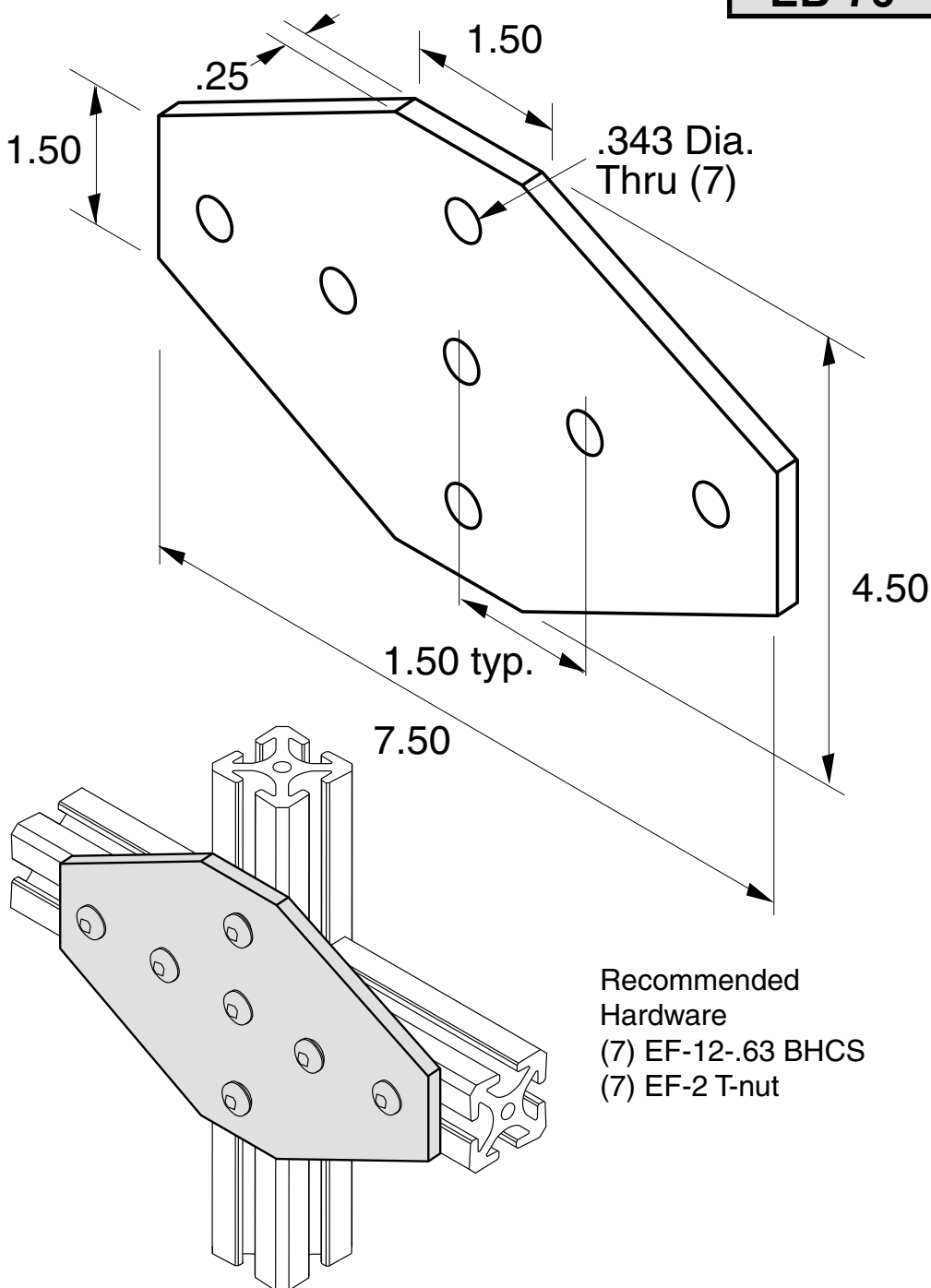
EB-24

5/16" SLOTS



Material - Aluminum
Finish - Clear Anodize

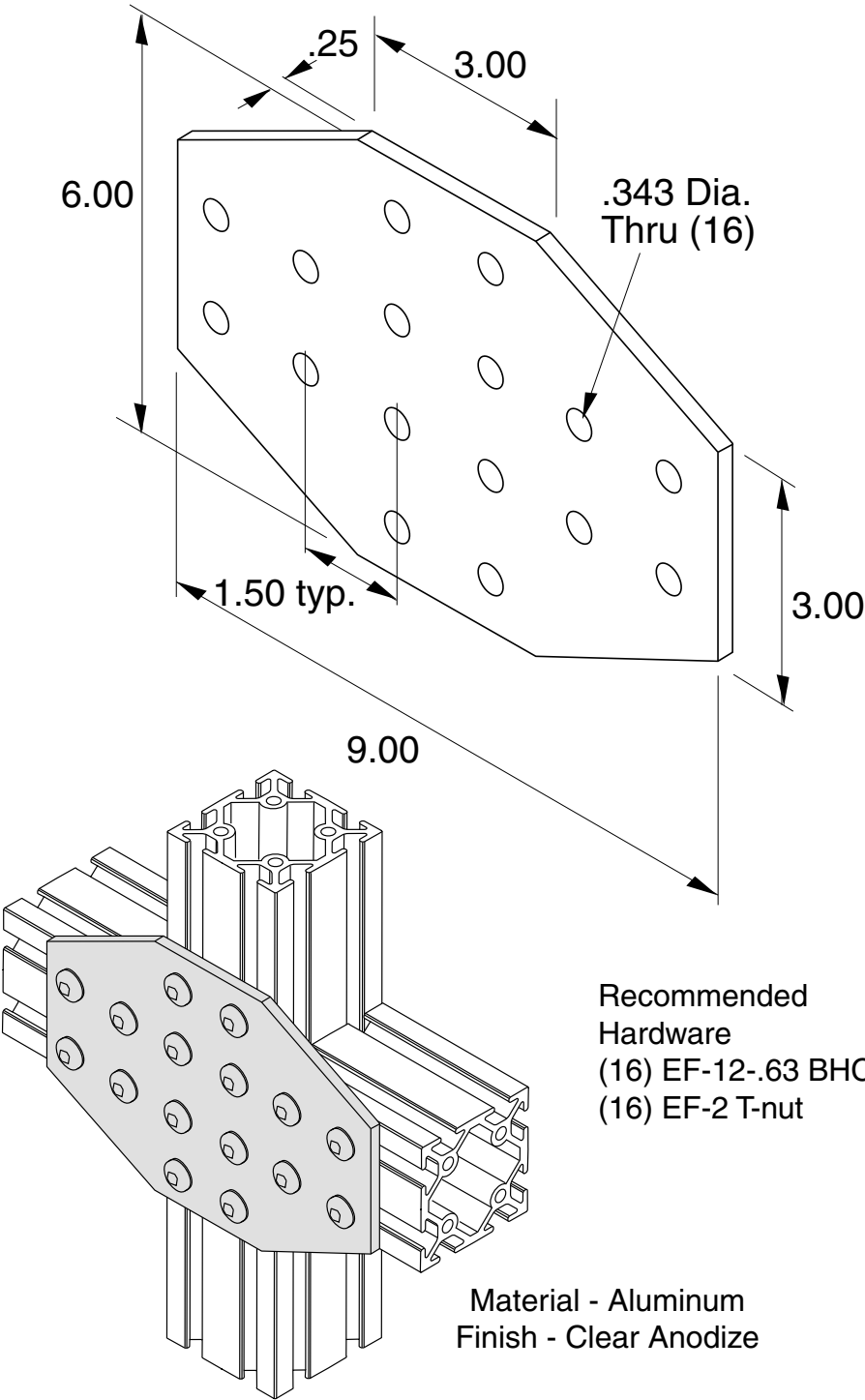


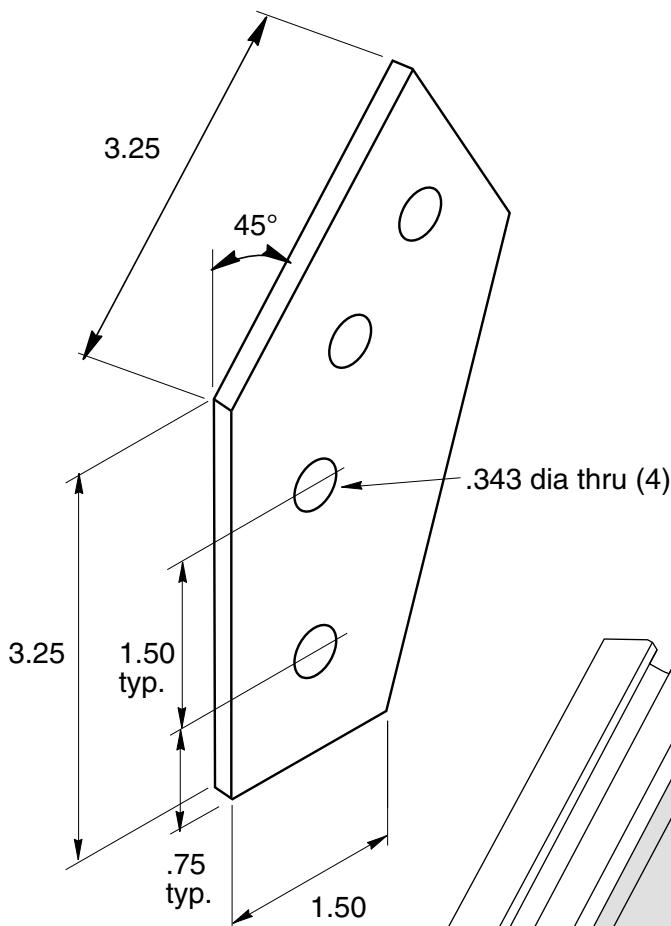


Material - Aluminum
Finish - Clear Anodize

EB-78

5/16" SLOTS





**Recommended
Hardware**
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

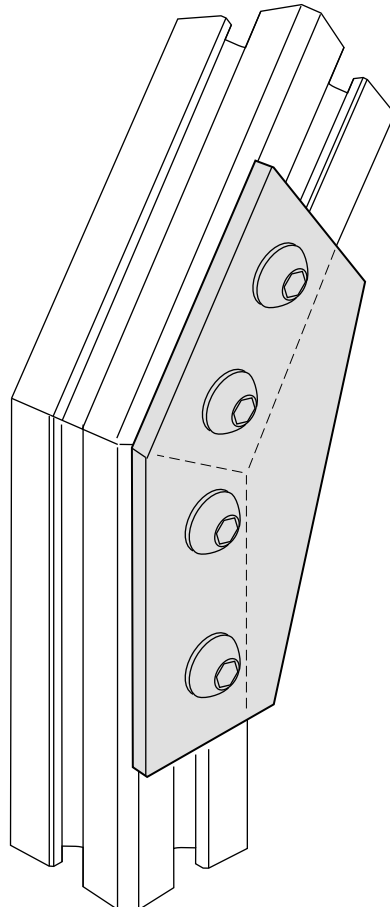
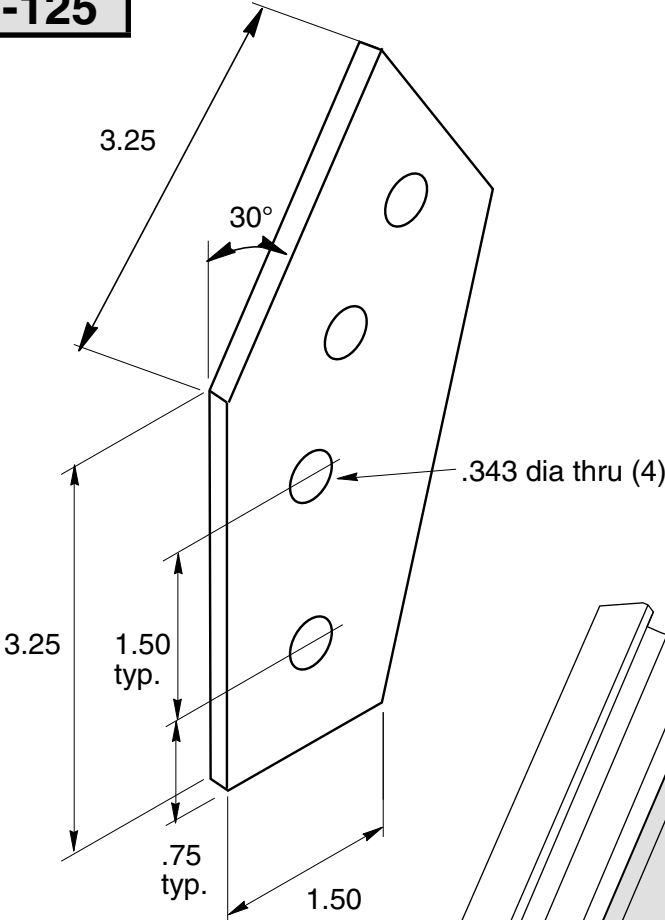
5/16" SLOTS

30° Joining Plate



EB-125

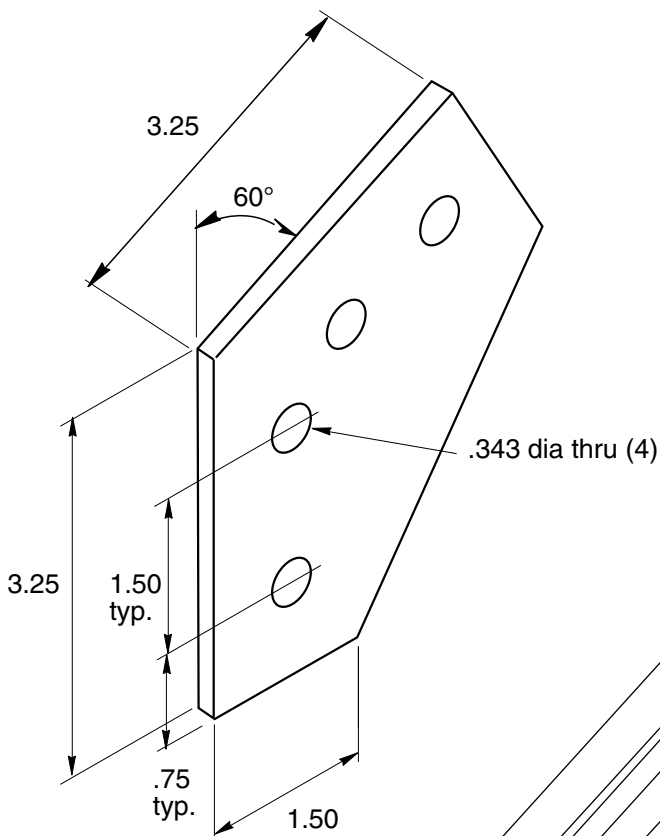
5/16" SLOTS



Recommended Hardware

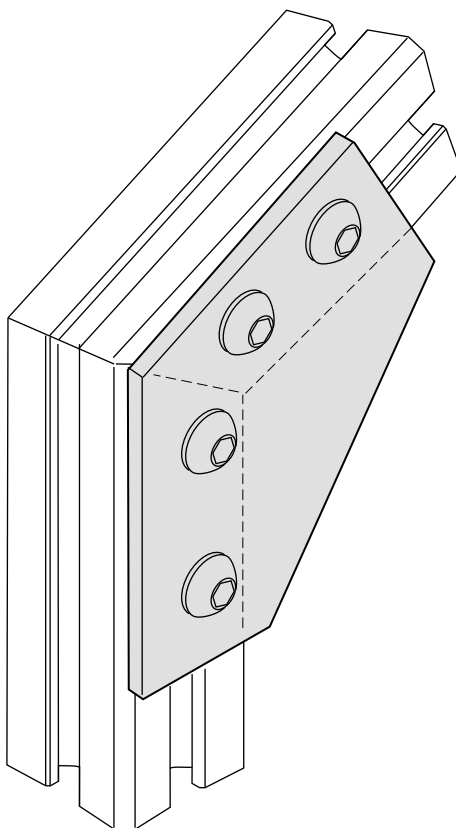
- (4) EF-12-.63 BHCS
- (4) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



**Recommended
Hardware**
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

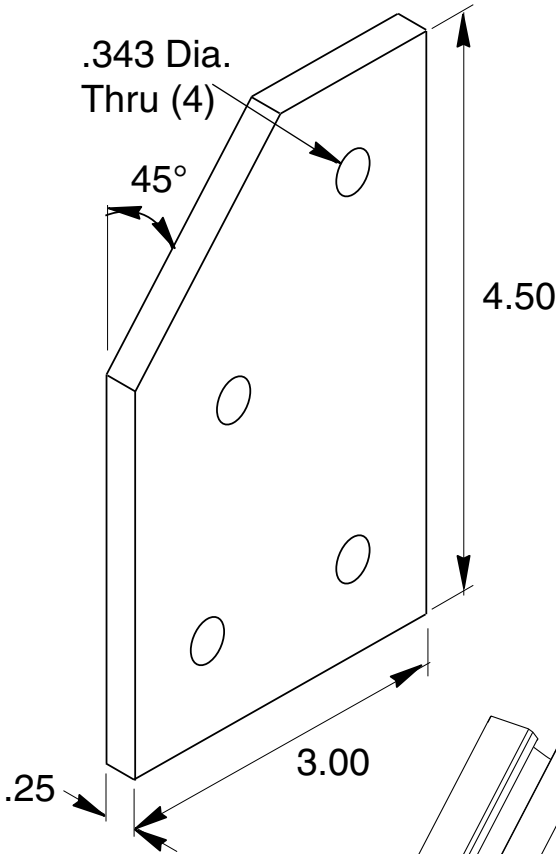
**Material - Aluminum
Finish - Clear Anodize**



5/16" SLOTS

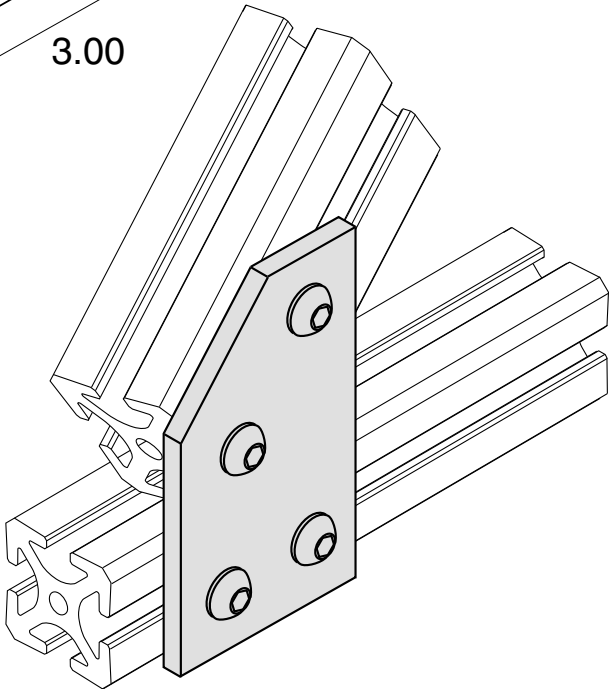
EB-127

5/16" SLOTS

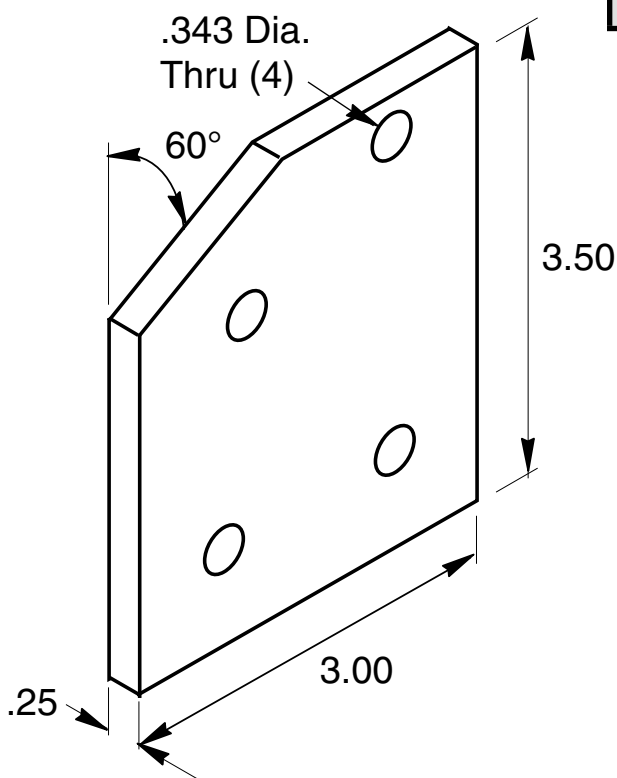


Recommended
Hardware

- (4) EF-12-.63 BHCS
- (4) EF-2 T-nut

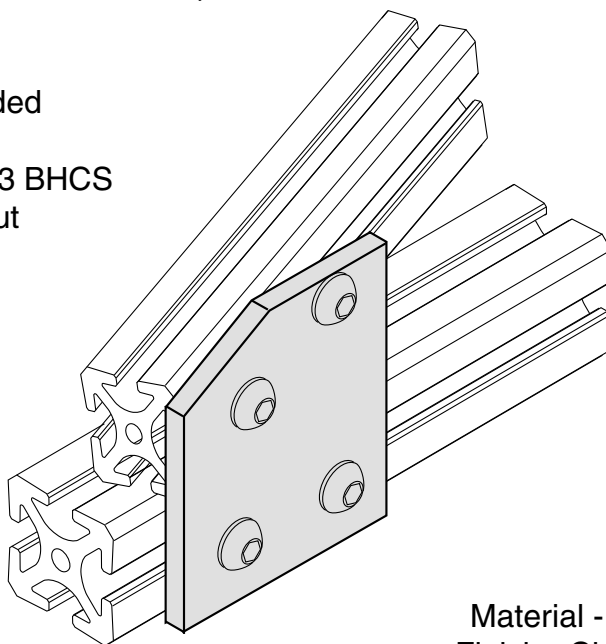


Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS

Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut



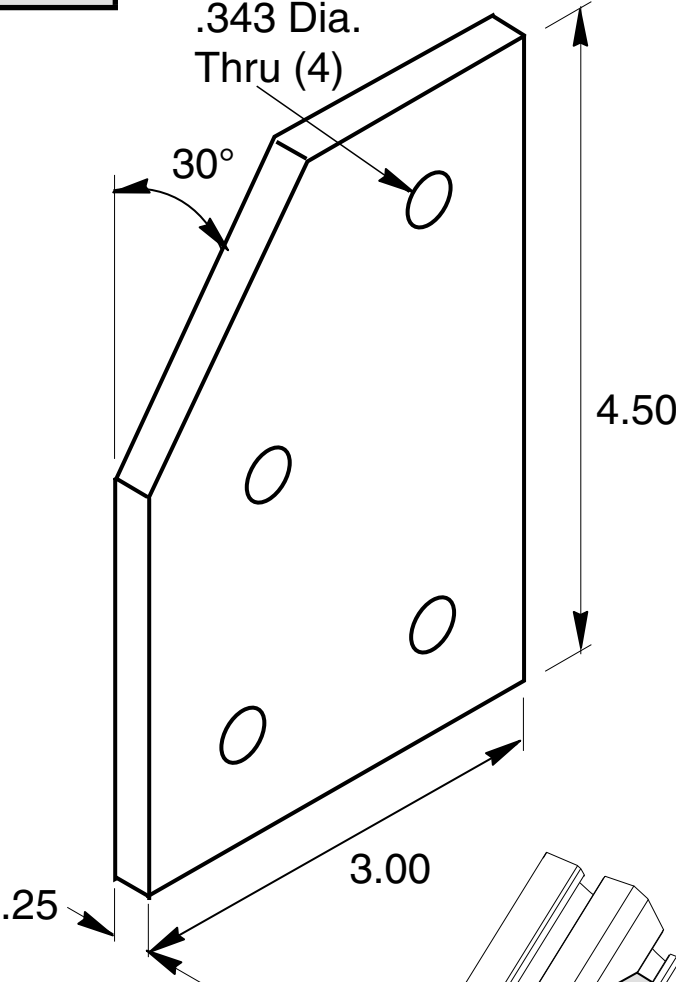
Material - Aluminum
Finish - Clear Anodize

30° Joining Plate

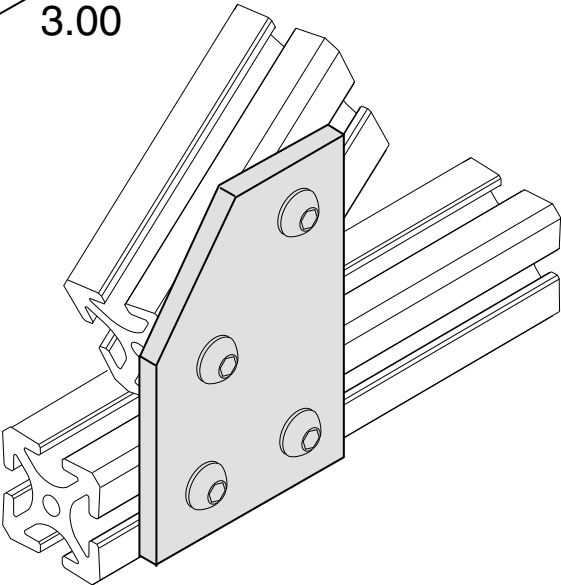


EB-129

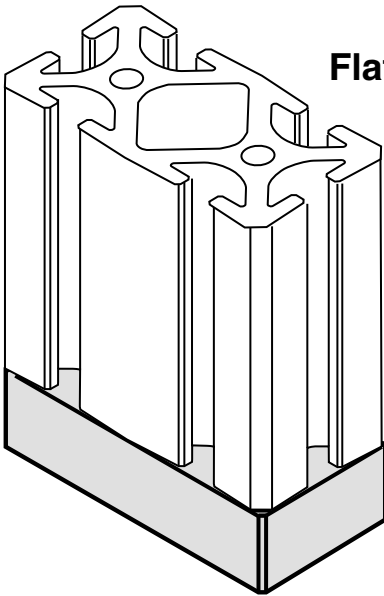
5/16" SLOTS



Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut



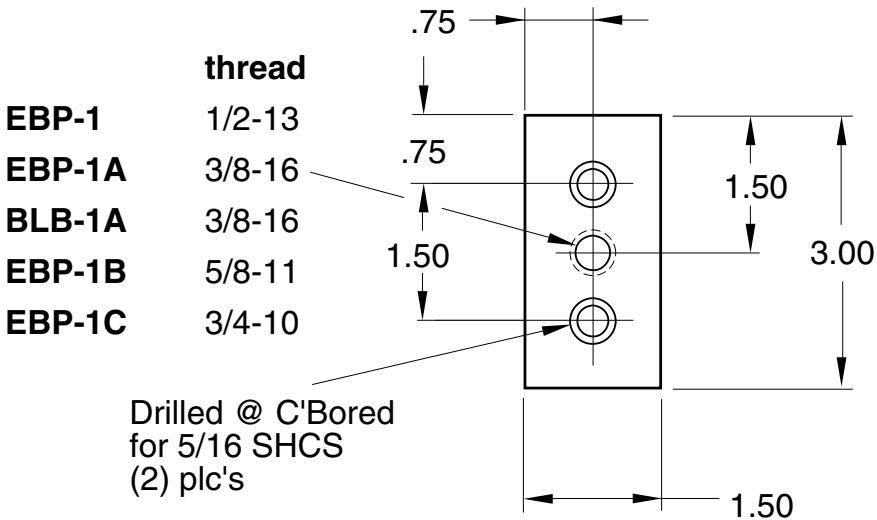
Material - Aluminum
Finish - Clear Anodize



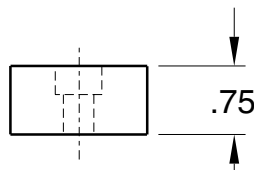
Clear Anodized
Clear Anodized
Flat Black Powder Coat
Clear Anodized
Clear Anodized

EBP-1
EBP-1A
BLB-1A
EBP-1B
EBP-1C

5/16" SLOTS



Requires
(2) EF-11-1.0 SHCS



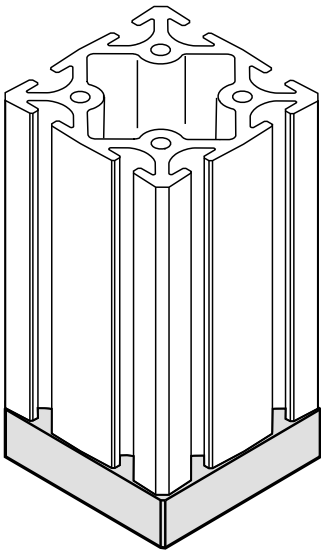
Material - Aluminum

Leveling Plate



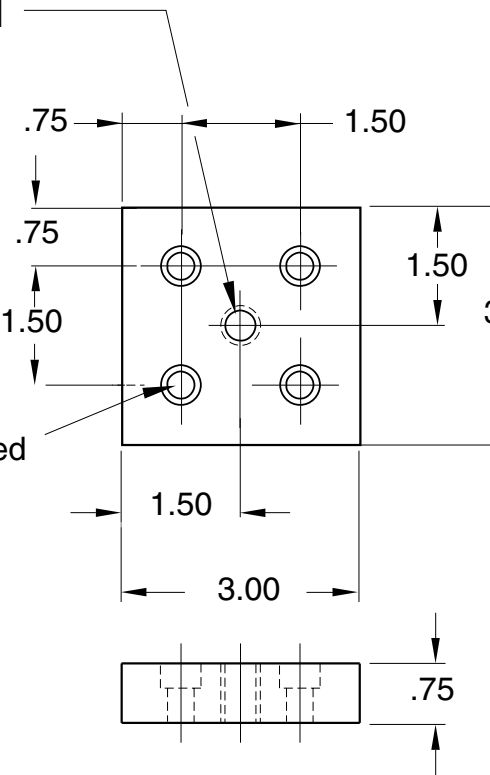
EBP-2
EBP-2A
EBP-2B
EBP-2C

5/16" SLOTS



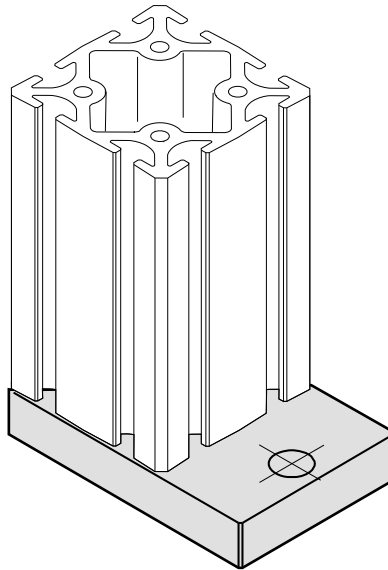
	thread
EBP-2	1/2-13
EBP-2A	3/8-16
EBP-2B	5/8-11
EBP-2C	3/4-10

Drilled @ C'Bored
for 5/16 SHCS
(4) plc's



Requires
(4) EF-11-1.0 SHCS

Material - Aluminum
Finish - Clear Anodize



EBP-3

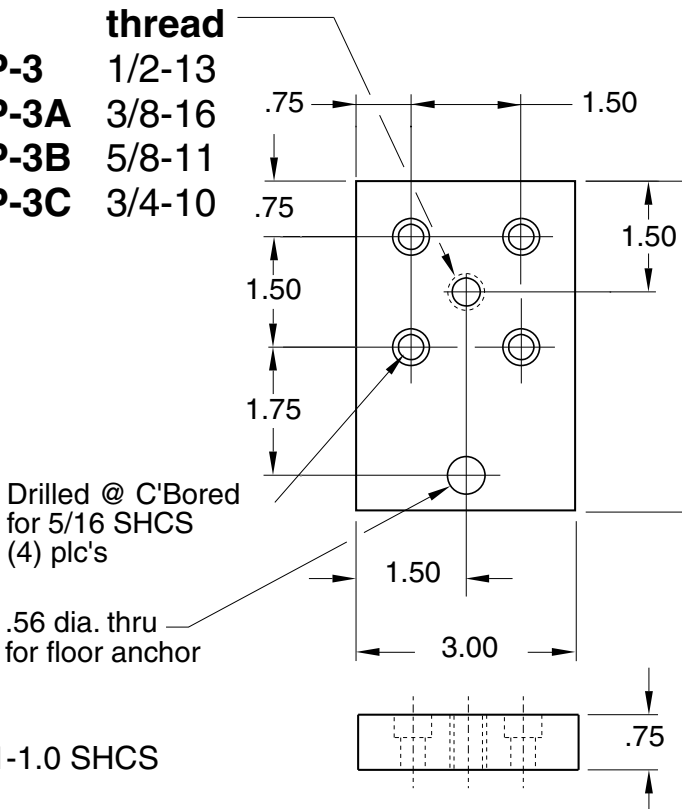
EBP-3A

EBP-3B

EBP-3C

5/16" SLOTS

EBP-3	thread 1/2-13
EBP-3A	3/8-16
EBP-3B	5/8-11
EBP-3C	3/4-10



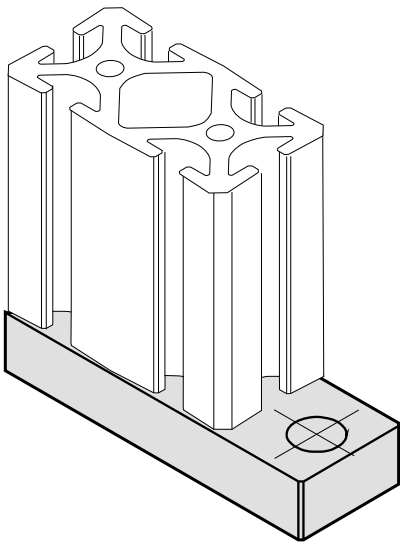
Requires
(4) EF-11-1.0 SHCS

Material - Aluminum
Finish - Clear Anodize

Leveling Anchor Plate



EBP-4
EBP-4A
EBP-4B
EBP-4C

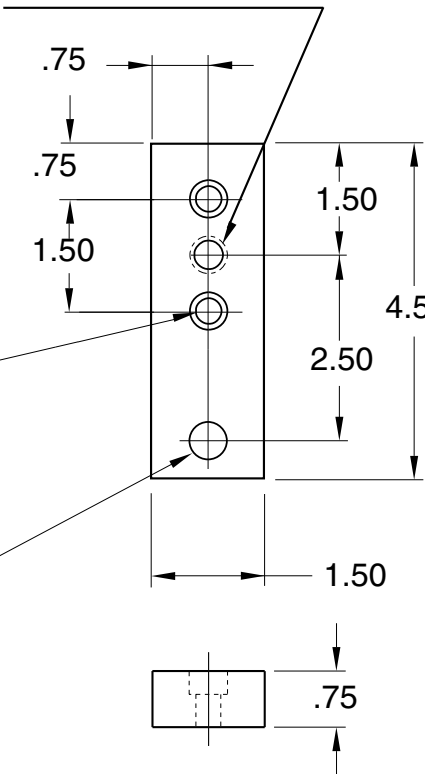


5/16" SLOTS

	thread
EBP-4	1/2-13
EBP-4A	3/8-16
EBP-4B	5/8-11
EBP-4C	3/4-10

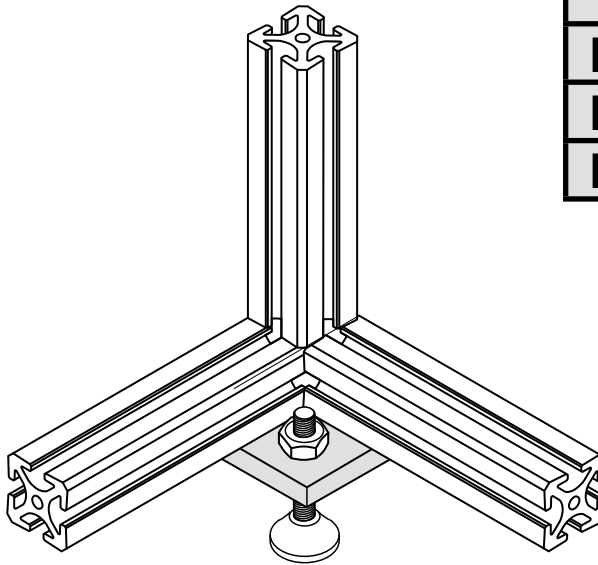
Drilled @ C'Bored
for 5/16 SHCS
(2) plc's

.56 dia. thru
for floor anchor



Requires
(2) EF-11-1.0 SHCS

Material - Aluminum
Finish - Clear Anodize



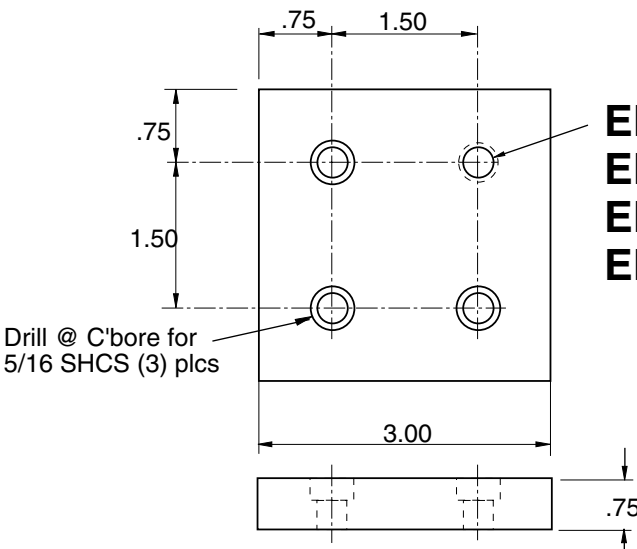
EBP-6

EBP-6A

EBP-6B

EBP-6C

5/16" SLOTS



thread

EBP-6 1/2-13

EBP-6A 3/8-16

EBP-6B 5/8-11

EBP-6C 3/4-10

Requires

(3) EF-11-.875 SHCS

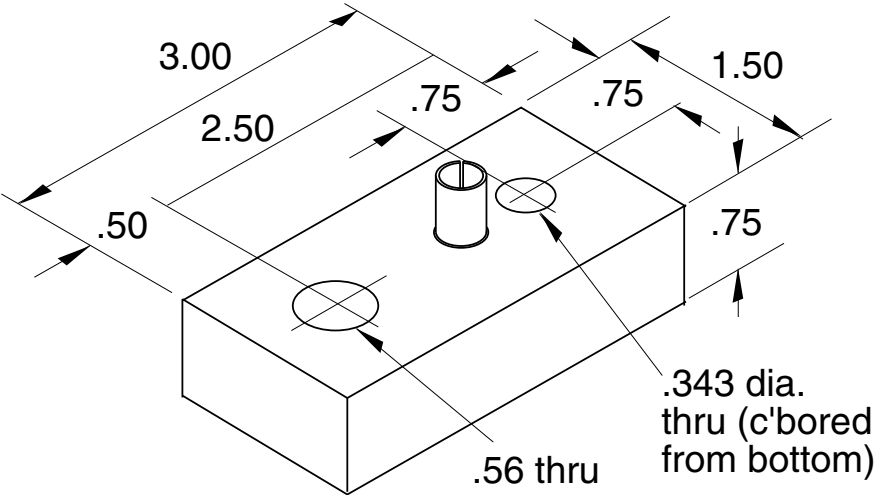
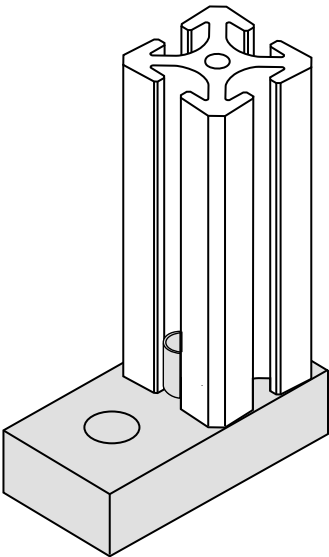
(3) EF-2 T-nut

Material - Aluminum

Finish - Clear Anodize

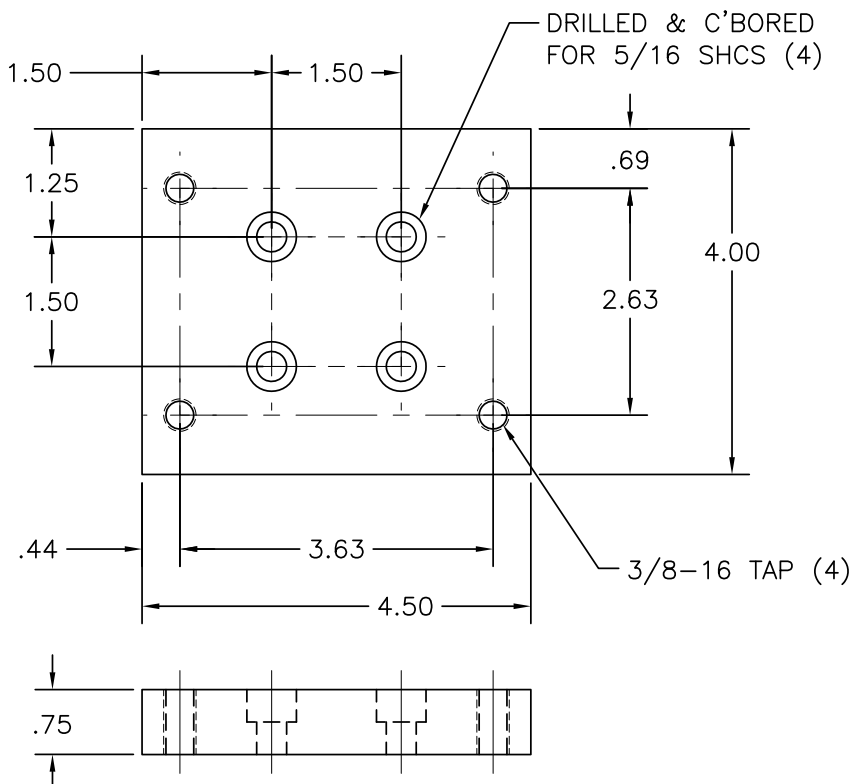
EBP-8

5/16" SLOTS

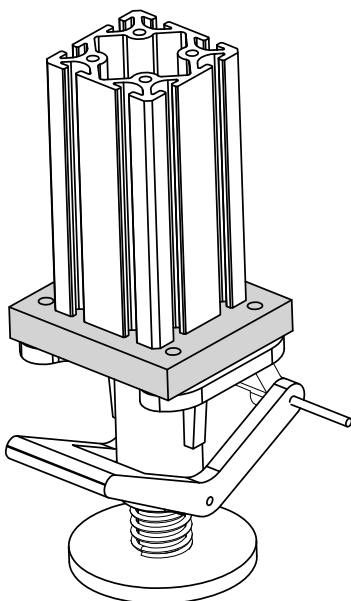


Requires
(1) EF-11-1.0 SHCS

Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS



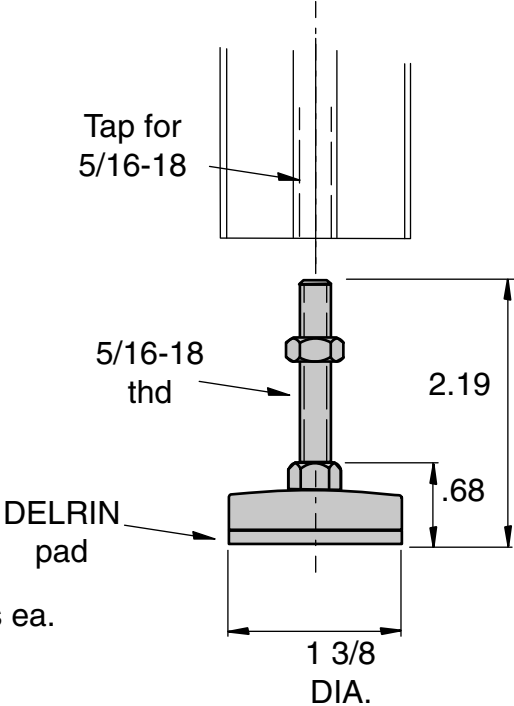
**Recommended
Hardware**
(4) EF-11.75
(4) EF-1

**Material - Steel
Finish - Zinc Coated**

EAL

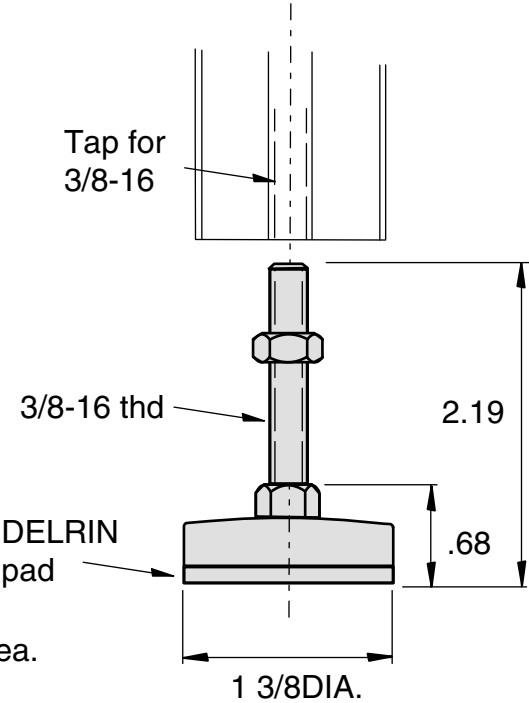
EAL-1

5/16" SLOTS



Max load = 250 lbs ea.

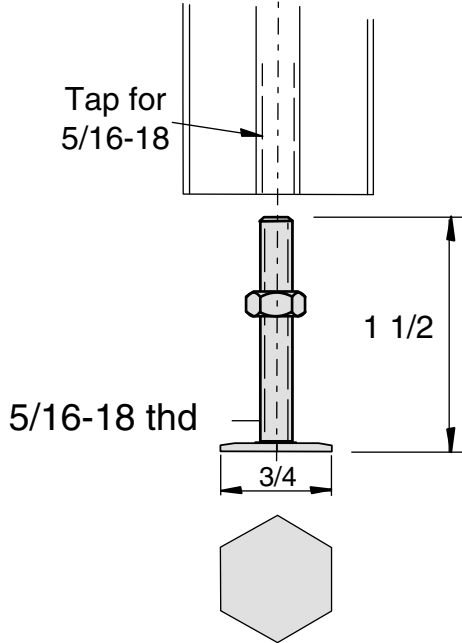
EAL-2



Max load = 400 lbs ea.

EAL-E1

Max load = 1700 lbs ea.

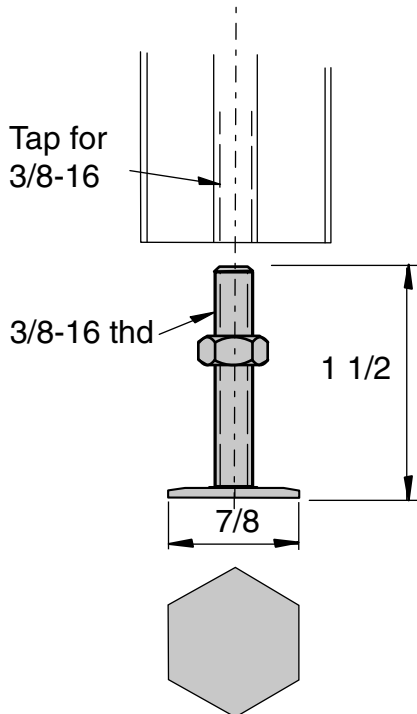


Material - Steel
Finish - Zinc Plated

5/16" SLOTS

EAL-E2

Max load = 1700 lbs ea.



Material - Steel
Finish - Zinc Plated

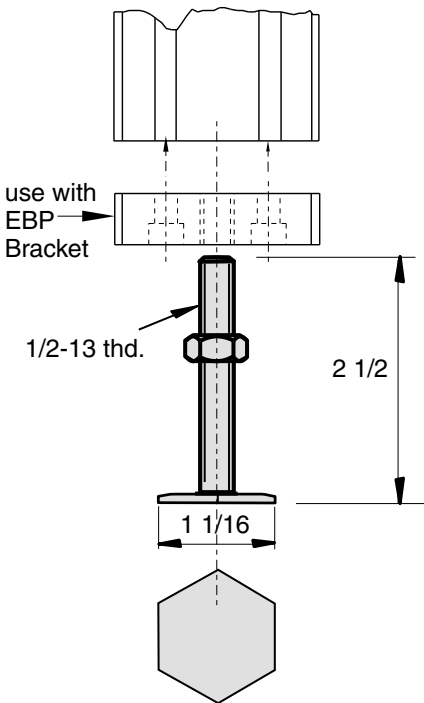
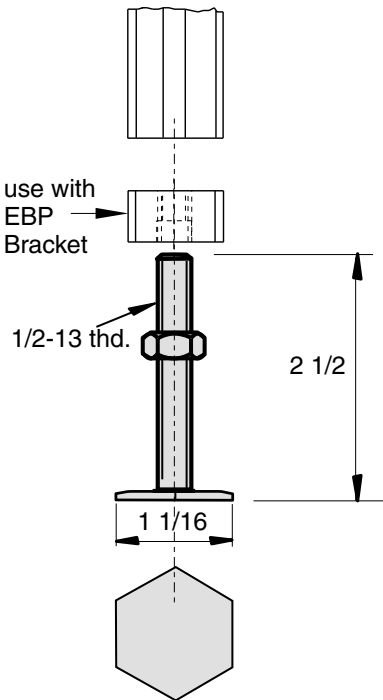
Adjustable Leg (Economy)



EAL-E

EAL-E3

5/16" SLOTS



Max load = 4200 lbs ea.

Material - Steel
Finish - Zinc Plated

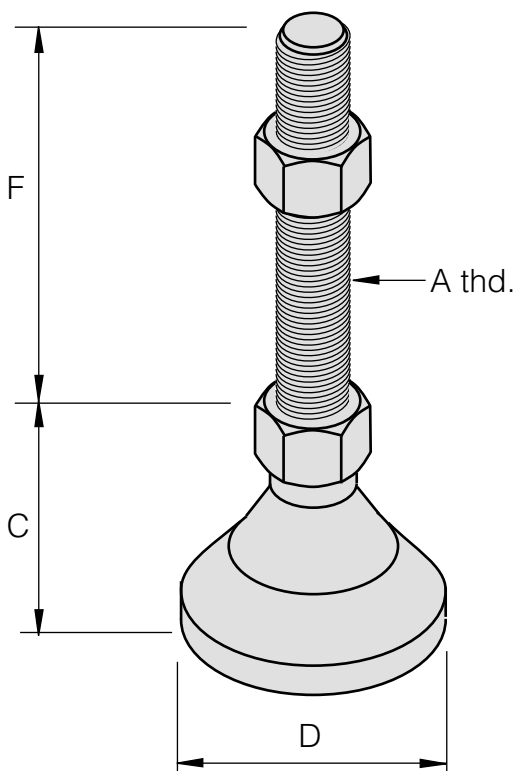
EAL-3

EAL-4

EAL-5

EAL-6

EAL-10



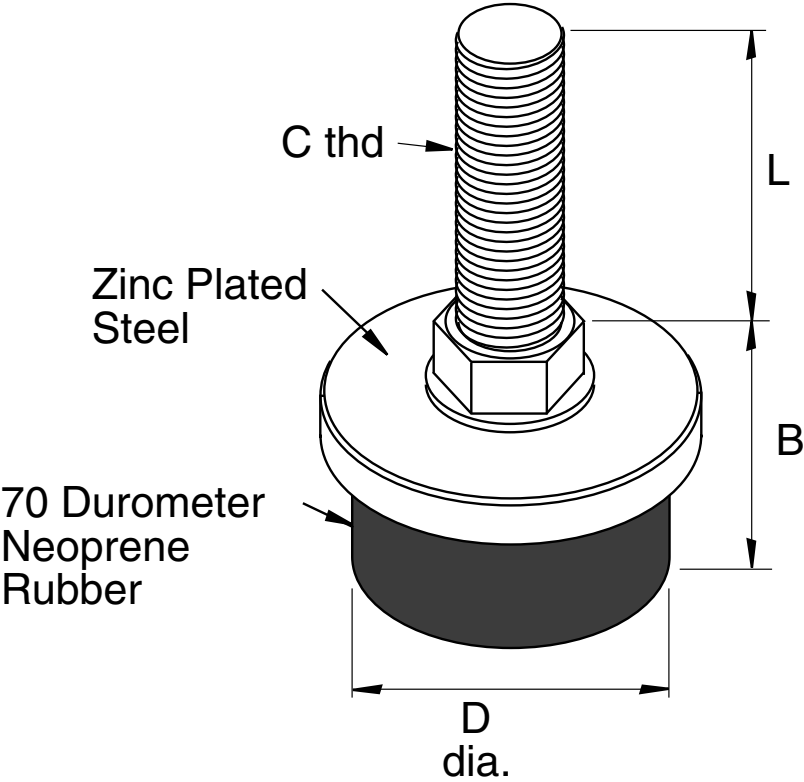
5/16" SLOTS

Part No	Max (lbs) Work Load	A	C	D	F
EAL-4	3750	$\frac{3}{8}$ -16	$\frac{7}{8}$	$1\frac{1}{4}$	2
EAL-3	5000	$\frac{1}{2}$ -13	$1\frac{1}{8}$	$1\frac{7}{8}$	2
EAL-5	6000	$\frac{5}{8}$ -11	$1\frac{1}{4}$	$2\frac{1}{2}$	2
EAL-6	7200	$\frac{3}{4}$ -10	$1\frac{1}{2}$	3	2
EAL-10	2300	$\frac{5}{16}$ -18	1.25	$1\frac{1}{4}$	2

Material - Steel
Finish - Yellow Zinc Plate

EAL-7
EAL-8
EAL-9

5/16" SLOTS

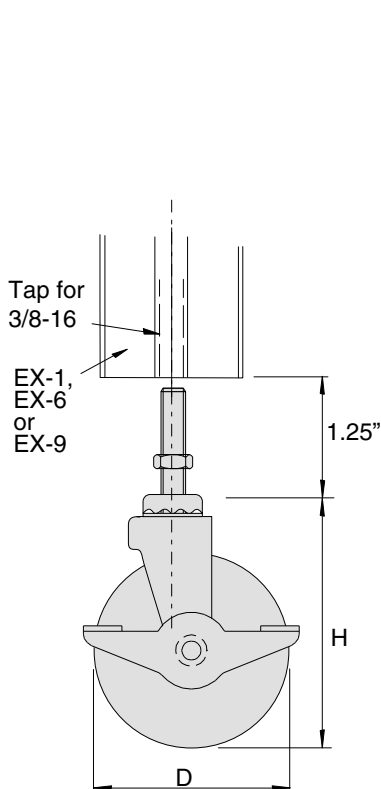


Part No	Max (lbs) Work Load	C Thd Size	D	B	L
EAL-7	100	$\frac{5}{16}$ -18	1.0	$\frac{13}{16}$	$1\frac{1}{4}$
EAL-8	300	$\frac{3}{8}$ -16	1.5	$\frac{63}{64}$	3.0
EAL-9	300	$\frac{1}{2}$ -13	1.5	$1\frac{1}{16}$	2.0

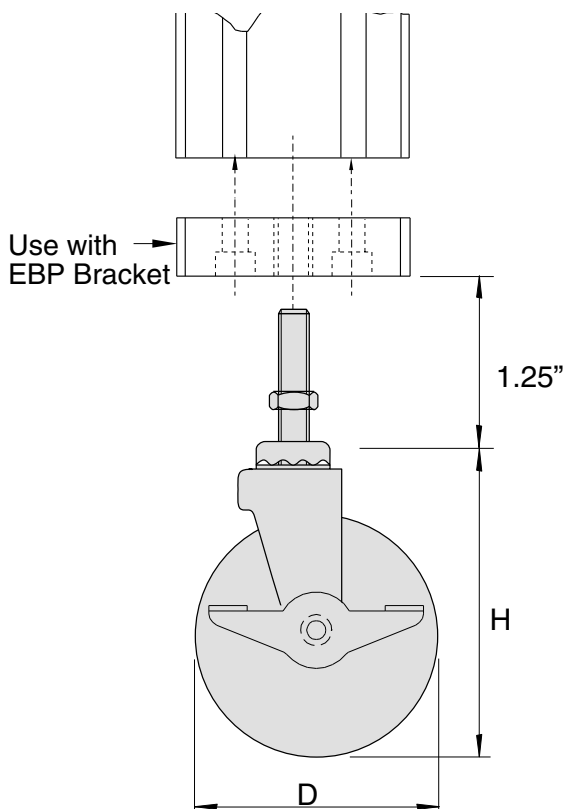
EC-S1

EC-S2

EC-S3



EC-S1
EC-S2



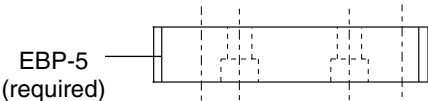
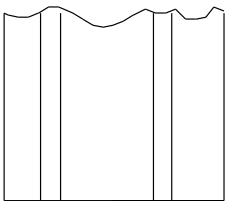
EC-S3

5/16" SLOTS

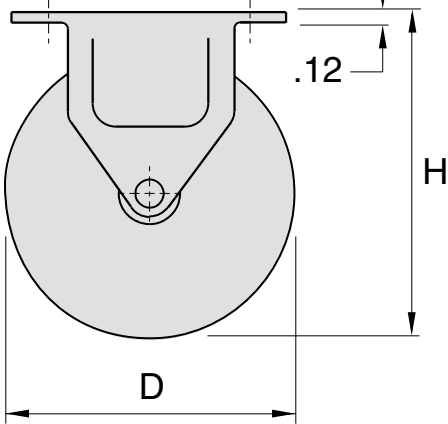
Note: Wheel material is hard plastic

Part no.	D	H	Stem	Brake	Max. Load	Wheel Width
EC-S1	2	2 ⁵ / ₈	3/8-16 x 1 ¹ / ₄	Yes	125 lbs	1.00
EC-S2	3	3 ³ / ₄	3/8-16 x 1 ¹ / ₄	Yes	250 lbs	1.25
EC-S3	4	5	1/2-13 x 1 ¹ / ₂	Yes	300 lbs	1.25

EC-3F
EC-4F
EC-5F



The casters have (4) .343 dia
mtg holes on 1 3/4" x 3.00" centers



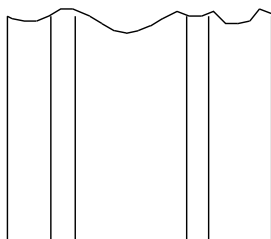
EX-3 uses caster plate EBP-5

Recommended Hardware
(4) EF-11.63 BHCS

Note: Wheel material is hard plastic

Part no.	D	H	Brake	Max. Load	Wheel Width
EC-3F	3	4.13	No	250 lbs	1.25
EC-4F	4	5.00	No	300 lbs	1.25
EC-5F	5	6.00	No	325 lbs	1.25

5/16" SLOTS



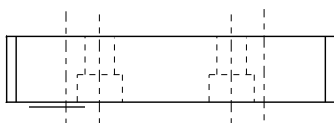
EX-3 uses caster plate EBP-5

EC-3S

EC-4S

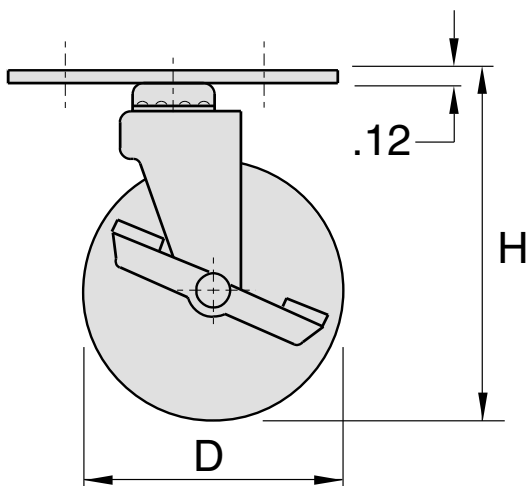
EC-5S

EBP-5
(required)



Recommended Hardware
(4) EF-12.63 BHCS

The casters have (4) .343 dia
mtg holes on 1 3/4" x 3.00" centers



Note: Wheel material is hard plastic

Part no.	D	H	Brake	Max. Load	Wheel Width
EC-3S	3	4.13	Yes	250 lbs	1.25
EC-4S	4	5.00	Yes	300 lbs	1.25
EC-5S	5	6.00	Yes	325 lbs	1.25

5/16" SLOTS

Total Lock Swivel Plate Caster

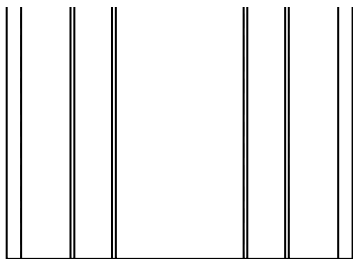
ECT-4S

ECT-5S

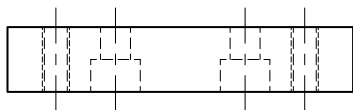
Locking Mechanism

Locks

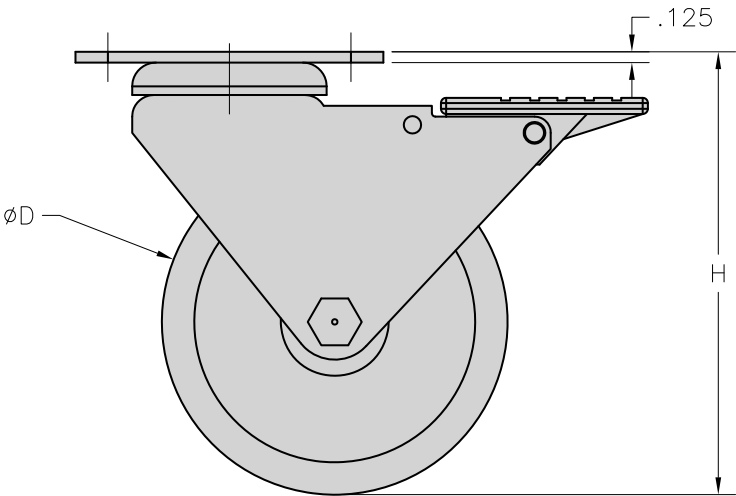
Wheel Rotation
and Swivel



EX-3 USES CASTER PLATE EBP-5
REQUIRED HARDWARE
(4) EF-12-.63 SHCS



The Casters Have (4) Ø.343 Mounting Holes
on 1 3/4" x 2 7/8" Centers

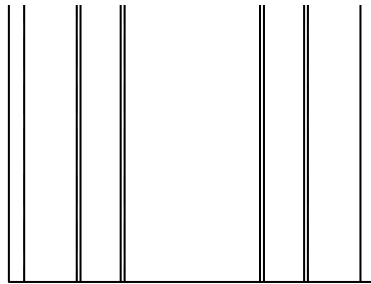


Note: Wheel Material is Grey Polyurethane

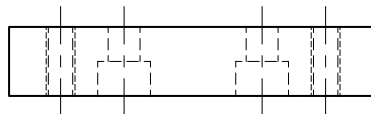
PART NO	ØD	H	BRAKE	MAX LOAD	WHEEL WIDTH
ECT-4S	4.00	5.13	YES	250 lbs	1.25
ECT-5S	5.00	6.25	YES	275 lbs	1.25

ECT-4F

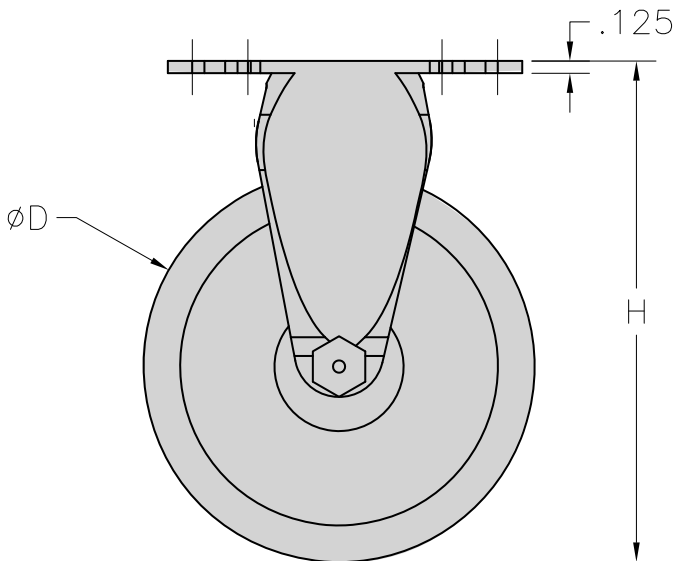
ECT-5F



EX-3 USES CASTER PLATE EBP-5
REQUIRED HARDWARE
(4) EF-12-.63 SHCS



The Casters Have (4) Ø.343 Mounting Holes
on 1 3/4" x 2 7/8" Centers



Note: Wheel Material is Grey Polyurethane

PART NO	ØD	H	BRAKE	MAX LOAD	WHEEL WIDTH
ECT-4F	4.00	5.13	NO	250 lbs	1.25
ECT-5F	5.00	6.25	NO	275 lbs	1.25

5/16" SLOTS

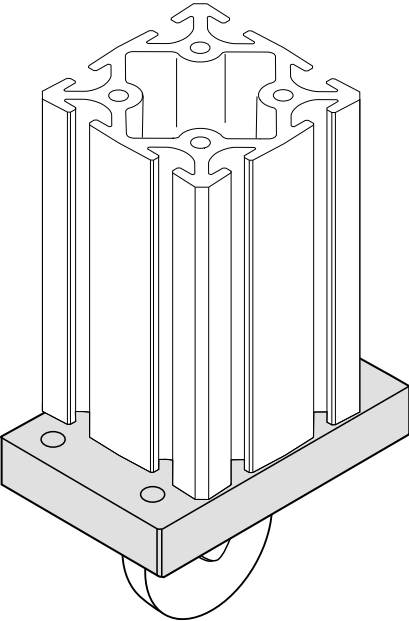
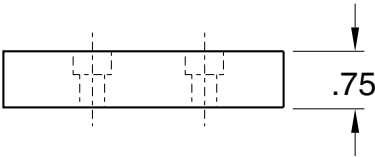
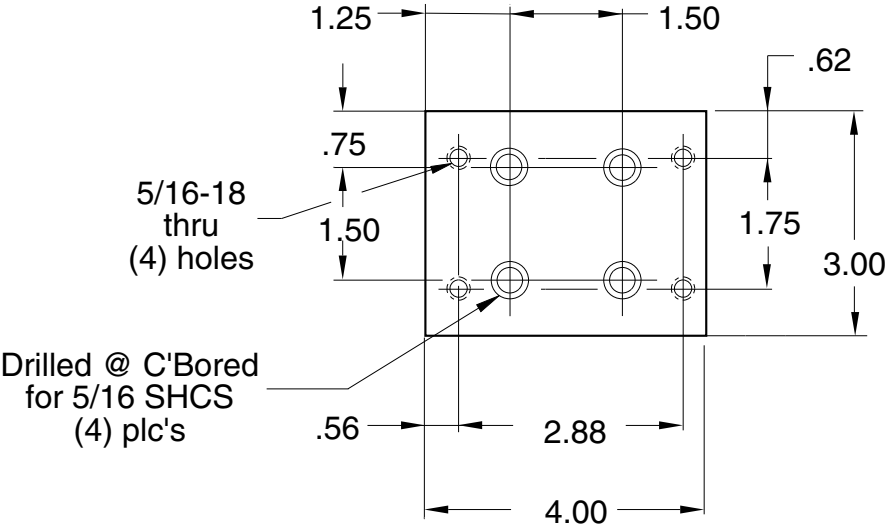
Caster Mounting Plate
for Plate Casters



EBP-5
BLP-5

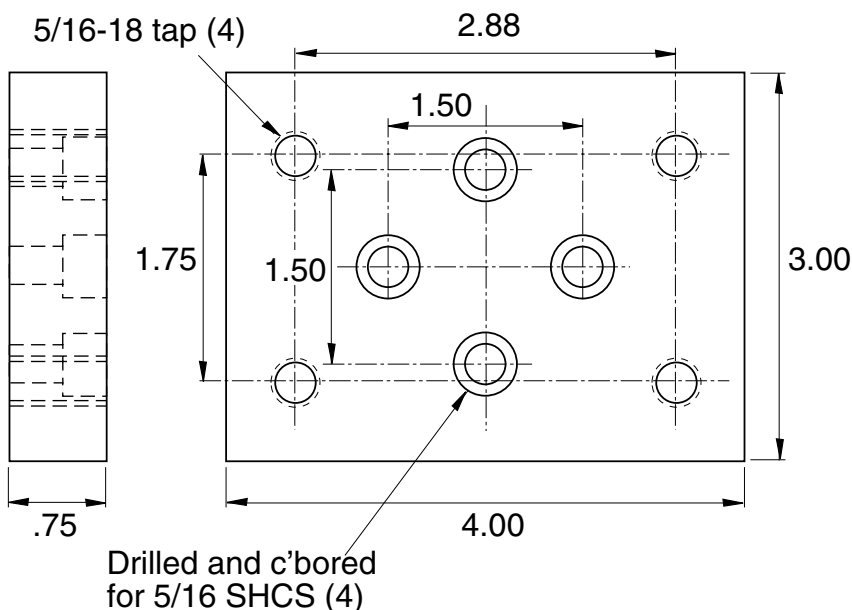
Clear Anodized
Flat Black Powder Coat

5/16" SLOTS



Requires
(4) EF-11-1.0 SHCS

Material - Aluminum

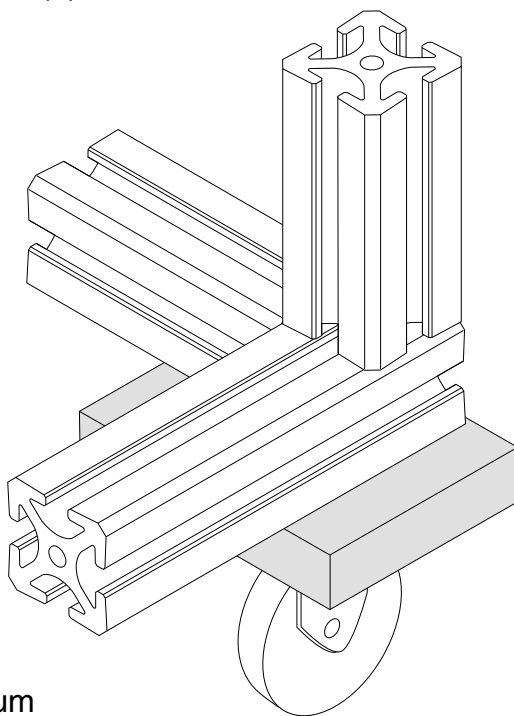


Requires

(2) EF-11-.75 SHCS

(2) EF-2 T-nut

Note: Plate can
be rotated 90°

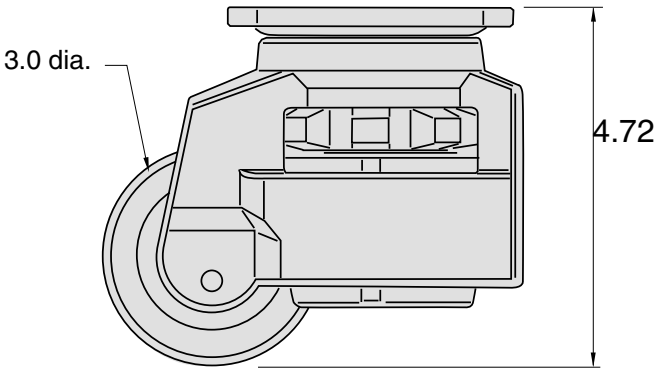


Material - Aluminum
Finish - Clear Anodize

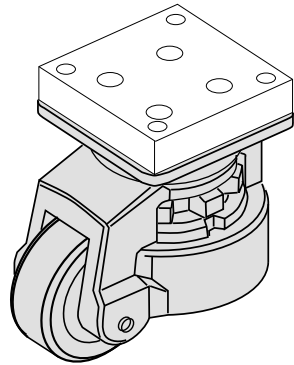
Leveling Caster



KC-100F



Leveler Extended Height = 5.63"

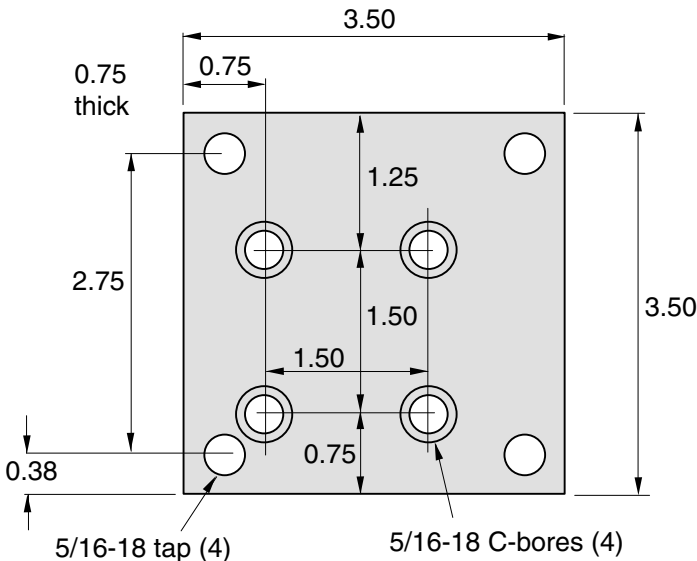


Load Capacity = 2,000 lbs

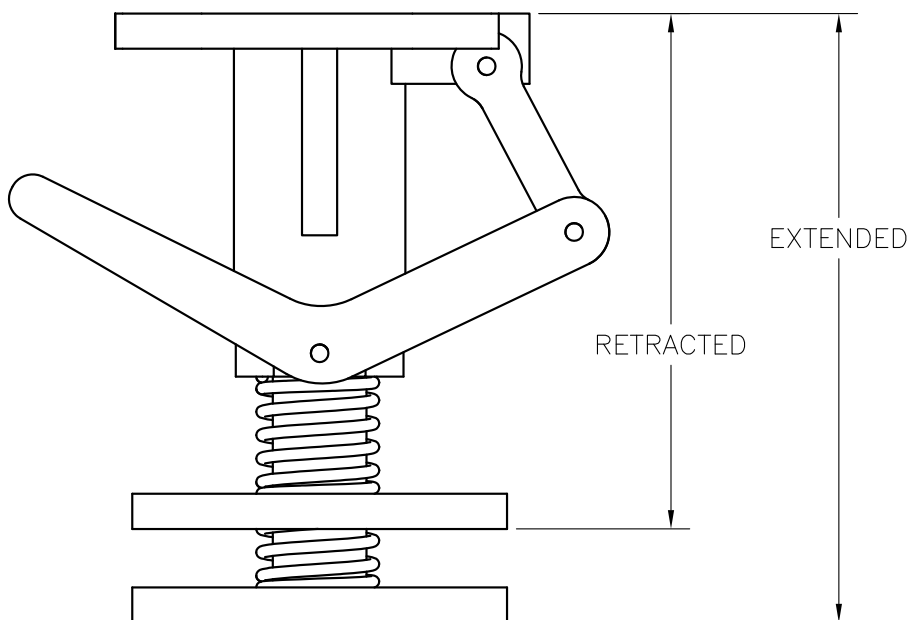
5/16" SLOTS

EBP-5-LVL

Leveling Caster Plate



Material - Aluminum

EB-151
EB-153


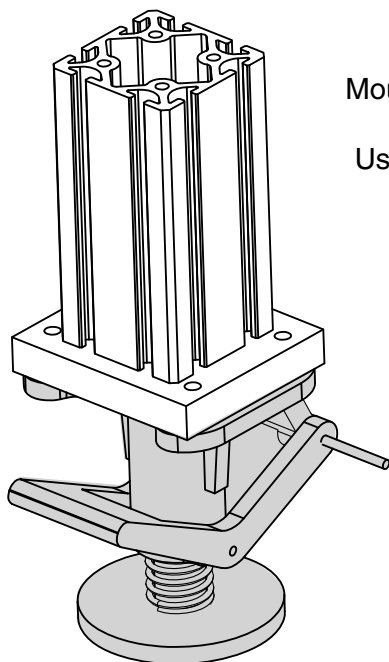
Top Plate Dimension - 4.0" x 4.0"

Bolt Diameter - Ø.375"

Mounting Hole Centerline - 2.625" x 3.625"

(4) 3/8-16 x 5/8" BHCS Included

Use EB-154 Mounting Plate for 5/16" Slot Extrusions.



PART NO	RETRACTED	EXTENDED
EB-151	5 1/16"	5 5/8"
EB-153	6 3/4"	7 3/4"

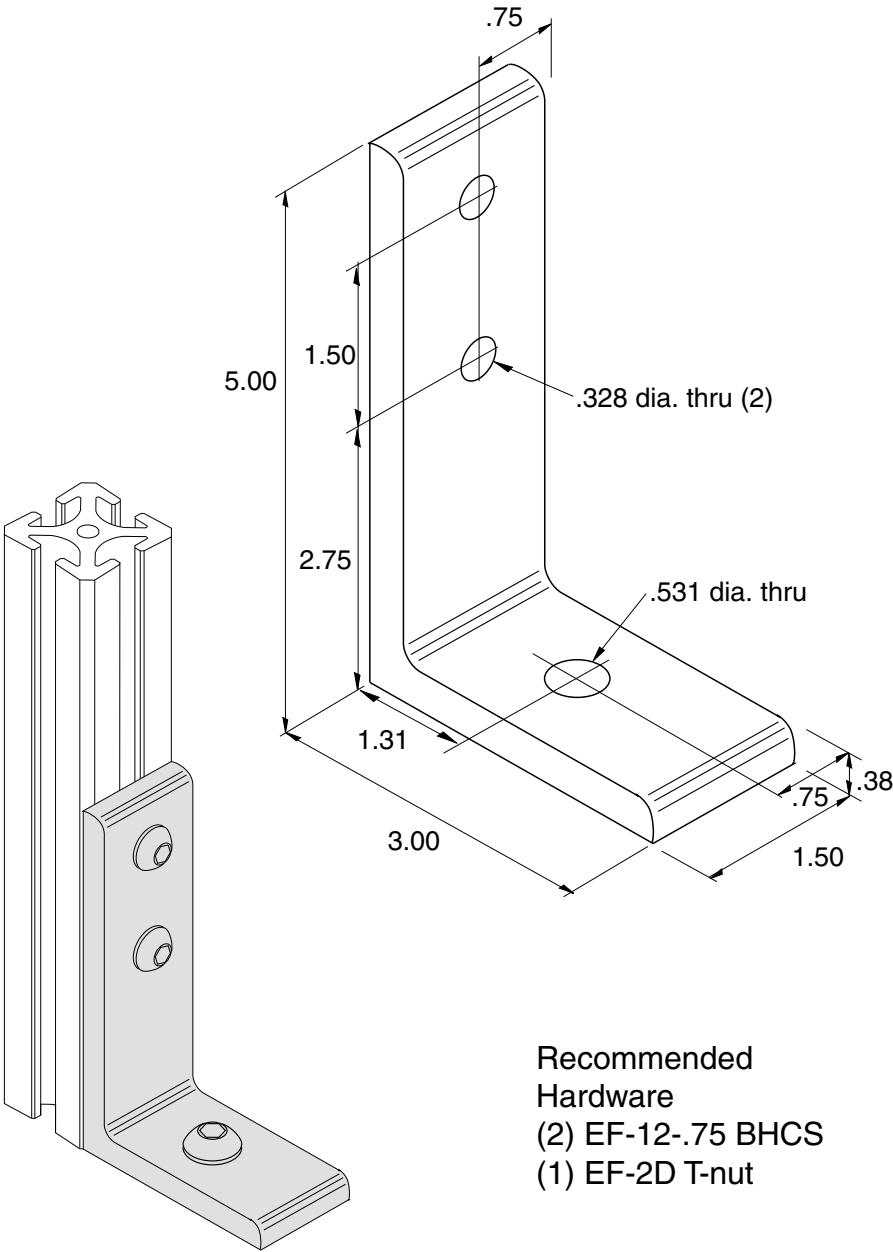
Economy Aluminum Floor Mount



EB-15AL
BLB-15AL

Clear Anodized
Flat Black Powder Coat

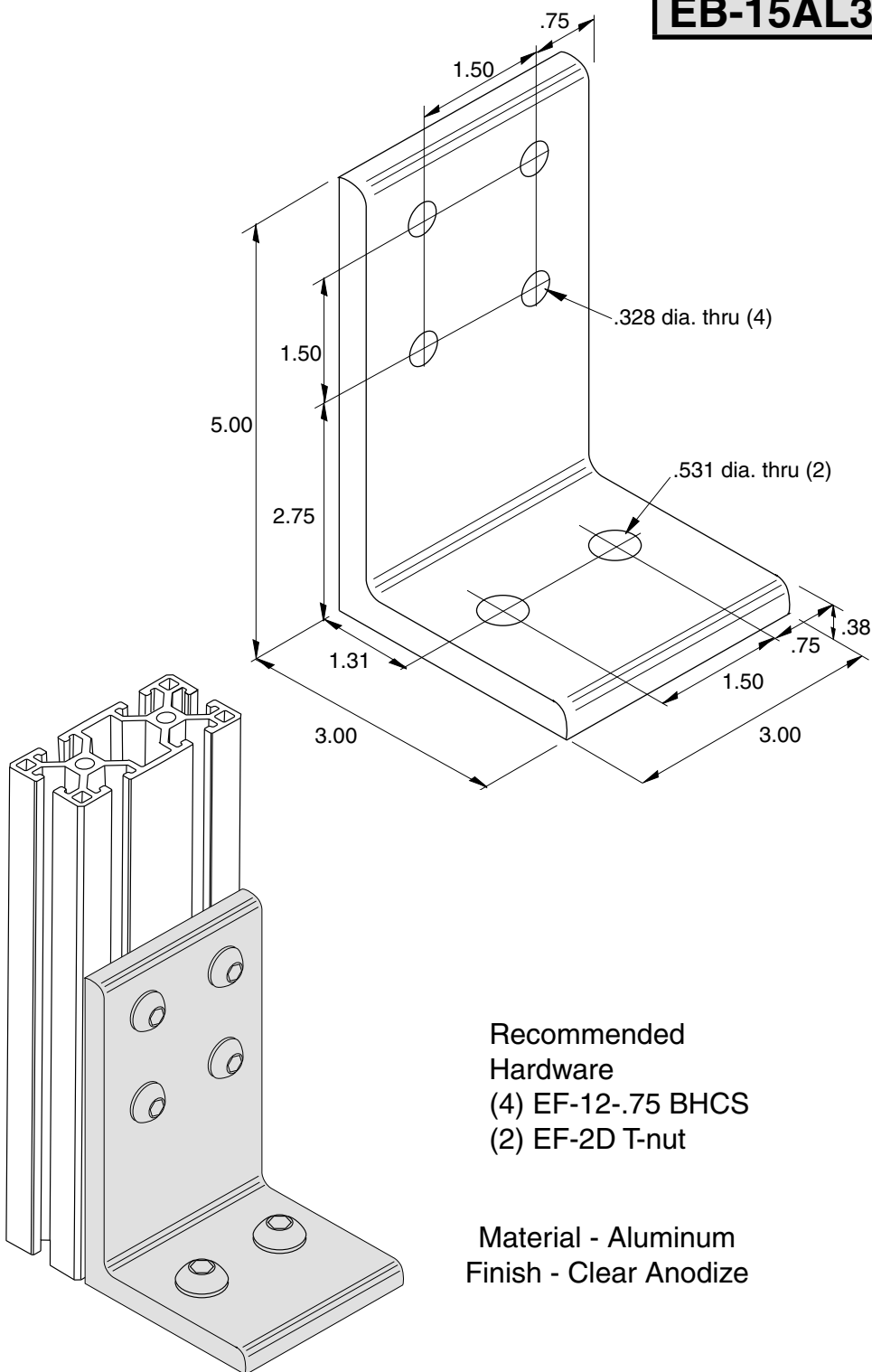
5/16" SLOTS



Material - Aluminum

EB-15AL3

5/16" SLOTS



**Recommended
Hardware**
(4) EF-12-.75 BHCS
(2) EF-2D T-nut

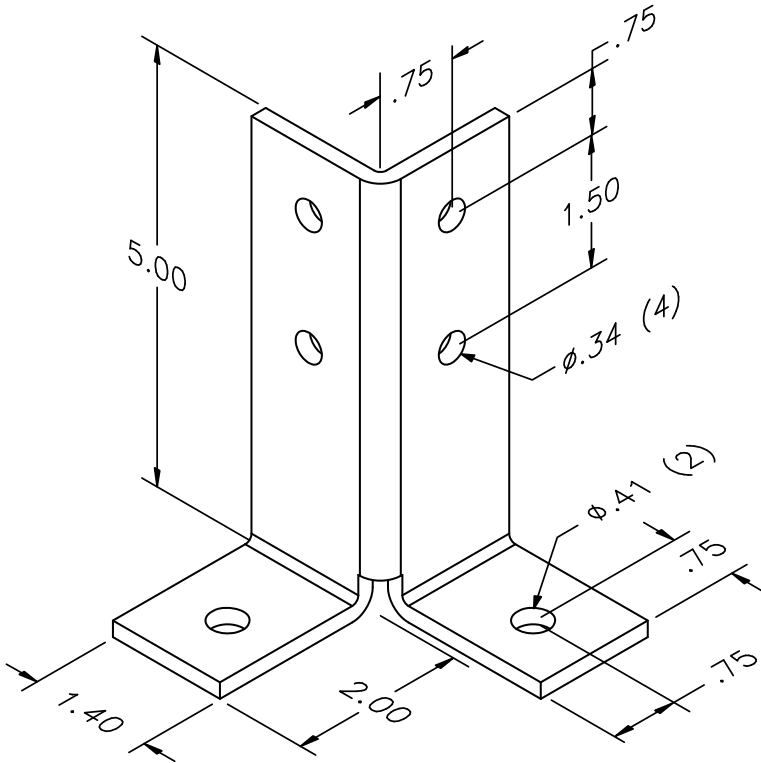
**Material - Aluminum
Finish - Clear Anodize**

Floor Mounting Bracket



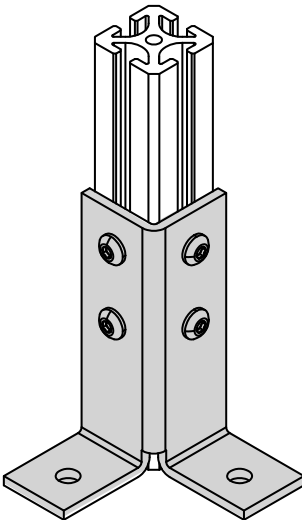
EB-17-FT

5/16" SLOTS



.200" thick

Use with 5/16" slot extrusions

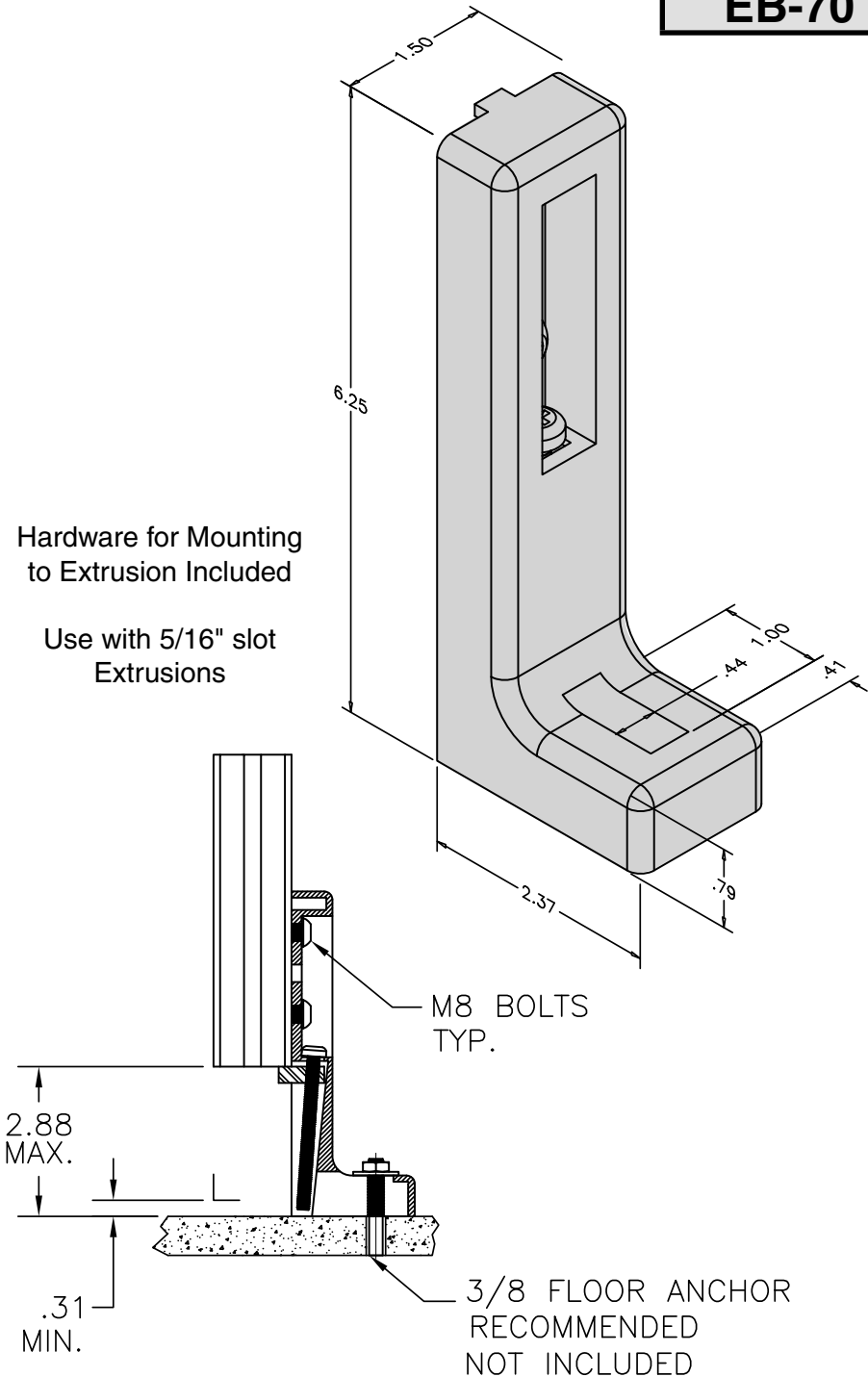


Recommended
Hardware
(4) EF-12-.63 BHCS
(2) EF-2D T-nut

Material - Steel
Finish - Grey Powder Coat

Hardware for Mounting
to Extrusion Included

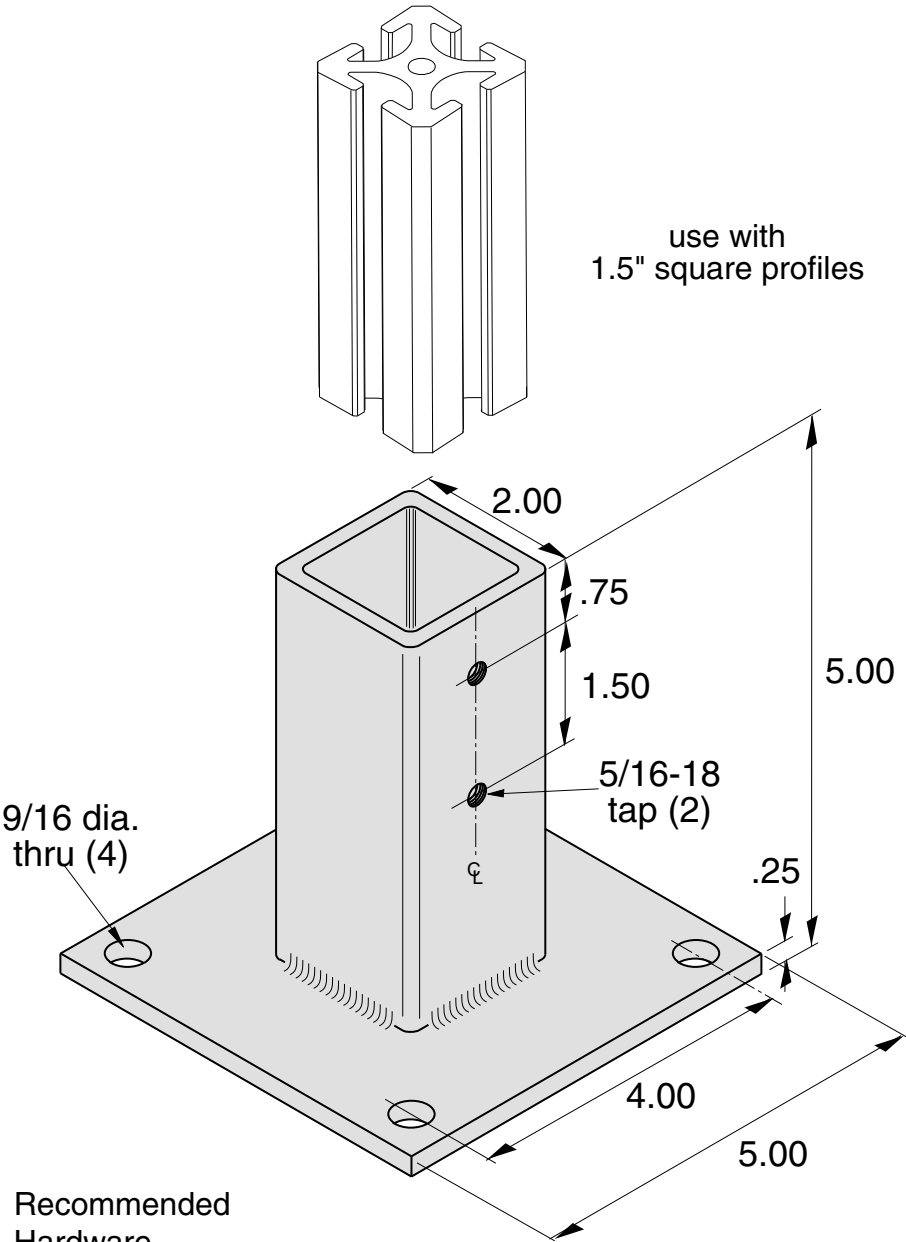
Use with 5/16" slot
Extrusions



Material - Die Cast Zinc
Finish - Black Powder Coat

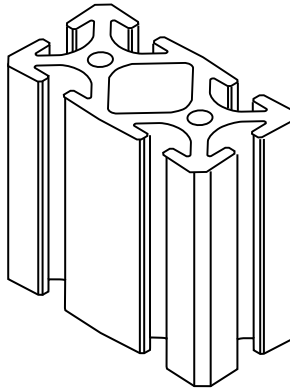
EB-41

5/16" SLOTS

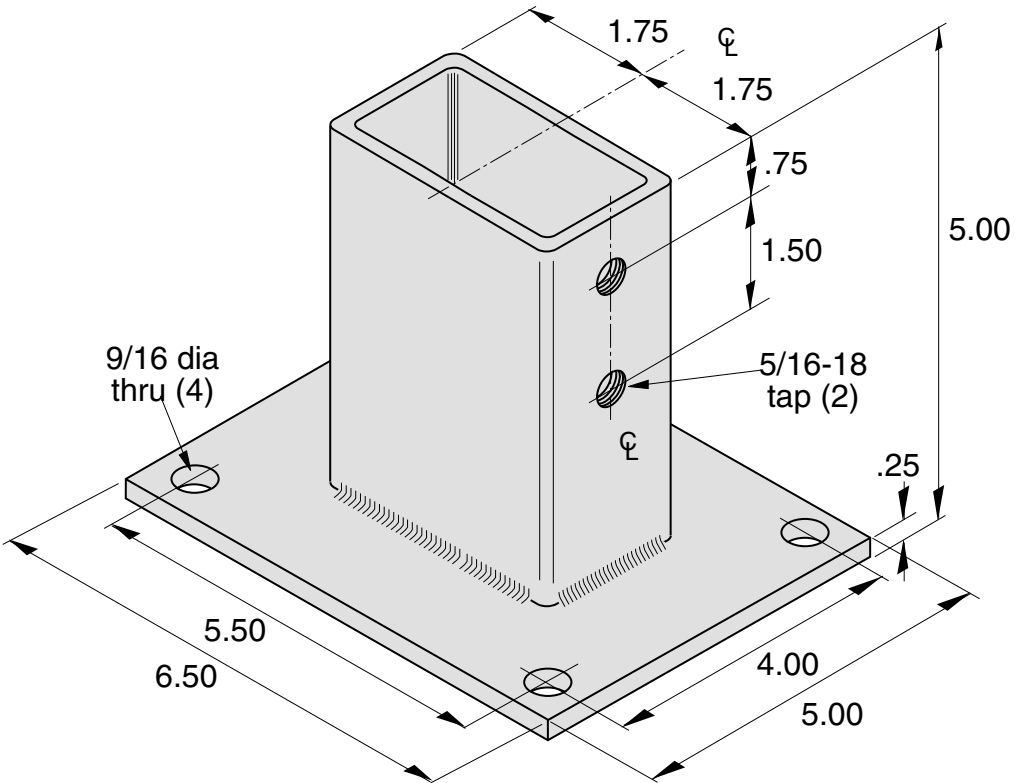


Recommended
Hardware
(2) EF-11-1.0 BHCS

Material - Steel
Finish - Black Powder Coat



use with
1.5" x 3" profiles



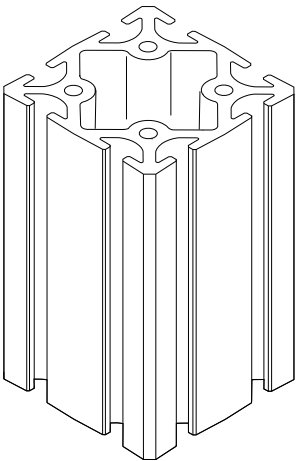
5/16" SLOTS

Recommended
Hardware
(2) EF-11-1.0 SHCS

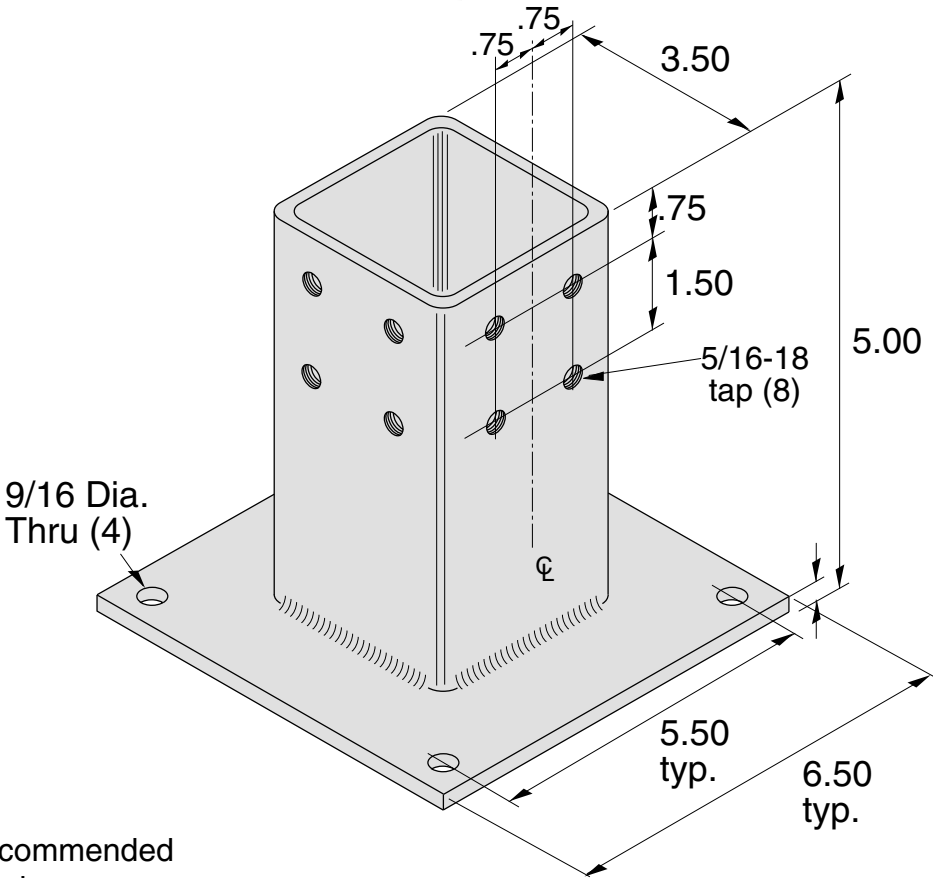
Material - Steel
Finish - Black Powder Coat

EB-43

5/16" SLOTS



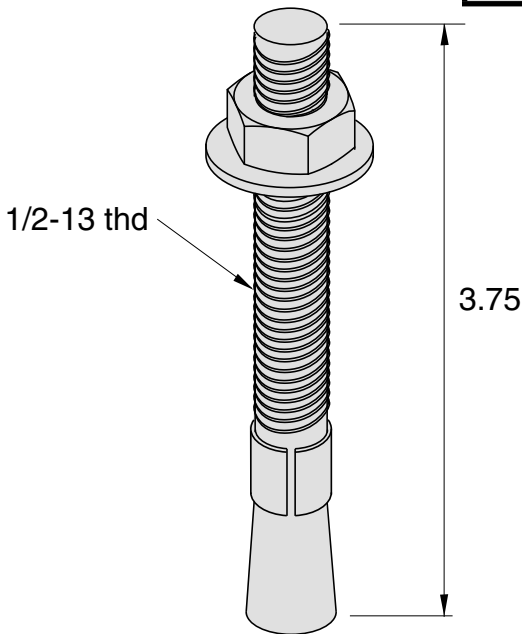
use with
EX-3 or EX-37



Recommended
Hardware
(4) EF-11-1.0 BHCS

Material - Steel
Finish - Black Powder Coat

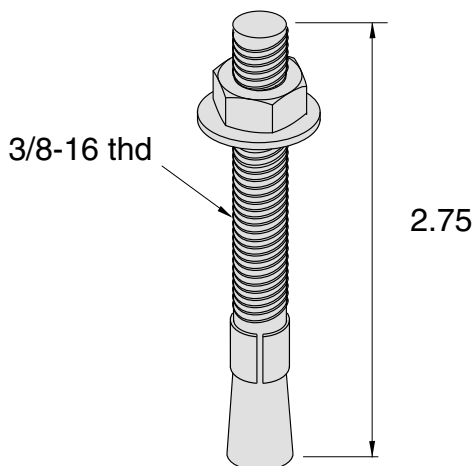
EF-WA-50



Material - Zinc Plated Steel

5/16" SLOTS

EF-WA-38



Material - Zinc Plated Steel

Wire Mesh



EB-38-2
EB-38-1.5
EB-38-1
EB-38-1/2

- 12 gage wire 2" x 2" opening - Black
- 12 gage wire 1.5"x1.5" opening - Black
- 12 gage wire 1"x1" opening - Black
- 16 gage wire 1/2"x 1/2" opening - Black

EB-38-2Y
EB-38-1Y
EB-38-1/2Y

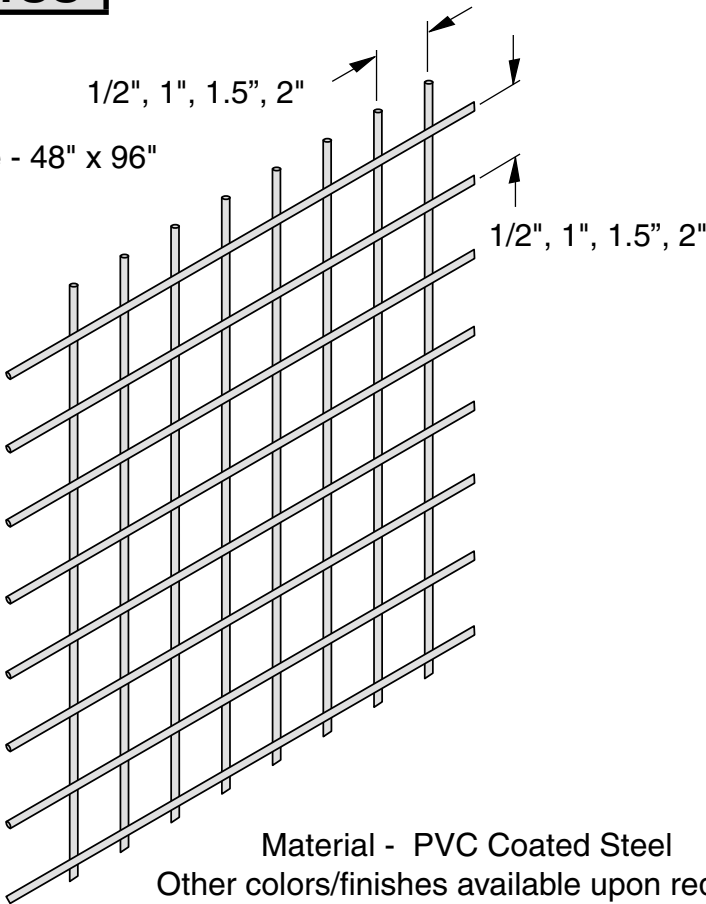
- 12 gage wire 2" x 2" opening - Yellow
- 12 gage wire 1"x1" opening - Yellow
- 16 gage wire 1/2"x 1/2" opening - Yellow

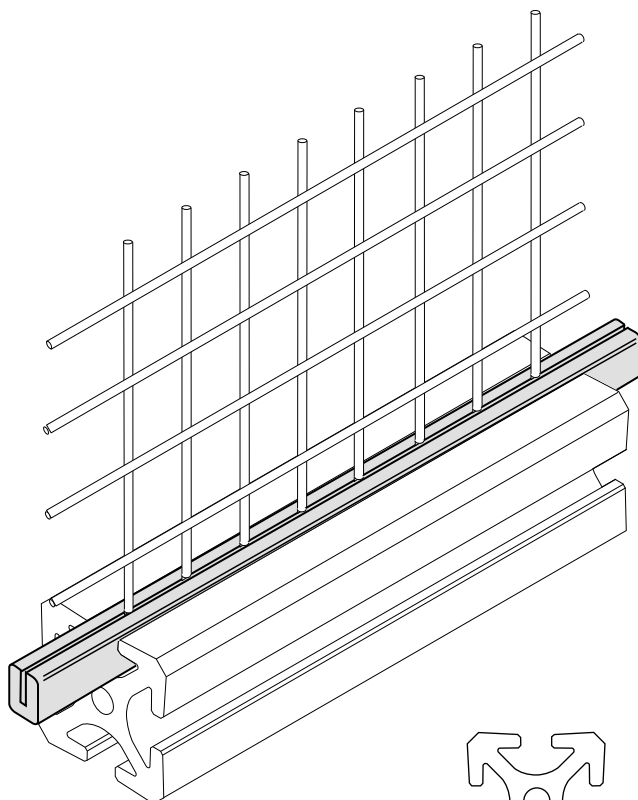
EB-38-1GR
EB-38-1SS

- 12 gage wire 1"x1" opening - Grey
- 12 gage wire 1"x1" opening - Stainless Steel

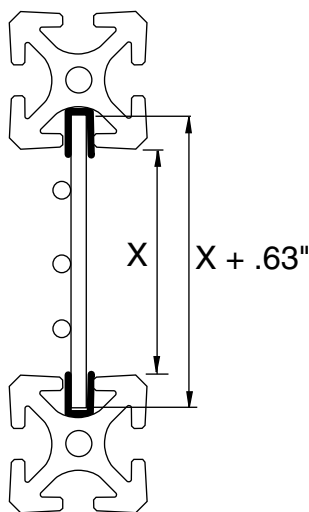
5/16" SLOTS

Sheet size - 48" x 96"





5/16" SLOTS



To specify length required,
order EB-38G, length in feet.

Note: Snug fit - eliminates rattles

Cut wire
mesh to $X + .63"$

Material - Black Rubber

Wire Mesh Bracket

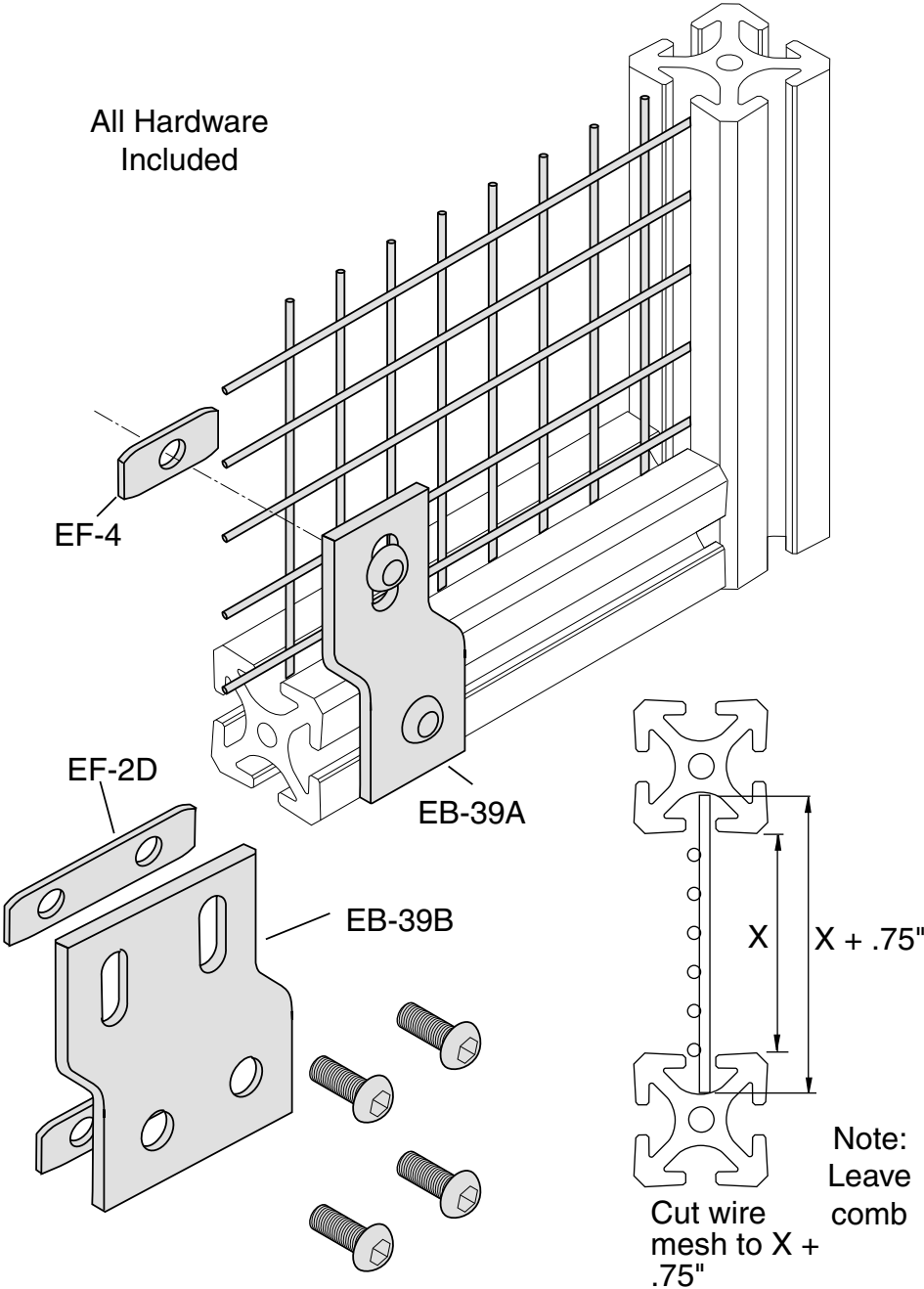


EB-39A

EB-39B

5/16" SLOTS

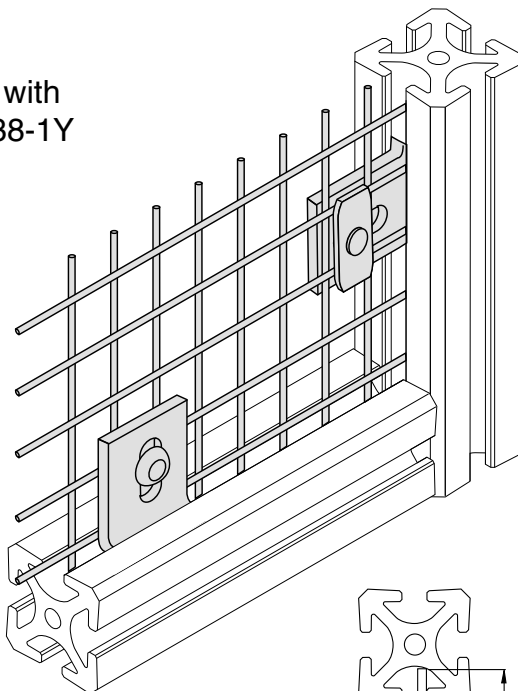
All Hardware
Included



Material - Steel
Finish - Black Powder Coat

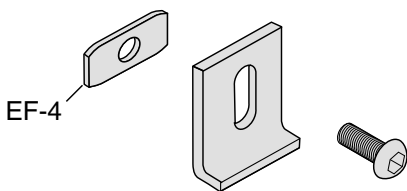
Black Powder Coat	EB-49B
Yellow Powder Coat	EB-49Y

Note: to be used with
EB-38-1 and EB-38-1Y
screen only

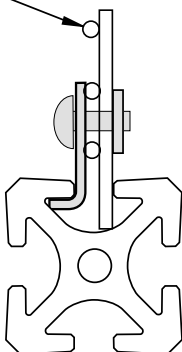


5/16" SLOTS

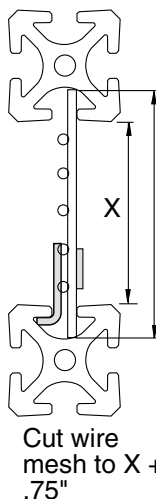
Hardware Included



crossing wire



Note: to assure
proper clamping,
assemble bracket
on crossing wire
side of wire mesh

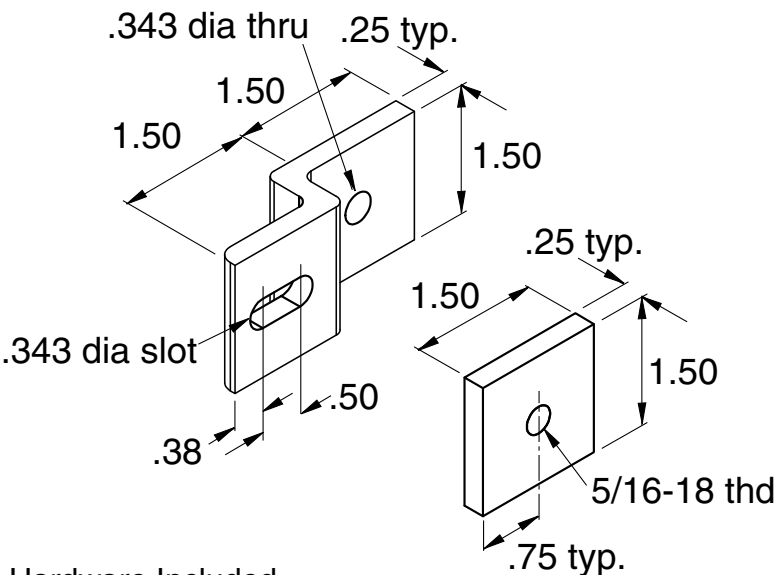


Note:
Leave comb
when cutting
to size

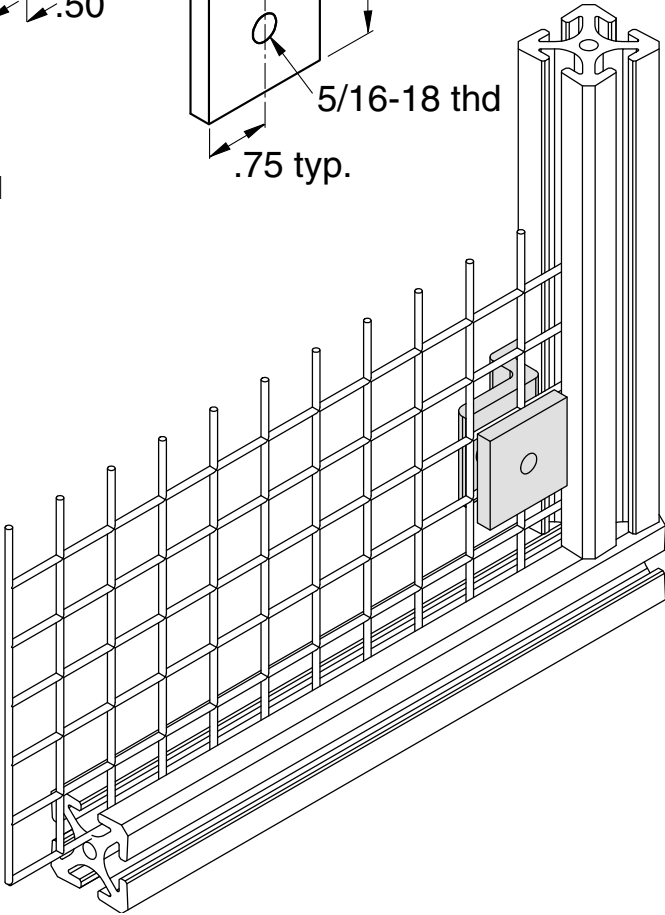
Material - Powder Coated Steel

EB-63

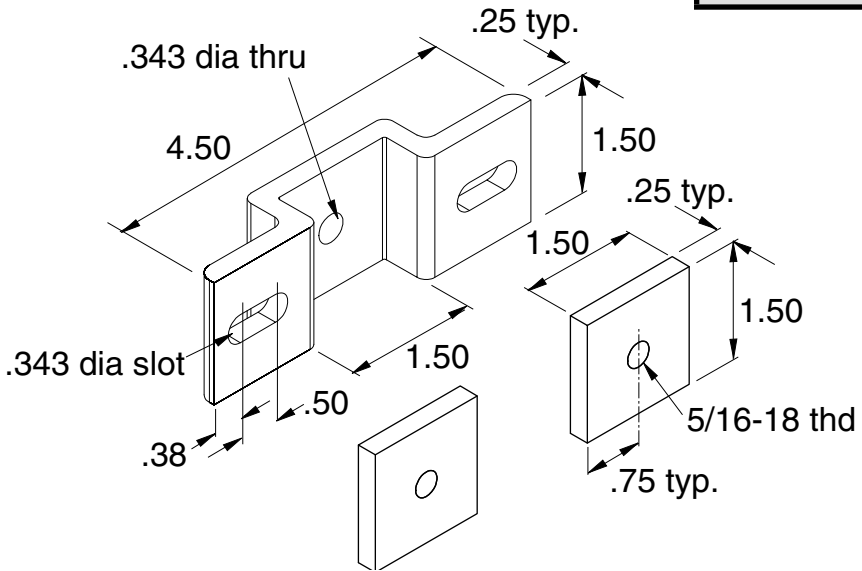
5/16" SLOTS



Hardware Included

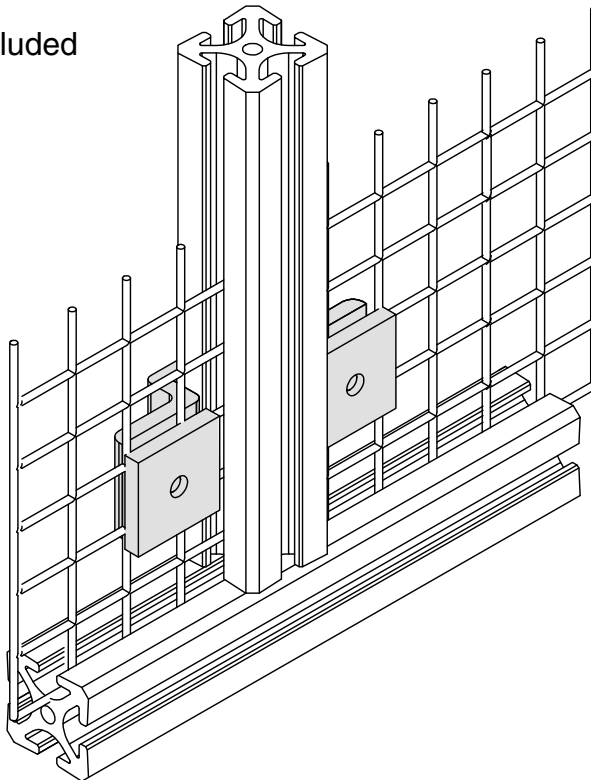


Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS

Hardware Included

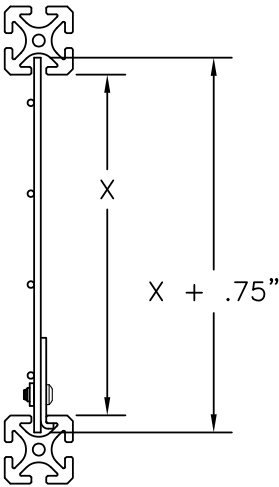
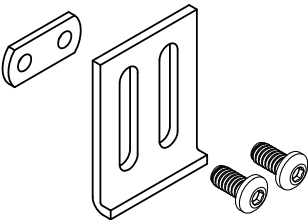
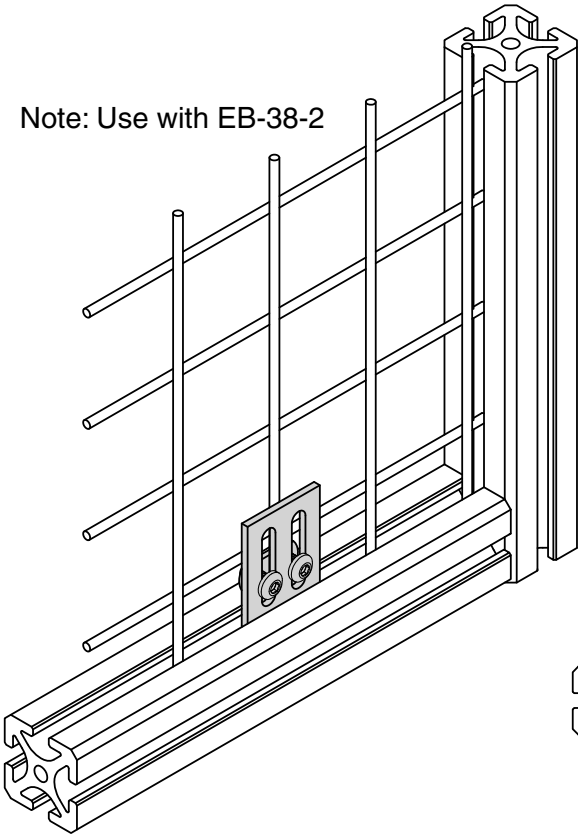


Material - Aluminum
Finish - Clear Anodize

EB-96

5/16" SLOTS

Note: Use with EB-38-2

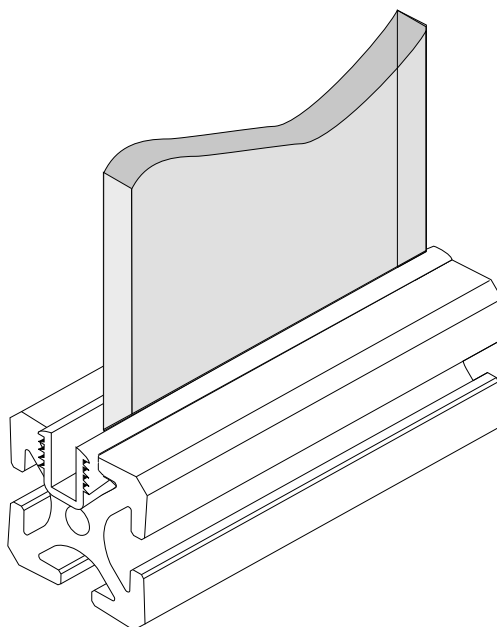


Cut Wire Mesh
to $X + .75$ "

Note: Leave Comb
when cutting to size

Hardware Included

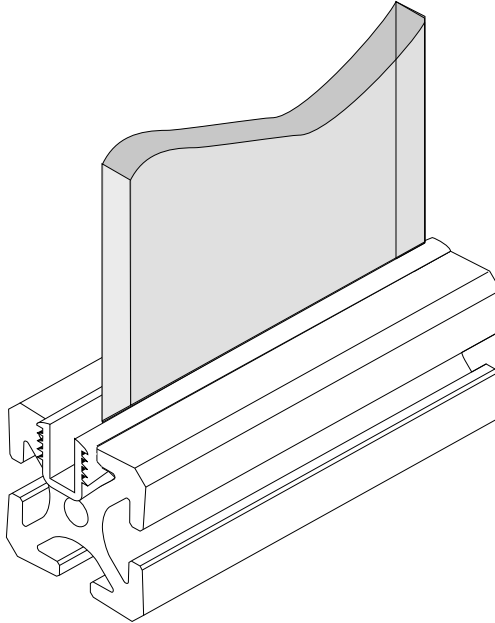
Material - Steel
Finish - Black Powder Coat

**5/16" SLOTS**

Stocked in 48" x 96" sheets. Sold by the square foot.

EB-160	Polycarb 1/4" Clear Panel
EB-161	Polycarb 1/4" Bronze Panel
EB-162	Polycarb 1/4" Black Panel
EB-163	Polycarb 3/8" Clear Panel
EB-164	Polycarb 1/4" Grey Panel
EB-165	Polycarb 3/16" Clear Panel
EB-166	Polycarb 3/16" Bronze Panel
EB-167	Polycarb 3/16" Grey Panel
EB-168	Polycarb 3/16" Black Panel
EB-169	Polycarb 1/2" Clear Panel
EB-170	Acrylic 1/4" Clear Panel
EB-171	Acrylic 1/4" Bronze Panel
EB-172	Acrylic 1/4" Black Panel
EB-174	3/8" Black HDPE Panel
EB-175	Acrylic 3/16" Clear Panel
EB-176	Acrylic 3/16" Bronze Panel
EB-177	Acrylic 3/16" Black Panel
EB-179	Laminated Safety Glass 1/4"
EB-180	ABS-Haircell 1/4" Black Panel
EB-181	ABS-Haircell 3/16" Black Panel
EB-182	ABS-Haircell 1/4" White Panel
EB-183	1/4" White HDPE Panel
EB-184	1/4" Black HDPE Panel

5/16" SLOTS

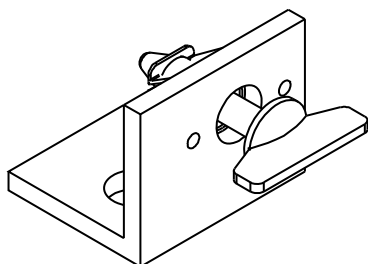


EB-185	Expanded PVC 6mm Yellow Panel
EB-186	Expanded PVC 3mm Yellow Panel
EB-187	Expanded PVC 6mm Grey Panel
EB-188	Expanded PVC 3mm Grey Panel
EB-189	Expanded PVC 6mm Blue Panel
EB-190	Expanded PVC 3mm Blue Panel
EB-191	Expanded PVC 6mm Red Panel
EB-192	Expanded PVC 3mm Red Panel
EB-193	Expanded PVC 6mm Black Panel
EB-194	Expanded PVC 3mm Black Panel
EB-195	Expanded PVC 6mm White Panel
EB-196	Expanded PVC 3mm White Panel
EB-197	Polycarb 1/4" Clear Scratch-resistant Panel
EB-198	Polycarb 3/16" Clear Scratch-resistant Panel
HDPE-.375	3/8" White HDPE Panel
HDPE-.5	1/2" White HDPE Panel
HDPE-.5-BL	1/2" Black HDPE Panel
DBD-3-SLV	Silver Finish Aluminum Dibond 3mm Panel

Cut to size panels can be furnished on request.

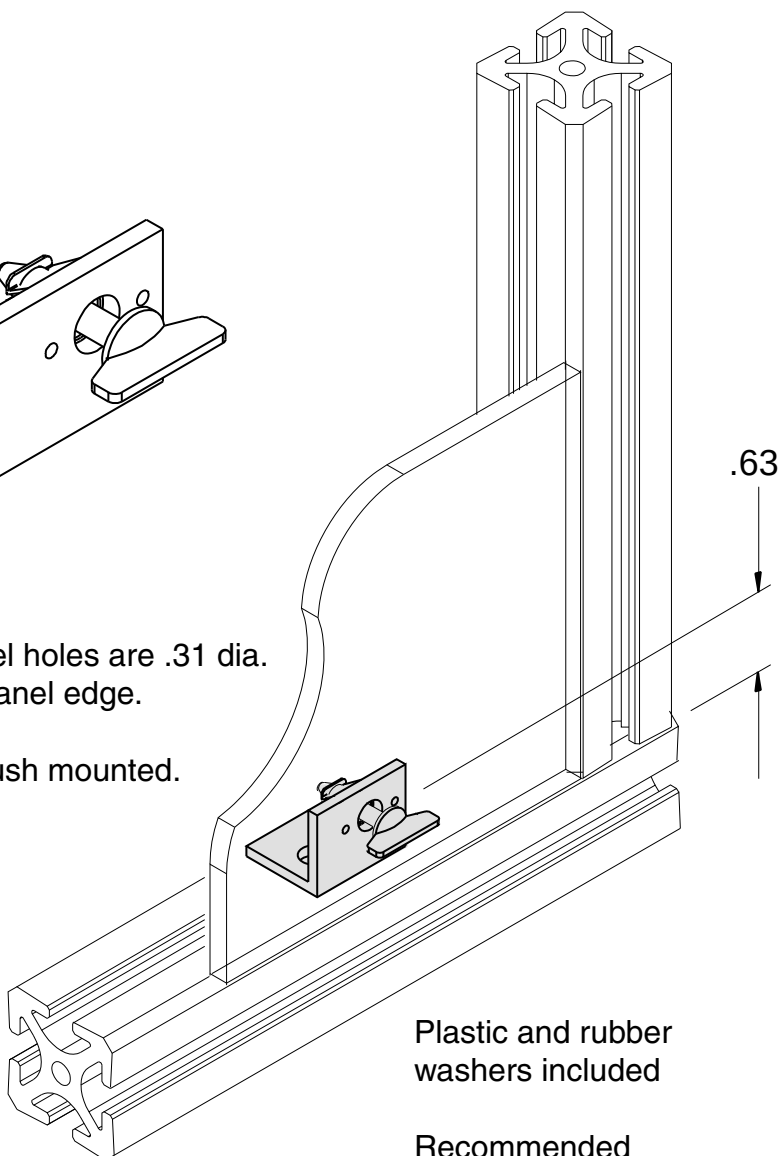
For panels with both sides less than or equal to 48",
order EM-4S Cutting Service.

For panels with any side larger than 48", order EM-4L cutting service.

.235 Thick Panel**EB-88A****.220 Thick Panel****EB-88B****.170 Thick Panel****EB-88C****5/16" SLOTS**

Note: Panel holes are .31 dia.
.63 from panel edge.

Panel is flush mounted.



Plastic and rubber
washers included

Recommended
Hardware

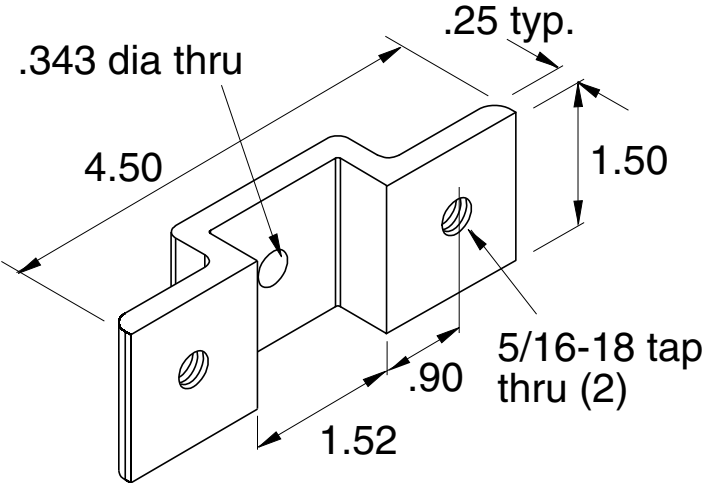
- (1) EF-12-.50 BHCS
- (1) EF-1 T-nut or
- (1) EF-2 T-nut

Double Panel Bracket

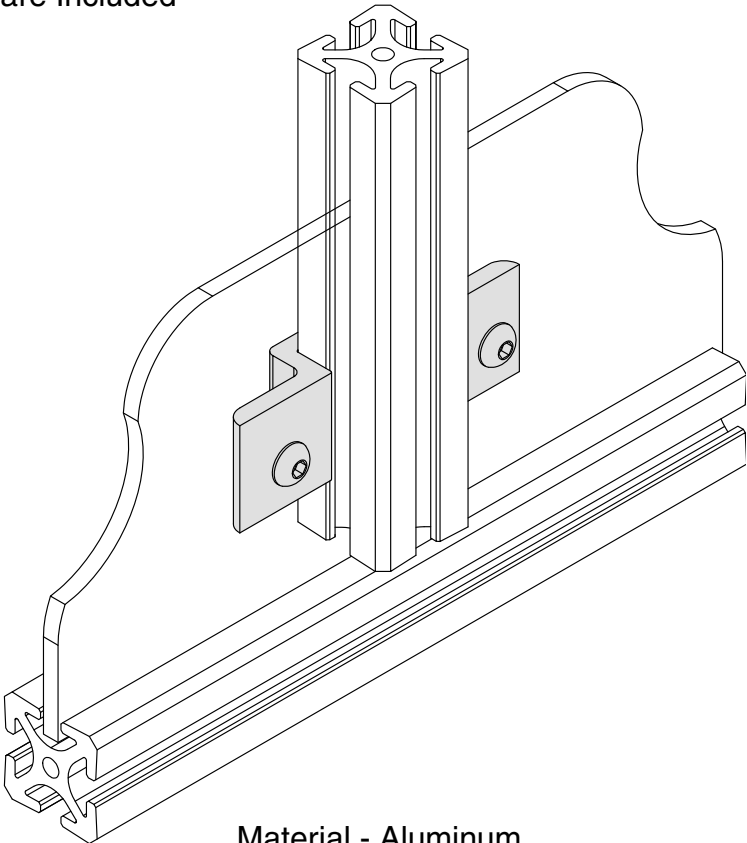


EB-61

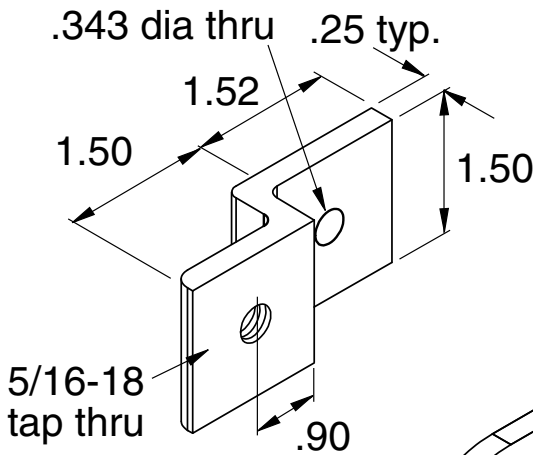
5/16" SLOTS



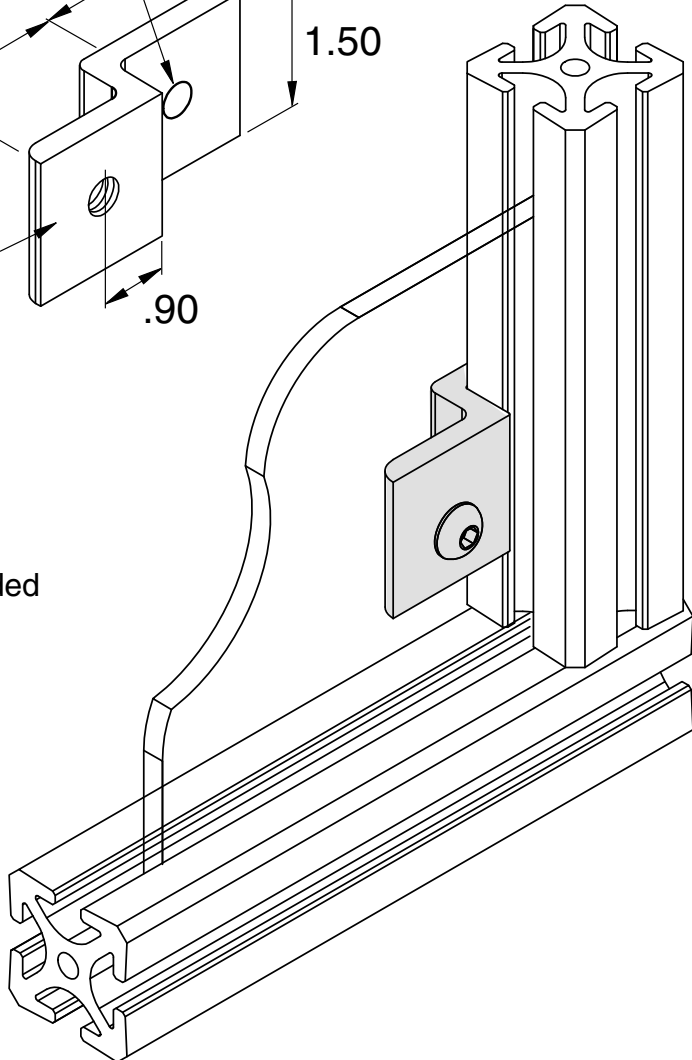
Hardware Included



Material - Aluminum
Finish - Clear Anodize



Hardware Included

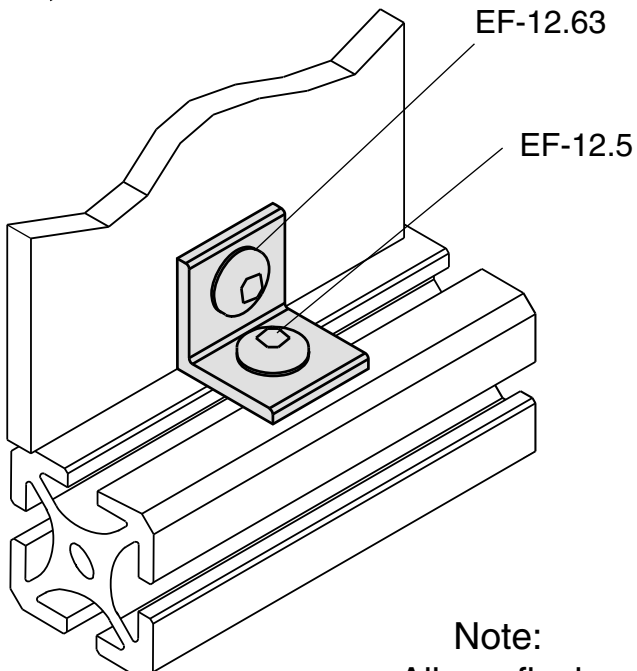
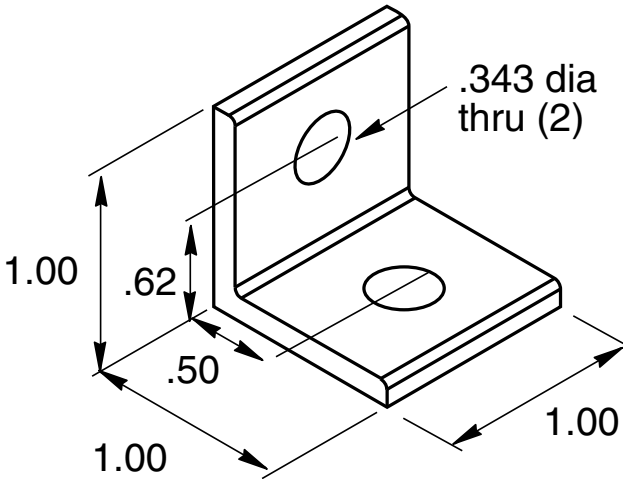


5/16" SLOTS

Material - Aluminum
Finish - Clear Anodize

EB-5

5/16" SLOTS



**Recommended
Hardware**

- (1) EF-12-.50 BHCS
- (1) EF-12-.63 BHCS
- (2) EF-2 T-nut

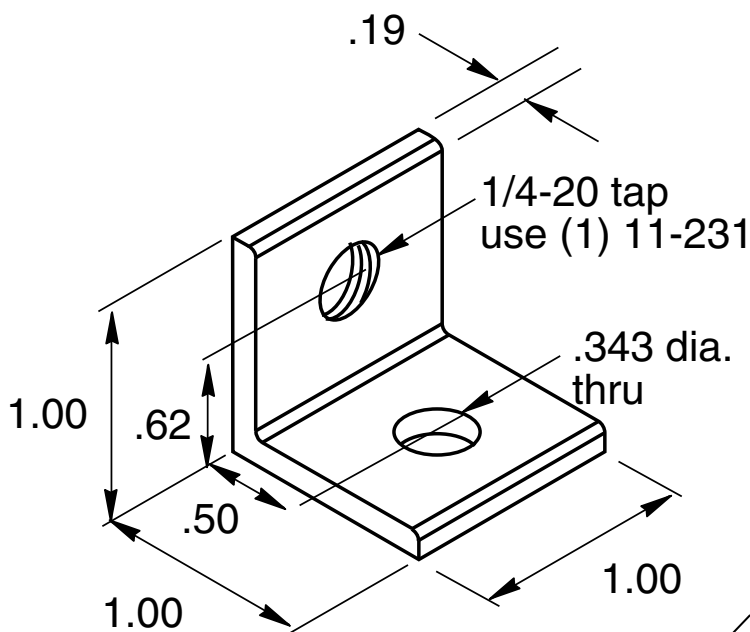
Note:
Allows flush
mount of panel

Material - Aluminum
Finish - Clear Anodize

Clear Anodized
Flat Black Powder Coat

EB-80

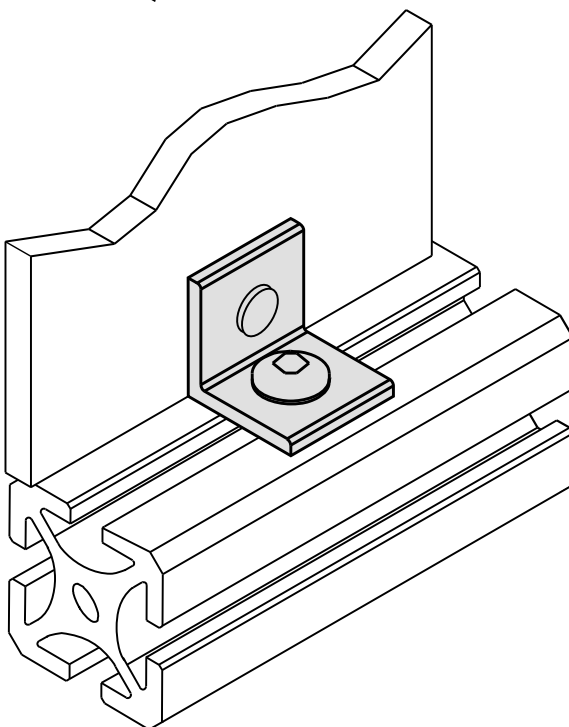
BLB-80



Note:
Allows flush
mount of panel

**Recommended
Hardware**

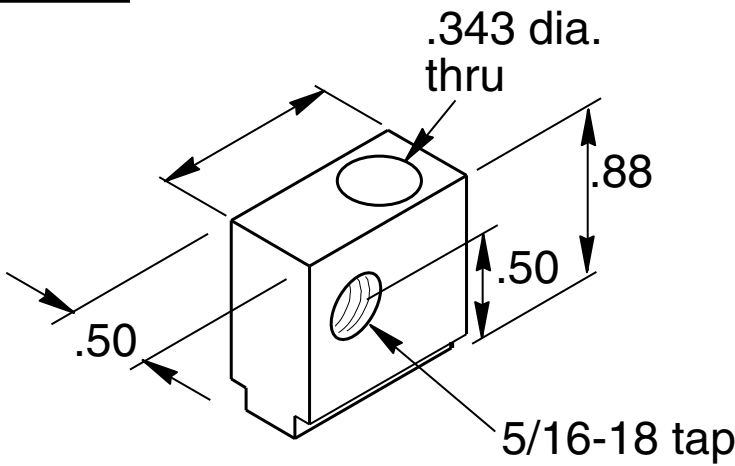
- (1) 11-231 BHCS
- (1) EF-12-.63 BHCS
- (1) EF-2 T-nut



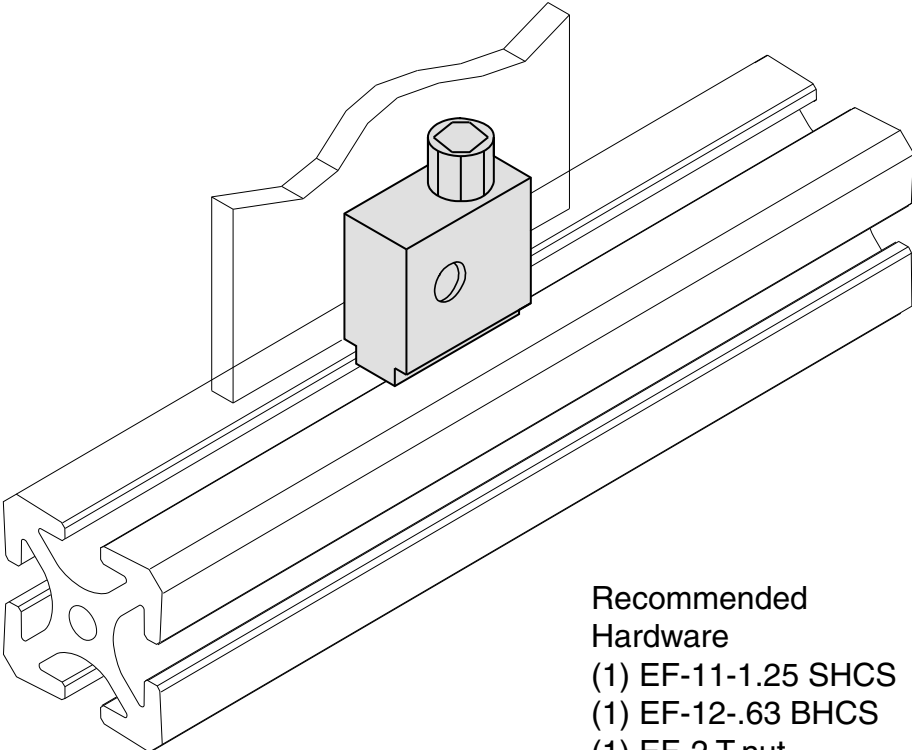
Material - Aluminum

5/16" SLOTS

EF-25

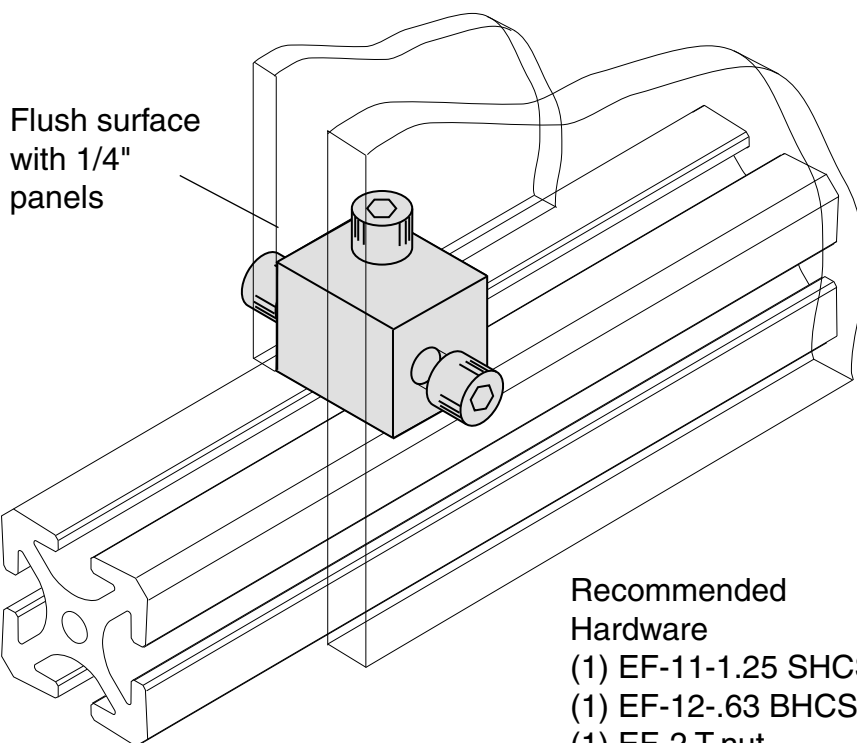
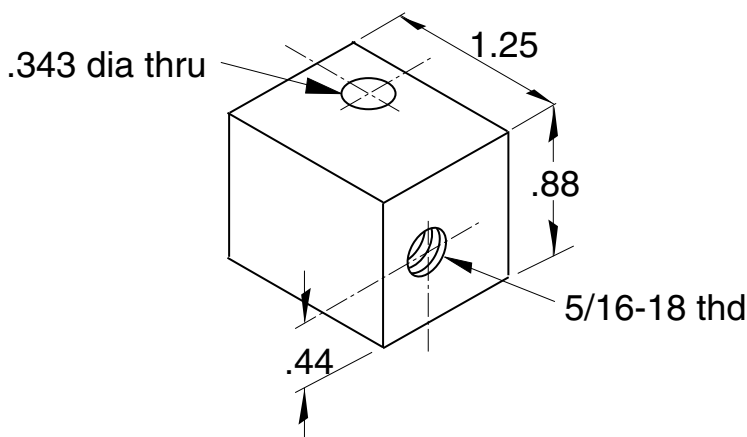


5/16" SLOTS



- Recommended
Hardware
- (1) EF-11-1.25 SHCS
 - (1) EF-12-.63 BHCS
 - (1) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



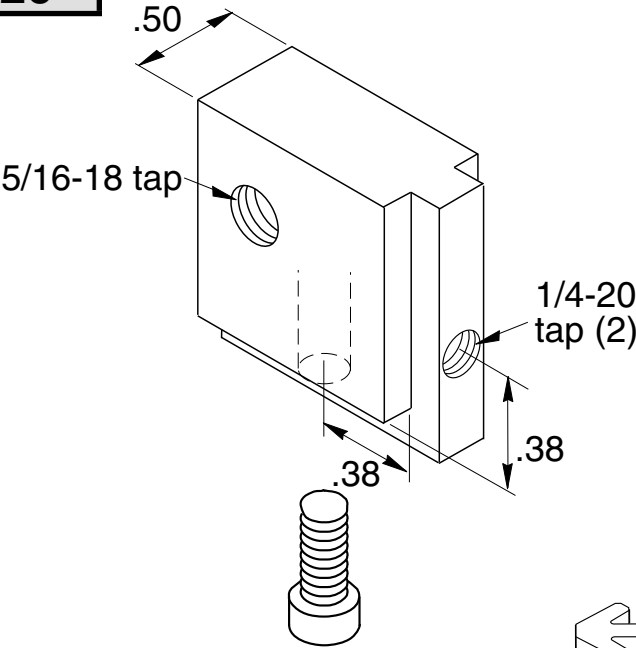
**Recommended
Hardware**
(1) EF-11-1.25 SHCS
(1) EF-12-.63 BHCS
(1) EF-2 T-nut

**Material - Aluminum
Finish - Clear Anodize**

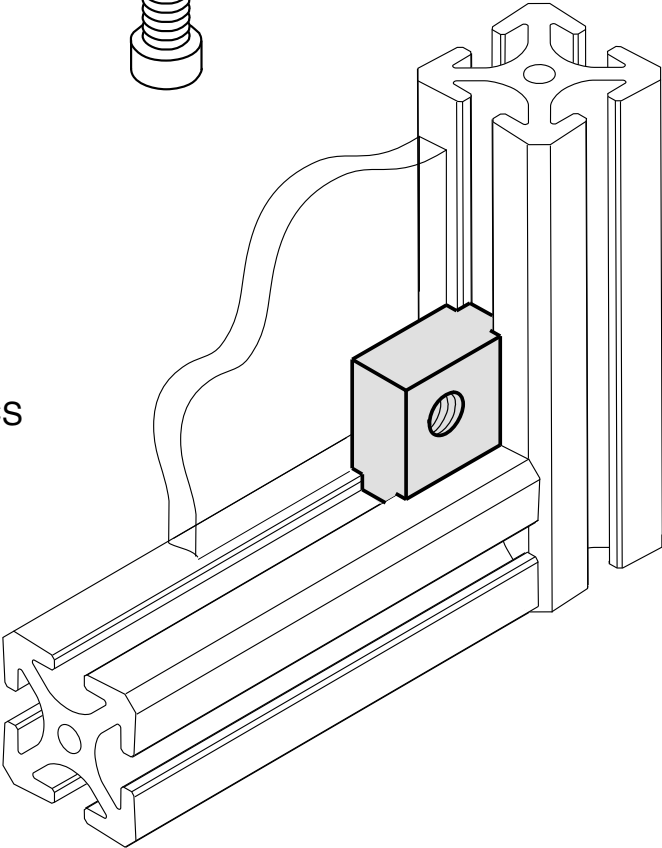
5/16" SLOTS

EF-26

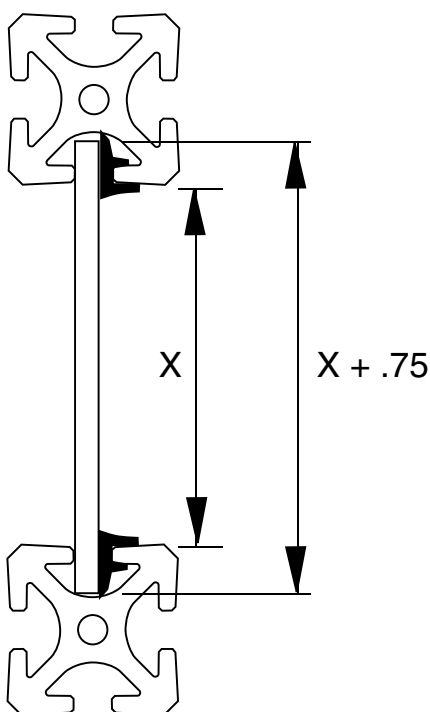
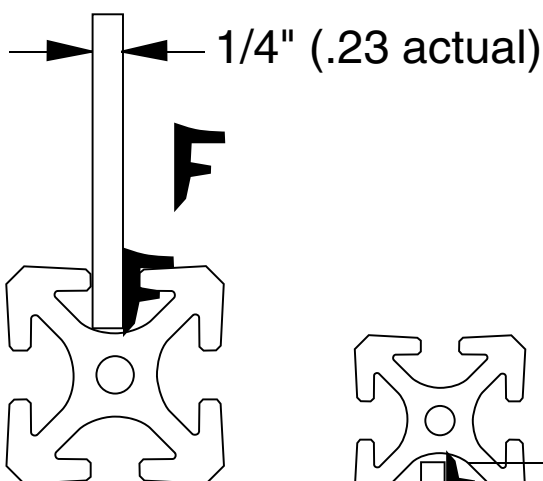
5/16" SLOTS



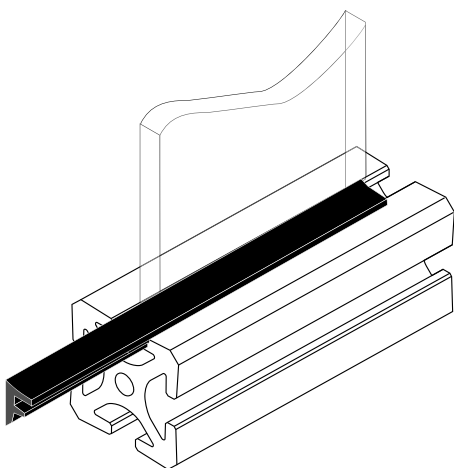
Recommended
Hardware
(2) 11-225 SHCS
(1) EF-12-.63 BHCS



Material - Aluminum
Finish - Clear Anodize



Cut panel to X + .75"



Note: insert gasket after panel is installed
in 5/16" wide slot profiles

Material - Flexible PVC (Black)

Plastic Panel Retaining Gasket

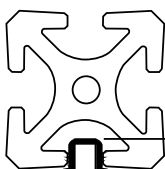
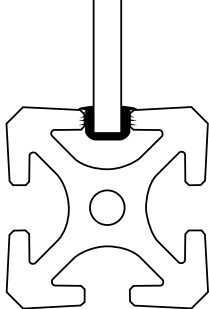


EB-40A
EB-40C

Slip Fit
Interference Fit

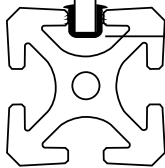
5/16" SLOTS

1/4" (.235 actual)

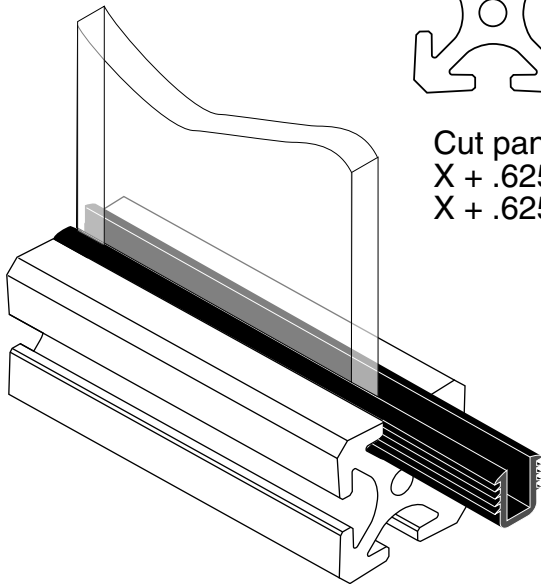


X

$X + .625" = \text{EB-40A}$
 $X + .625" = \text{EB-40C}$

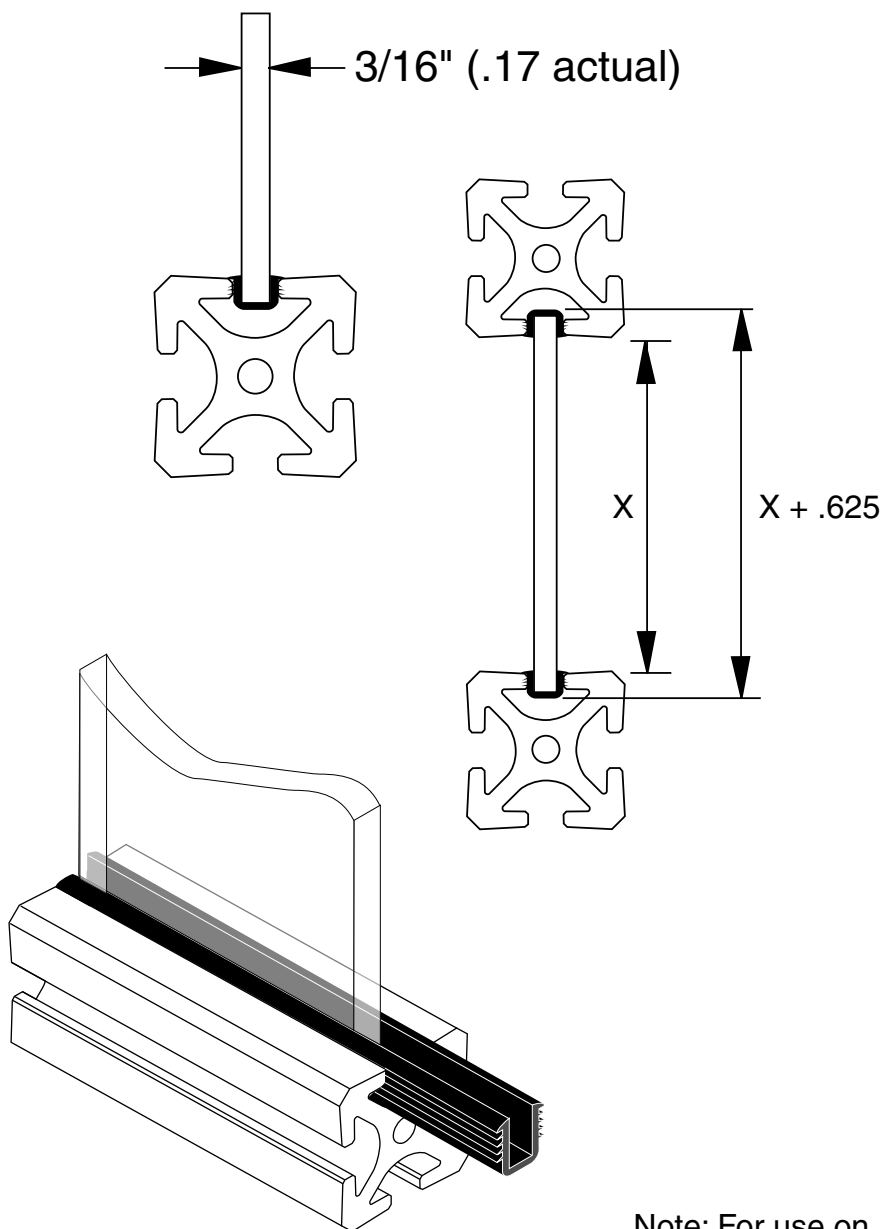


Cut panel to
 $X + .625" = \text{EB-40A}$
 $X + .625" = \text{EB-40C}$



Note: For use on
5/16" wide profile slots.

Material - Flexible PVC (Grey)



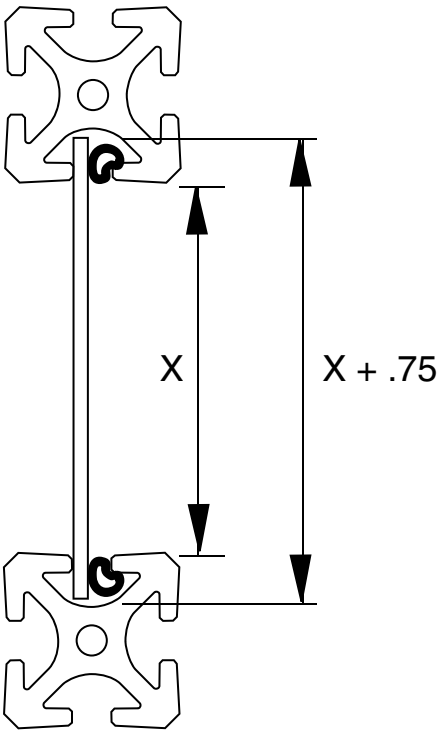
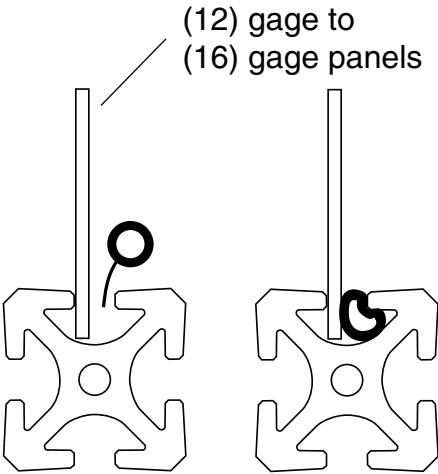
5/16" SLOTS

Note: For use on
5/16" wide profile slots.

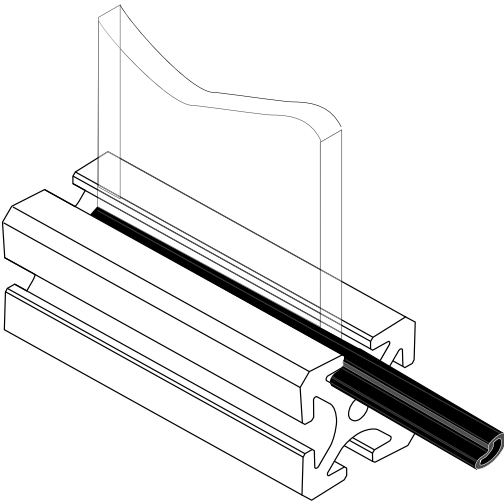
Material - Flexible PVC (Grey)

EB-45

5/16" SLOTS

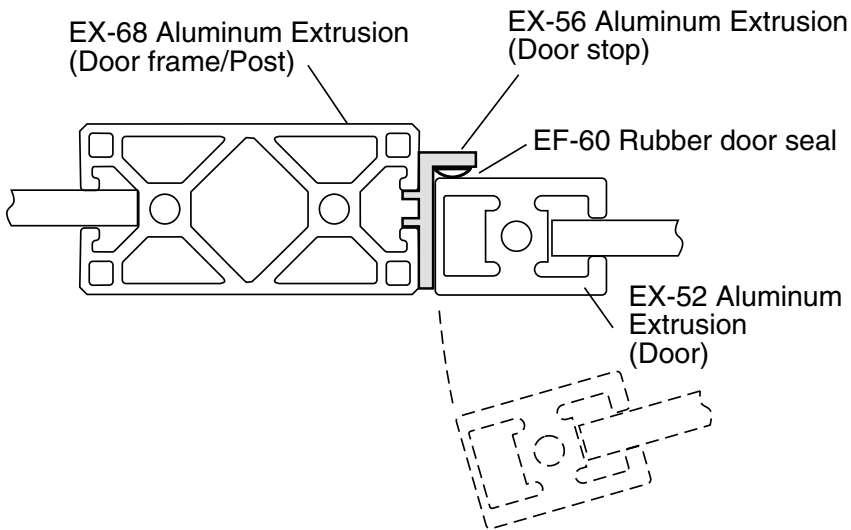
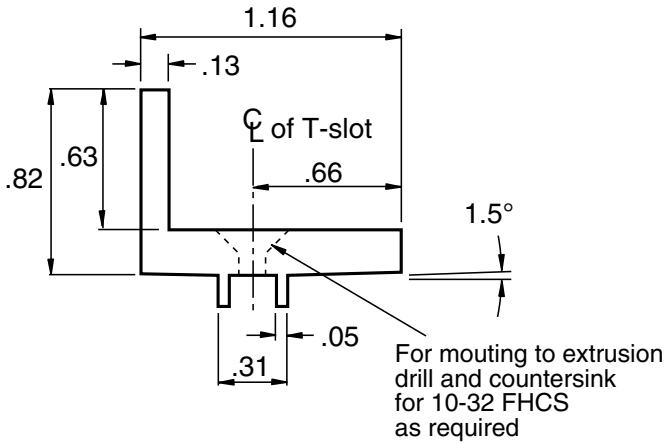


Cut panel to $X + .75$ "



Material	Thickness
16 gage	.060
14 gage	.075
13 gage	.090
12 gage	.105

Material - Rubber (Black)

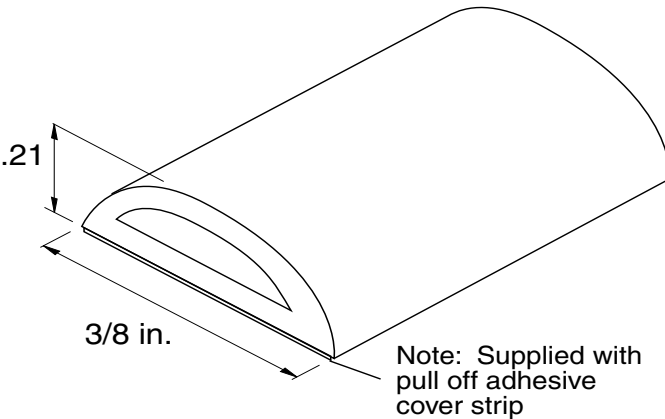


Standard size 96" and 192", sold by the inch

Material - Aluminum
Finish - Clear Anodize

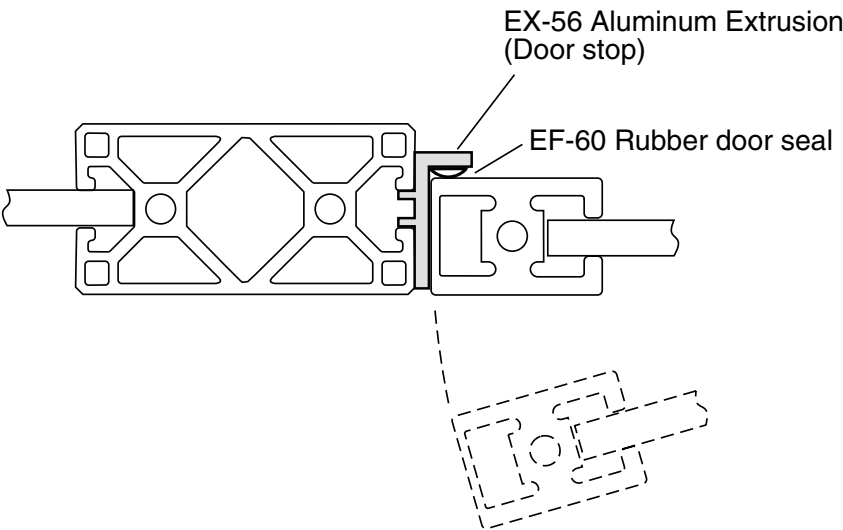
EF-60

5/16" SLOTS



Sold by the foot

Example: Door Frame Cross-Section



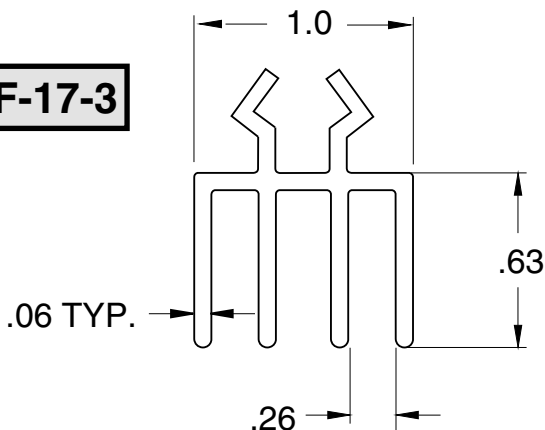
Upper Door Slide Track (1/4" panels)

EF-17-3

Lower Door Slide Track (1/4" panels)

EF-18-3

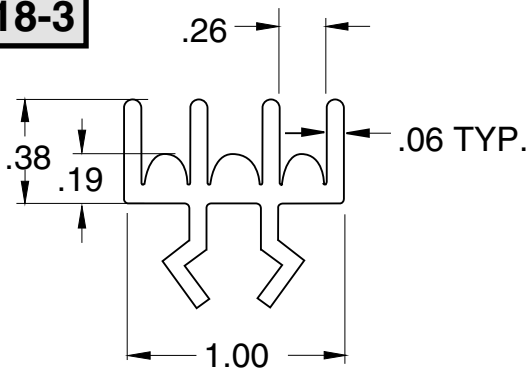
EF-17-3



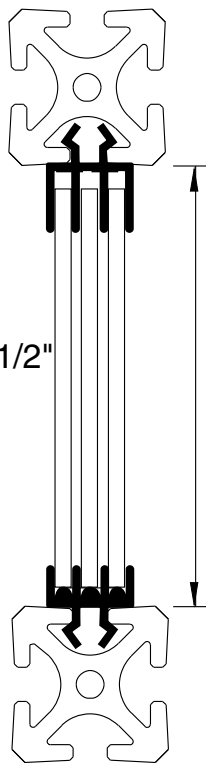
Material - Rigid PVC

Cut Panels to X - 1/2"

EF-18-3



Material - Rigid PVC
Sold in 6 ft. lengths



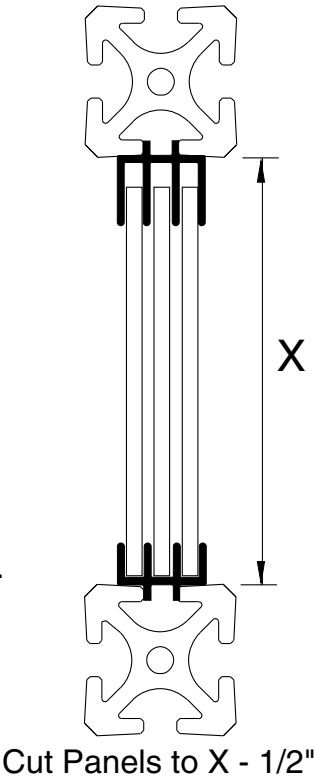
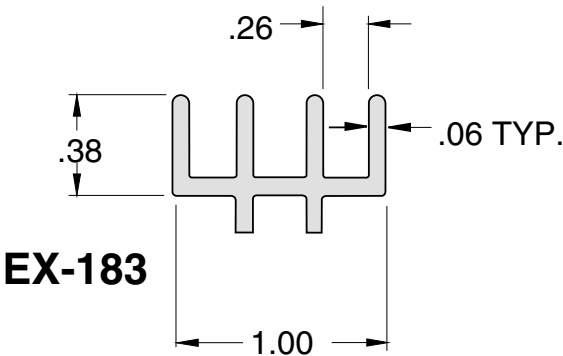
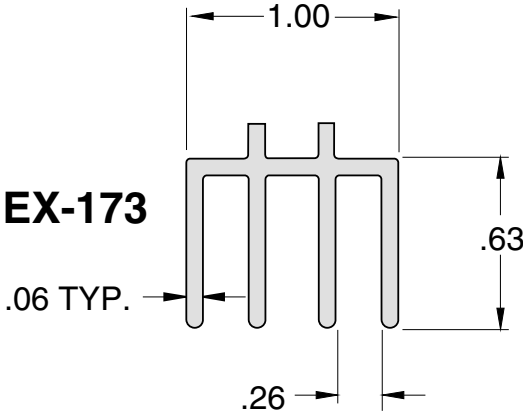
5/16" SLOTS

Door Slides (3 Tracks) 5/16" slots
Aluminum Extrusion

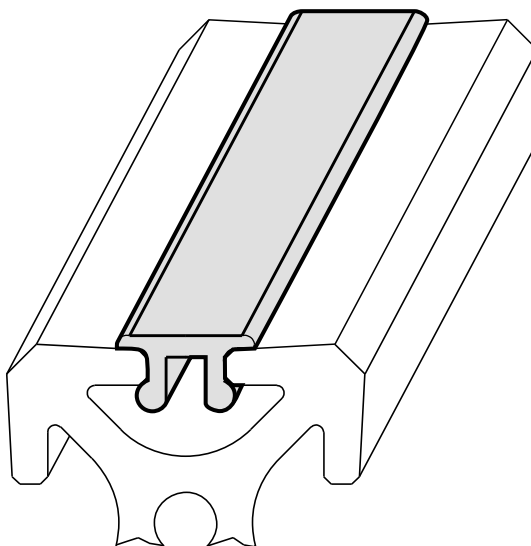


EX-173	Upper Door Slide Track (1/4" panels)
EX-183	Lower Door Slide Track (1/4" panels)

5/16" SLOTS



Material - Aluminum
Finish - Clear Anodize



Sold in 6 ft. lengths

- | | |
|---------------|-------------------------|
| EF-23G | Gray Rigid PVC |
| EF-23B | Black Rigid PVC |
| EF-23Y | Yellow Rigid PVC |
| EF-23A | Clear Anodized Aluminum |

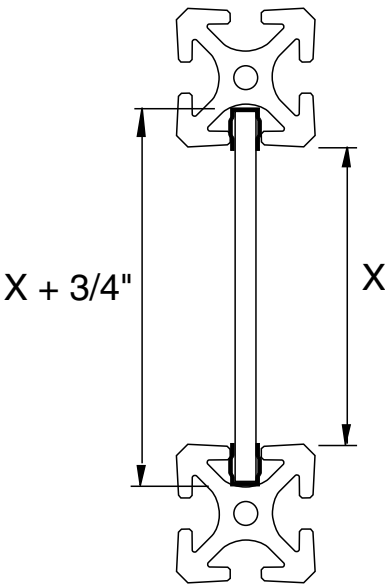
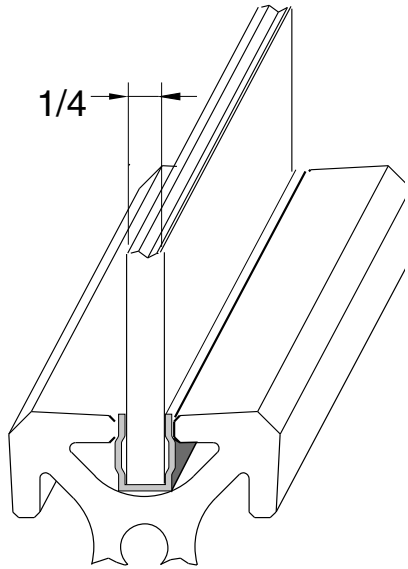
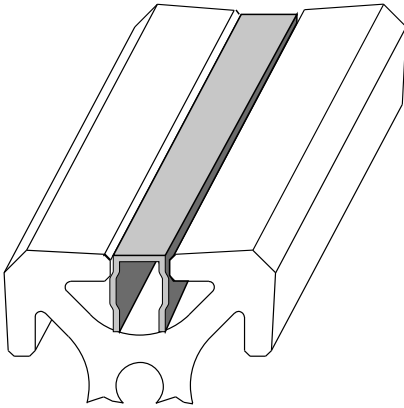
5/16" SLOTS

T-slot Cover or Panel Gasket



EF-45

5/16" SLOTS



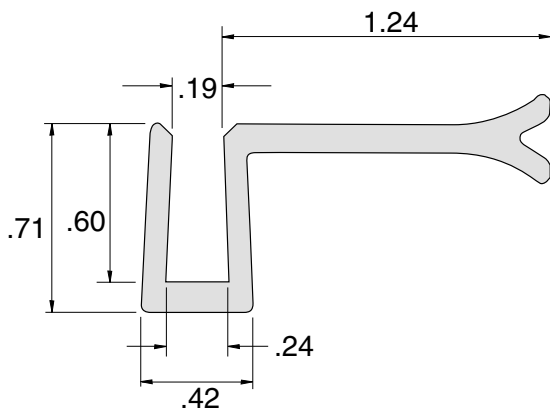
Note:
T-slot cover rest below
surface of extrusion - can
pass under brackets.

**Cut panel
to $X + .75$ "**

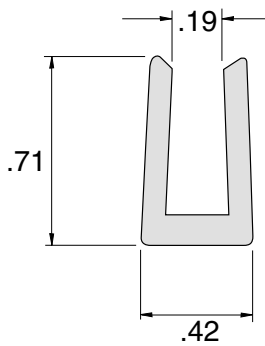
EF-45B Black
EF-45Y Yellow
EF-45G Grey
EF-45SO Safety Orange

Material - Rigid PVC

Stiffener w/handle (.343 lb/ft)	EF-140
Stiffener w/o handle (.173 lb/ft)	EF-141



EF-140



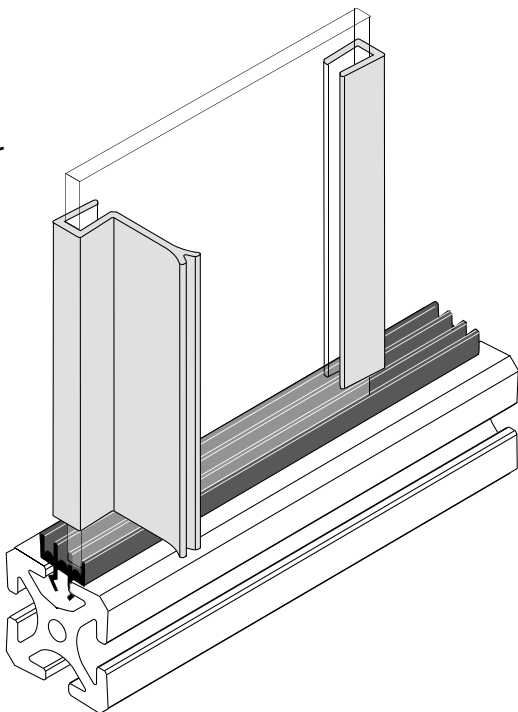
EF-141

5/16" SLOTS

Stocked in 144" lengths
Sold by the inch

Note: Must use 1/4" Lexan for
both EF-140 & EF-141

Note: can be used for
swinging, slide and vertical
lift doors.



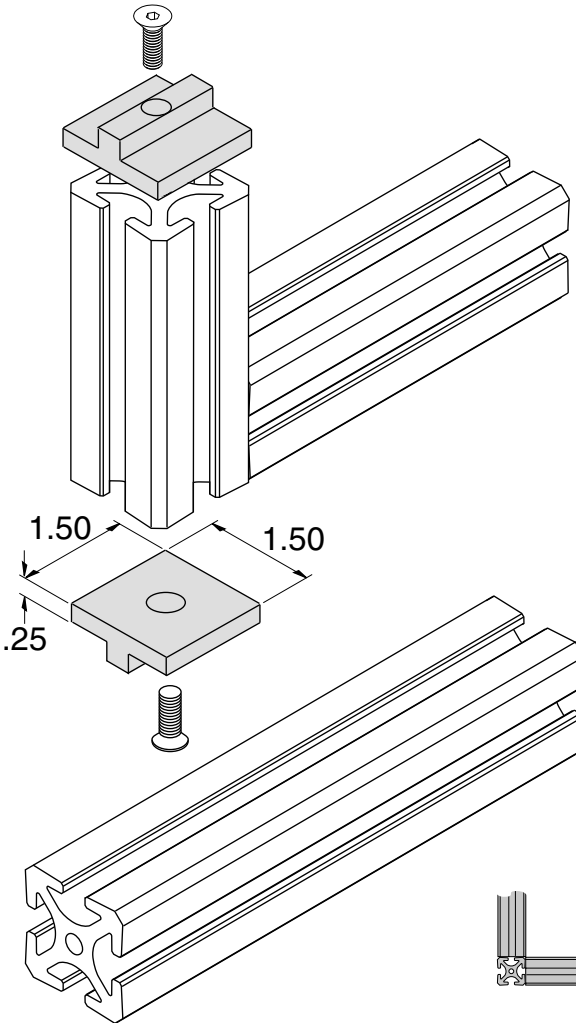
Material - Aluminum
Finish - Clear Anodize

Bi-fold Door Pad



EF-110 use on 1.5 x 1.5 sq. extrusions with 5/16 wide slots

5/16" SLOTS



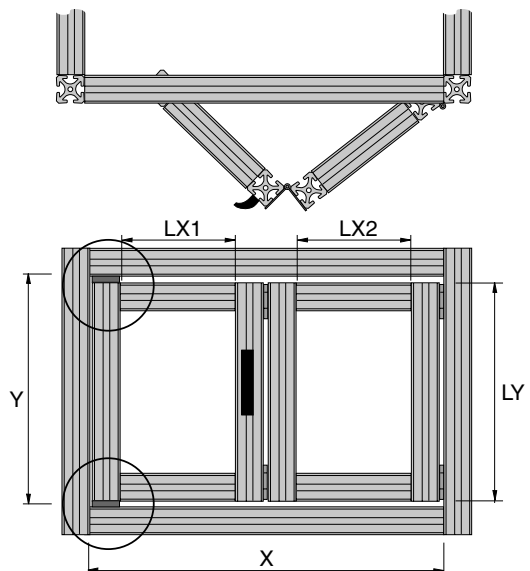
Hardware Included
Material - DELRIN

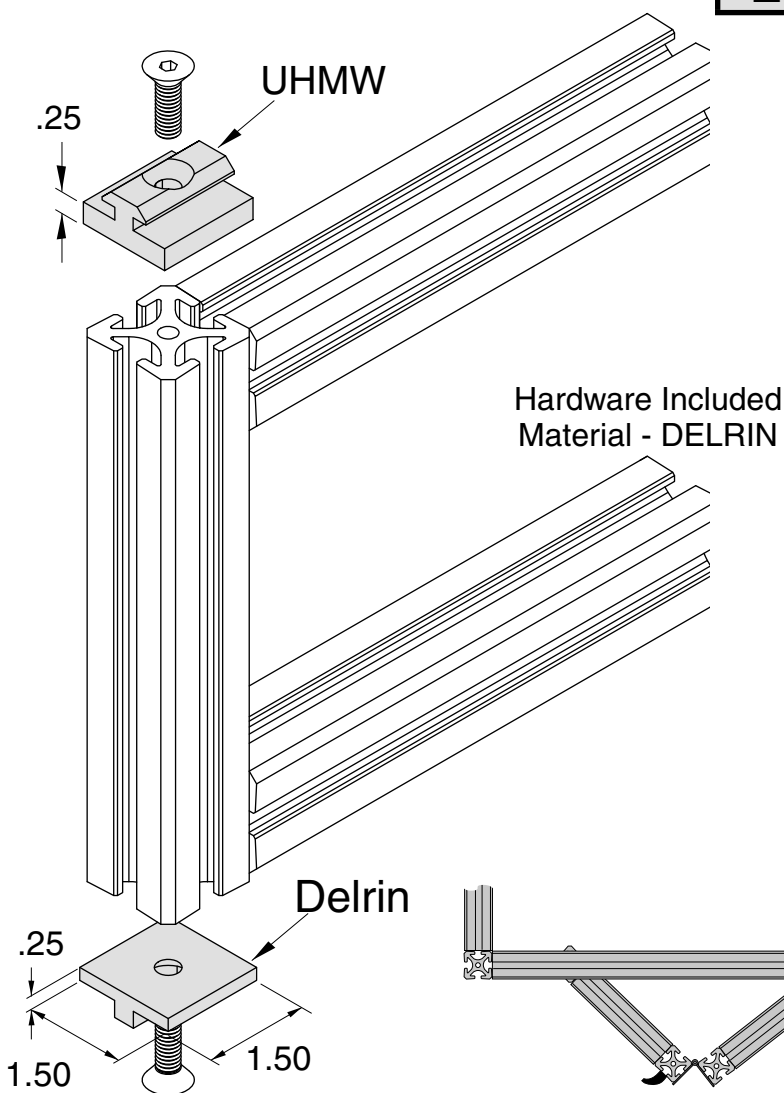
X = width of door opening
Y = height of door opening

$$LX1 = \frac{(X-6.75)}{2} + .9375$$

$$LX2 = \frac{(X-6.75)}{2} - .9375$$

$$LY = Y-.5625$$





X = width of door opening
Y = height of door opening

$$LX1 = \frac{(X-6.75)}{2} + .9375$$

$$LX2 = \frac{(X-6.75)}{2} - .9375$$

$$LY = Y - .5625$$

5/16" SLOTS

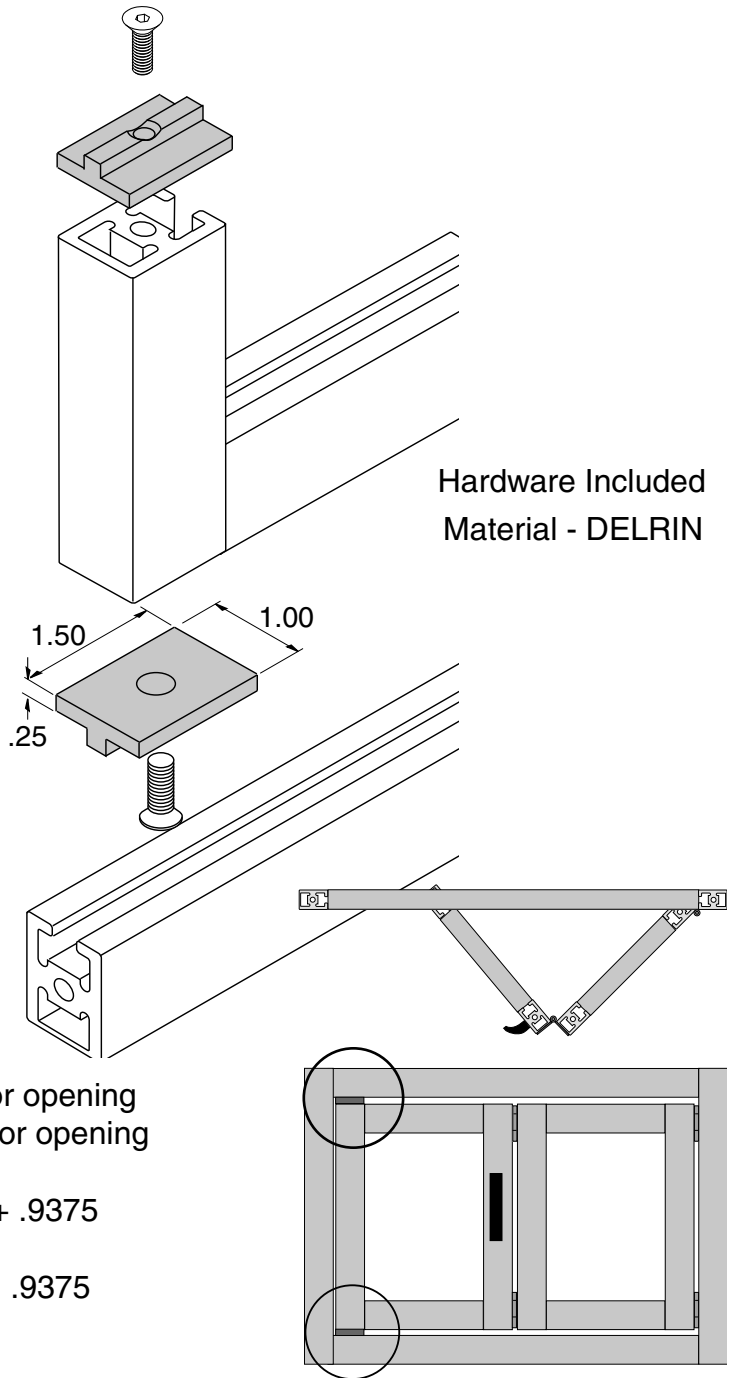
Bi-fold Door Pad



EF-115

use on EX-52 and EX-54

5/16" SLOTS



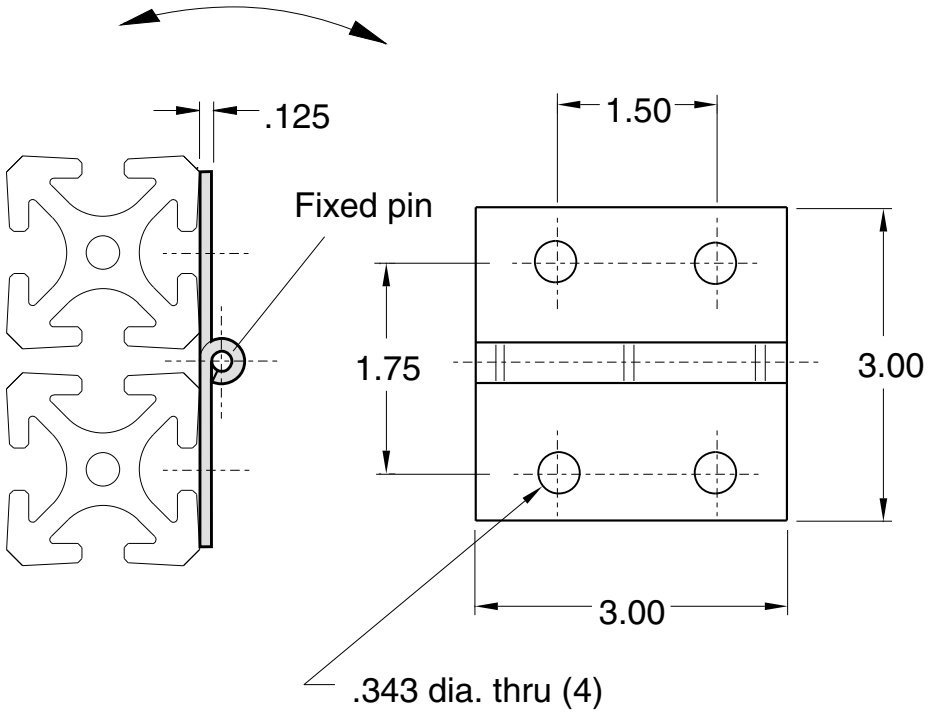
Hardware Included
Material - DELRIN

X = width of door opening
Y = height of door opening

$$LX1 = \frac{(X-6.75)}{2} + .9375$$

$$LX2 = \frac{(X-6.75)}{2} - .9375$$

$$LY = Y-.5625$$



Hardware Included

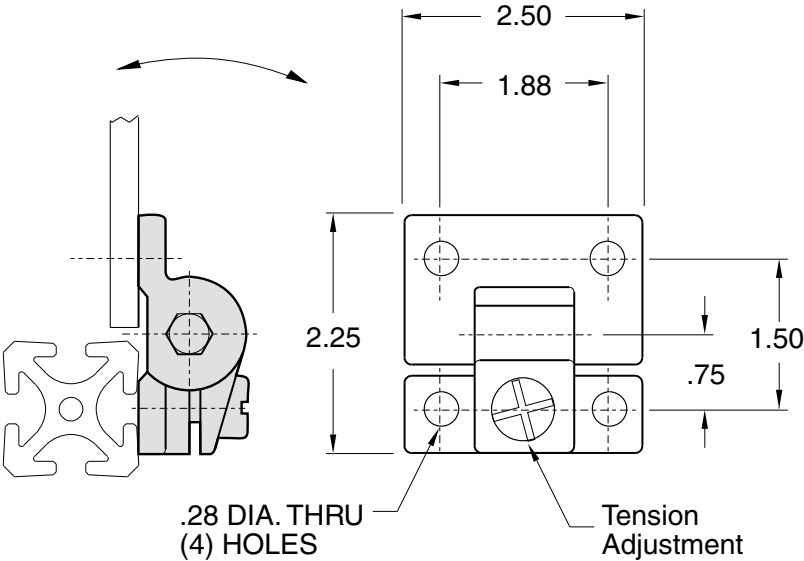
Material - Aluminum
Finish - Clear Anodize

Plastic Hinge
(Adjustable Friction Type)



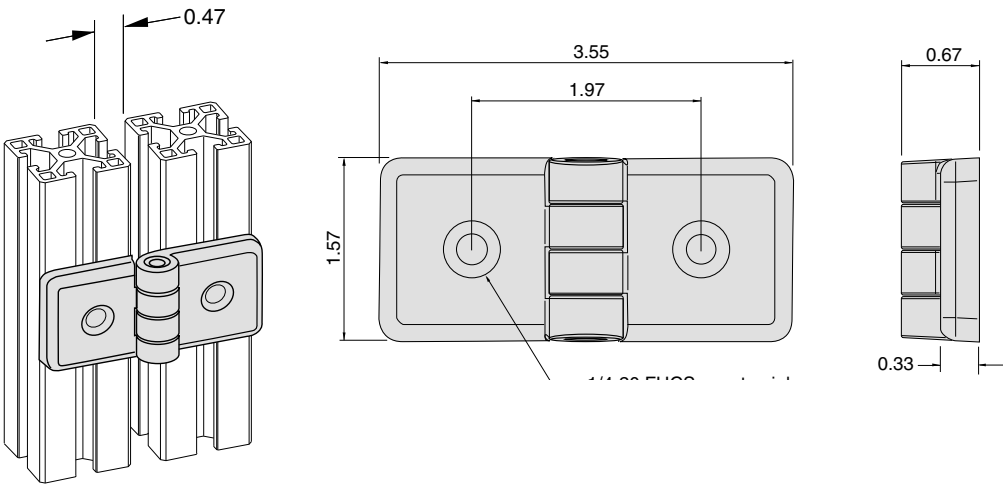
EF-20

5/16" SLOTS

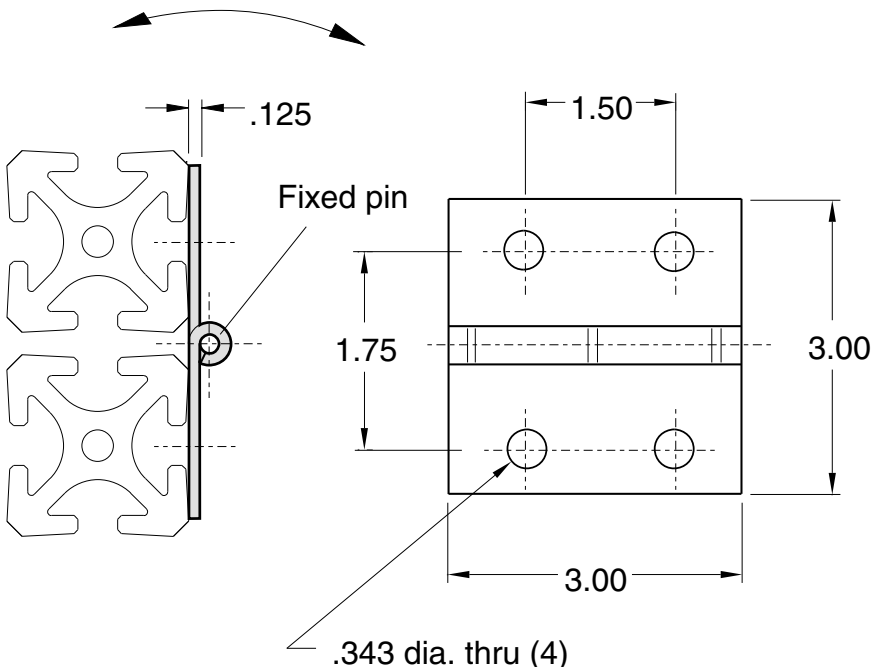


Hardware Included
Material - Plastic

EF-76 Heavy Duty Plastic Hinge



Hardware Included
Material - Black Nylon



Hardware Included

Material - Steel
Finish - Black Powder Coat

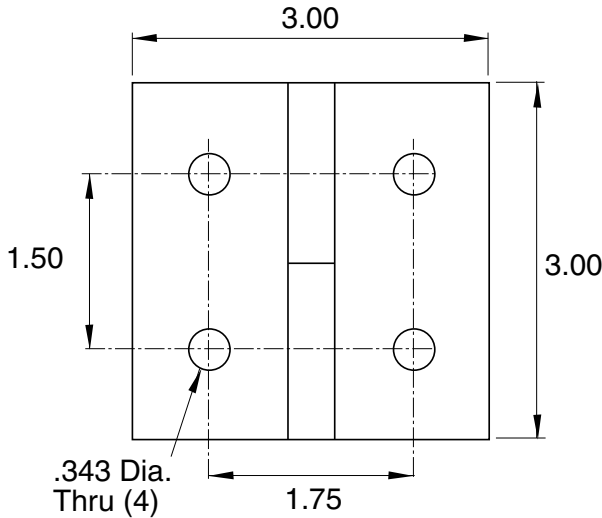
**FRAME
WORLD**

5/16" SLOTS

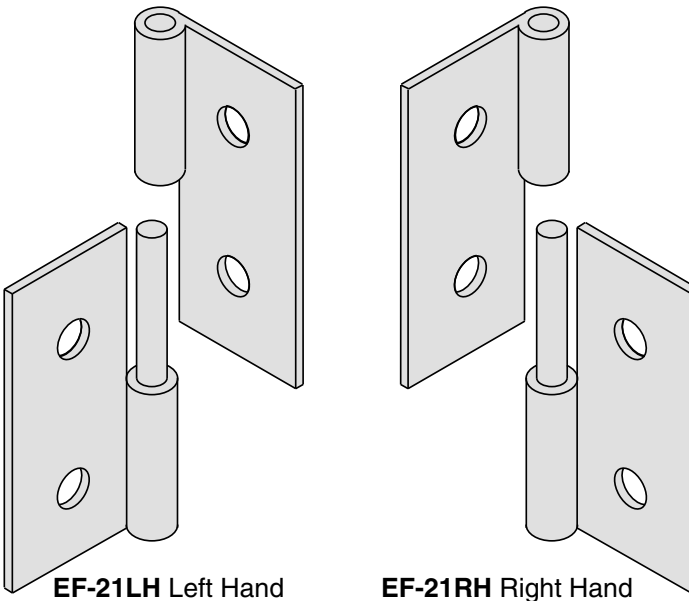


224

Zinc Plated	EF-21LH
Flat Black Powder Coat	BLF-21LH
Zinc Plated	EF-21RH
Flat Black Powder Coat	BLF-21RH



5/16" SLOTS

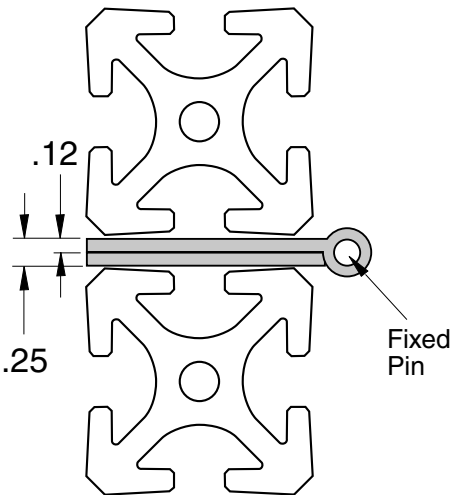
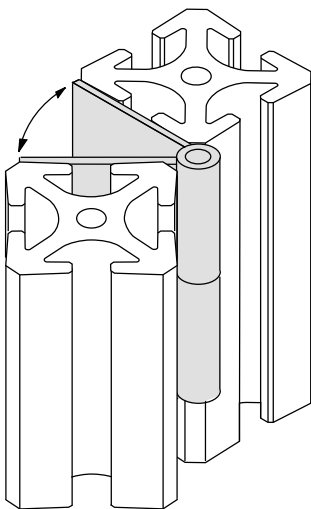
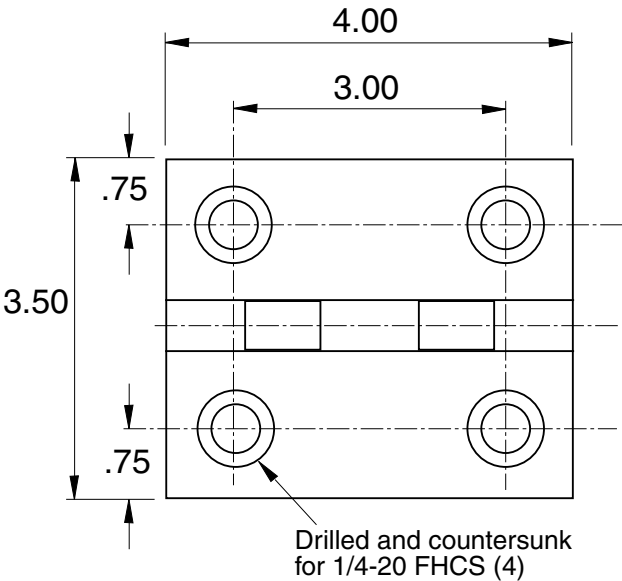


Hardware Included

Material - Steel

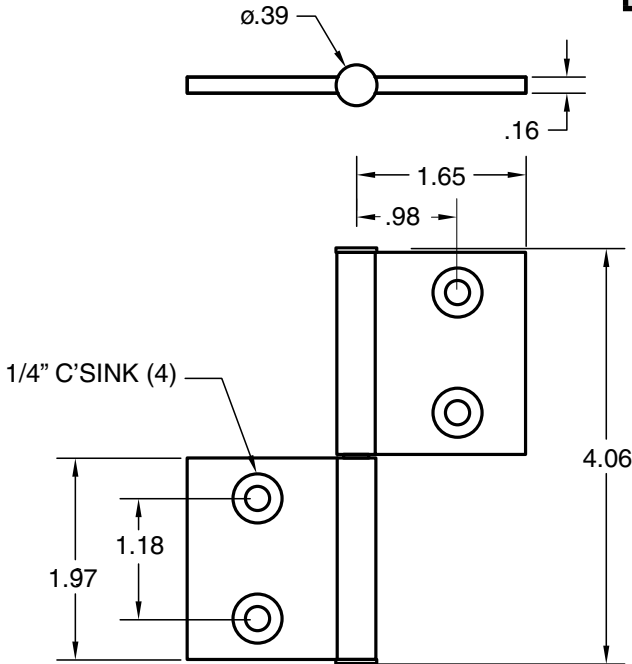
EF-70

5/16" SLOTS

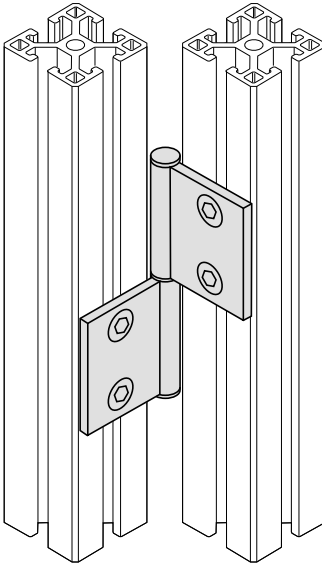


Hardware Included

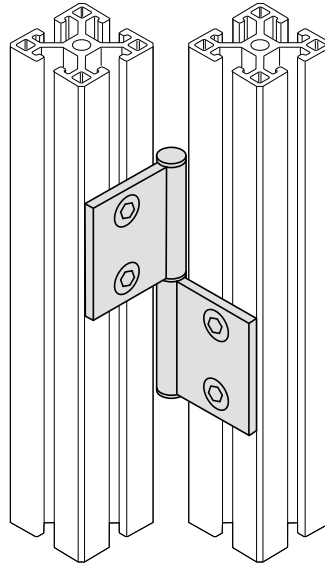
Material - Steel
Finish - Black Powder Coat



5/16" SLOTS



EF-71LH Left Hand



EF-71RH Right Hand

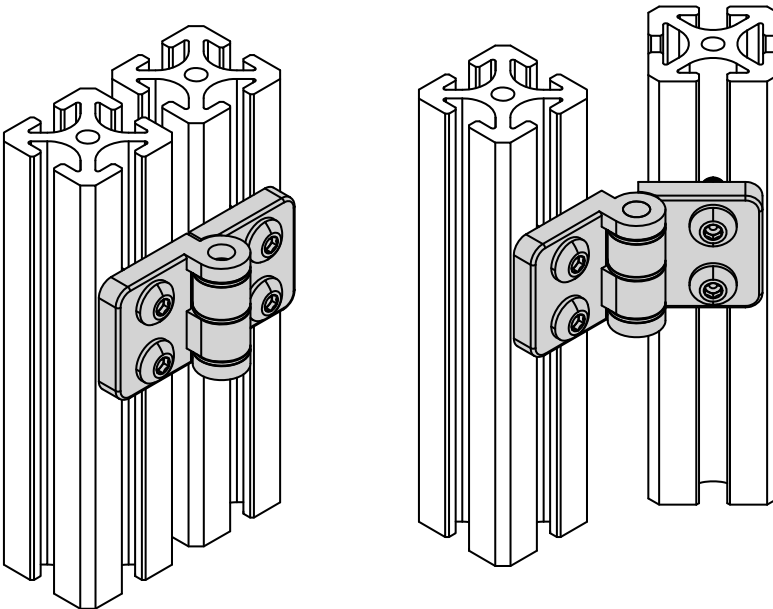
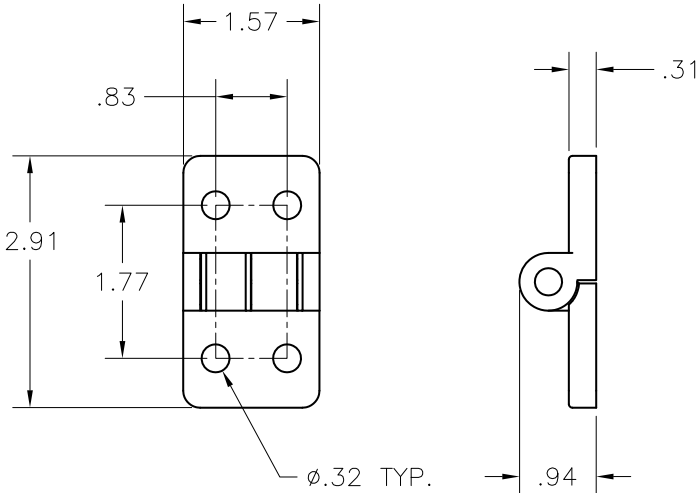
Hardware Included

Material - Aluminum
Finish - Clear Anodize

Die Cast Zinc Hinge

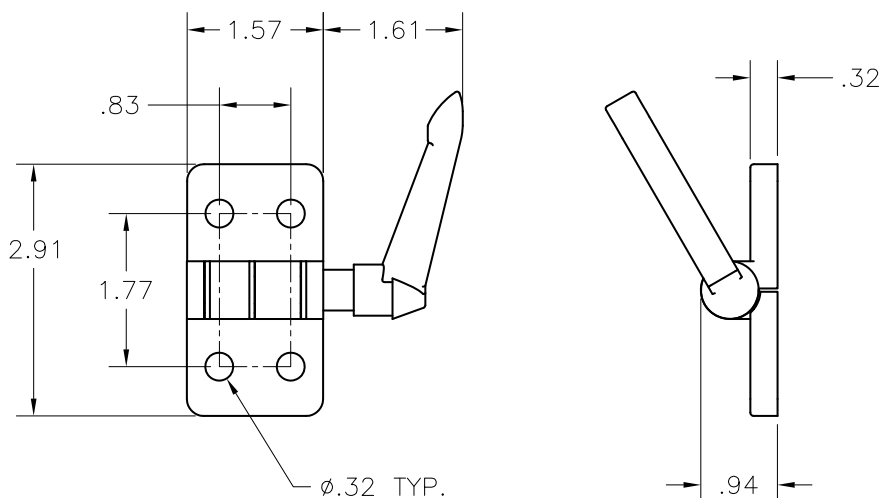
EF-73

5/16" SLOTS

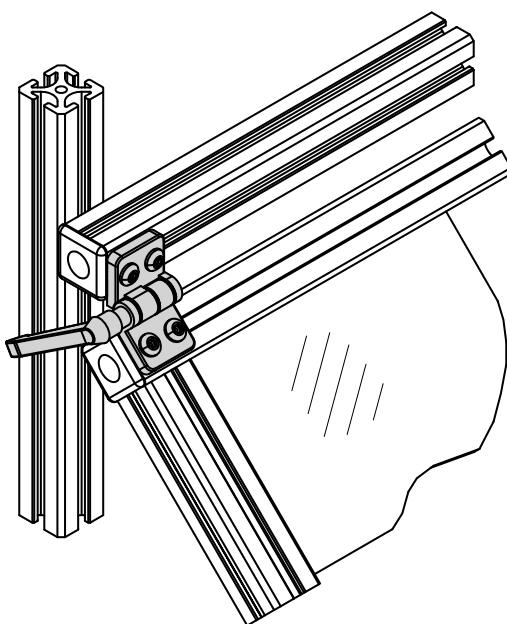


Hardware Included

Material - Zinc Die Cast
Finish - Black Powder Coat



5/16" SLOTS



Hardware Included

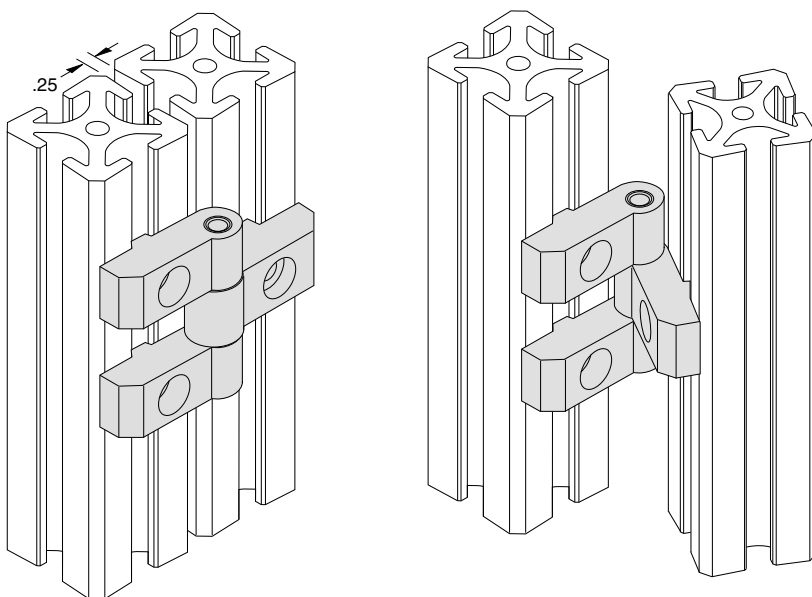
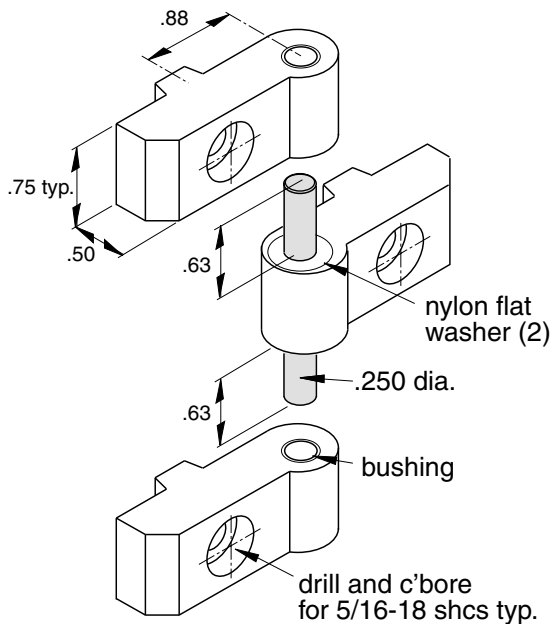
Material - Zinc Die Cast
Finish - Black Powder Coat

FRAME WORLD

Clear Anodized

Flat Black Powder Coat

5/16" SLOTS



To specify metric hardware, add -M **EB-130-M**
Material - Aluminum



Left Hand Lift-Off Hinge - 5/16" slots

One Set w/Long & Short Pin Assemblies

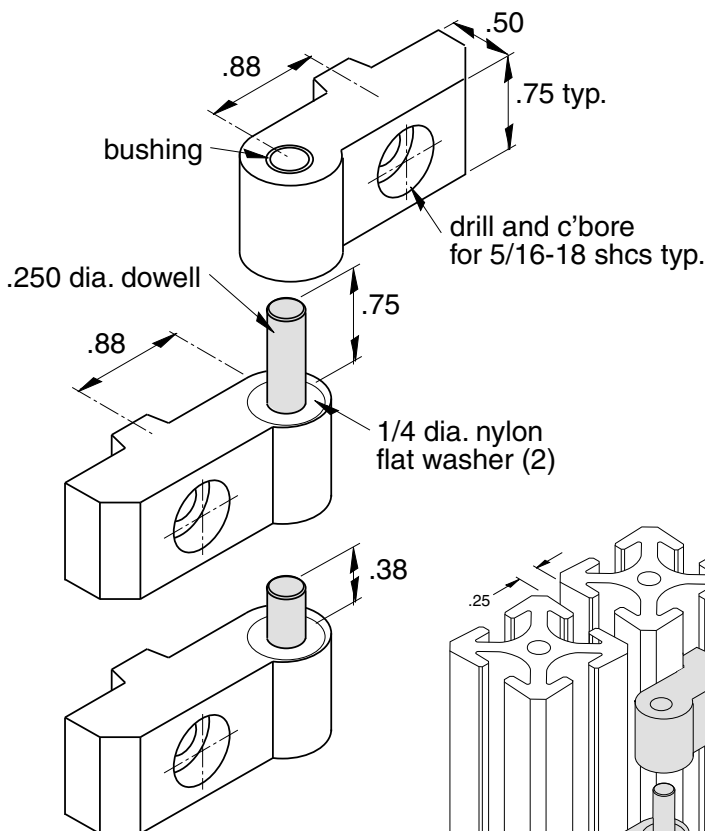
EB-132

Long Pin Assembly Only

EB-132L

Short Pin Assembly Only

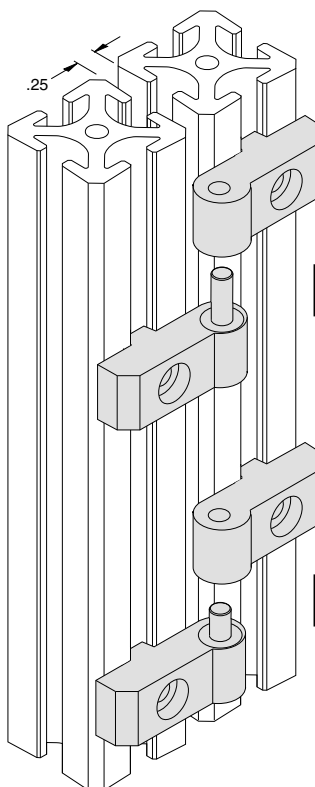
EB-132S



Hardware Included
To specify metric hardware,
add -M
EB-132-M

Material - Aluminum
Finish - Clear Anodize

Note: Use short and long pin
assemblies together as shown to
ease lift-off and replacement of doors.



EB-132L

EB-132S

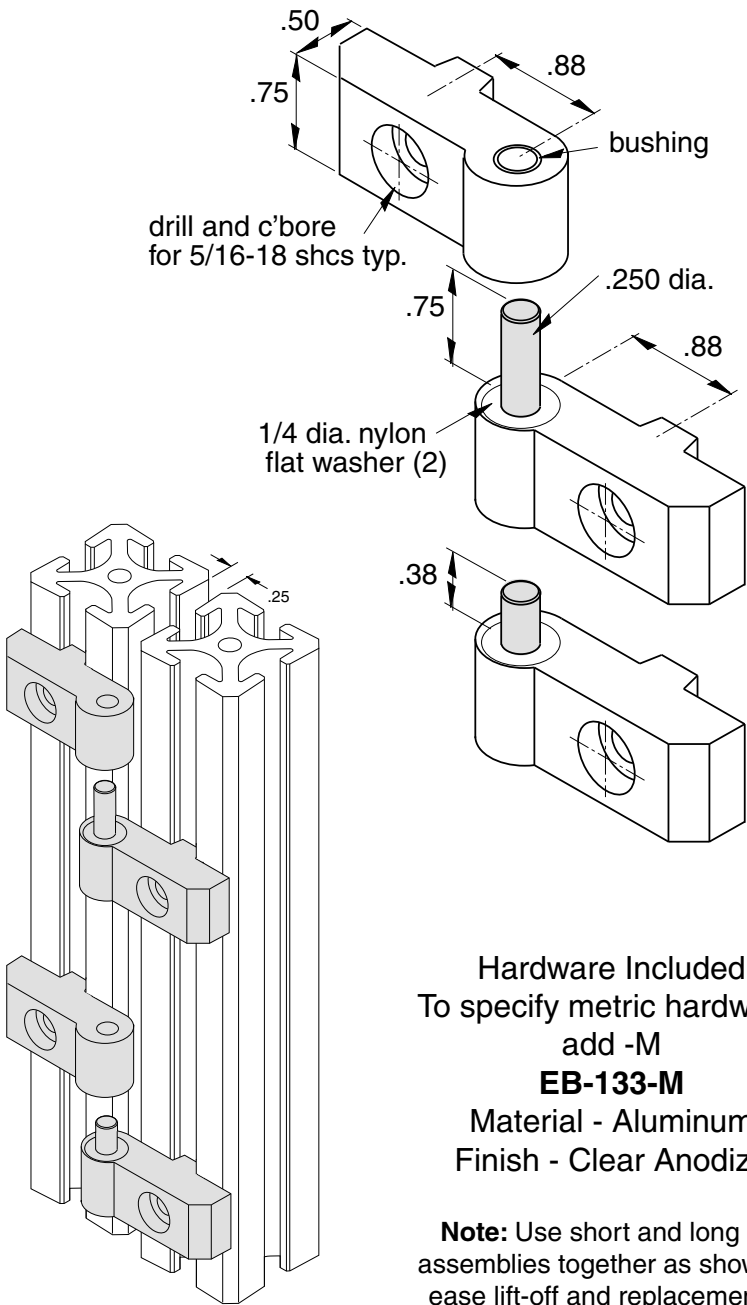
5/16" SLOTS

Right Hand Lift-Off Hinge - 5/16" slots



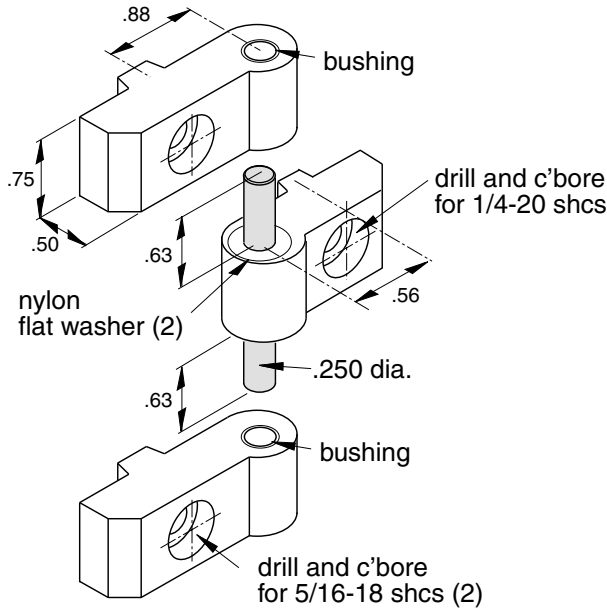
EB-133	One Set w/Long & Short Pin Assemblies
EB-133L	Long Pin Assembly Only
EB-133S	Short Pin Assembly Only

5/16" SLOTS

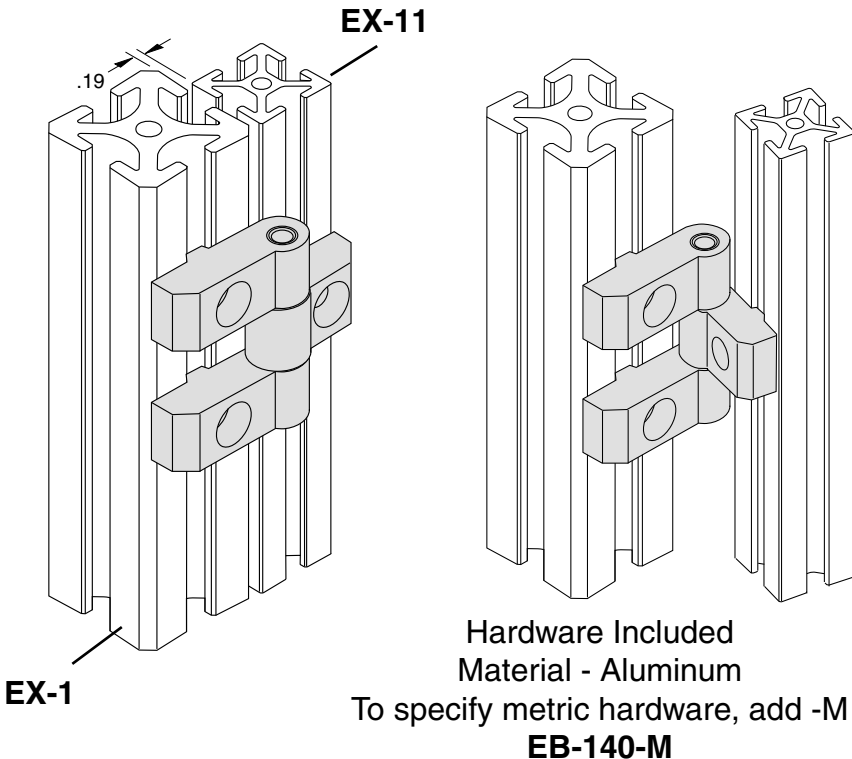


Hardware Included
To specify metric hardware,
add -M
EB-133-M
Material - Aluminum
Finish - Clear Anodize

Note: Use short and long pin
assemblies together as shown to
ease lift-off and replacement of
doors.



5/16" SLOTS



Left Hand Transition Lift-Off Hinge 5/16 - 1/4 slots



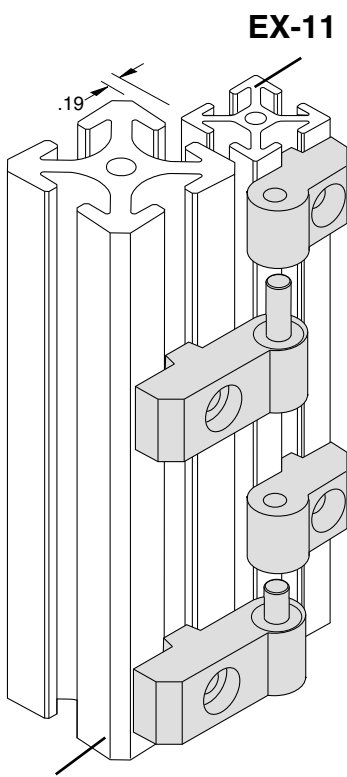
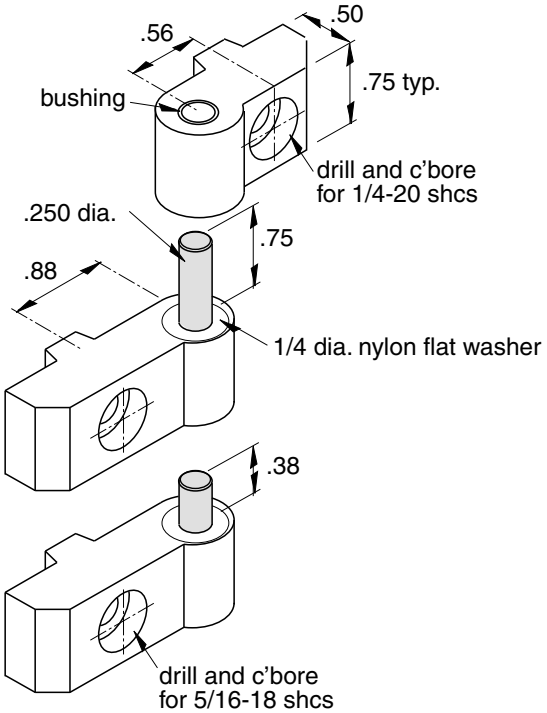
EB-142
EB-142L
EB-142S

- One Set w/Long & Short Pin Assemblies
- Long Pin Assembly Only
- Short Pin Assembly Only

Hardware Included
Material - Aluminum
Finish - Clear Anodize

Note: Use short and long pin assemblies together as shown to ease lift-off and replacement of doors.

5/16" SLOTS



EB-142L

EB-142S

One Set w/Long & Short Pin Assemblies

EB-143

Long Pin Assembly Only

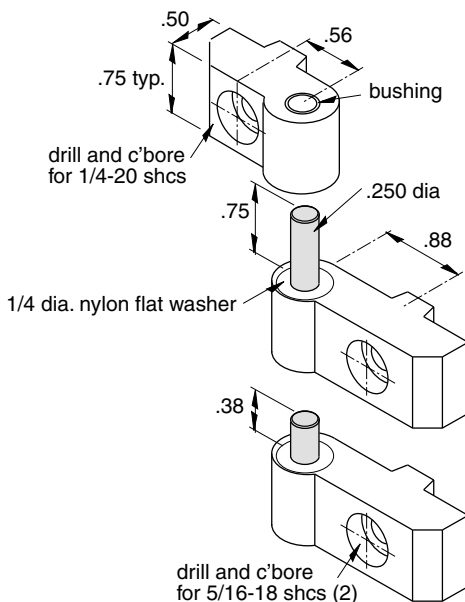
EB-143L

Short Pin Assembly Only

EB-143S

Hardware Included
Material - Aluminum
Finish - Clear Anodize

Note: Use short and long pin assemblies together as shown to ease lift-off and replacement of doors.



5/16" SLOTS

EX-11

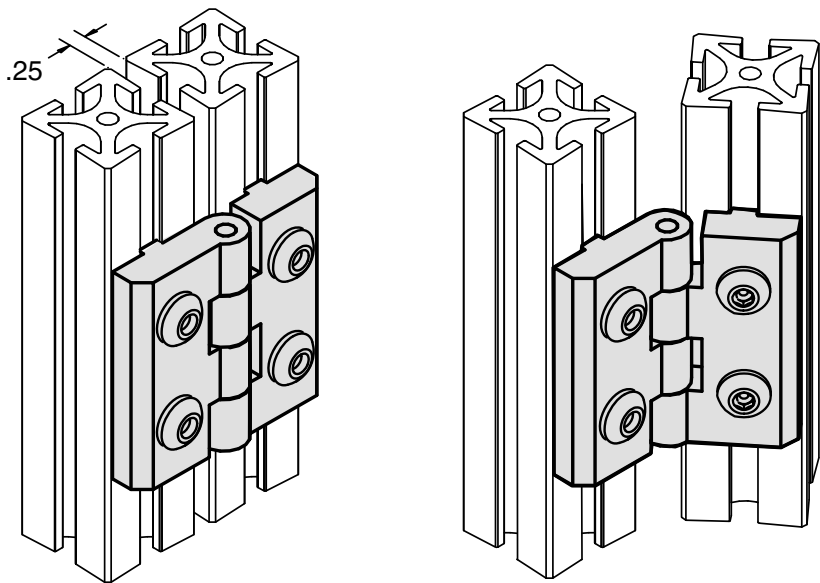
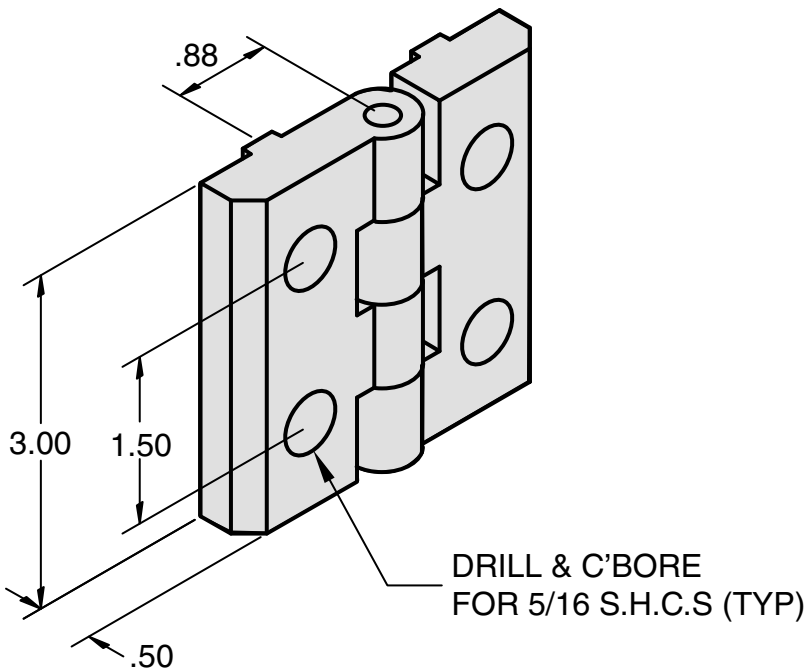
EB-143L

EB-143S

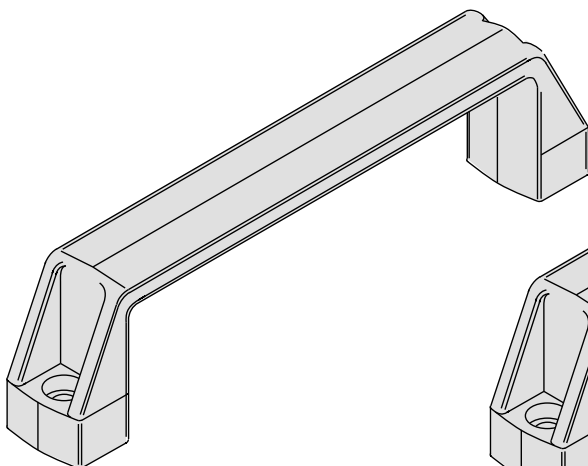
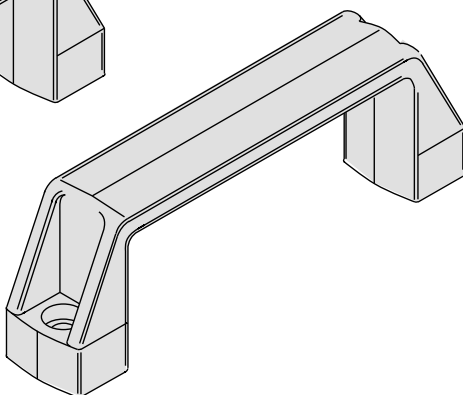
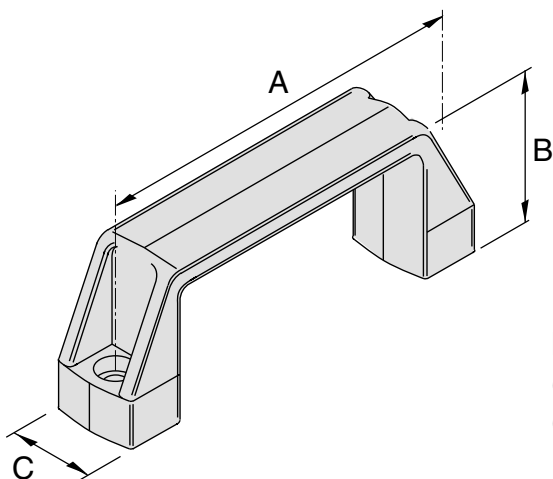
EX-1

EB-134

5/16" SLOTS



Hardware Included
Material - Aluminum
Finish - Clear Anodize


EF-15C

EF-15B

EF-15A

Recommended
Hardware
(2) EF-11-.75 SHCS
(2) EF-2 T-nut

Material - Black Plastic

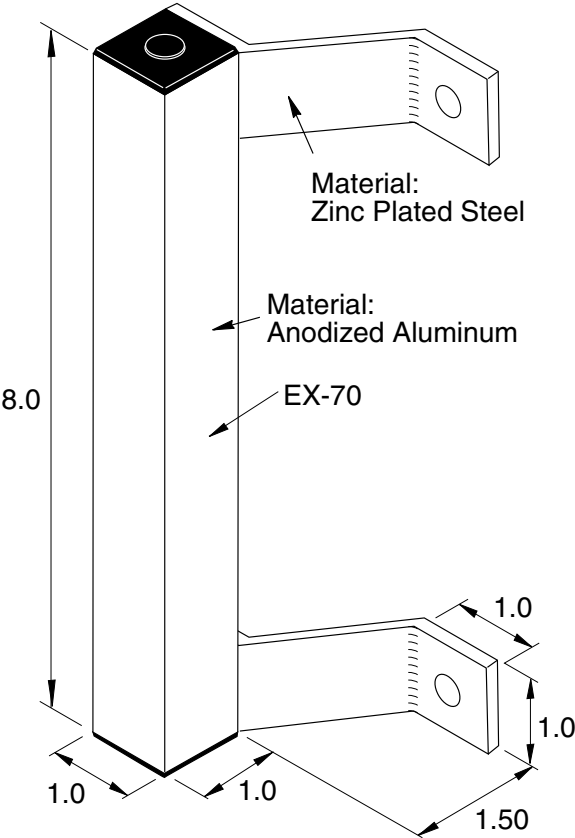
Part No.	A	B	C
EF-15A	4.61	1.61	1.06
EF-15B	5.20	1.77	1.02
EF-15C	7.05	1.97	1.10

Offset Extrusion Door Handle

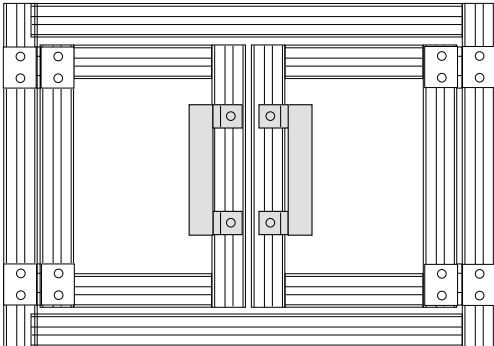
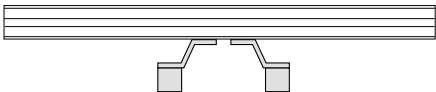


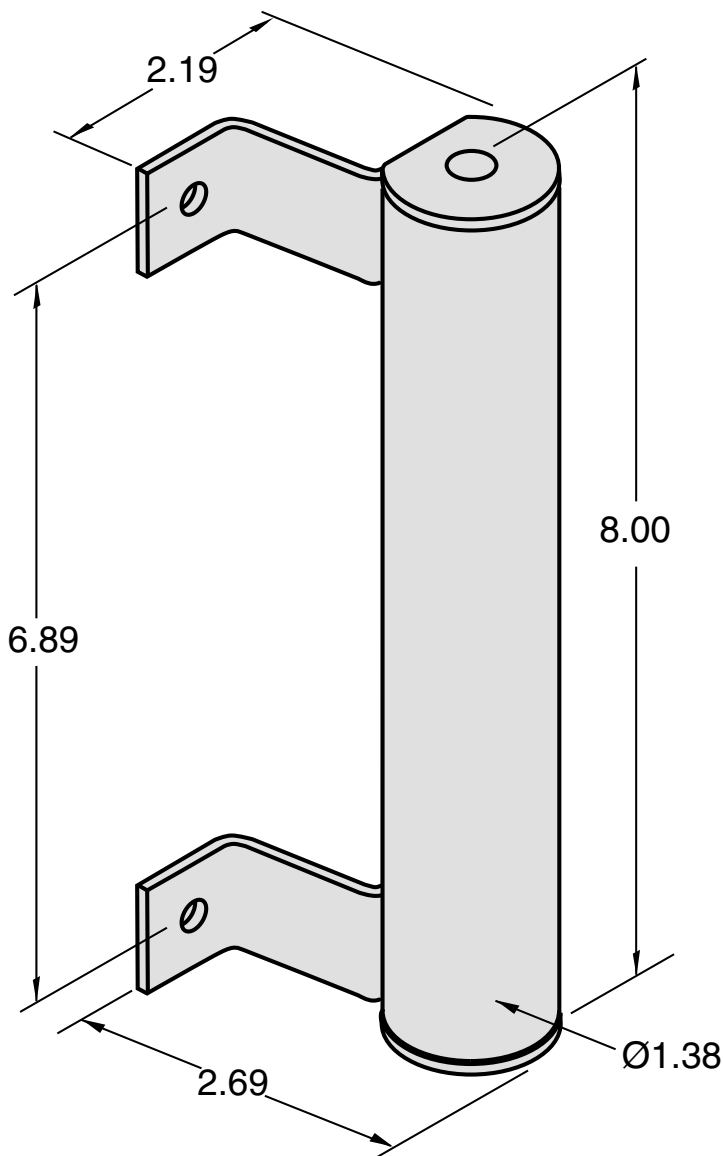
EF-48

5/16" SLOTS



Hardware
Included





Hardware
Included

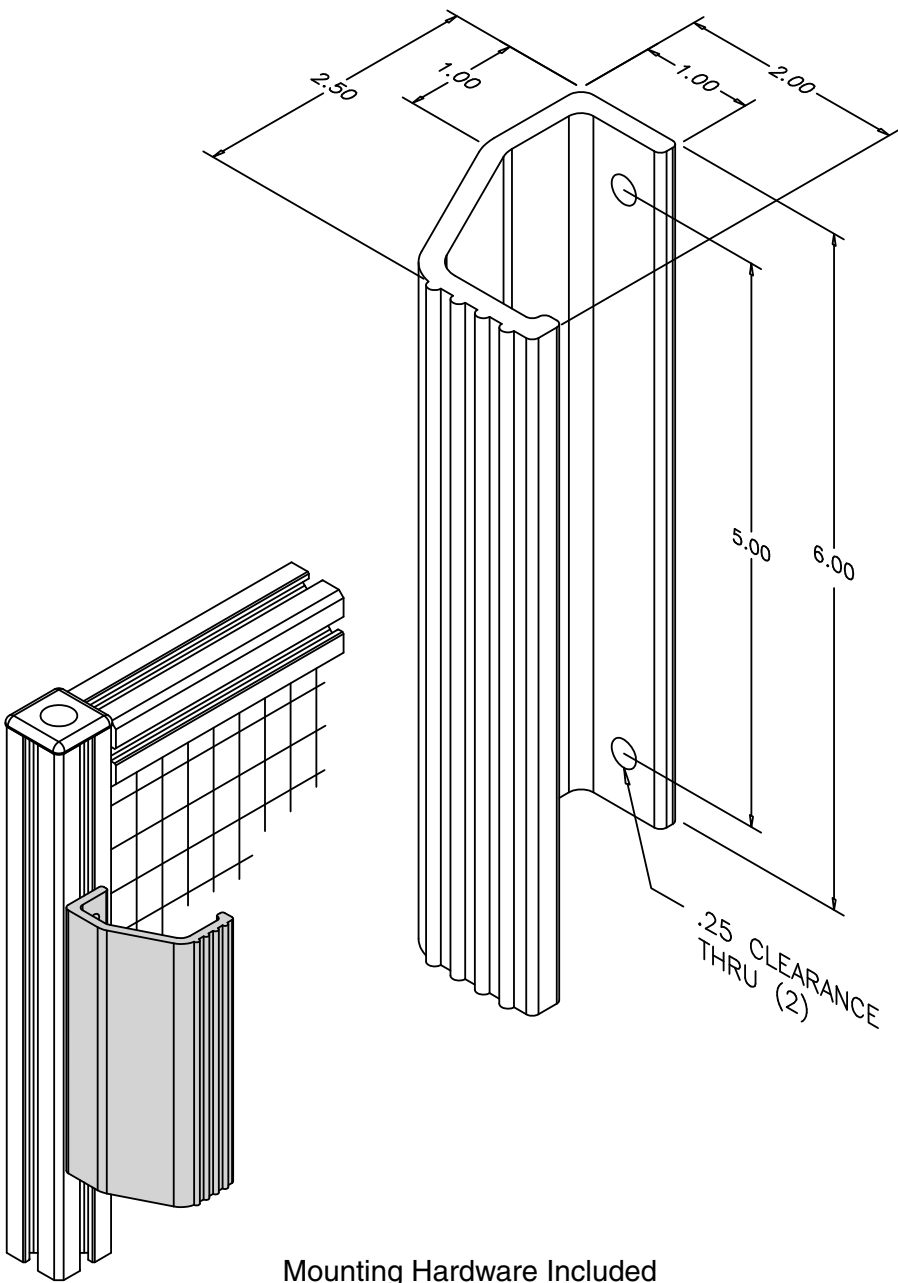
5/16" SLOTS

Extruded Door Handle



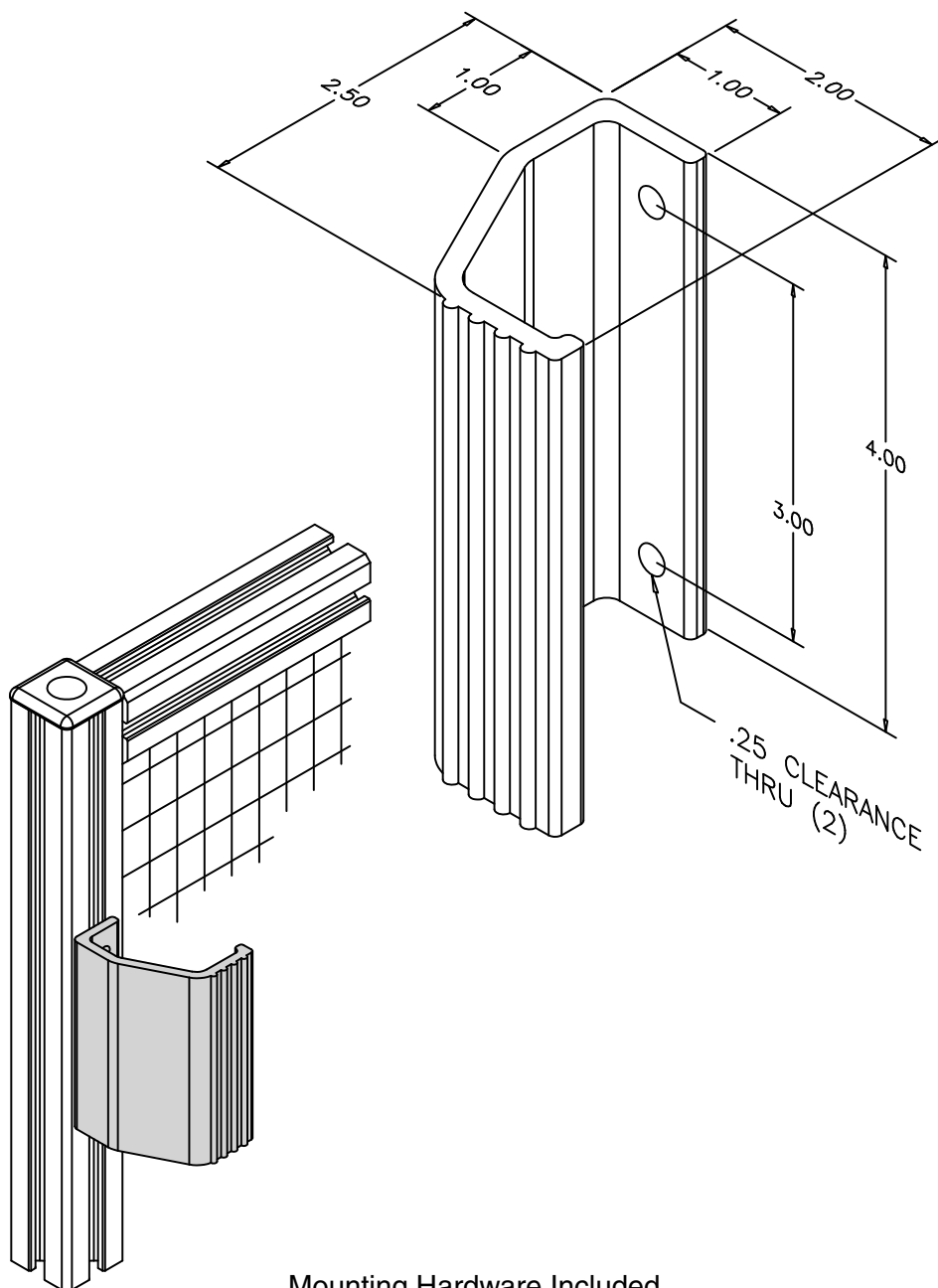
EF-180

5/16" SLOTS



Mounting Hardware Included

Material - Aluminum
Finish - Black Powder Coat



5/16" SLOTS

Mounting Hardware Included

Material - Aluminum
Finish - Black Powder Coat

Extruded Door Hand Grip

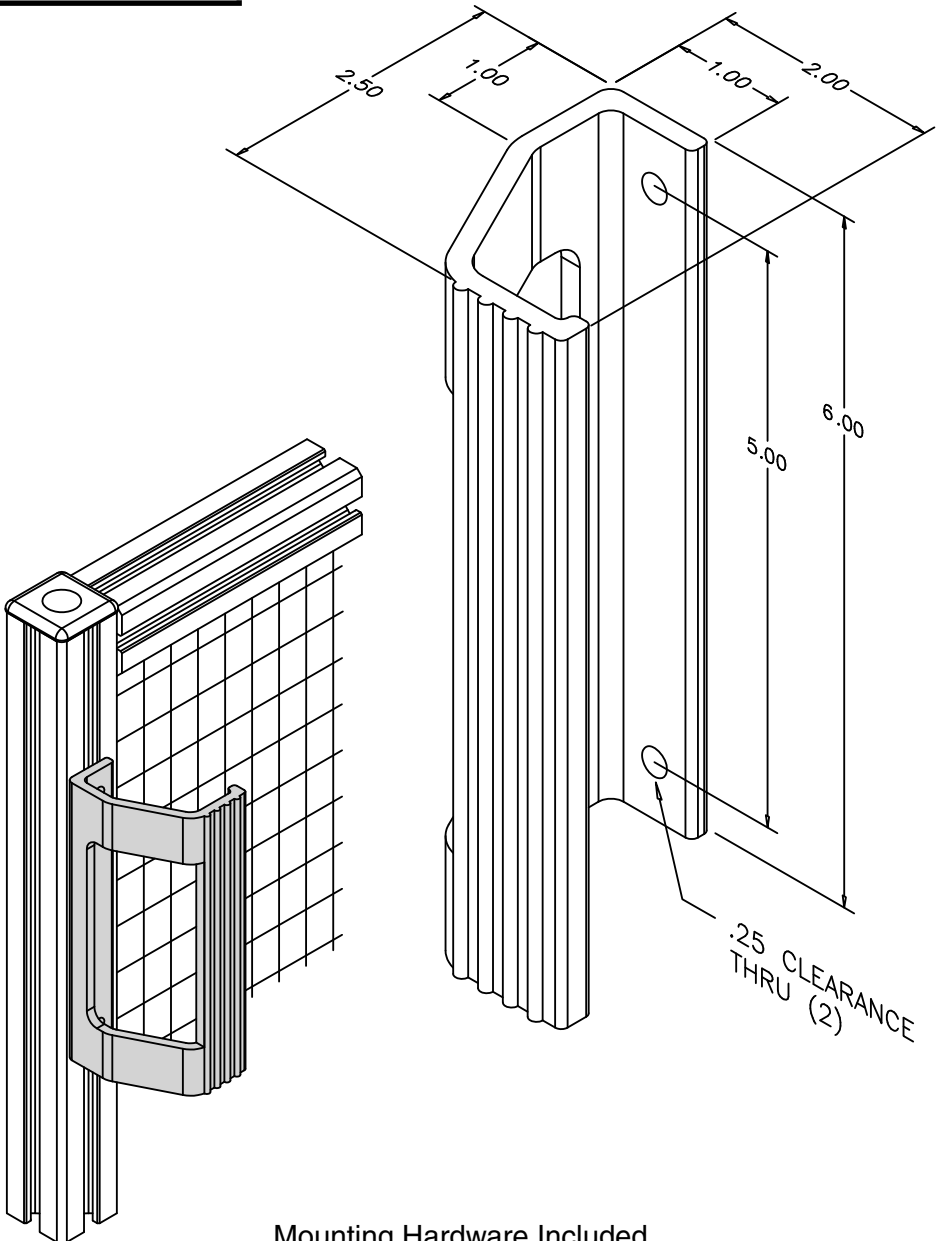
EF-182

Black powder coat

EF-182-YW

Yellow powder coat

5/16" SLOTS



Mounting Hardware Included

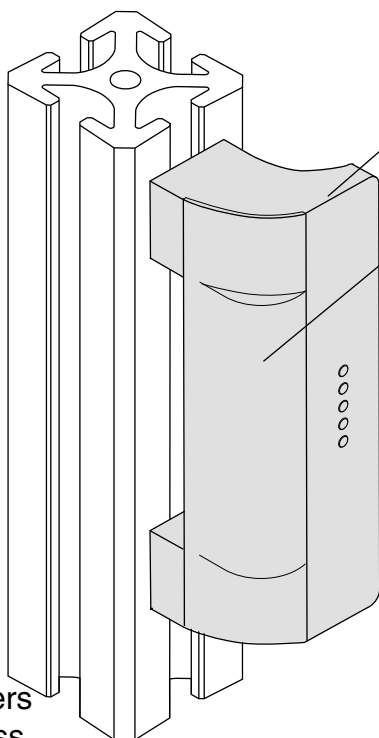
Material - Aluminum

EF-125

EF-126

EF-127

5/16" SLOTS



Black Handle Base

Colored Bolt Cover

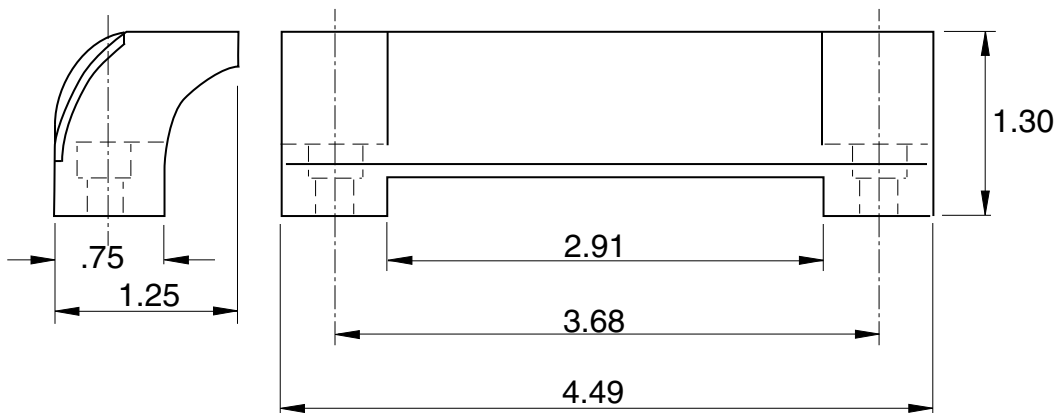
EF-125 Black Cover
EF-126 Yellow Cover
EF-127 Orange Cover

Note: Fingers
will not pass
through

Recommended
Hardware

For 5/16" slot sizes, use:
(2) 11-222 & (2) EF-2A

For 1/4" slot sizes, use:
(2) 11-221 & (2) 11-210



Material - Plastic

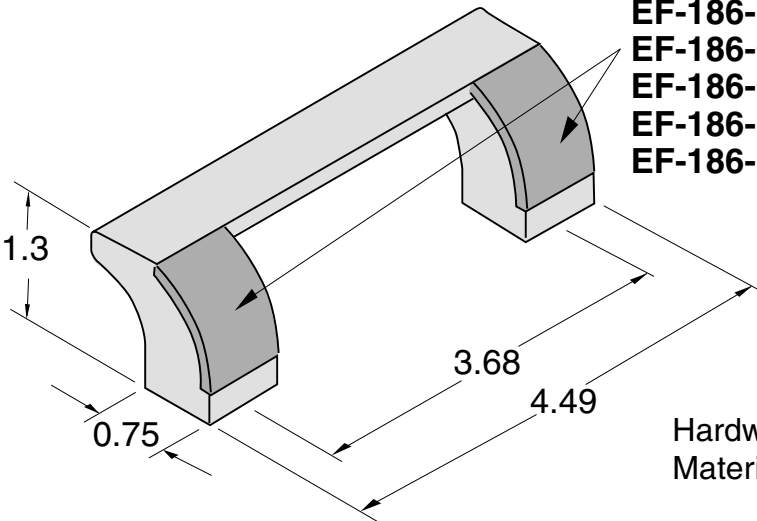
Plastic Guard Handle



EF-186

- Colored snap covers
EF-186-BK Black
EF-186-BL Blue
EF-186-GR Grey
EF-186-OR Orange
EF-186-RD Red
EF-186-YW Yellow

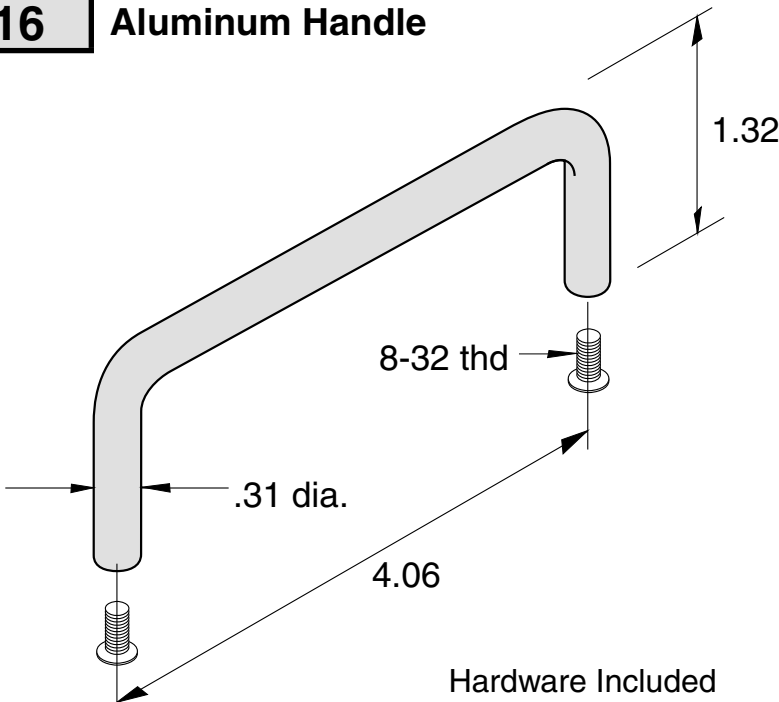
5/16" SLOTS



Hardware Included
Material - Plastic

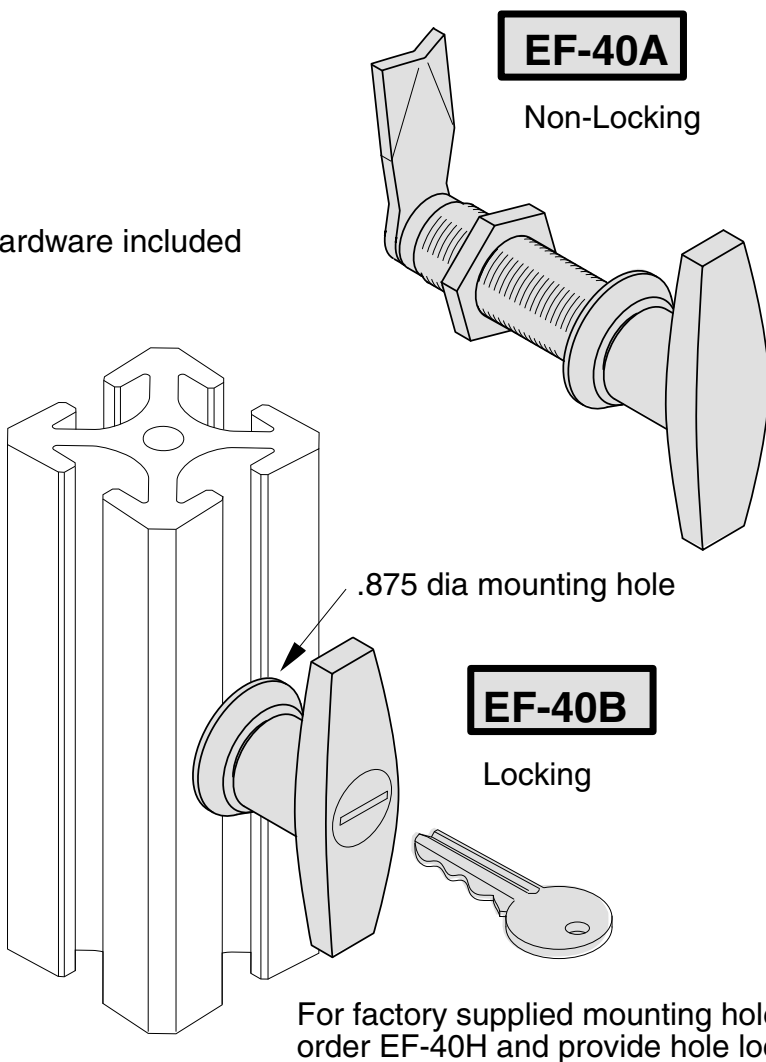
EF-16

Aluminum Handle



Hardware Included
Note: 8-32 bolt length determined by panel thickness
Material - Aluminum
Finish - Clear Anodize

Hardware included



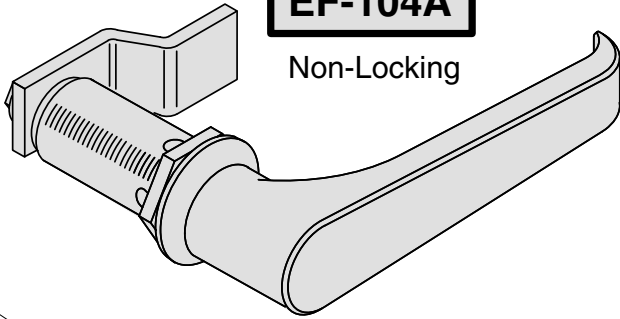
5/16" SLOTS

EF-104

5/16" SLOTS

EF-104A

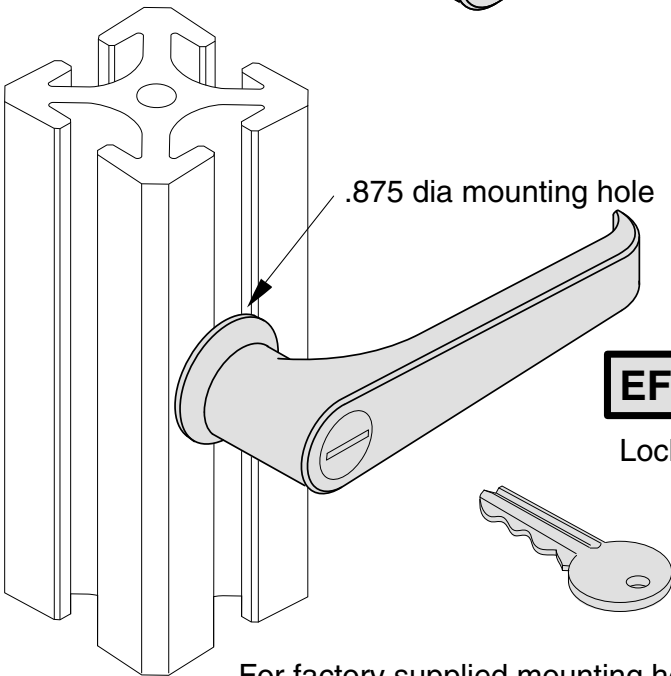
Non-Locking



.875 dia mounting hole

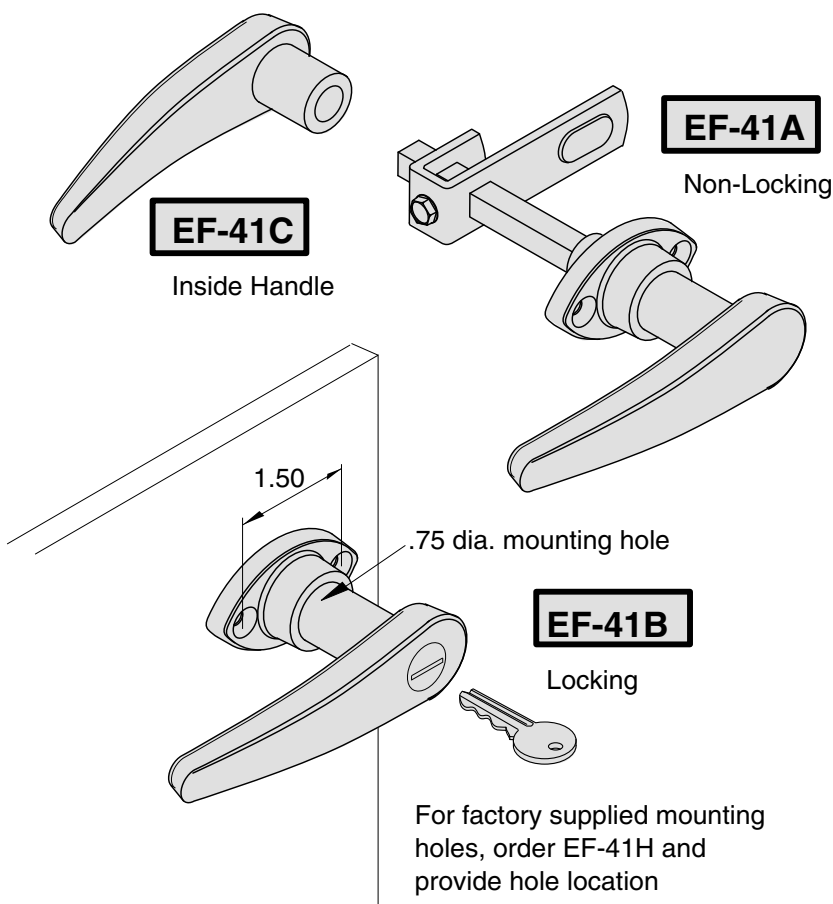
EF-104B

Locking



For factory supplied mounting hole,
order EF-104H and provide hole location

Material - Zinc
Handle - Black Polyamide

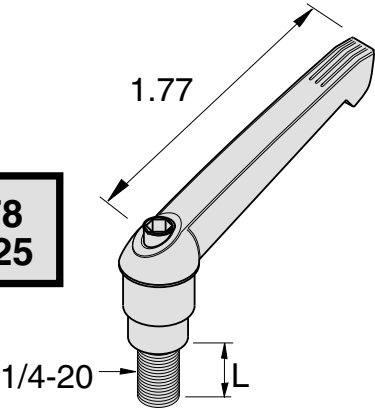


Material - Steel
Handle Finish - Chrome

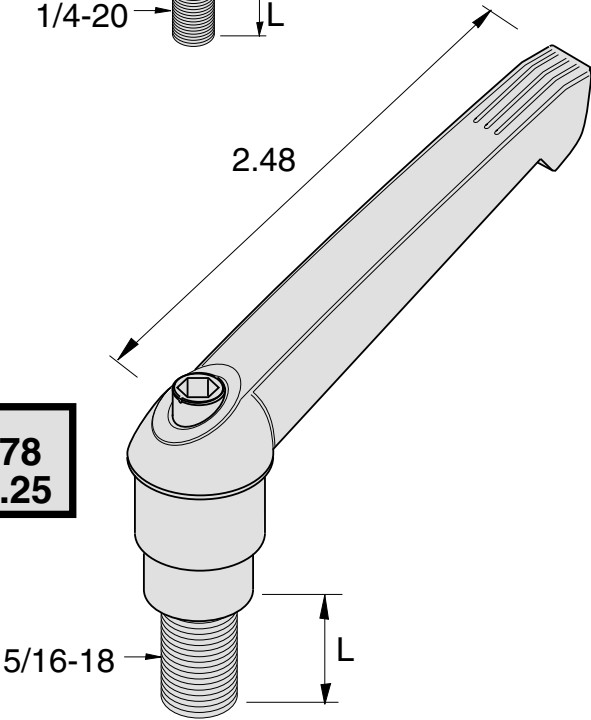
EF-32

5/16" SLOTS

EF-32-1, L= .78
EF-32-2, L=1.25

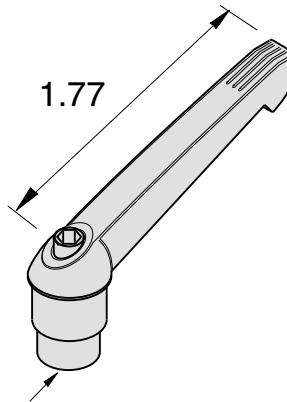


EF-32-3, L= .78
EF-32-4, L=1.25



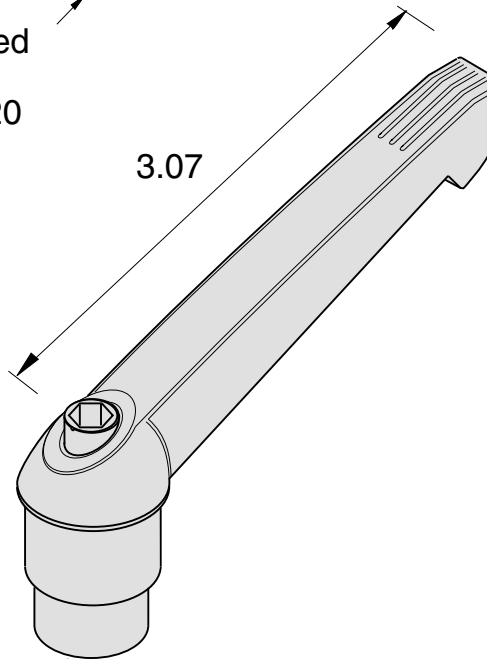
Handle Material - Plastic

EF-33-1



tapped
for
1/4-20

EF-33-2



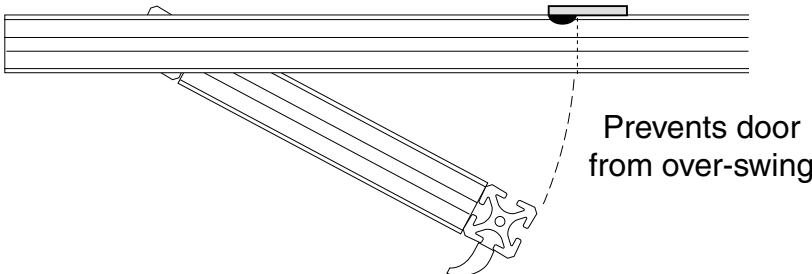
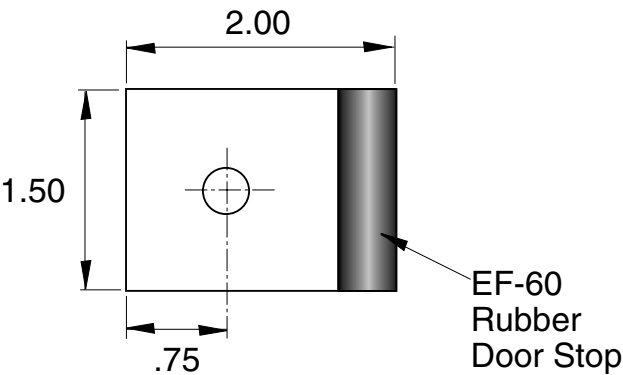
tapped for
5/16-18

5/16" SLOTS

Handle Material - Plastic

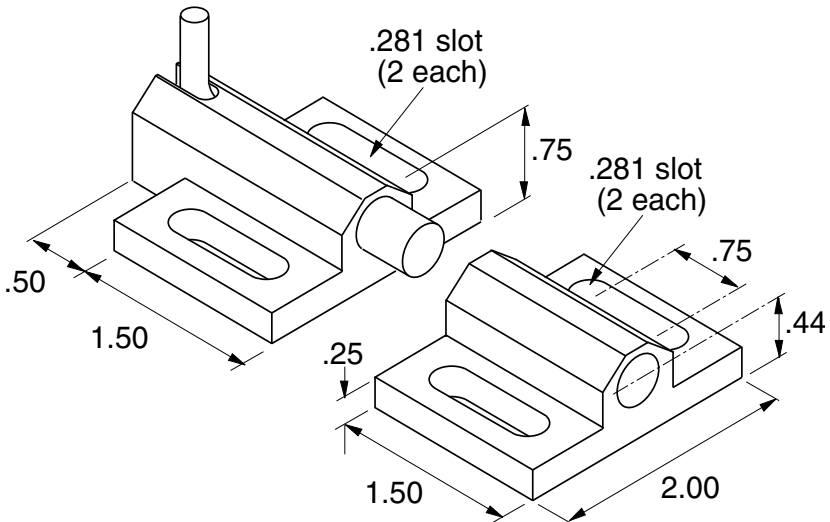
EB-35

5/16" SLOTS

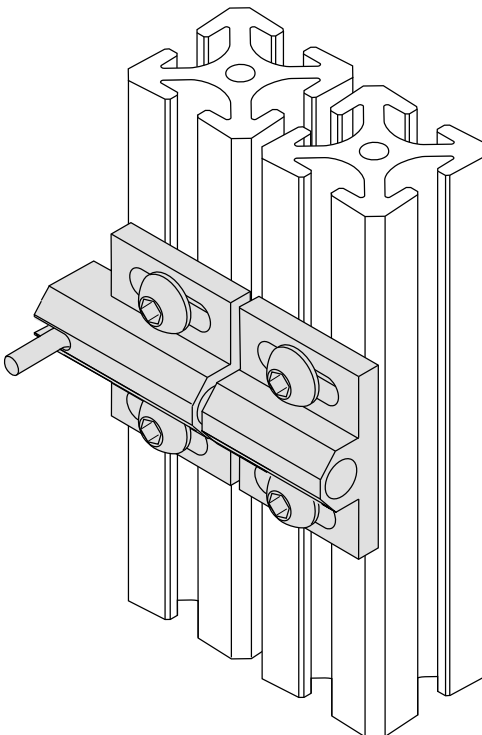


- Recommended
Hardware
- (1) EF-12-.63 BHCS
 - (1) EF-1 Pivot T-nut

Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS



Hardware Included

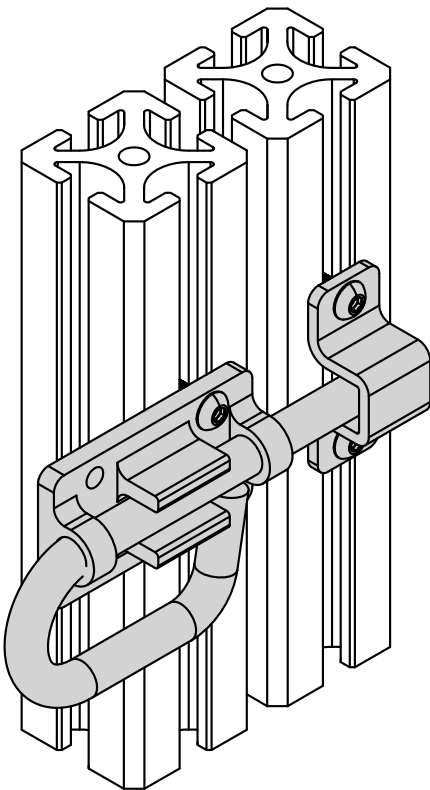
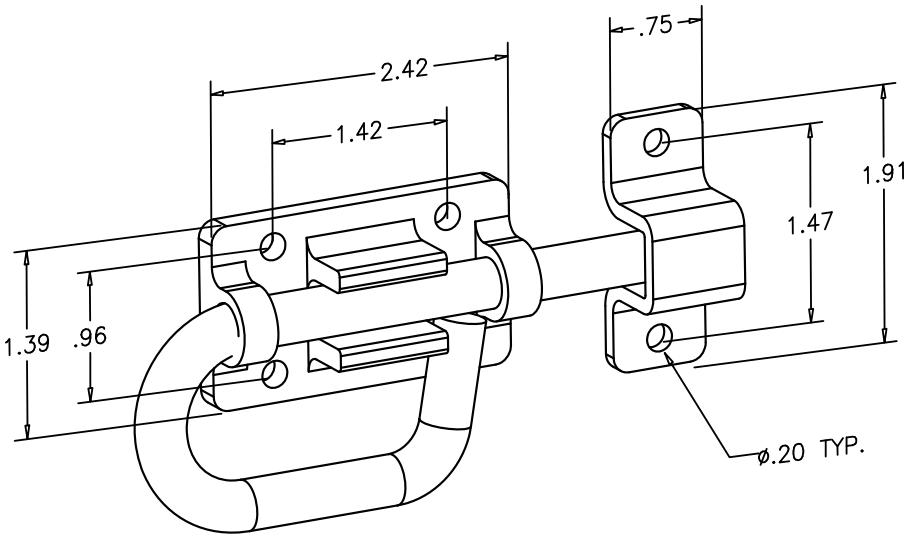
Material:
Mounting Plates:
 Aluminum , Clear Anodize
 Dead Bolt: Zinc Plated Steel

Deadbolt Latch

EF-171

.375 dia. Bolt

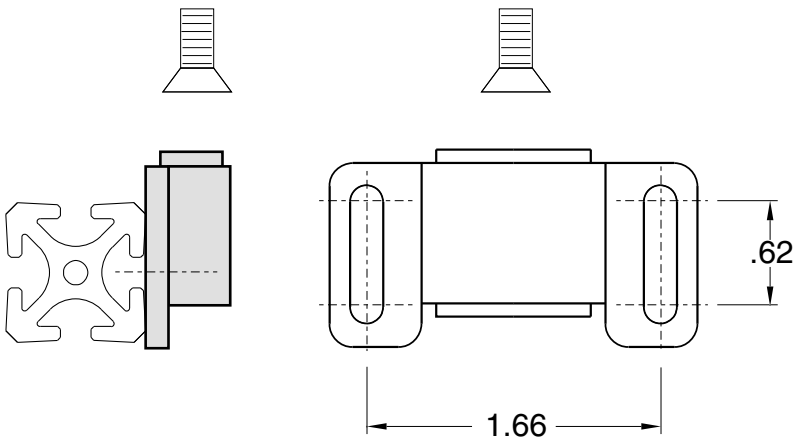
5/16" SLOTS



Hardware Included

Use with 5/16" slot extrusions

Material - Zinc Plated Steel



5/16" SLOTS

includes 1/4-20 FHCS striker and all hardware

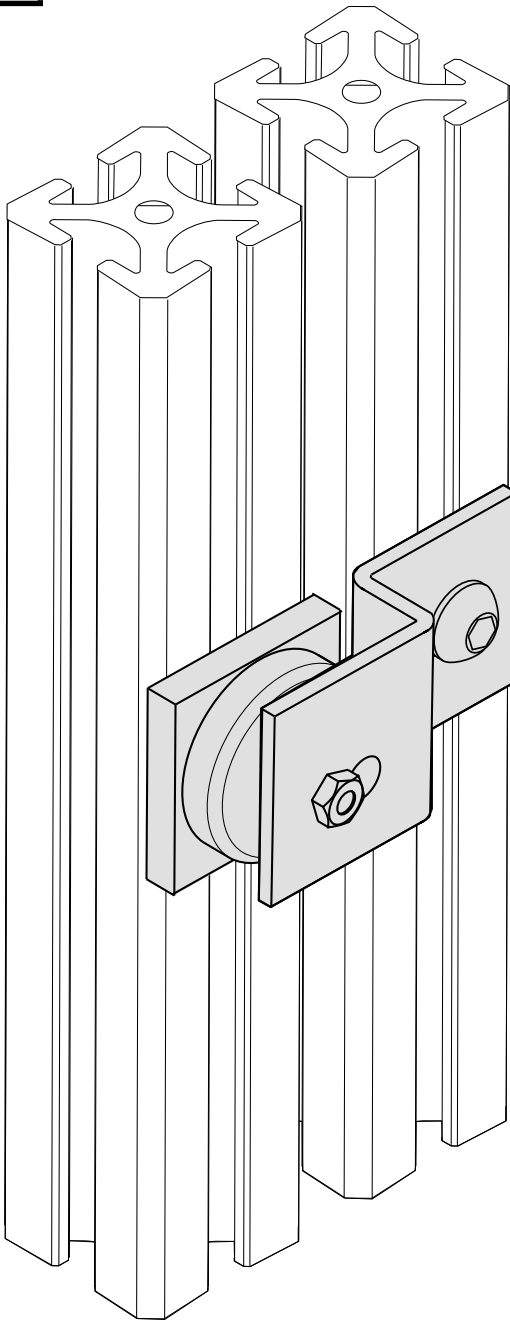
**Heavy Duty Magnetic
Door Latch Assembly**



EF-22HD

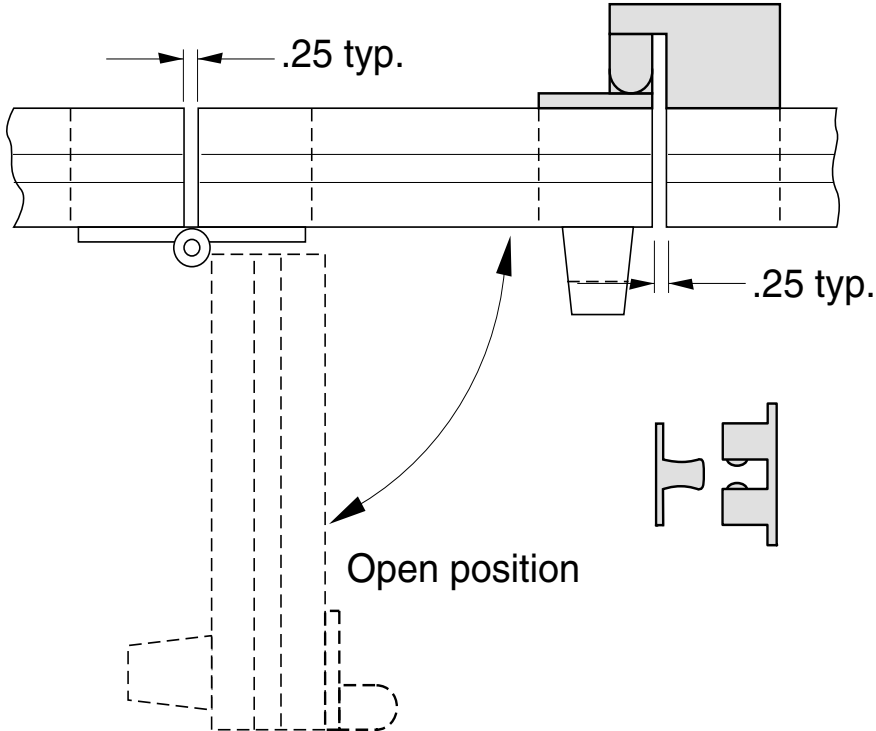
Hardware
Included

Our most
popular latch.



Material - Steel
Finish - Zinc Plate and Black Powder Coat

5/16" SLOTS



5/16" SLOTS

Use with 1 1/2" extrusions (5/16" slot size)

Hardware Included

Catch Material - Zinc Plated Brass

Base Material - Aluminum

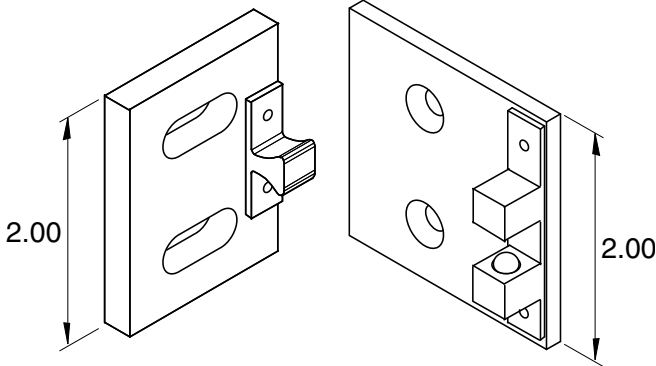
Mechanical Door Latch 5/16" Slots



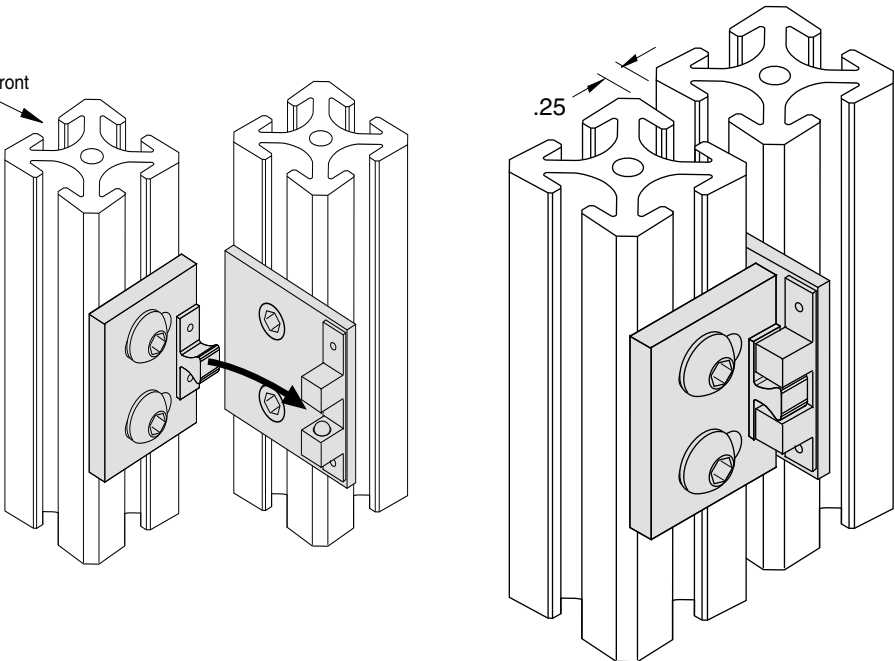
EF-78

excludes EX-52 & EX-54

Adjustable
Tension



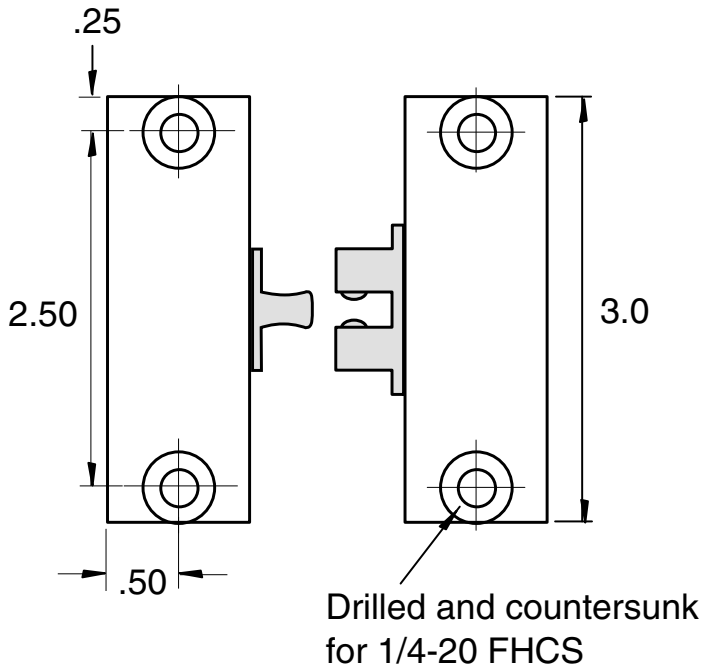
Door Front



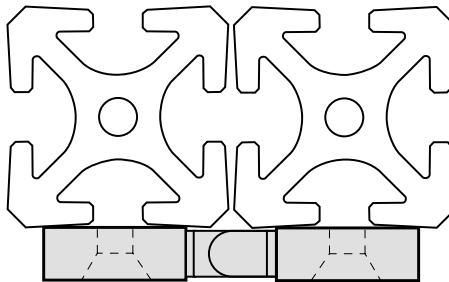
Hardware Included

Material Mounting Plates: Aluminum , Clear Anodize

Latch: Zinc Plated Brass



5/16" SLOTS



Hardware Included

Catch Material - Zinc Plated Brass
Base Material - Aluminum (Clear Anodized)

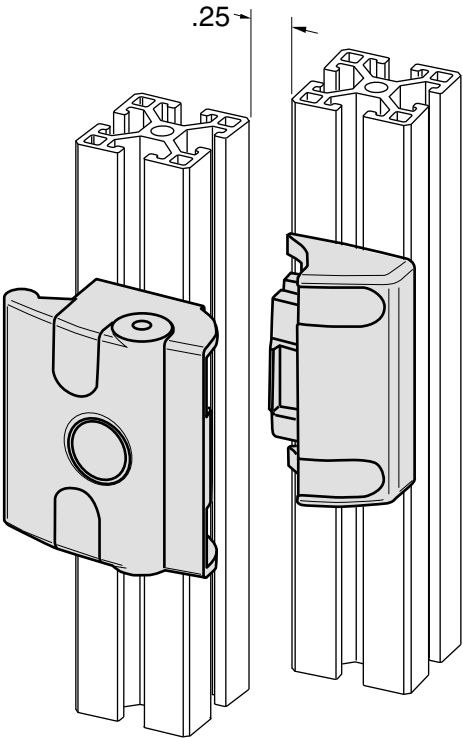
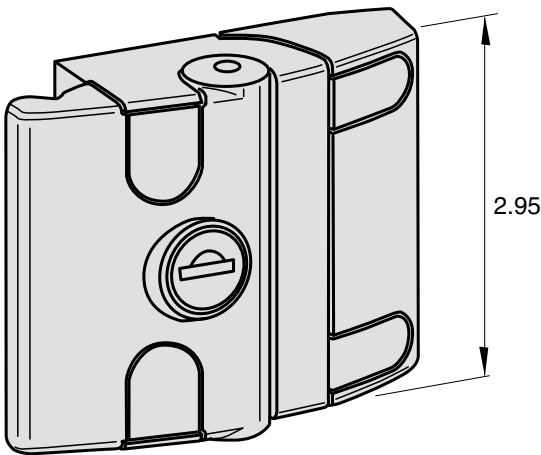
Slam Latch



EF-184
EF-184-L

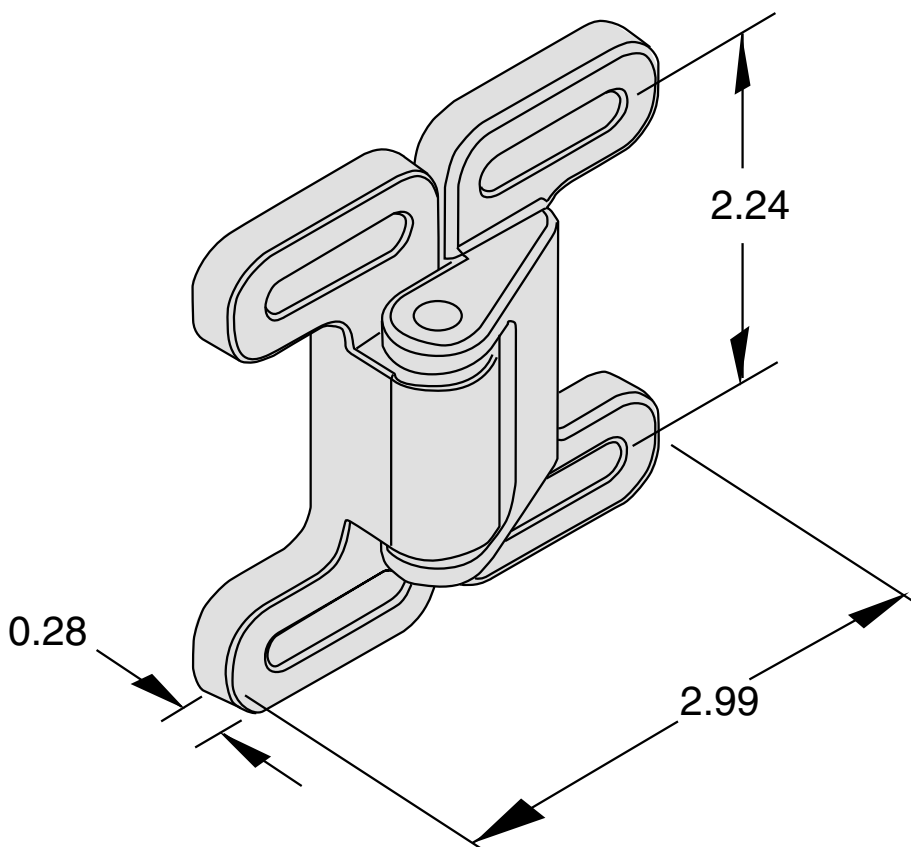
Non-Locking
Locking

5/16" SLOTS



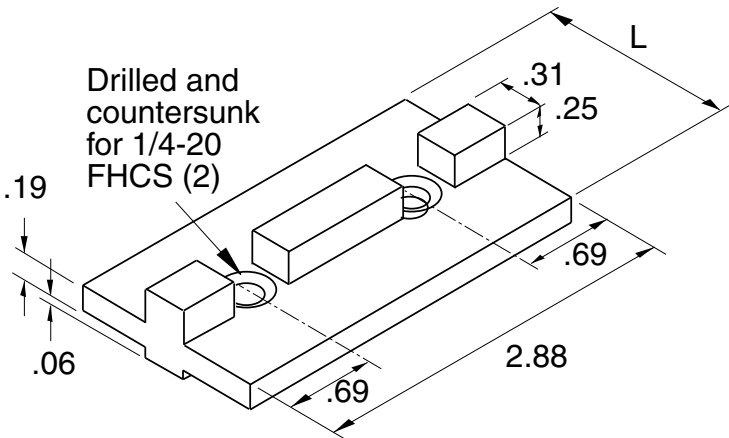
Mounting Hardware Included

Material - Aluminum
Finish - Black Powder Coat

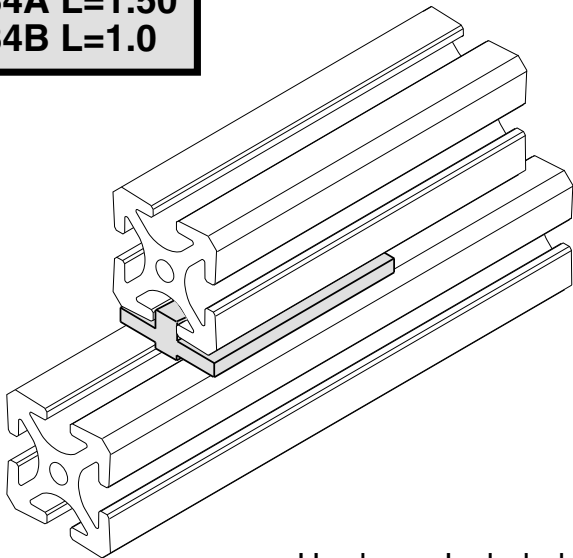
**5/16" SLOTS****Hardware Included****Material - Black Nylon**

EF-34

5/16" SLOTS



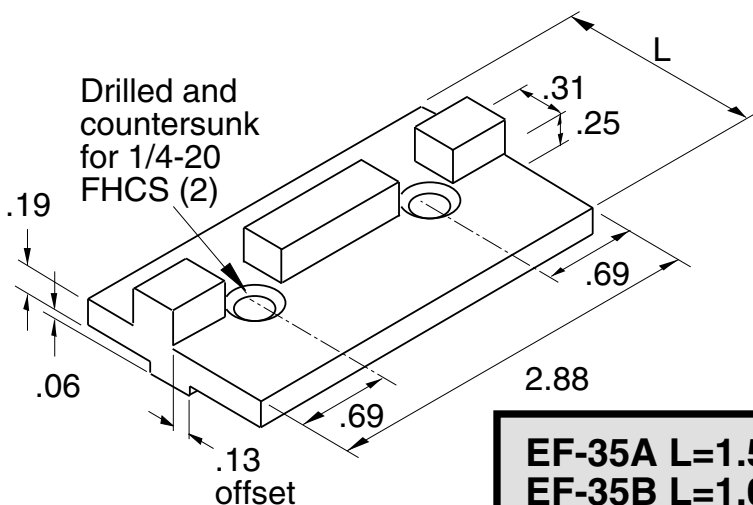
EF-34A L=1.50
EF-34B L=1.0



Hardware Included

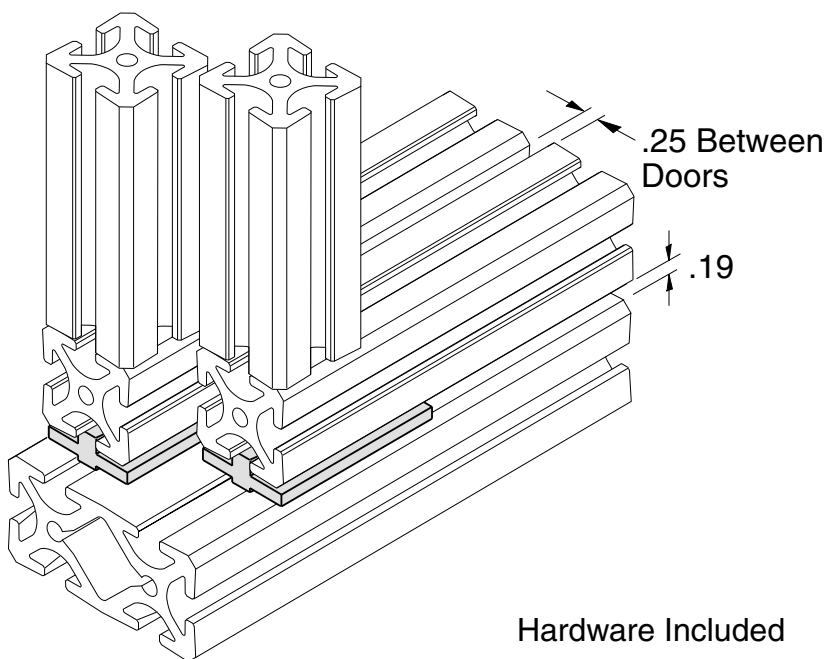
Bearing Material - DELRIN (white)

EF-35



EF-35A L=1.50
EF-35B L=1.0

5/16" SLOTS



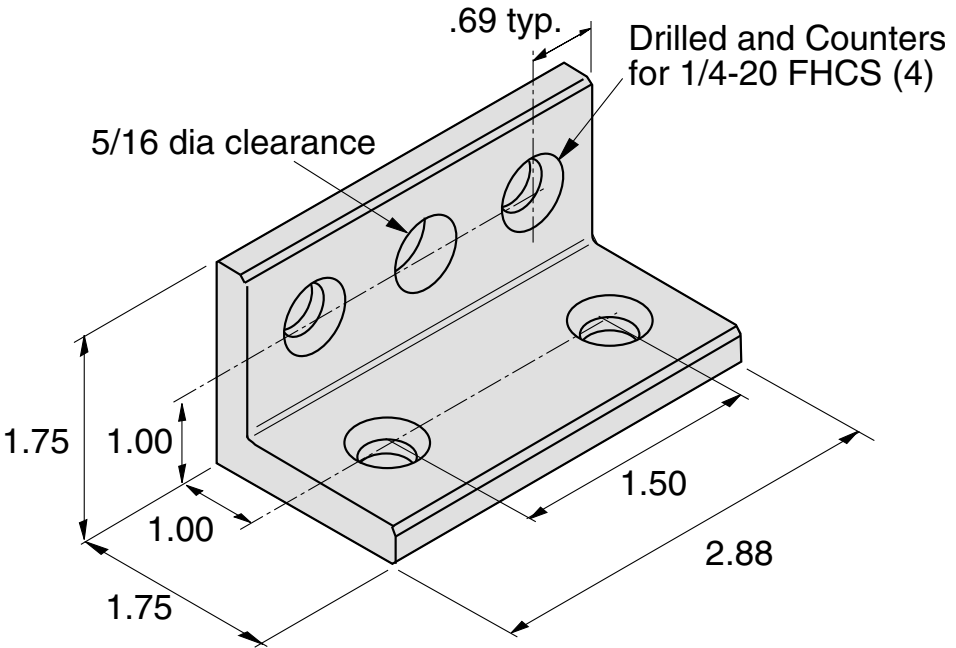
Hardware Included

Load Capacity = 50 lbs.

Bearing Material - DELRIN (white)

EF-36

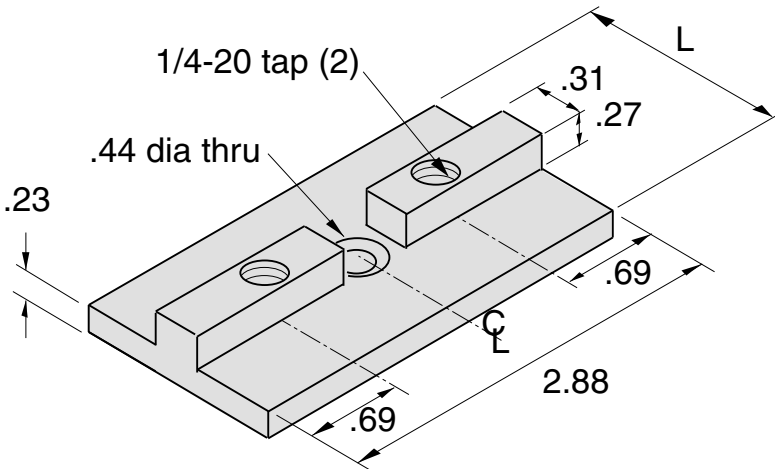
5/16" SLOTS



Note: See part no EB-38 for example

Recommended
Hardware
(4) EF-157-.63
(2) EF-2A T-nut

Material - Aluminum
Finish - Clear Anodize



EF-37A L=1.50
EF-37B L=1.0

Load Capacity = 50 lbs.

Bearing Material - DELRIN (white)

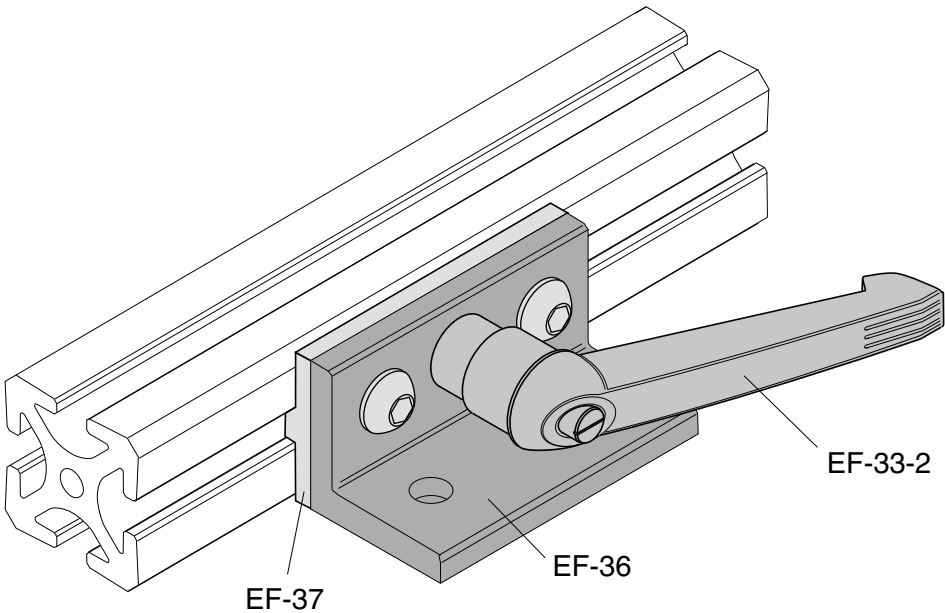
5/16" SLOTS

Slider Assembly

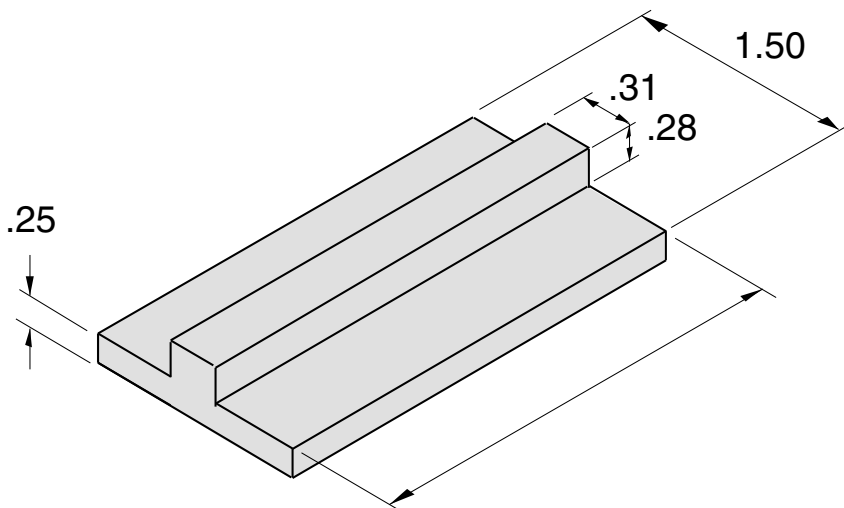


EF-38	Slider Assembly (as shown)
EF-38S	Slider Assembly (less clamp handle for sliding only)

5/16" SLOTS



Recommended
Hardware
(2) EF-157-.63
(2) EF-2A T-nut

**5/16" SLOTS**

Standard length
is 60" and 120" —
sold by the inch.

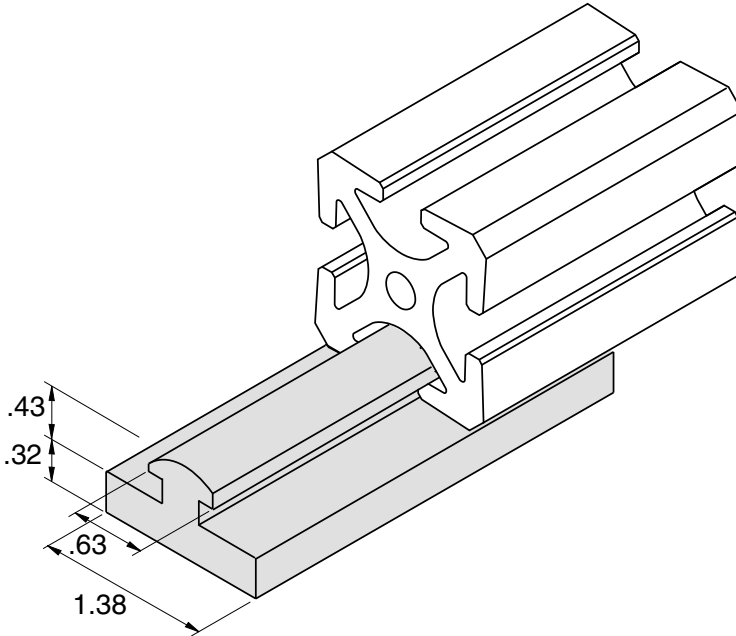
Material - UHMW (white)

Blank Hanging Slider Track
5/16" Slot Size

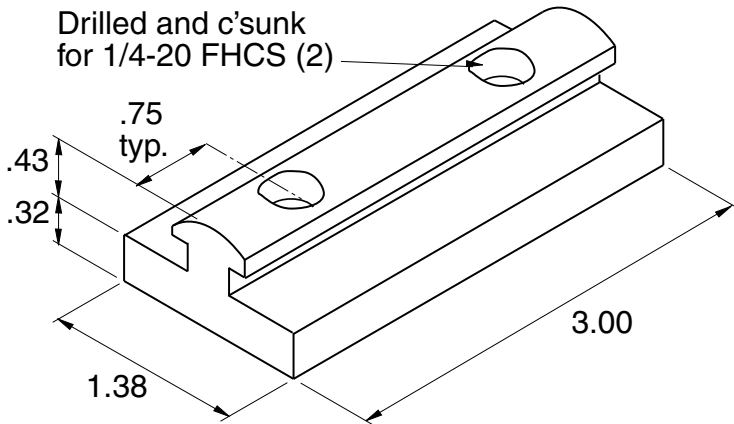


EF-77

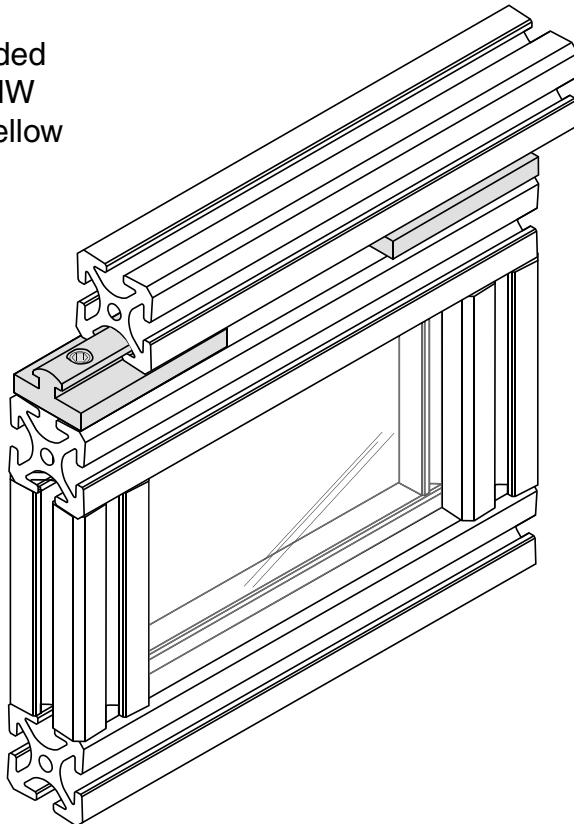
5/16" SLOTS



Material - UHMW
Sold by the inch
Stock length is 60" & 120"
Color is Safety Yellow



Hardware Included
Material - UHMW
Color is Safety Yellow

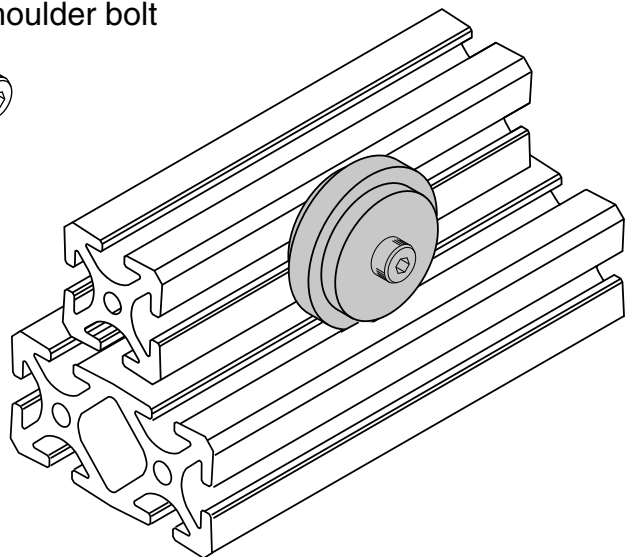
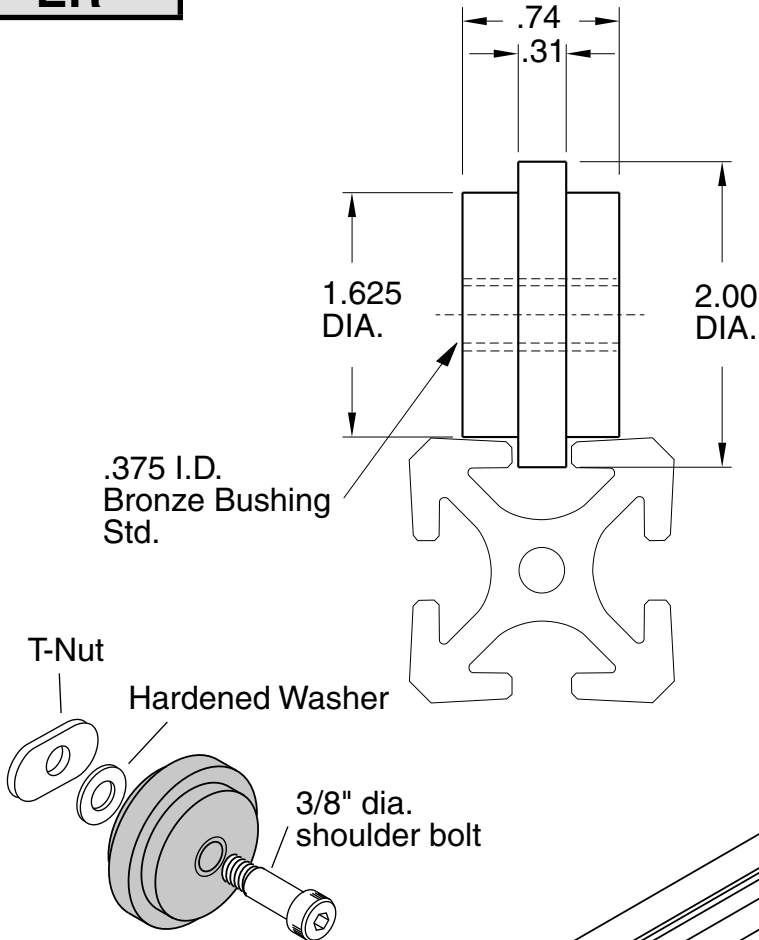


T-slot Roller



ER

5/16" SLOTS

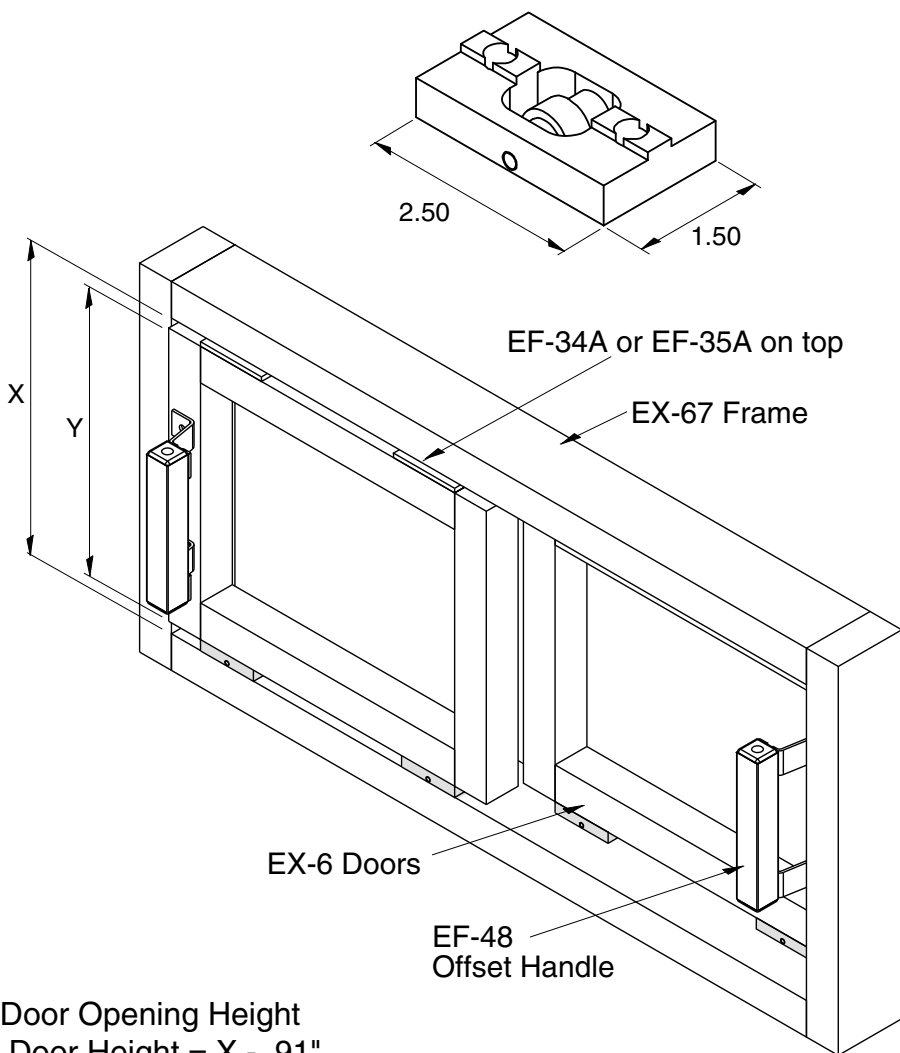


Load Capacity 30 lbs.
Hardware Included

Material - DELRIN (white)

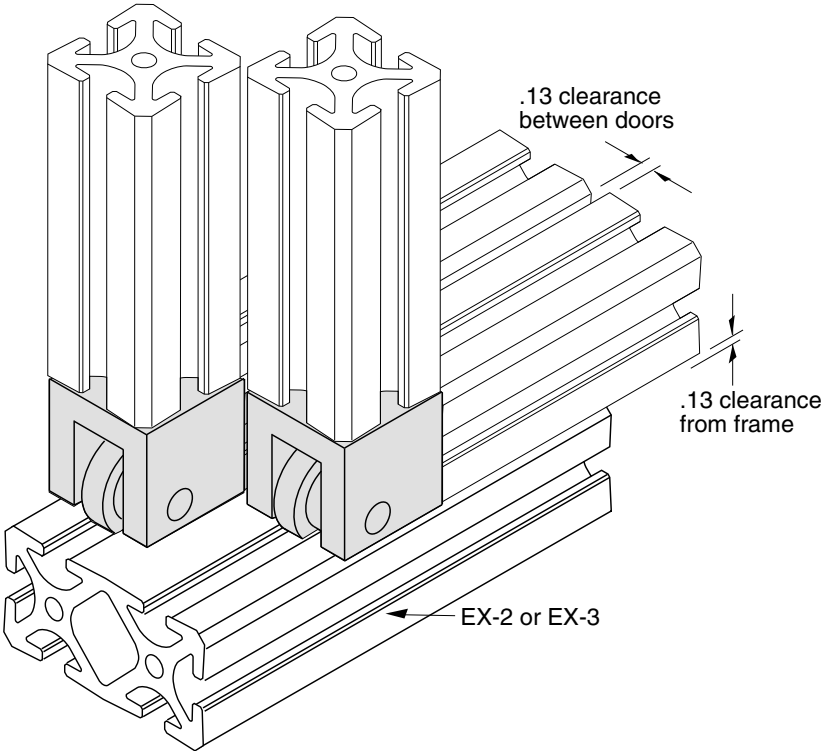
1/8" offset
EF-88
on center
EF-89
Door Clearance Between Sliders

= .25" using (4) EF-88 and (4) EF-35A

 = .13" using (2) EF-88 with (2) EF-35A
and (2) EF-89 with (2) EF-34A

5/16" SLOTS
X= Door Opening Height
Y = Door Height = X - .91"
Hardware Included

ER-BL

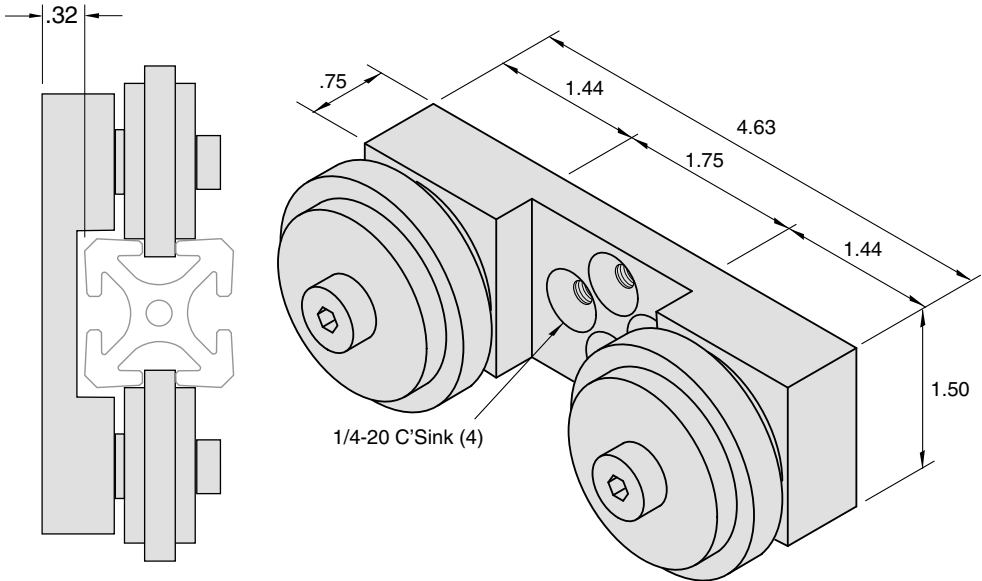
5/16" SLOTS



Hardware Included
Load Capacity 25 lbs.

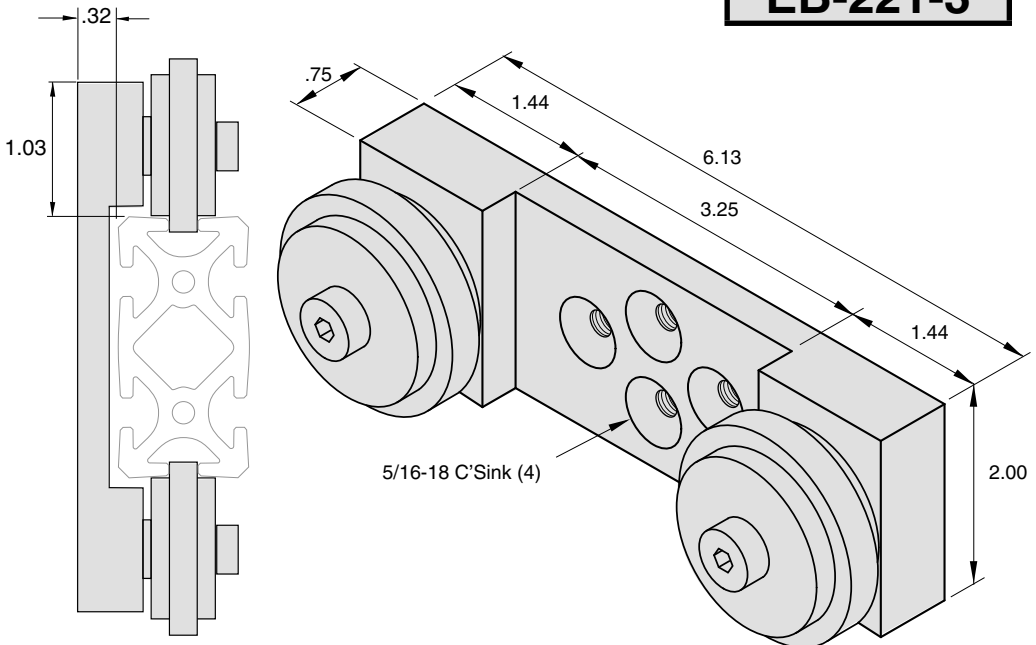
Roller Material - DELRIN
Block Material - Aluminum (Clear Anodized)

EB-221



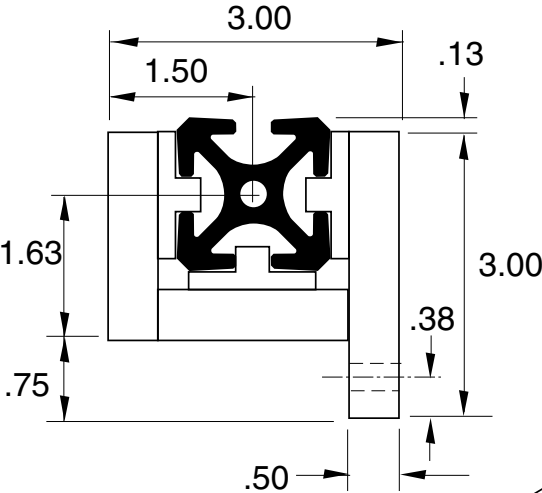
5/16" SLOTS

EB-221-3

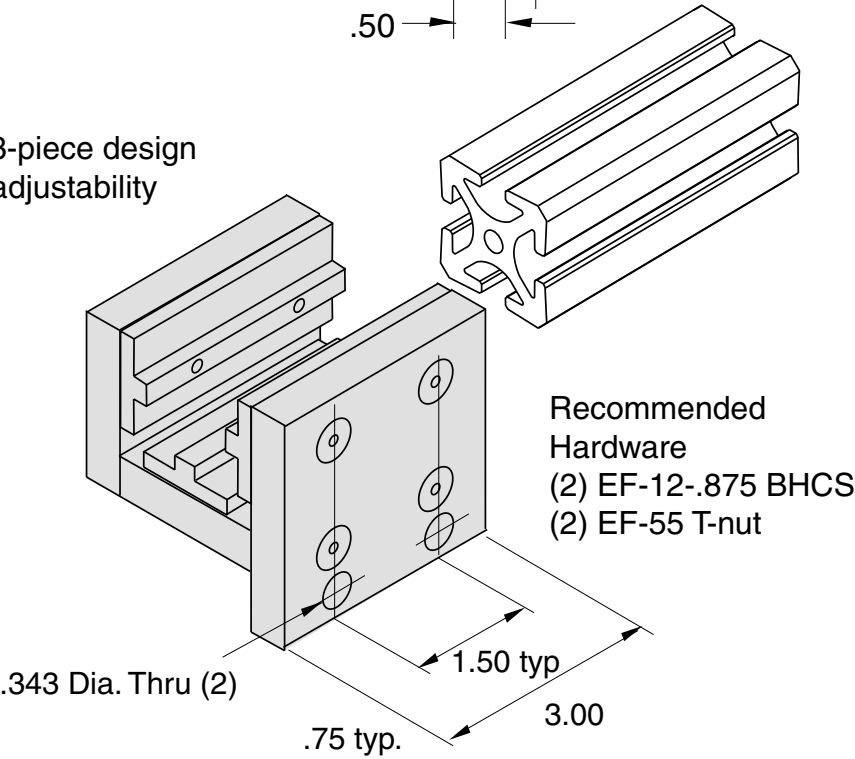


EB-91

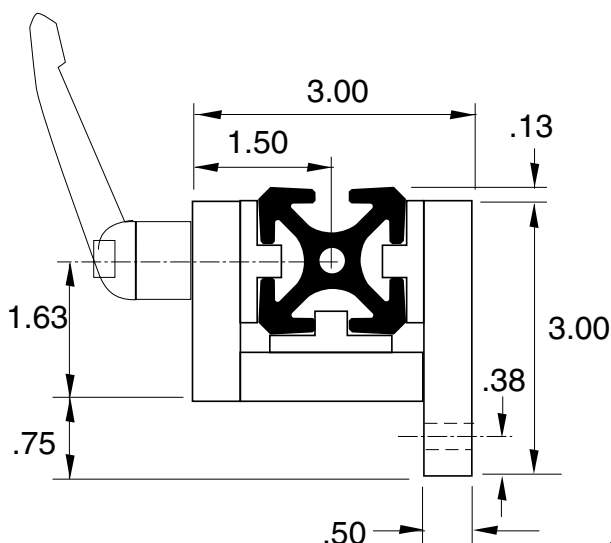
5/16" SLOTS



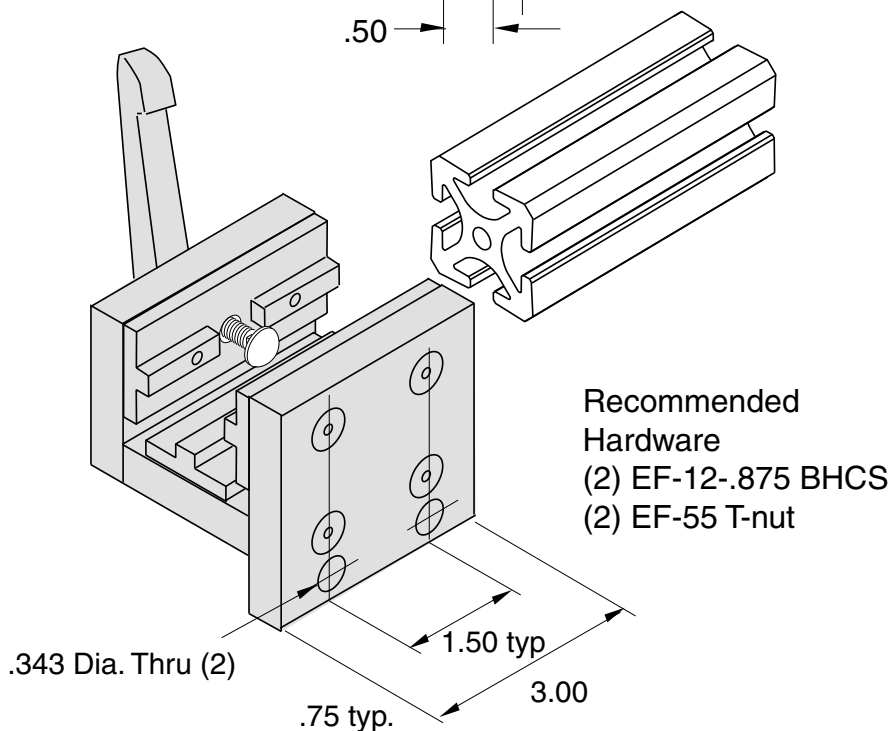
Note: 3-piece design
for adjustability



Bearing Material - DELRIN
Plate Material - Aluminum (Clear Anodized)



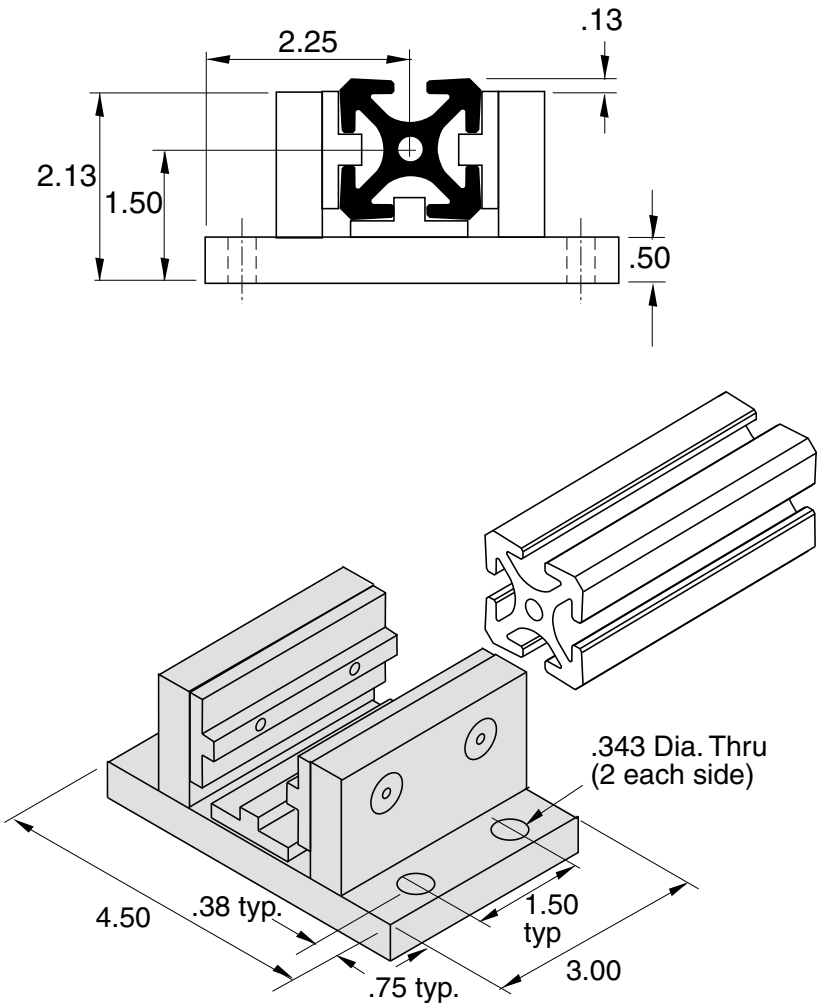
5/16" SLOTS



Bearing Material - DELRIN
Plate Material - Aluminum (Clear Anodized)

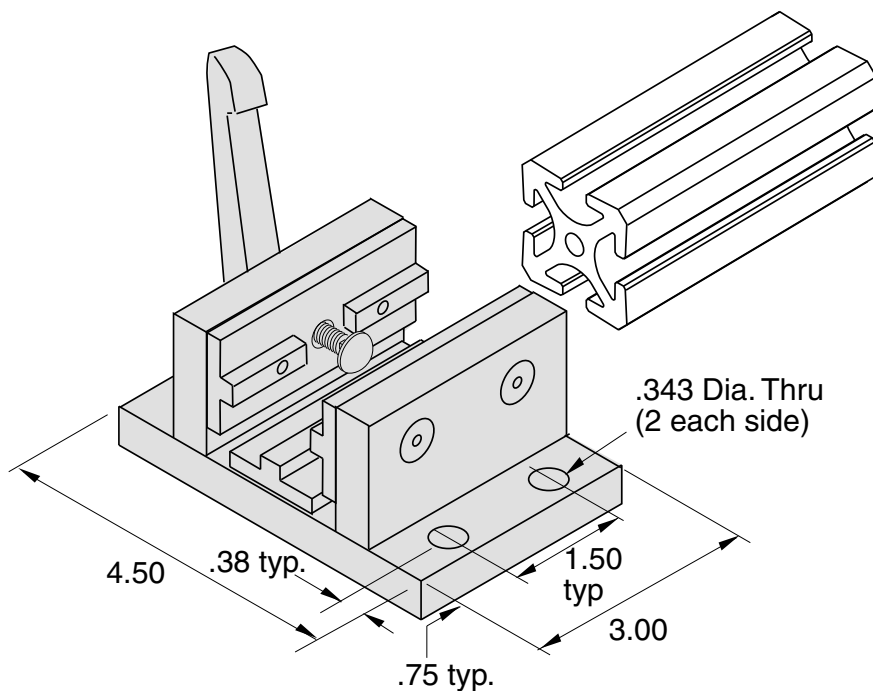
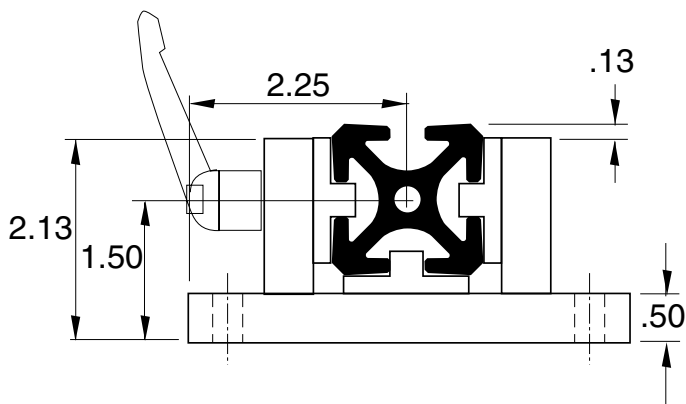
EB-93

5/16" SLOTS



Recommended
Hardware
(4) EF-12-.875 BHCS
(4) EF-55 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum (Clear Anodized)



**Recommended
Hardware**

(4) EF-12-.875 BHCS

(4) EF-55 T-nut

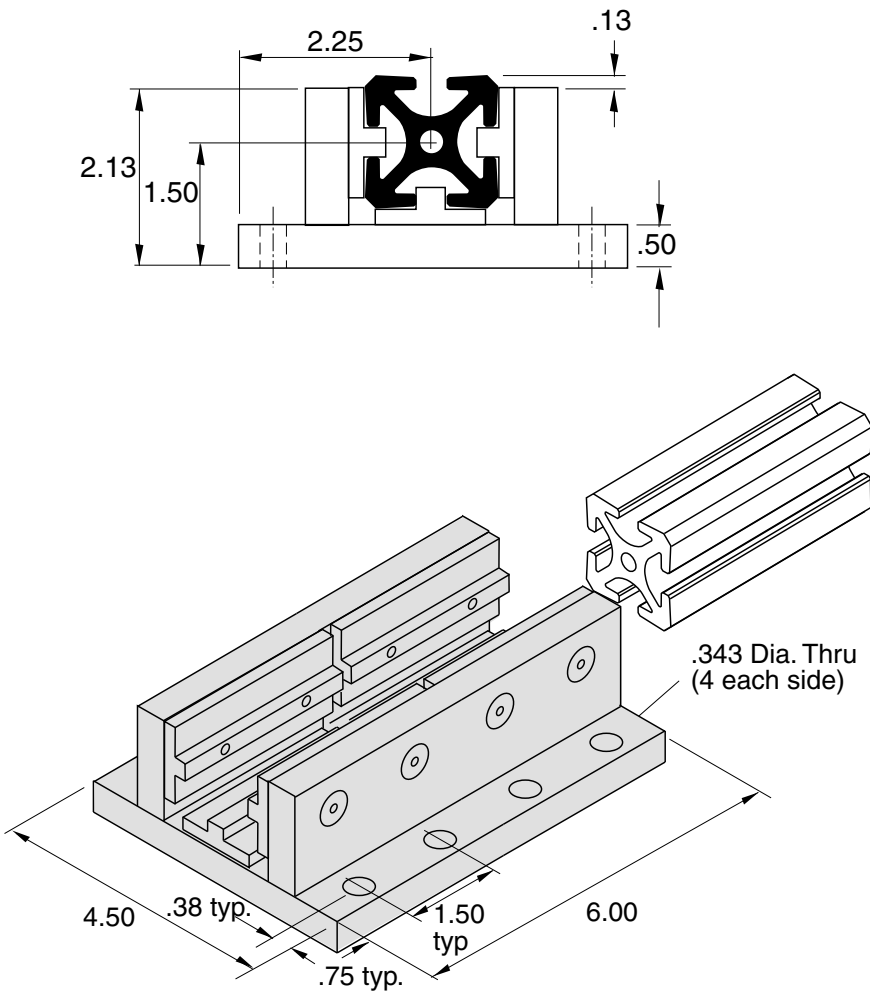
Bearing Material - DELRIN

Plate Material - Aluminum (Clear Anodized)

5/16" SLOTS

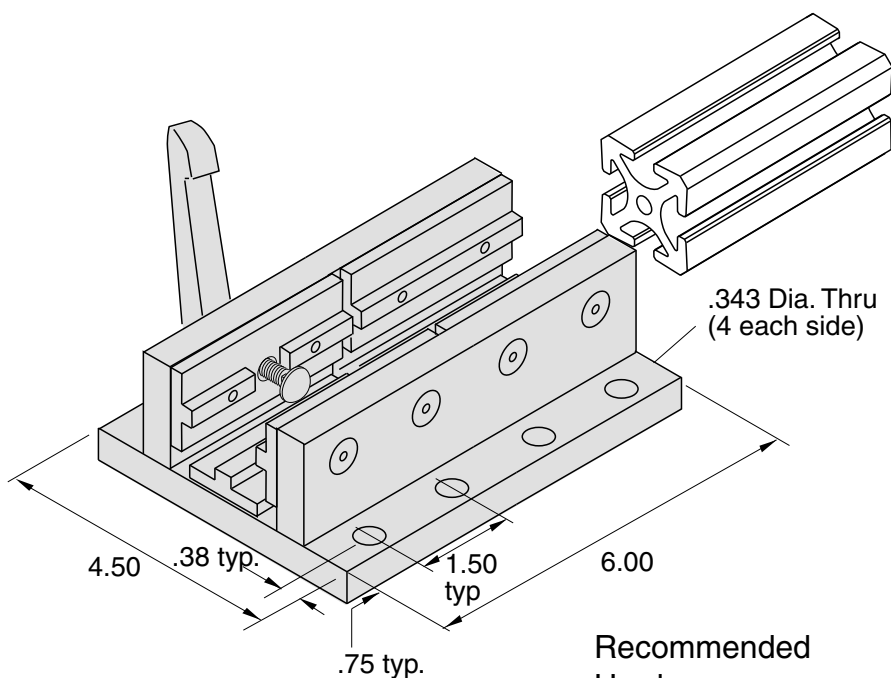
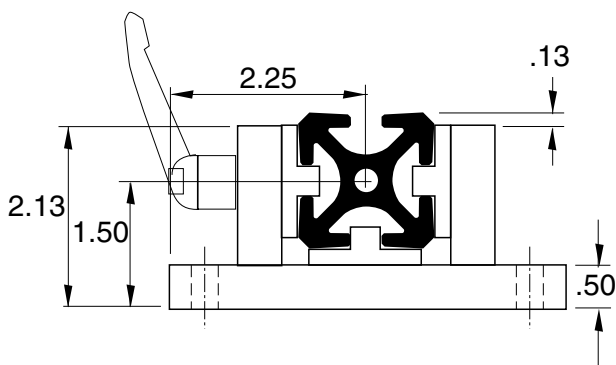
EB-92

5/16" SLOTS



Recommended
Hardware
(8) EF-12-.875 BHCS
(8) EF-55 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum (Clear Anodized)



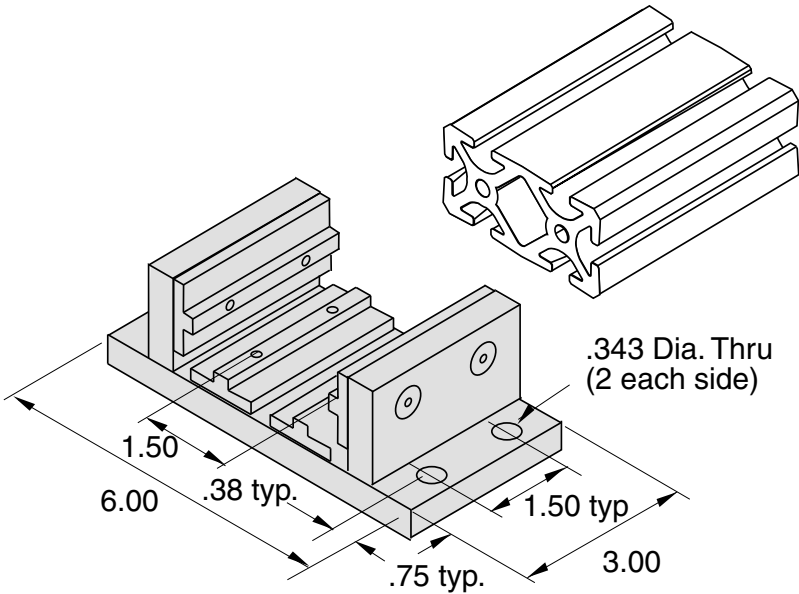
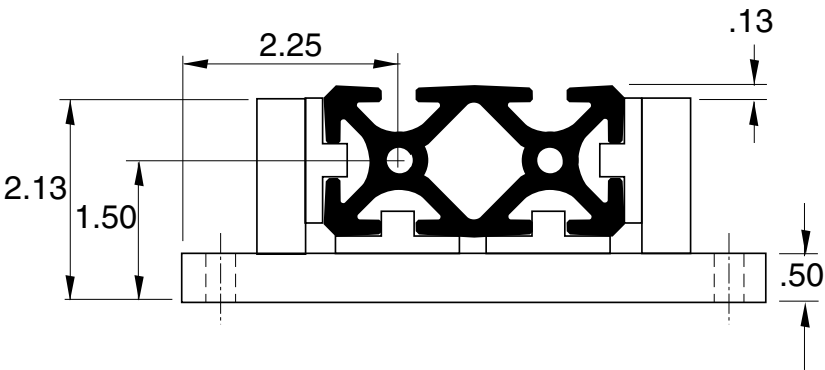
**Recommended
Hardware**
(8) EF-12-.875 BHCS
(8) EF-55 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum (Clear Anodized)

5/16" SLOTS

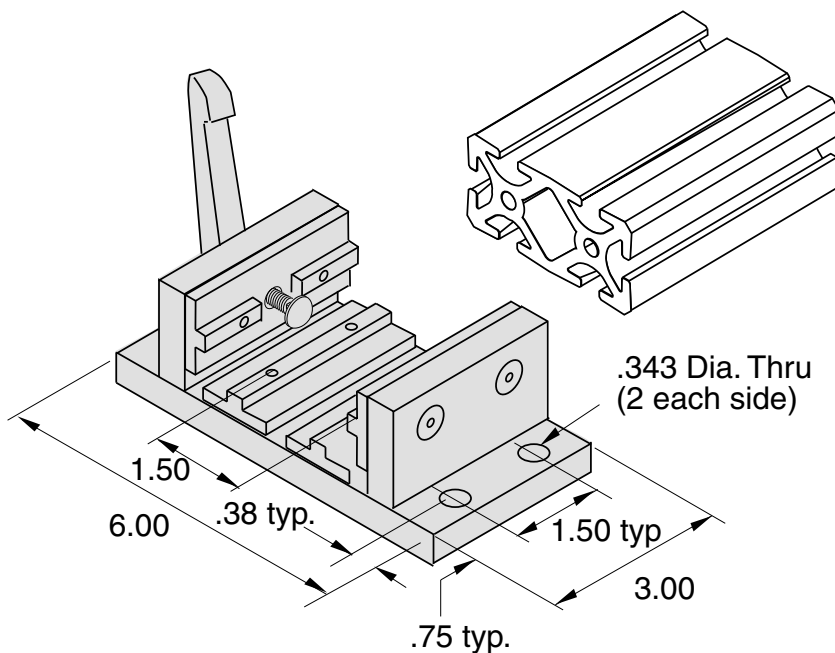
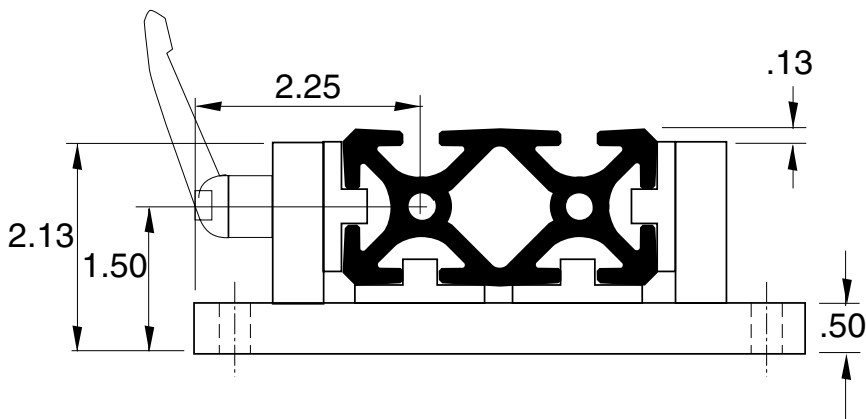
EB-94

5/16" SLOTS



Recommended
Hardware
(4) EF-12-.875 BHCS
(4) EF-55 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum (Clear Anodized)



**Recommended
Hardware**

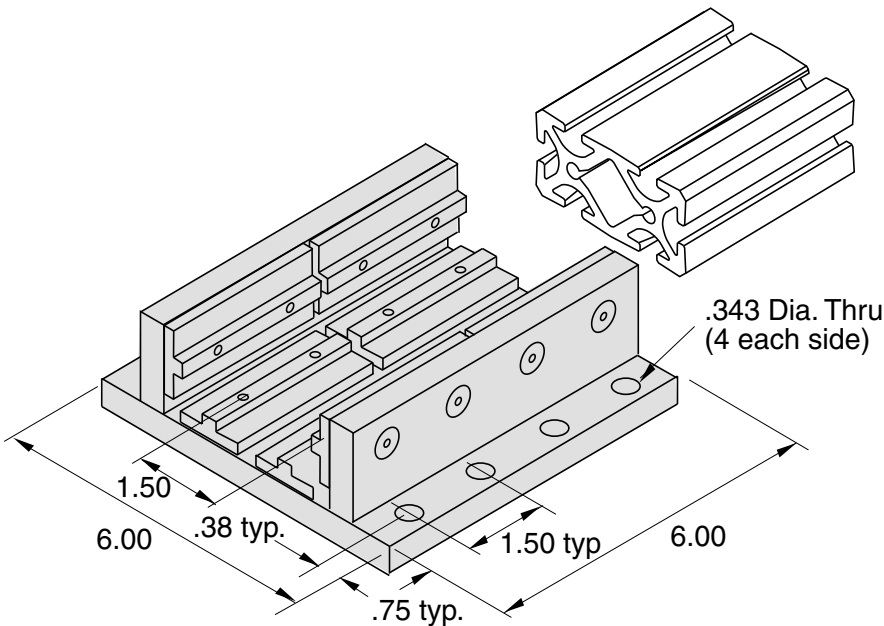
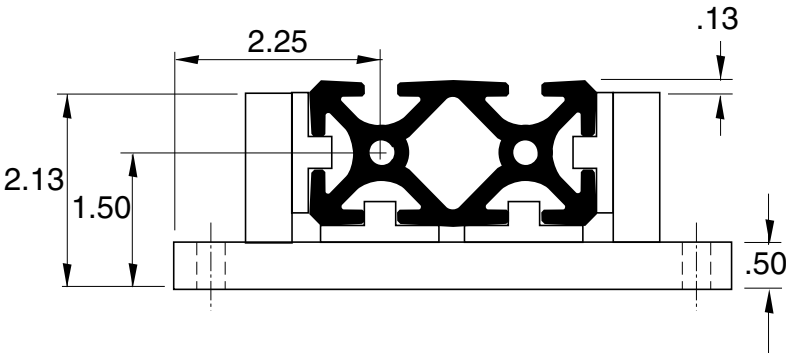
- (4) EF-12-.875 BHCS
- (4) EF-55 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum (Clear Anodized)

5/16" SLOTS

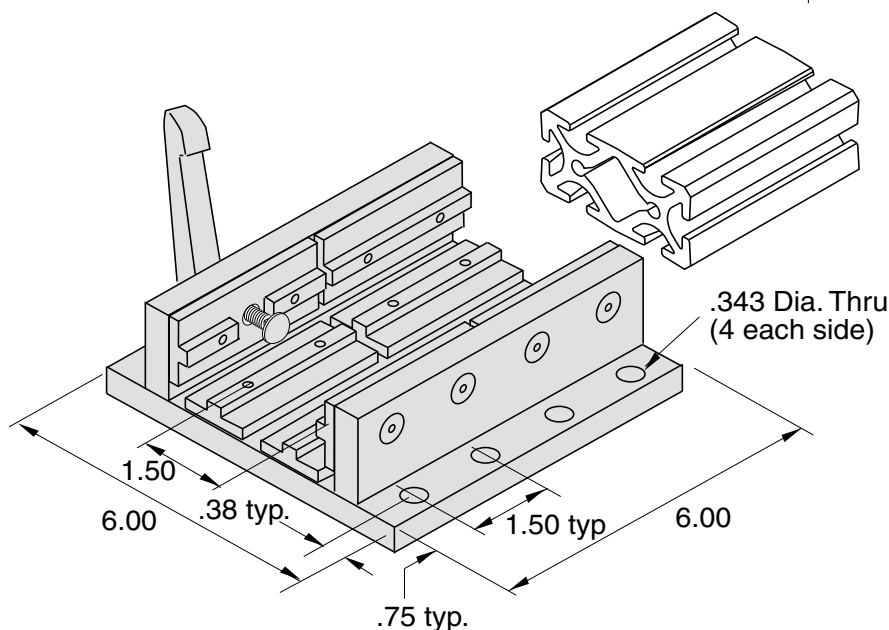
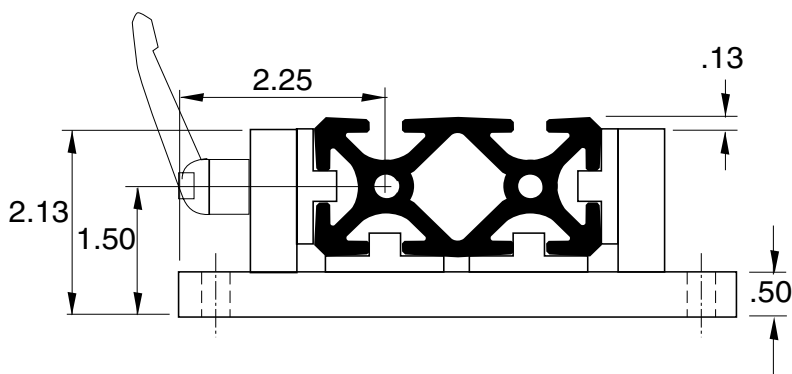
EB-95

5/16" SLOTS



Recommended
Hardware
(8) EF-12-.875 BHCS
(8) EF-55 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum (Clear Anodized)



Recommended
Hardware

(8) EF-12-.875 BHCS

(8) EF-55 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum (Clear Anodized)

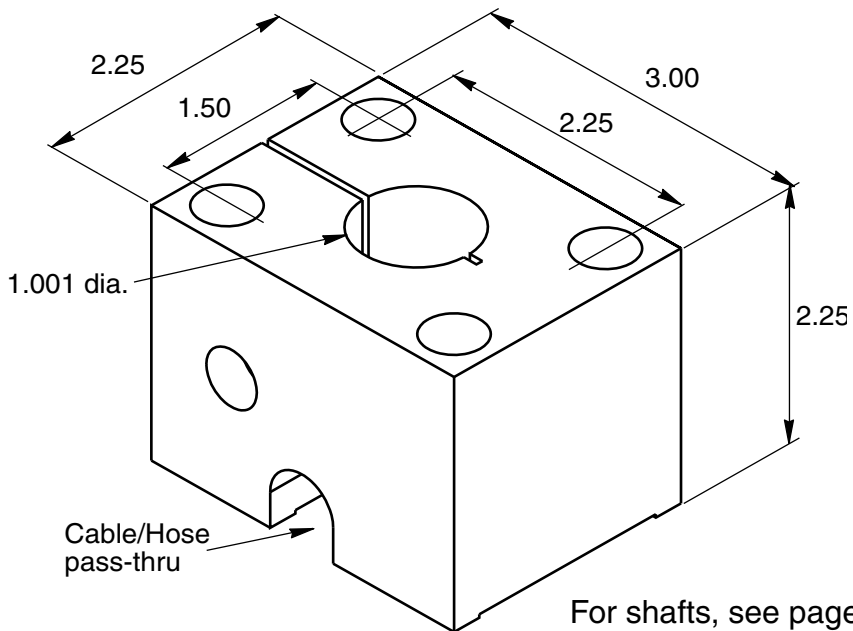
5/16" SLOTS

Single Shaft Base



EB-200	with locking handle
EB-201	with locking 5/16 SHCS

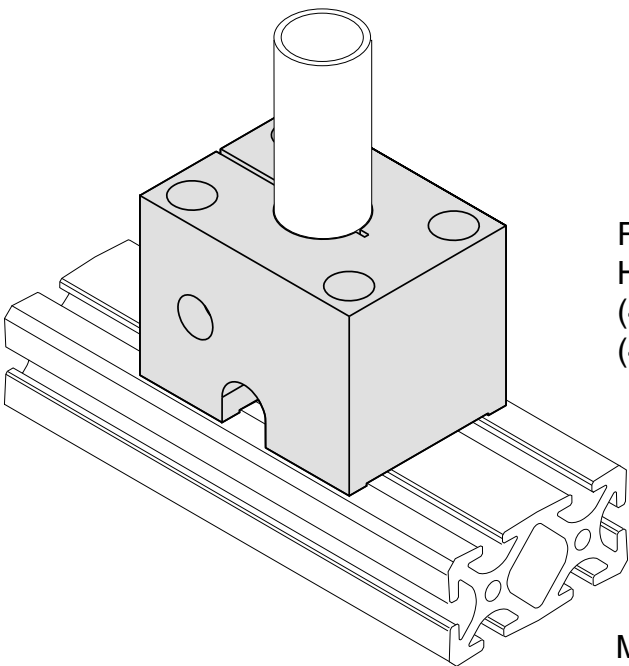
5/16" SLOTS



For shafts, see page 291.

**EX-2, EX-67,
EX-3, EX-37**

Recommended
Hardware
(4) EF-11-1.75 SHCS
(4) EF-55 T-nut

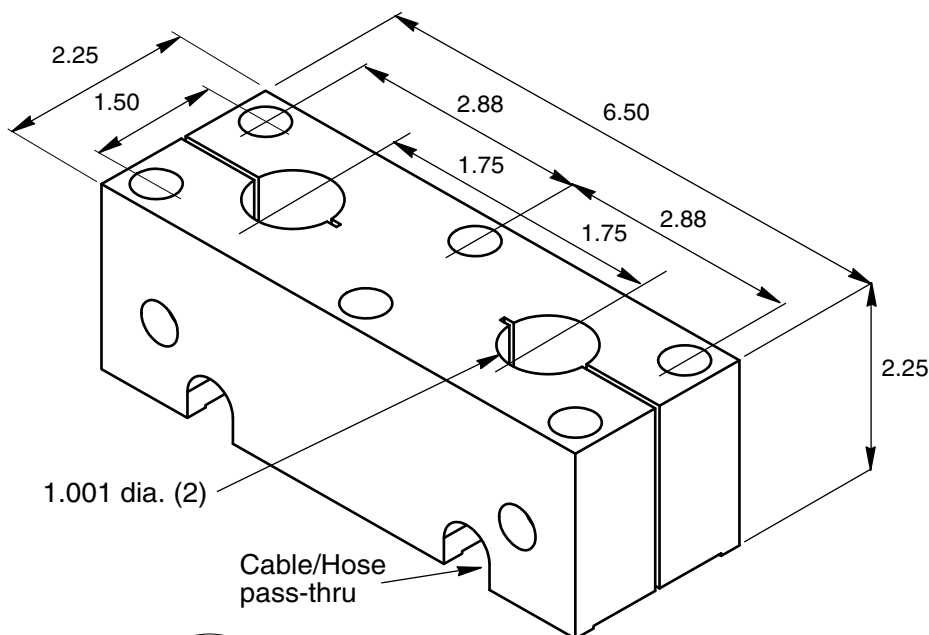


Material - Aluminum
Finish - Clear Anodize

with locking handle
with locking 5/16 SHCS

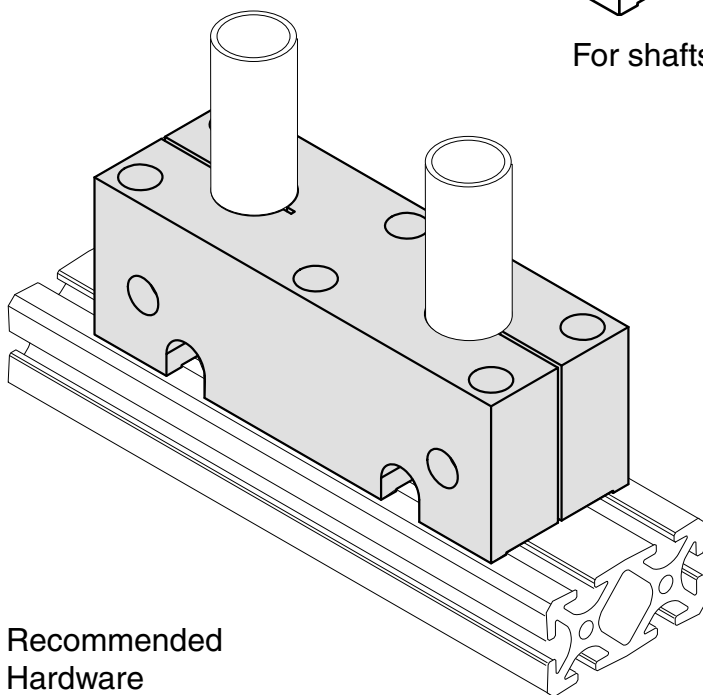
EB-202

EB-203



5/16" SLOTS

For shafts, see page 291.



**EX-2, EX-67,
EX-3, EX-37**

Recommended
Hardware

(6) EF-11-1.75 SHCS
(6) EF-55 T-nut

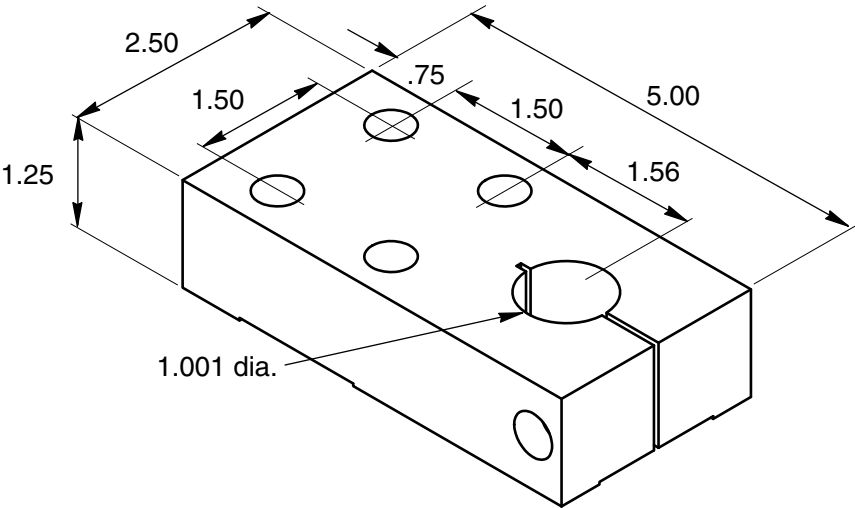
Material - Aluminum
Finish - Clear Anodize

Single Shaft Mounting Plate

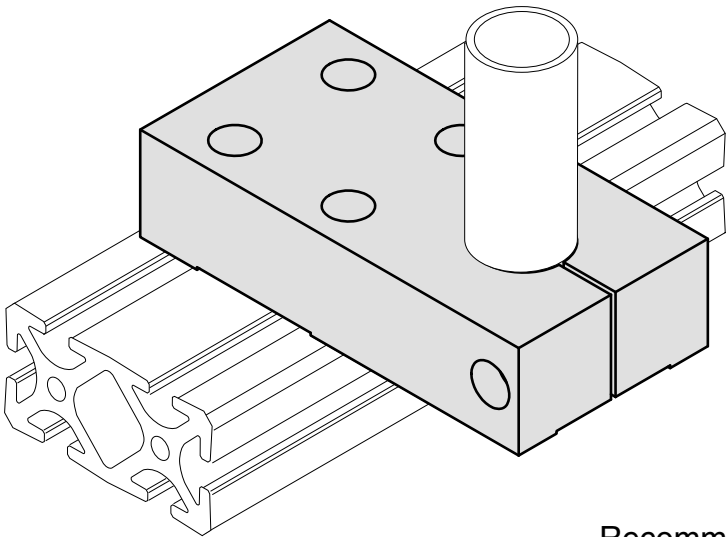


EB-204	with locking handle
EB-205	with locking 5/16 SHCS

5/16" SLOTS



For shafts, see page 291.



**EX-2, EX-67,
EX-3, EX-37**

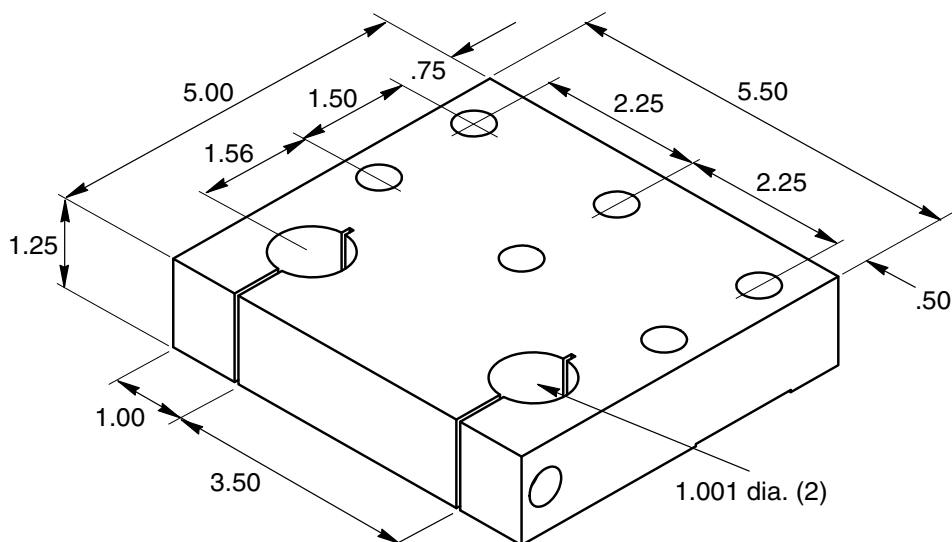
Material - Aluminum
Finish - Clear Anodize

Recommended
Hardware
(4) EF-11-1.0 SHCS
(4) EF-55 T-nut

with locking handle
with locking 5/16 SHCS

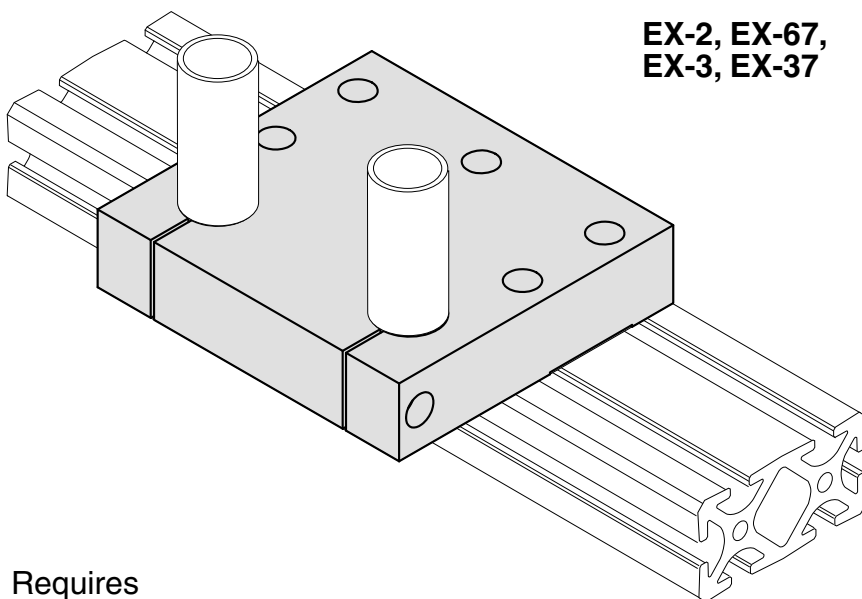
EB-206

EB-207



5/16" SLOTS

For shafts, see page 291.



**EX-2, EX-67,
EX-3, EX-37**

Requires

(6) EF-11-1.0 SHCS

(6) EF-55 T-nut

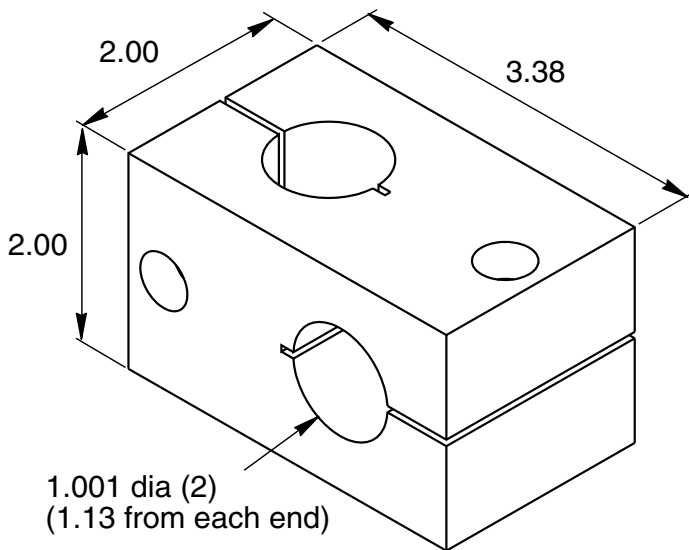
Material - Aluminum
Finish - Clear Anodize

Cross Clamp

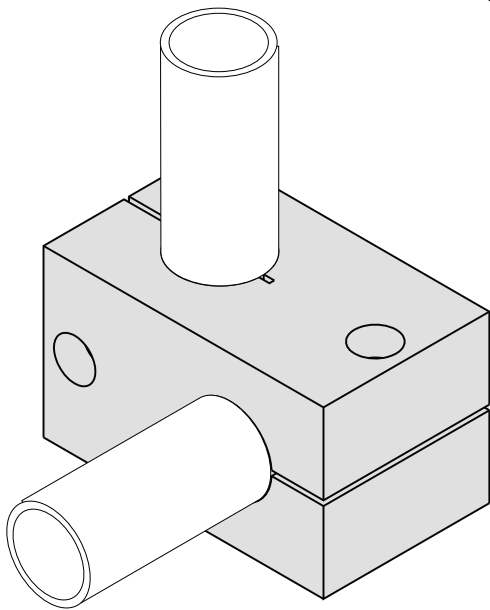


EB-208	with locking handle
EB-209	with locking 5/16 SHCS

5/16" SLOTS



For shafts, see page 291.

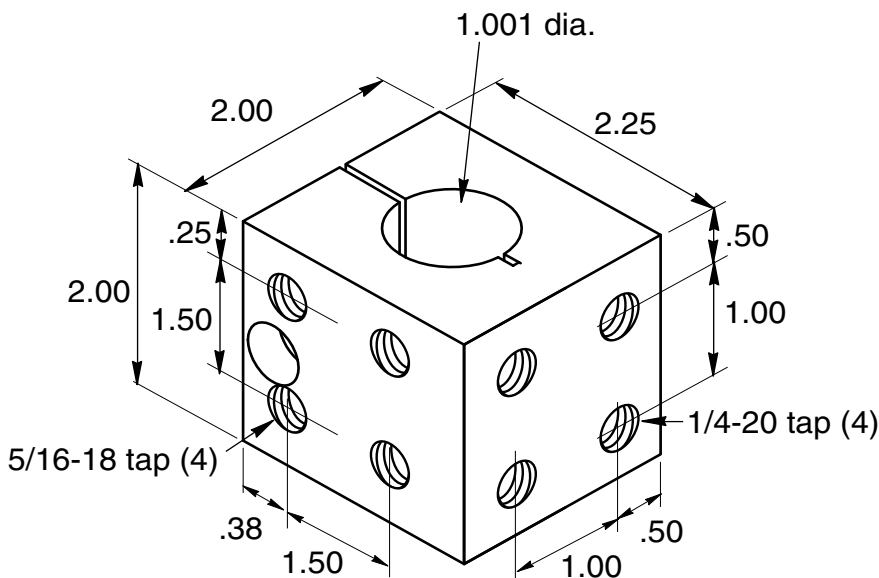


Material - Aluminum
Finish - Clear Anodize

with locking handle
with locking 5/16 SHCS

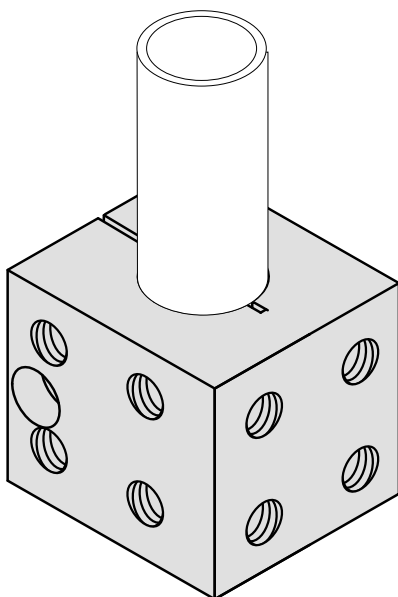
EB-210

EB-211



5/16" SLOTS

For shafts, see page 291.



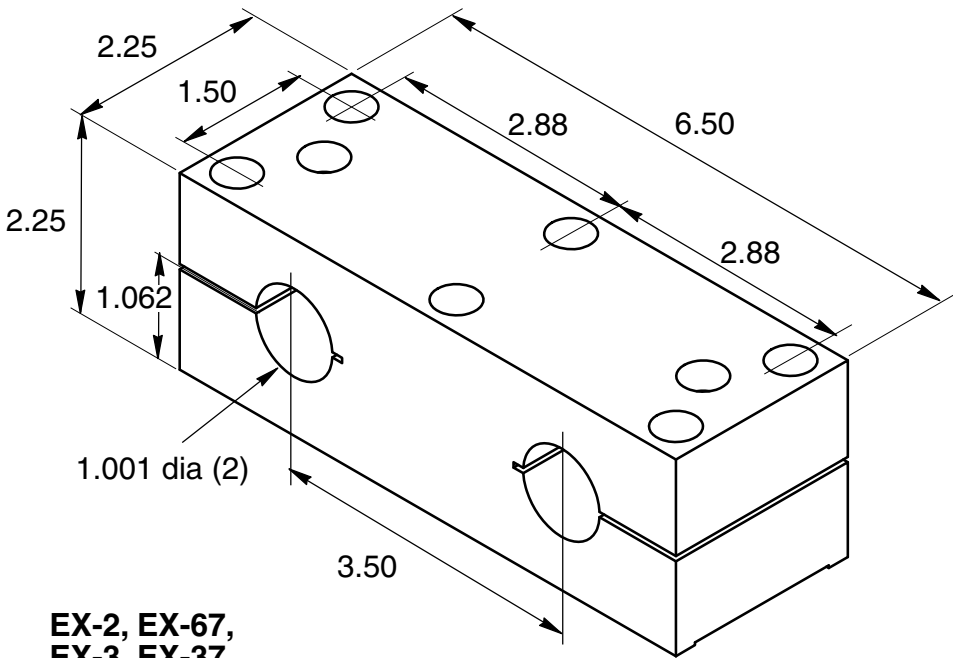
Material - Aluminum
Finish - Clear Anodize

Double Shaft Mounting Block



EB-212	with locking handle
EB-213	with locking 5/16 SHCS

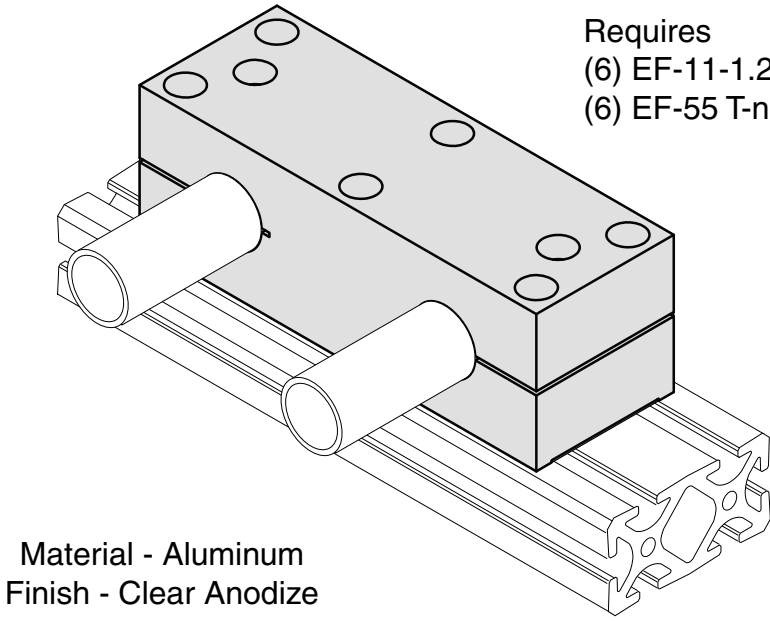
5/16" SLOTS



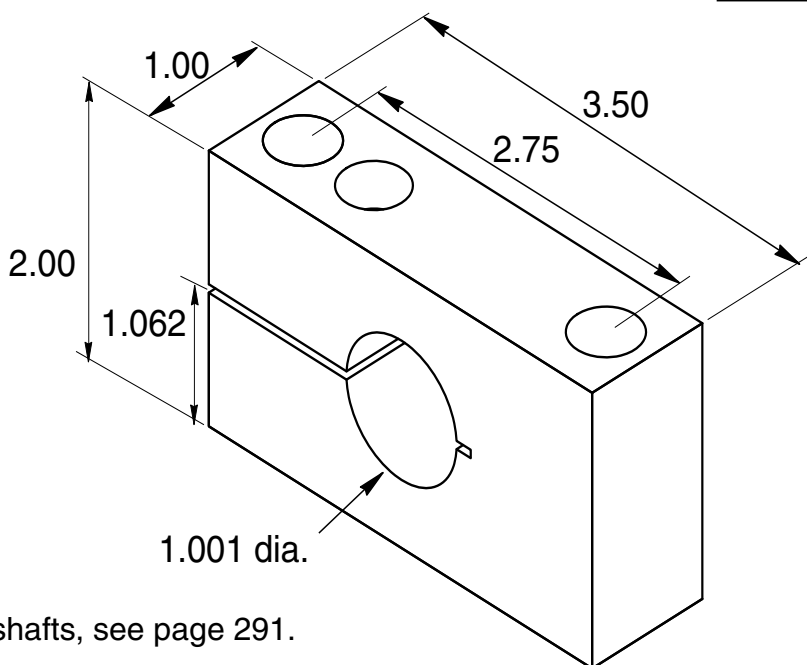
**EX-2, EX-67,
EX-3, EX-37**

For shafts, see page 291.

Requires
(6) EF-11-1.25 SHCS
(6) EF-55 T-nut

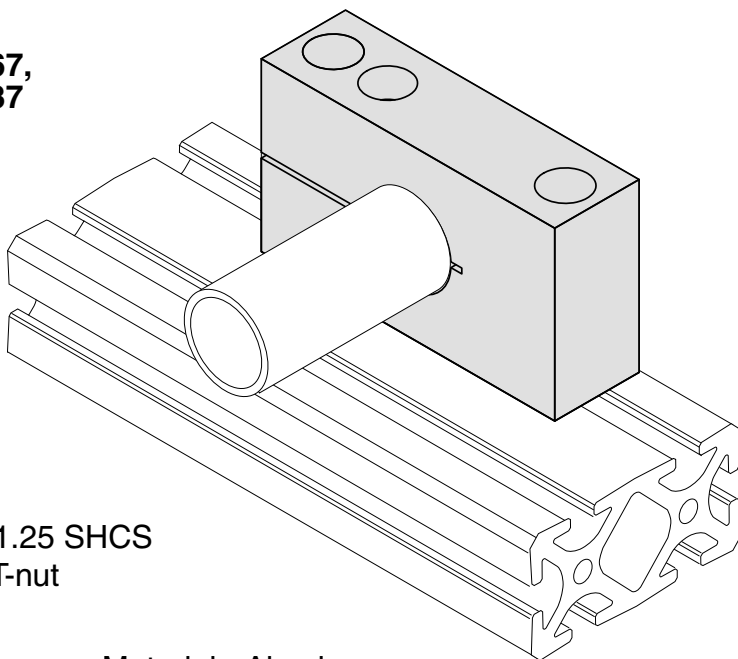


Material - Aluminum
Finish - Clear Anodize

with locking handle
EB-214
with locking 5/16 SHCS
EB-215

5/16" SLOTS

For shafts, see page 291.

**EX-2, EX-67,
EX-3, EX-37**



Requires

(2) EF-11-1.25 SHCS

(2) EF-55 T-nut

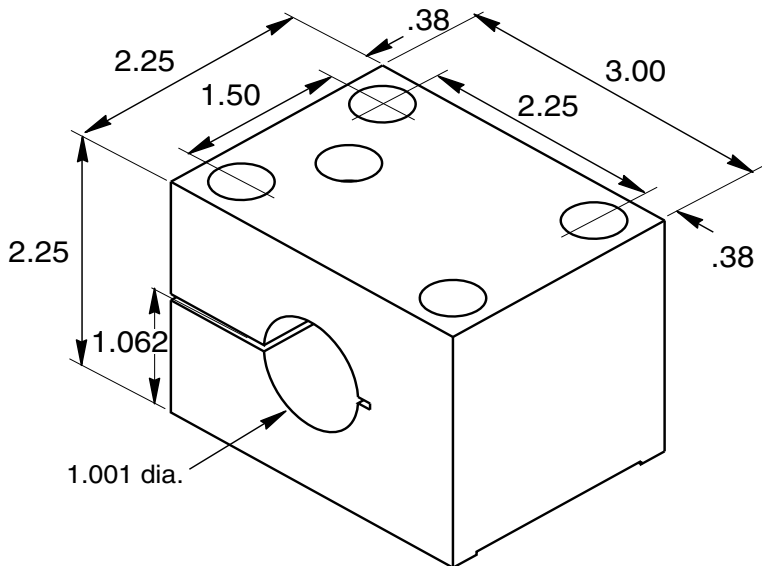
**Material - Aluminum
Finish - Clear Anodize**

Single Horizontal Base

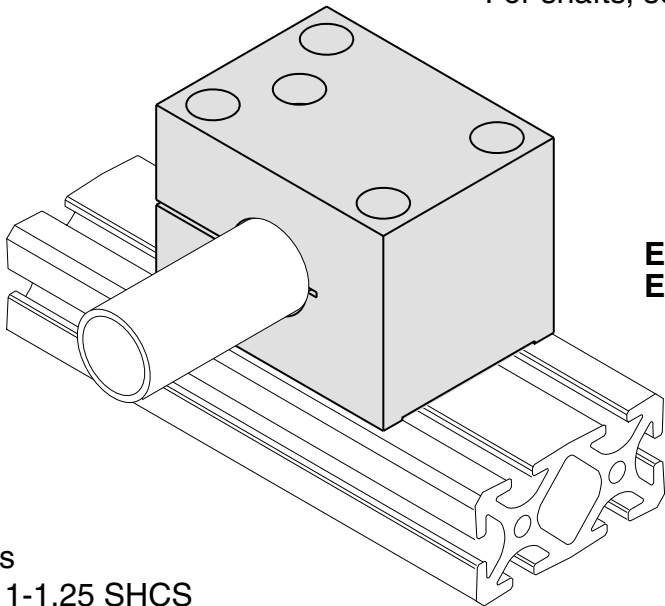


EB-216	with locking handle
EB-217	with locking 5/16 SHCS

5/16" SLOTS



For shafts, see page 291.



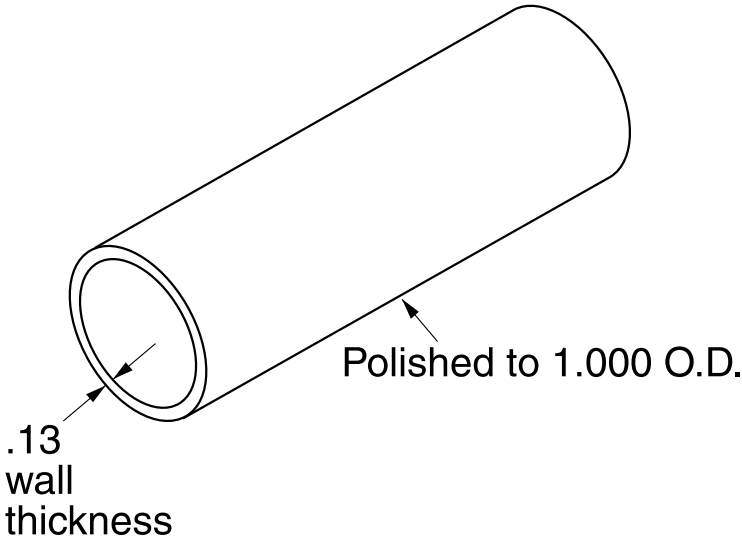
**EX-2, EX-67,
EX-3, EX-37**

Requires
(4) EF-11-1.25 SHCS
(4) EF-55 T-nut

Material - Aluminum
Finish - Clear Anodize

EB-218

EB-219



5/16" SLOTS

EB-218 Anodized Aluminum
Stock Length = 71"

EB-219 Ground and Polished Steel (DOM)
Stock Length = 71"

Note: For any length other than stock length for all of the above, add EM-1 cutting charge

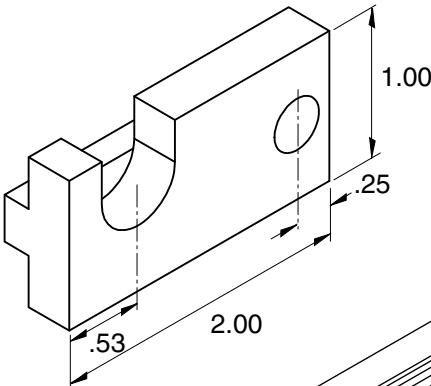
Conveyor Roller Mounting Block



EF-150
EF-151

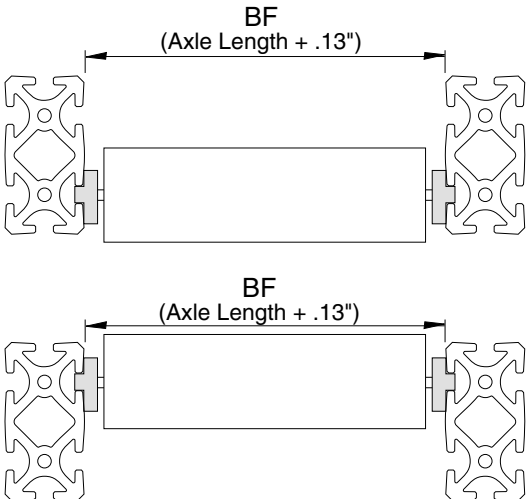
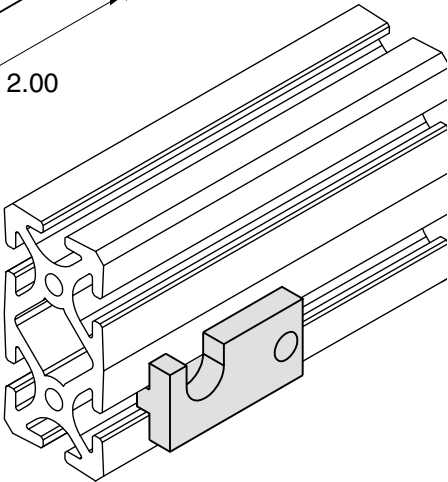
5/16" profiles
1/4" profiles

5/16" SLOTS



Axle size up to
7/16" hex or 1/2" round
Fasteners Included

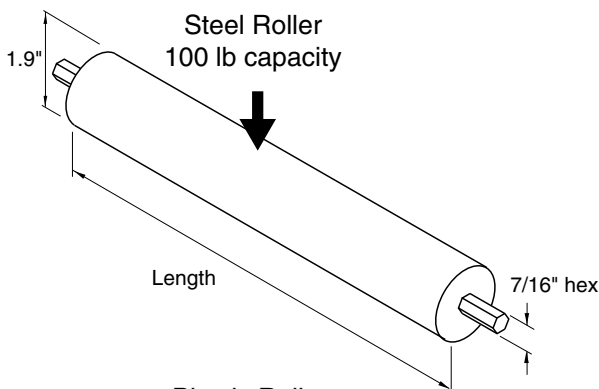
Rollers can be put in or taken
out individually without taking
conveyor apart



	BF (Length between frame)
Roller	
Part no.	Inches
EF-161	14.375
EF-162	20.375
EF-163	26.375
EF-166	14.375
EF-167	20.375
EF-168	26.375

Note: See page 293 for rollers.

Material - Aluminum
Finish - Clear Anodize

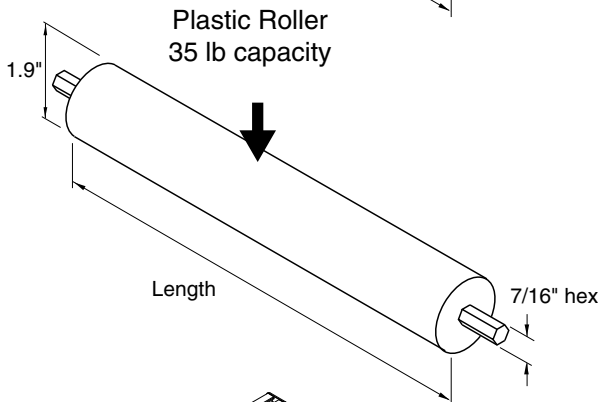


Steel Rollers (Mild-uncoated)

EF-161 12.75" long

EF-162 18.75" long

EF-163 24.75" long

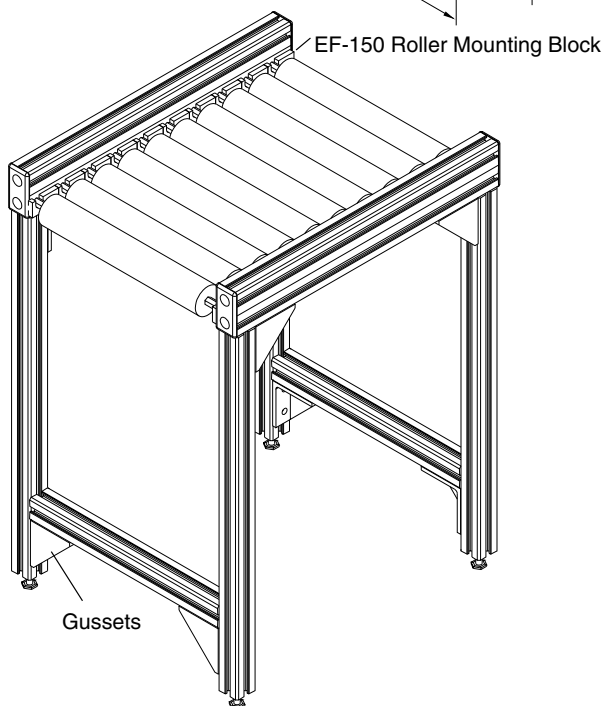


Plastic Rollers (PVC)

EF-166 12.75" long

EF-167 18.75" long

EF-168 24.75" long



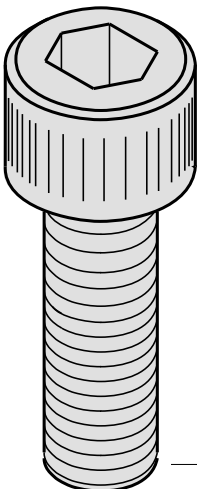
Note: Other roller types available, consult factory.

EF-11

Fractional
EF-11 (5/16-18 thd)

L - inch

- .5
- .63
- .75
- .875
- 1.0
- 1.25
- 1.5
- 1.75
- 2.0
- 2.5
- 3.0
- 3.5



Metric
EF-11M
(m8 x 1.25 thd)

L - mm

- 12
- 16
- 20
- 25
- 30
- 35
- 45

L

Material - Steel

Finish - Black Oxide Coated

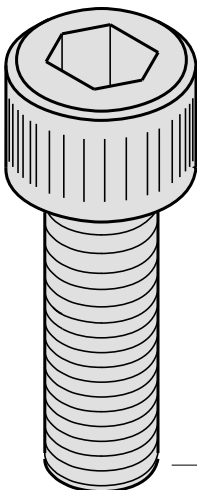
5/16" SLOTS

EF-11SS

Stainless Steel

L-inch

- EF-11SS-.5
- EF-11SS-.63
- EF-11SS-.75
- EF-11SS-.875
- EF-11SS-1.0
- EF-11SS-1.25
- EF-11SS-1.5
- EF-11SS-1.75
- EF-11SS-2.0
- EF-11SS-3.0



Metric
EF-11M-SS
(m8 x 1.25 thd)

- EF-11M-SS-16
- EF-11M-SS-20
- EF-11M-SS-25
- EF-11M-SS-30
- EF-11M-SS-35

L

Material - Stainless Steel

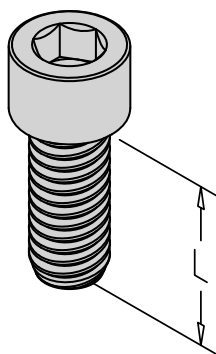
Fractional

(5/16" - 18 thd) L = inch

EF-11K-.50**EF-11K-.63****EF-11K-.75****EF-11K-.875****EF-11K-1.00****EF-11K-1.25****EF-11K-1.50**

Metric

(M8 x 1.25 thd) L = mm

EF-11MK-12**EF-11MK-16****EF-11MK-20****EF-11MK-25****EF-11MK-30****EF-11MK-35**

Material - Steel
Finish - Bright Zinc Plated

5/16" SLOTS

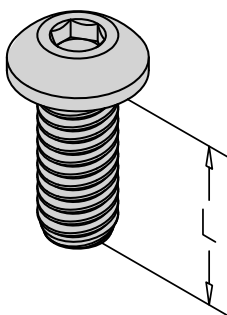
Fractional

(5/16" - 18 thd) L = inch

EF-12K-.50**EF-12K-.63****EF-12K-.75****EF-12K-.875****EF-12K-1.00****EF-12K-1.25****EF-12K-1.50**

Metric

(M8 x 1.25 thd) L = mm

EF-12MK-12**EF-12MK-16****EF-12MK-18****EF-12MK-20****EF-12MK-25****EF-12MK-30****EF-12MK-35**

Material - Steel
Finish - Bright Zinc Plated

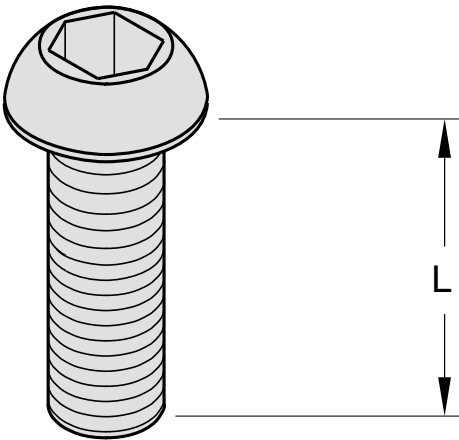
Button Head Cap Screw



EF-12

Fractional
EF-12
(5/16-18 thd)
L - inch

- .38
- .5
- .63
- .75
- .875
- 1.0
- 1.25
- 1.5
- 2.0
- 2.5



Metric
EF-12M
(m8 x 1.25 thd)
L - mm

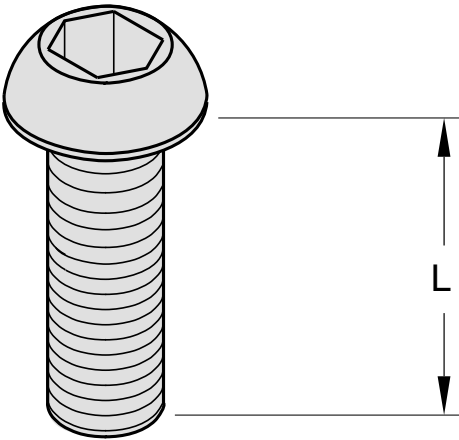
- 12
- 16
- 18
- 20
- 25
- 30

Material - Steel
Finish - Black Oxide Coated

5/16" SLOTS

EF-12SS Stainless Steel
Button Head Cap Screw

L-inch
EF-12SS-.5
EF-12SS-.63
EF-12SS-.75
EF-12SS-.875
EF-12SS-1.0
EF-12SS-1.25
EF-12SS-1.5
EF-12SS-2.0



Metric
EF-12M-SS
(m8 x 1.25 thd)
EF-12M-SS-12
EF-12M-SS-16
EF-12M-SS-20
EF-12M-SS-25
EF-12M-SS-30

Material - Stainless Steel

EF-12F (flanged)
(5/16-18 thd)

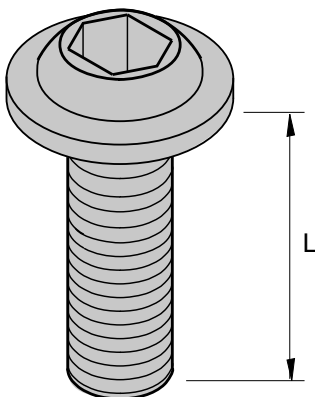
L - inch

.5

.63

.75

1.0



Metric
EF-12FM
(m8 x 1.25 thd)

L - mm

16

25

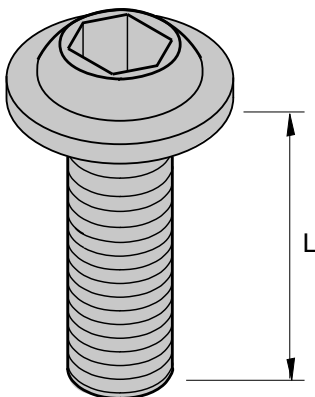
5/16" SLOTS

Material - Steel
Finish - Black Oxide Coated

Stainless Steel
Button Head Cap Screw (Flanged)

EF-12F-SS

L-inch
EF-12F-SS-.5
EF-12F-SS-.63
EF-12F-SS-.75
EF-12F-SS-1.0



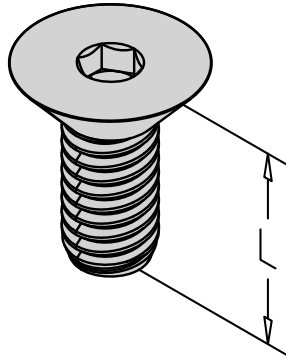
Metric
EF-12FM-SS
(m8 x 1.25 thd)
EF-12FM-SS-16
EF-12FM-SS-25

Flat Head Socket Cap Screws



EF-156
EF-157
EF-158

5/16-18 thd.
 1/4-20 thd.
 #10-32 thd.



5/16" SLOTS

Steel

(5/16" - 18 thd)
 L = inch
EF-156-.50
EF-156-.63
EF-156-.75
EF-156-.88
EF-156-1.0
EF-156-1.25
EF-156-1.375

(1/4" - 20 thd)
 L = inch
EF-157-.50
EF-157-.63
EF-157-.75
EF-157-.88
EF-157-1.0

(#10-32 thd)
 L = inch
EF-158-.50
EF-158-.63

Stainless Steel

(5/16" - 18 thd)
 L = inch
EF-156SS-.50
EF-156SS-.63
EF-156SS-.75
EF-156SS-.88
EF-156SS-1.0
EF-156SS-1.25

(1/4" - 20 thd)
 L = inch
EF-157SS-.50
EF-157SS-.63
EF-157SS-.75
EF-157SS-.88

(#10-32 thd)
 L = inch
EF-158SS-.38
EF-158SS-.50
EF-158SS-.63
EF-158SS-.75
EF-158SS-1.0

Metric

m8 x 1.25 thd steel
FM8-16
FM8-20

m8 x 1.25 thd
 stainless steel
FM8-16-SS
FM8-20-SS

m6 x 1.0 thd steel
FM6-12
FM6-14
FM6-16
FM6-20
FM6-25
FM6-30
FM6-40

m6 x 1.0 thd
 stainless steel
FM6-12-SS
FM6-14-SS
FM6-16-SS

EF-9

Fractional
5/16-18 thd

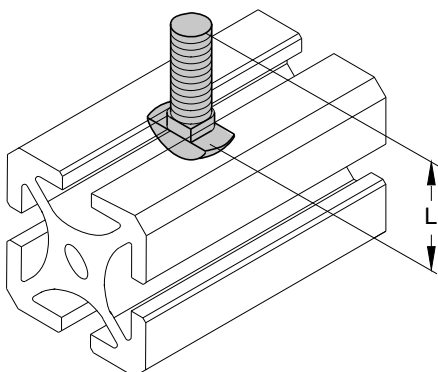
L - inch

EF-9-.75

EF-9-1.0

EF-9-1.25

EF-9-1.5



Metric

m8 x 1.25 thd

EF-9M-20

EF-9M-25

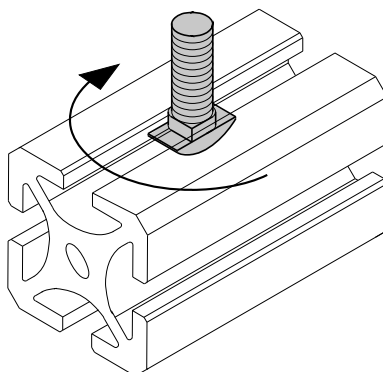
m6 x 1.0 thd

EF-9M6-20

EF-9M6-25

EF-9M6-30

EF-9M6-40



Material - Steel
Finish - Zinc Plated

5/16" SLOTS

Zinc Plated Hex Cap Screw
EF-155

Fractional
(5/16" - 18 thd)

L = inch

EF-155-.50

EF-155-.63

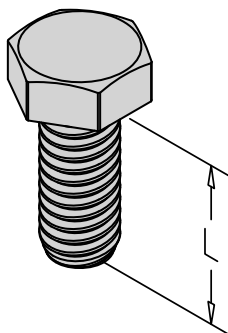
EF-155-.75

EF-155-.875

EF-155-1.00

EF-155-1.25

EF-155-1.50



Metric

(M8 x 1.25 thd)

L = mm

EF-155M-12

EF-155M-16

EF-155M-20

EF-155M-25

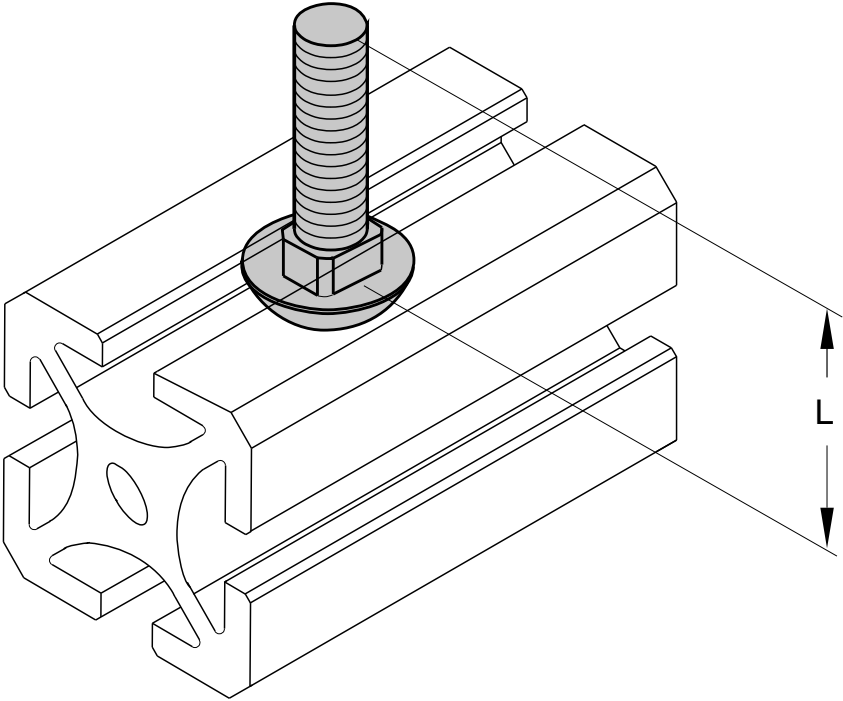
EF-155M-30

Material - Steel
Finish - Bright Zinc
Plated

Material - Steel
Finish - Yellow Zinc
Plated

EF-10

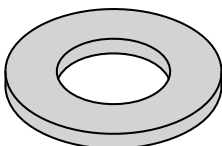
5/16" SLOTS



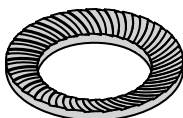
Fractional
Zinc Plated Steel
5/16-18 thd
L - inch
EF-10-.75
EF-10-1.0
EF-10-1.25
EF-10-1.5
EF-10-1.75
EF-10-2.0
EF-10-2.5

Fractional
Stainless Steel
5/16-18 thd
L - inch
EF-10SS-1.0
EF-10SS-1.25
EF-10SS-1.5

Metric
Zinc Plated Steel
m8 x 1.25 thd
EF-10M-20
EF-10M-25
EF-10M-35
EF-10M-45

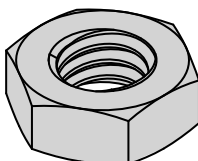


- EF-13A** Washer Hardened Steel
Heavy Duty (Black Oxide)
(use with M8 also)
- EF-SS13A** Washer (Stainless Steel)
- EF-13S** Washer (Zinc Plated Steel)
- EF-13N** Washer (Nylon)



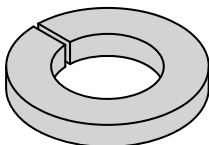
- EF-13B** Serrated Belleville
(use with M8 also)

Material - Steel
Finish - Black Oxide



- EF-13C** 5/16-18 Hex Nut
- EF-13CM** M8 x 1.25 Hex Nut
- EF-13CS** 5/16-18 Stainless Steel Hex Nut

Material - Steel
Finish - Zinc Plated

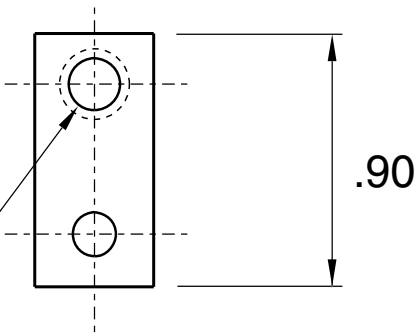
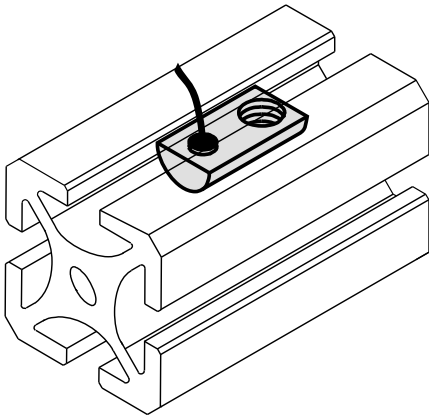


- EF-13L** Locking Washer
- EF-13L-ET** Locking Washer
with External Teeth

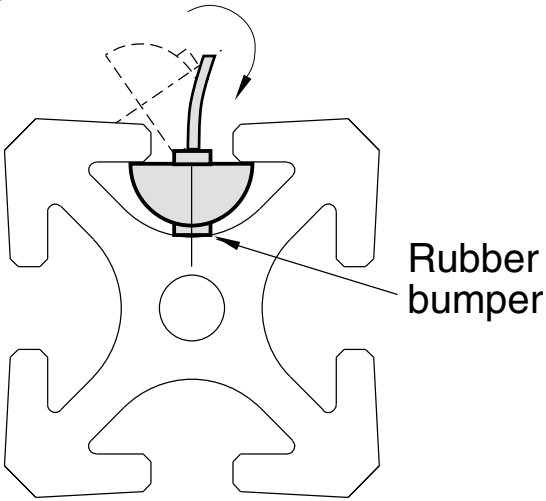
Material - Steel
Finish - Zinc Plated

EF-1

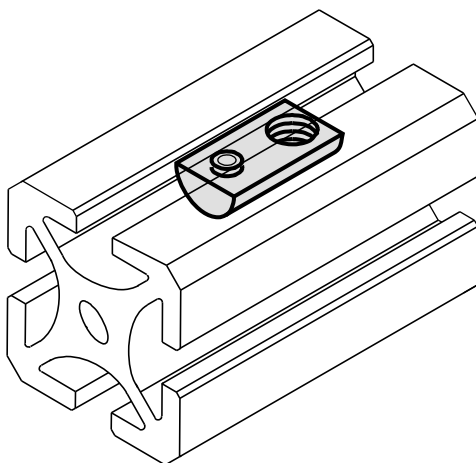
5/16" SLOTS



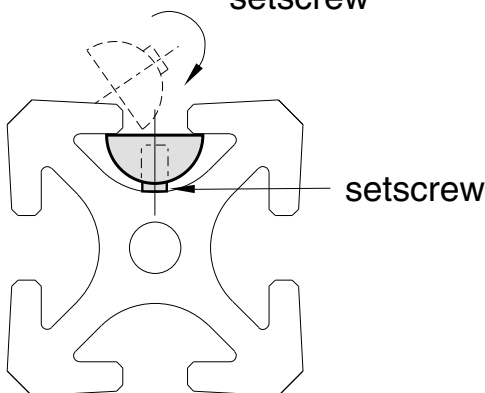
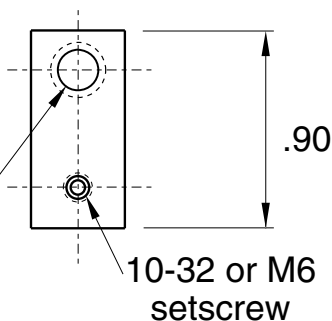
- EF-1** 5/16-18 thd
- EF-1A** 1/4-20 thd
- EF-1B** 10-32 thd
- EF-1C** m8 x 1.25 thd
- EF-1D** m6 x 1.0 thd
- EF-1E** 8-32 thd



Material - Steel
Finish - Zinc Plated


EF-65
EF-66
EF-67
EF-68
EF-69
5/16" SLOTS

- EF-65** 5/16-18 thd
- EF-66** 1/4-20 thd
- EF-67** 10-32 thd
- EF-68** m8 x 1.25 thd
- EF-69** m6 x 1.0 thd

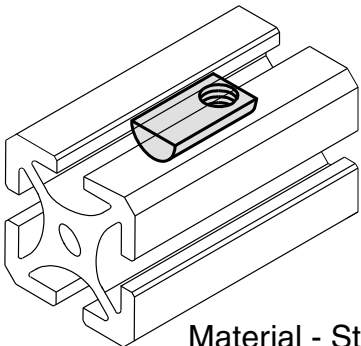
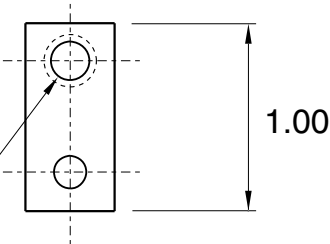


Material - Steel
Finish - Zinc Plated

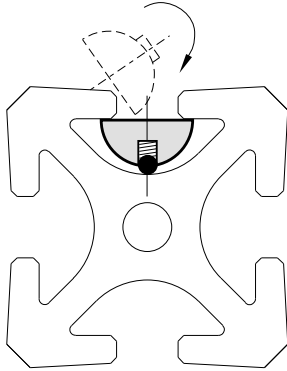
Ball and Spring Pivot T-nut



EF-91	use with EX-1, EX-2, EX-26, EX-3, and EX-36 only	
EF-92		
EF-93	EF-91	5/16-18 thd
EF-94	EF-92	1/4-20 thd
EF-95	EF-93	10-32 thd
	EF-94	m8 x 1.25 thd
	EF-95	m6 x 1.0 thd



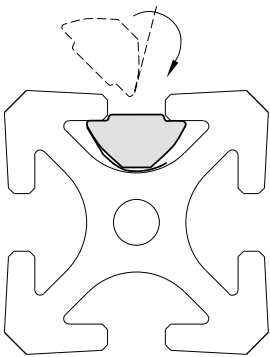
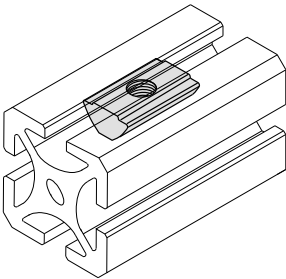
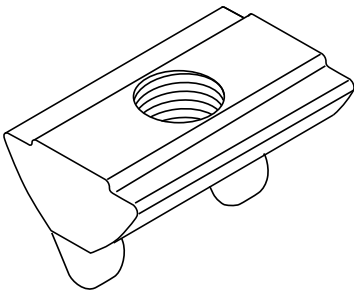
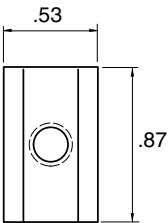
Material - Steel
Finish - Zinc Plated

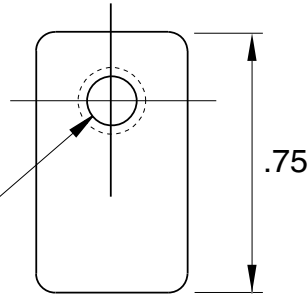
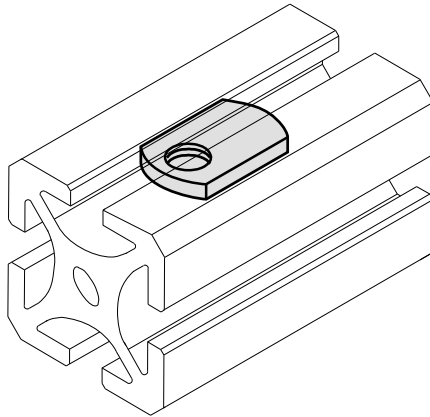


5/16" SLOTS

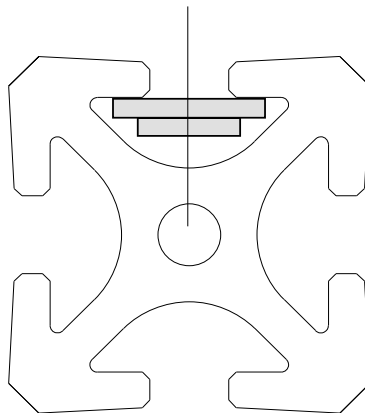
Leaf Spring Pivot T-nut

EF-5	5/16-18 thd
EF-5A	1/4-20 thd
EF-5B	10-32 thd
EF-5C	m8 x 1.25 thd
EF-5E	m6 x 1.0 thd
EF-5F	m5 x 0.8 thd





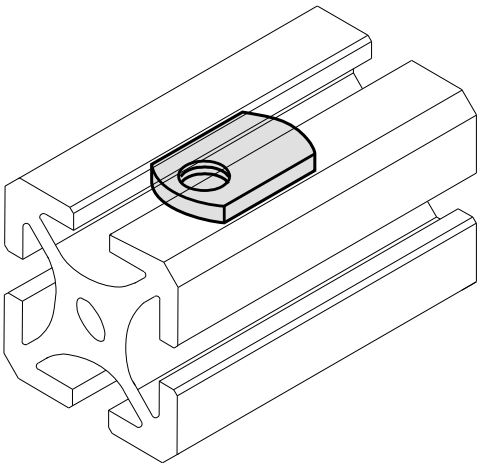
EF-2	5/16-18 thd
EF-2A	1/4-20 thd
EF-2B	10-32 thd
EF-2C	m8 x 1.25 thd
EF-2E	m6 x 1.0 thd
11-217	8-32 thd



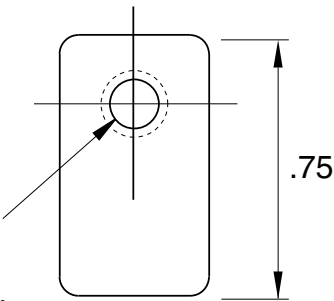
Material - Steel
Finish - Zinc Plated

5/16" SLOTS

EF-2ST

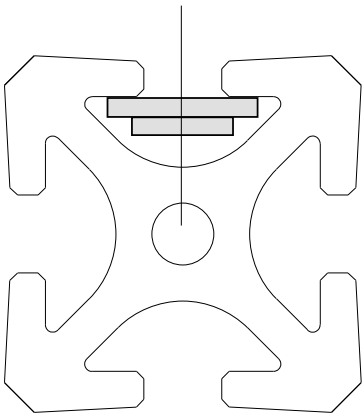


5/16" SLOTS



- EF-2ST** 5/16-18 thd
- EF-2AST** 1/4-20 thd
- EF-2CST** m8 x 1.25 thd
- EF-2BST** 10-32 thd

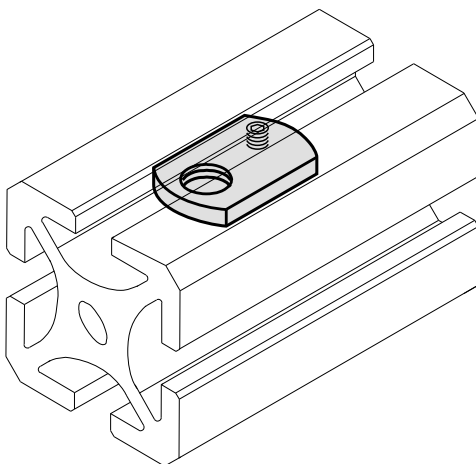
Stainless Steel



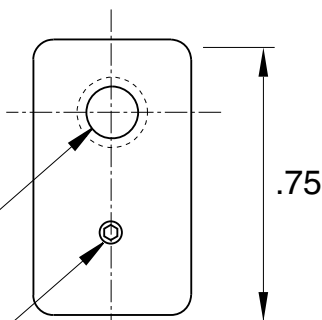
EF-50

EF-51

EF-52

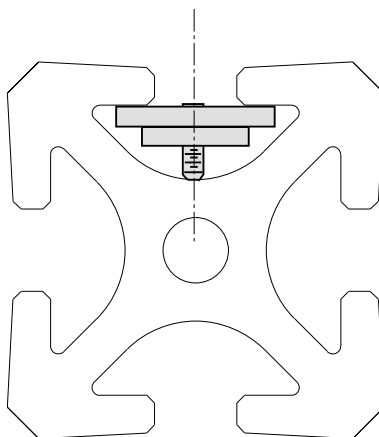


- EF-50** 5/16-18 thd
- EF-51** 1/4-20 thd
- EF-52** m8 x 1.25 thd



set screw
(included)

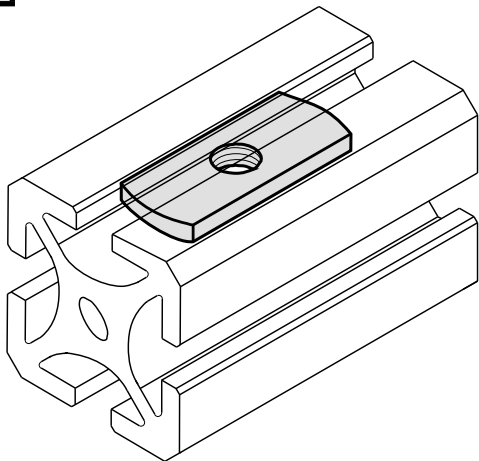
Set screw holds
T-nut in place



Material - Steel
Finish - Zinc Plated

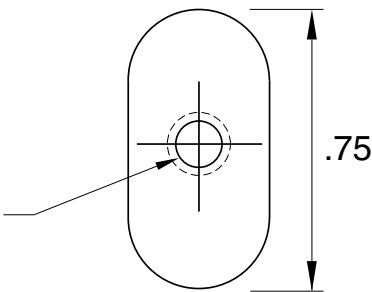
5/16" SLOTS

EF-4

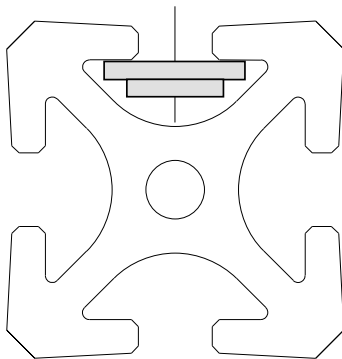


5/16" SLOTS

- EF-4** 5/16-18 thd
EF-4-B 5/16-18 thd
black zinc
plated
EF-4A 1/4-20 thd
EF-4C m8 x 1.25 thd
EF-4C-B m8 x 1.25 thd
black zinc
plated
EF-4D m6 x 1.0 thd



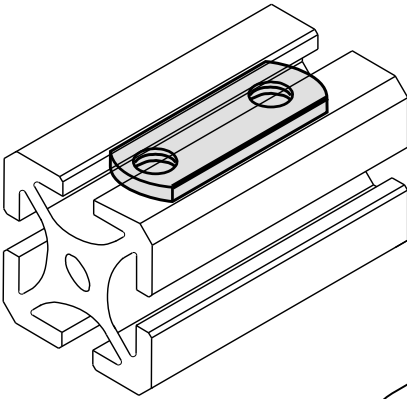
- 11-217** 8-32 thd
11-219 6-32 thd



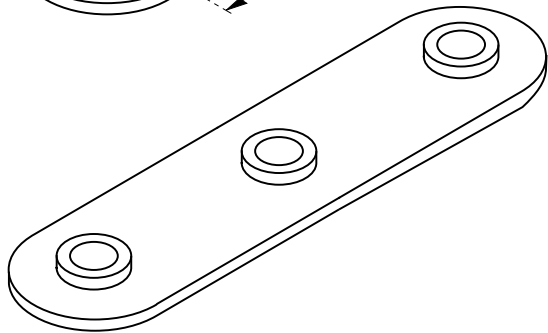
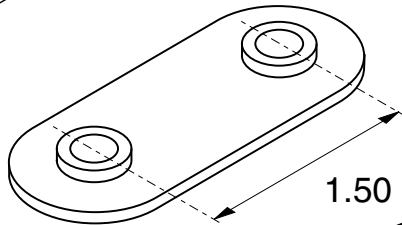
Material - Steel
Finish - Zinc Plated

EF-2D

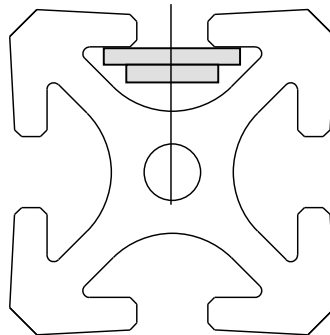
EF-2TRP



EF-2D 5/16-18 thd
EF-2D-B 5/16-18 thd
 black zinc
 plated
EF-2D-M8 m8 x 1.25 thd



EF-2TRP Triple economy T-nut
 5/16-18 thd



Material - Steel
Finish - Zinc Plated

5/16" SLOTS

Heavy Duty T-nut

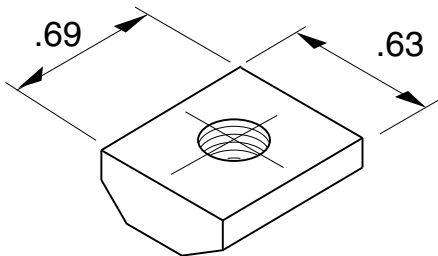


5/16" SLOTS

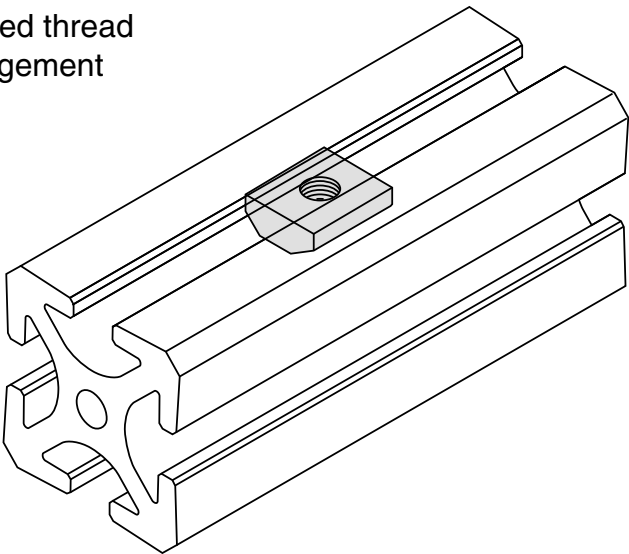
EF-55
EF-56
EF-57
EF-58
EF-59
EF-83
EF-84

.33 Slot Width

EF-55	5/16-18 thd
EF-56	1/4-20 thd
EF-57	10-32 thd
EF-58	m8 x 1.25 thd
EF-59	m6 x 1.0 thd
EF-83	8-32 thd
EF-84	6-32 thd
BLF-55	5/16-18 thd black zinc plated



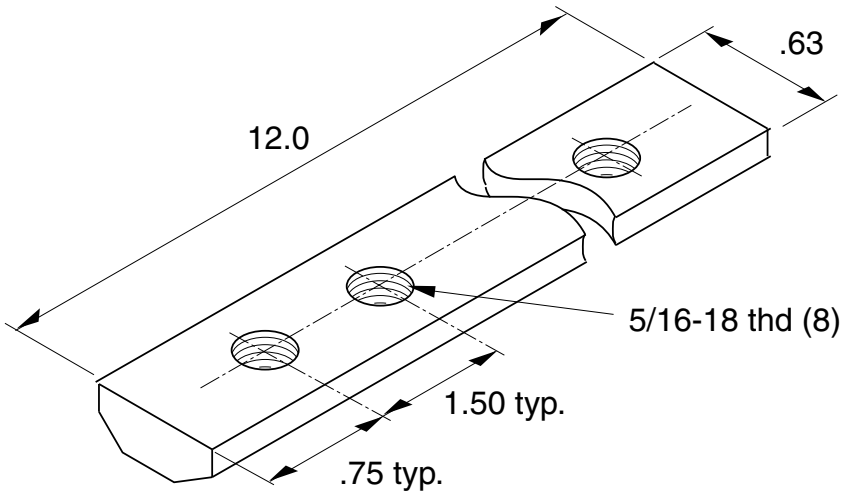
Note: Provides
increased thread
engagement



Material - Steel
Finish - Zinc Plated

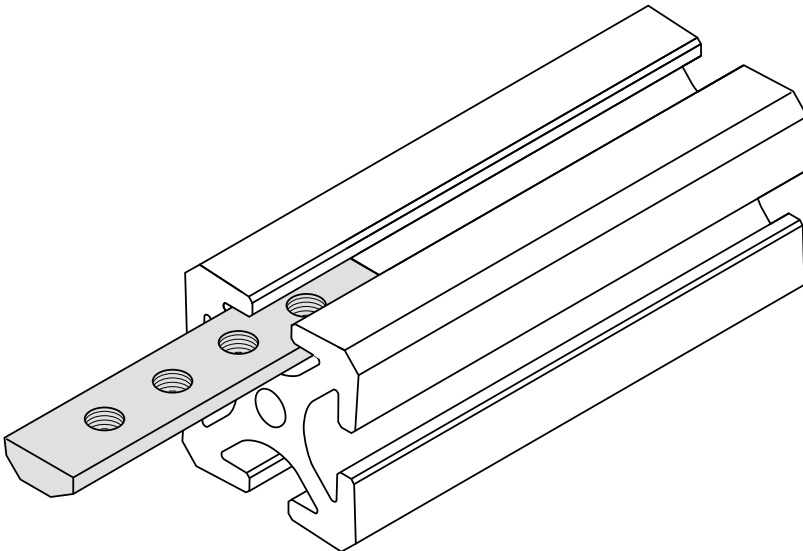
.33 Slot Width

EF-53



EF-53 12" length
EF-53-6 6" length

5/16" SLOTS



Special lengths can be provided on request

Material - Steel
 Finish - Zinc Plated

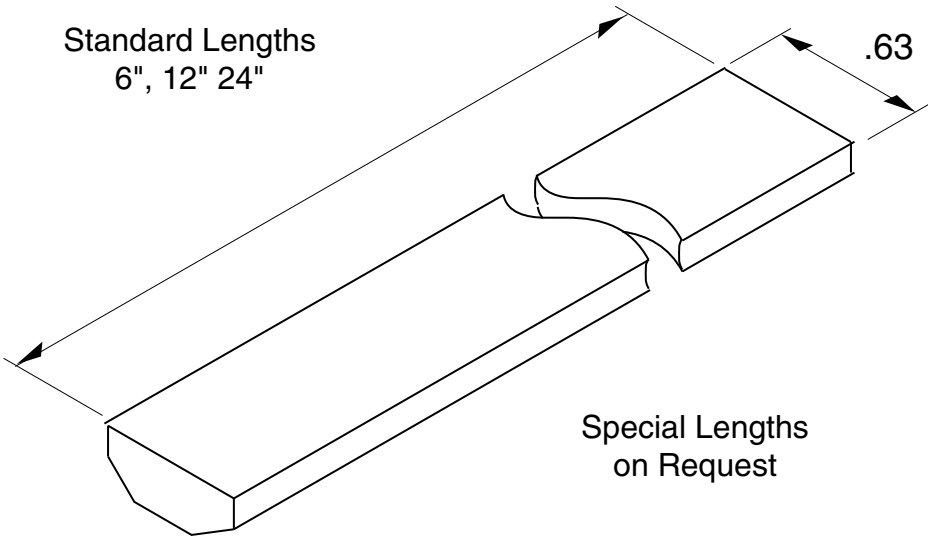
Blank Continuous T-nut



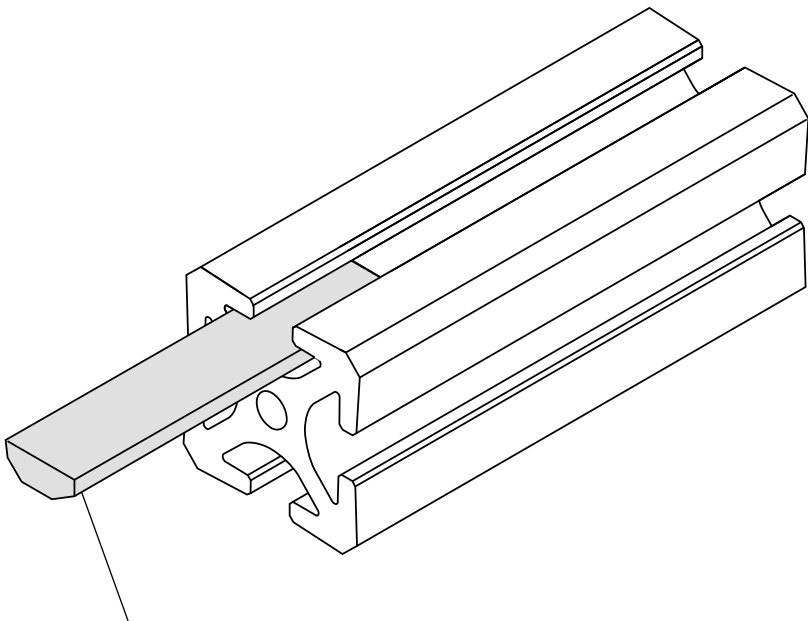
EF-53B

5/16" SLOTS

Standard Lengths
6", 12" 24"

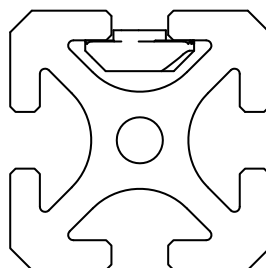
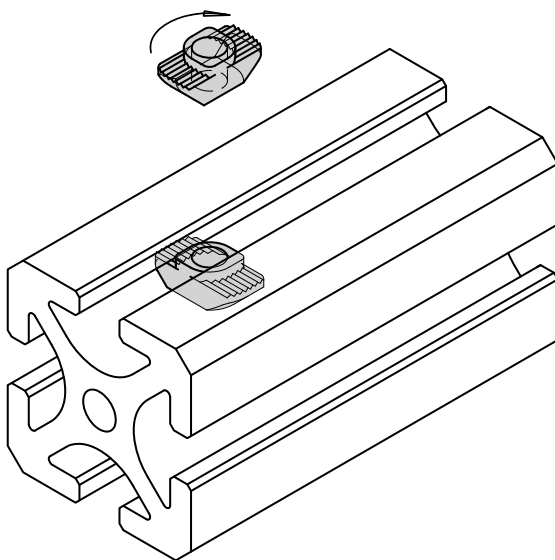


Special Lengths
on Request



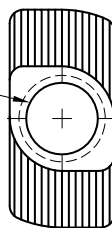
Note: Factory supplied tapped holes
can be supplied per customer specification

Material - Steel
Finish - Zinc Plated



5/16" SLOTS

- EF-96** 1/4-20 thd.
- EF-96SS** 1/4-20 thd.
stainless steel
- EF-97** 10-32 thd.
- EF-98** m6 x 1.0 thd.
- EF-99** m5 x 0.8 thd.

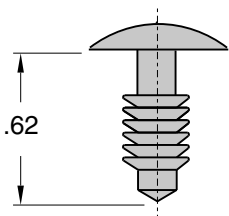


Use with 5/16" Slot Extrusions Only

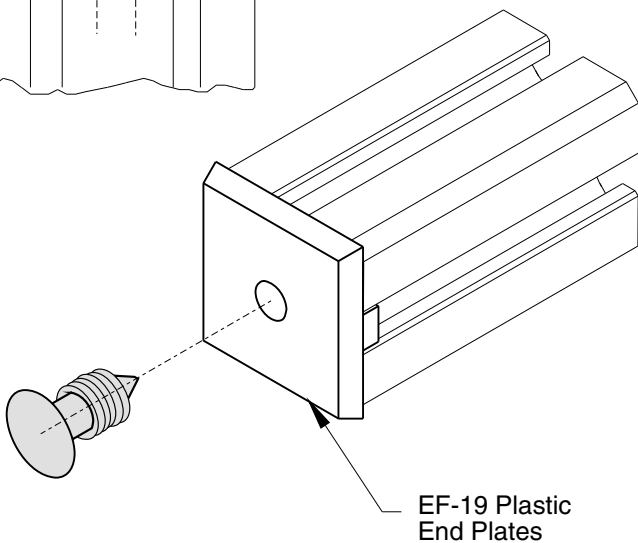
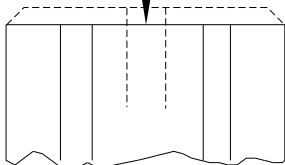
Material - Steel
Finish - Zinc Plated

EF-14

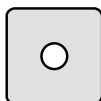
5/16" SLOTS



Note: Hole can be threaded
for permanent installation

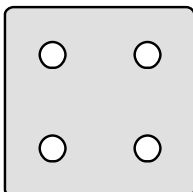


Material - Nylon



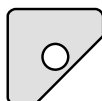
EF-19-A

use with EX-1,
EX-6, EX-61,
EX-63, EX-64,
and EX-65



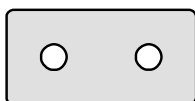
EF-19-C

use with EX-3,
and EX-36



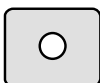
EF-19-D

use with EX-7



EF-19-B

use with EX-2,
EX-67 and EX-68



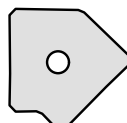
EF-19-E

use with EX-52,
and 11-251



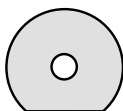
EF-19-F

use with EX-8



EF-19-G

use with EX-82



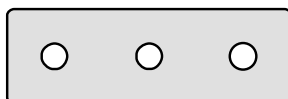
EF-19-H

use with EX-81



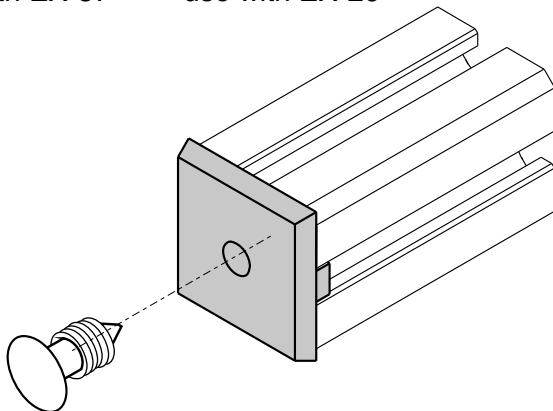
EF-19-I

use with EX-57



EF-19-J

use with EX-26



Push Lock Fasteners included with ALL end plates

Material - Black ABS Plastic

Note: for metal covers, consult the factory.

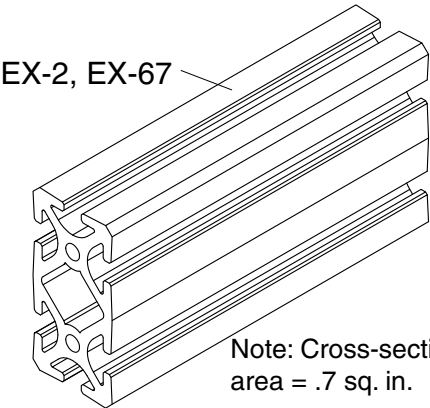
5/16" SLOTS

**Pneumatic Manifold
End Plate and Gasket**

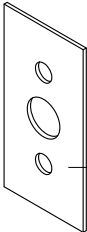
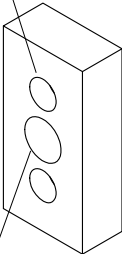


PM-2

PM-2



Drilled and C'bored
for 5/16-18 SHCS (2)



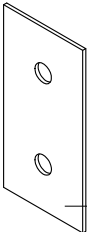
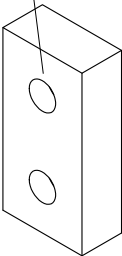
Cork Gasket Included

Note: Cross-sectional internal
area = .7 sq. in.

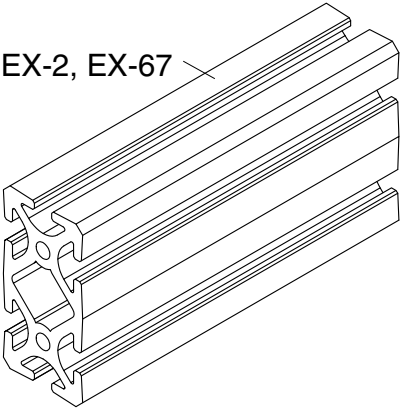
3/8 NPT

PM-2B

Drilled and C'bored
for 5/16-18 SHCS (2)



Cork Gasket Included



Note: Cross-sectional internal
area = .7 sq. in.

Note: tap extrusion holes
5/16-18 thread

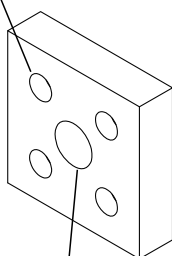
Recommended Hardware
(2) EF-11-1.0

Plate Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

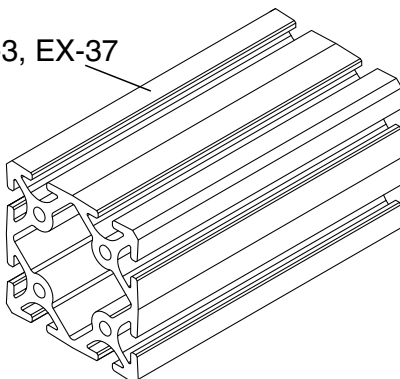
PM-3

Drilled and C'bored
for 5/16-18 SHCS (4)



1/2 NPT

EX-3, EX-37



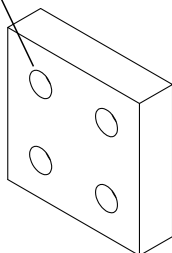
Cork Gasket Included

Note: Cross-sectional internal
area = 3.5 sq. in.

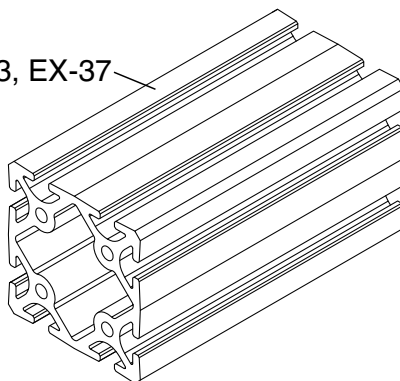
5/16" SLOTS

PM-3B

Drilled and C'bored
for 5/16-18 SHCS (4)



EX-3, EX-37



Cork Gasket Included

Note: Cross-sectional internal
area = 3.5 sq. in.

Recommended Hardware
(4) EF-11-1.0

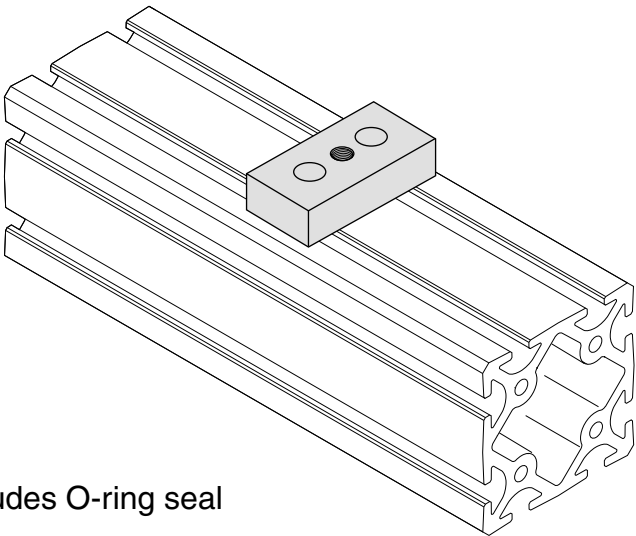
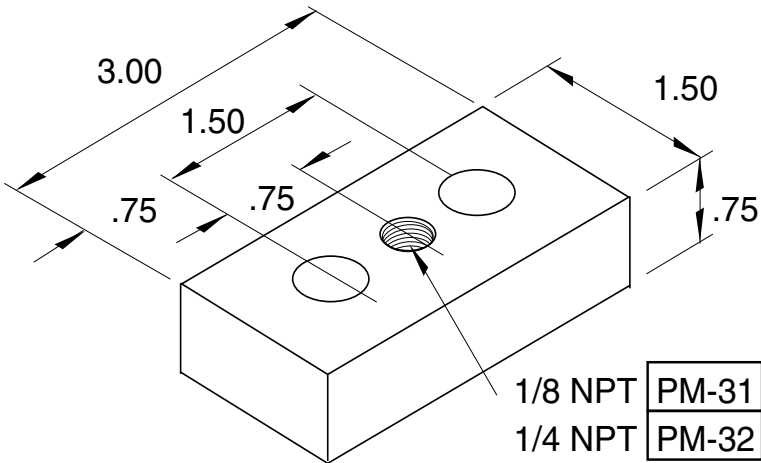
Plate Material - Aluminum
Finish - Clear Anodize

Pressure Manifold Plate



PM-31
PM-32

5/16" SLOTS

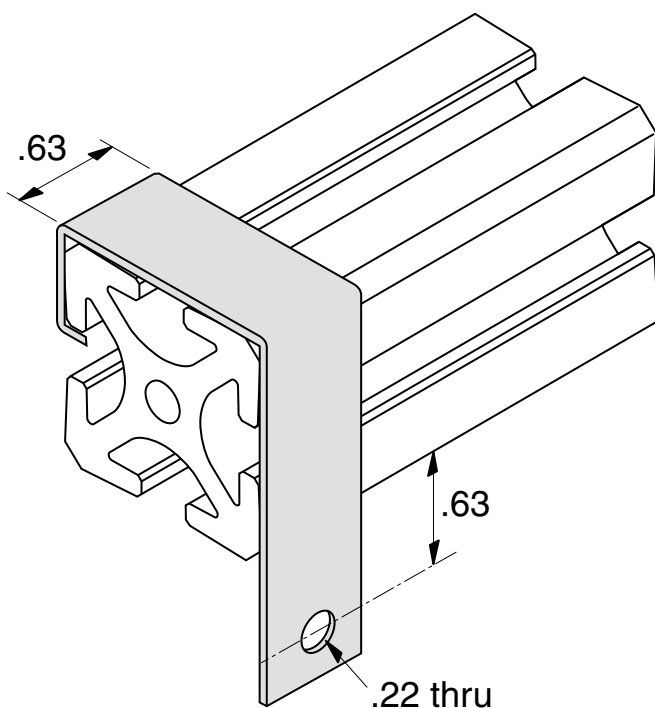


includes O-ring seal

Recommended Hardware

- (2) EF-11-.875 SHCS
- (2) EF-2 T-nuts

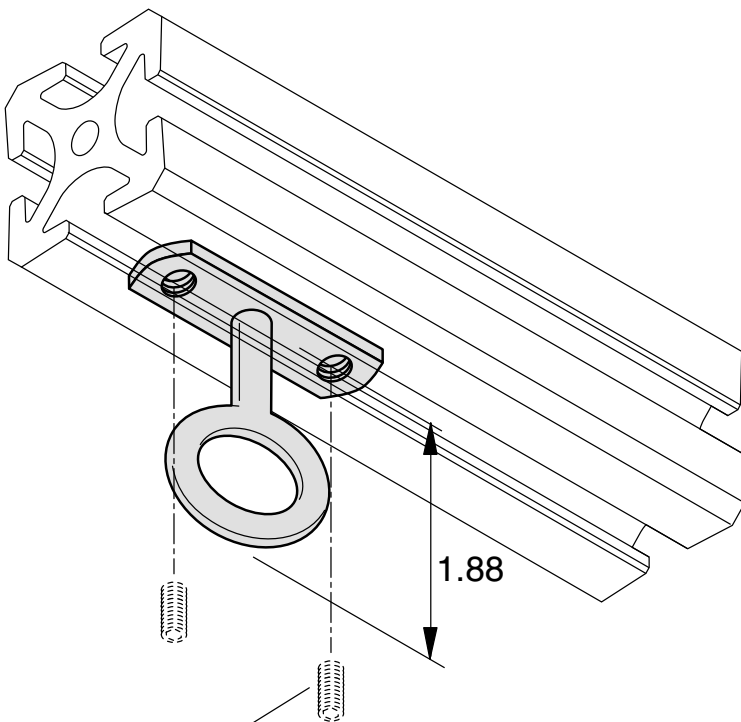
Material - Aluminum
Finish - Clear Anodize

**5/16" SLOTS**

Material
Zinc Plated Steel

ETH

5/16" SLOTS



Can be locked in place with
5/16-18 set screws

Max. load 40 lbs

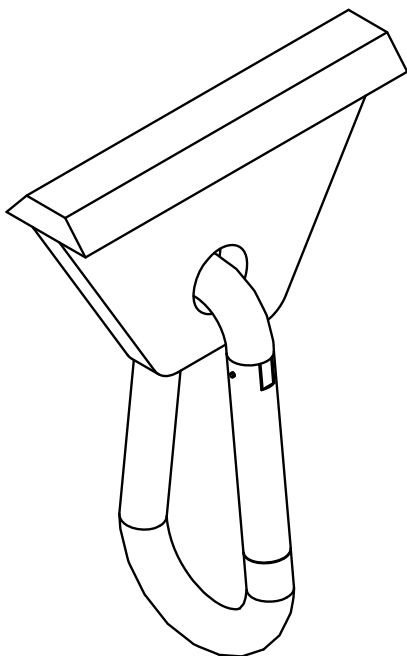
Material - Steel
Finish - Zinc Plated

without Snap Hook

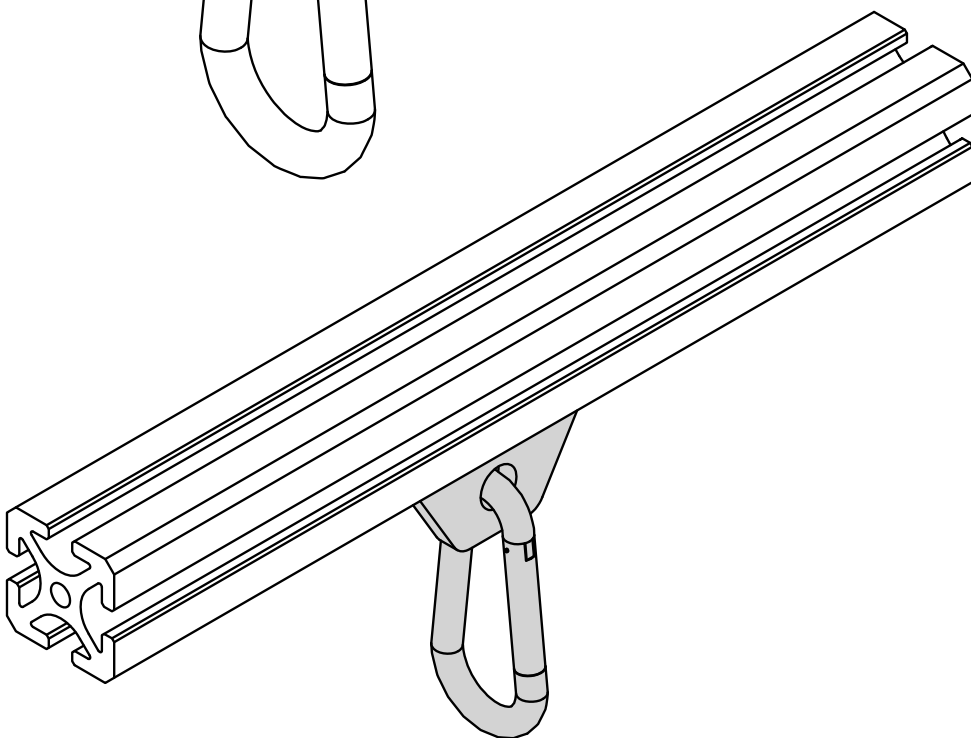
EF-146

with Snap Hook

EF-146A



Maximum Load 25 lbs



Material

Hanger - Rigid Nylon

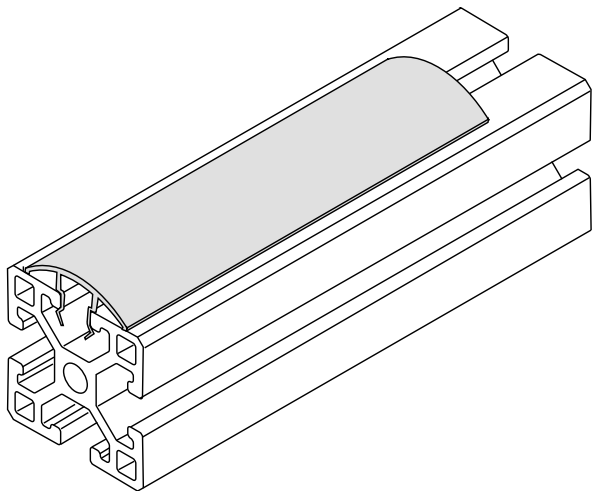
Hook - Zinc Plated Steel

5/16" SLOTS

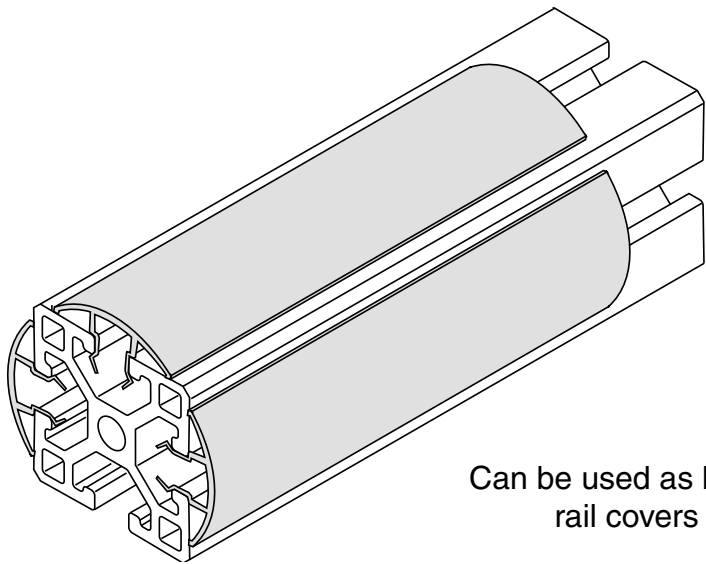
EF-28

use on all 5/16" slot extrusions
with 1.5" sides

5/16" SLOTS



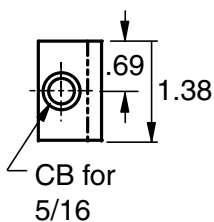
Standard length 72"



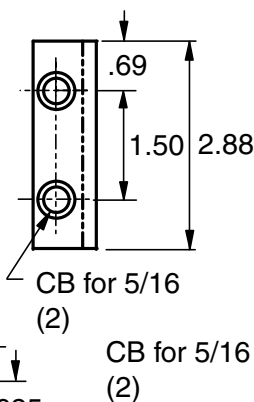
Can be used as hand-
rail covers

Material - Rigid PVC
Color - Black

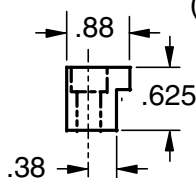
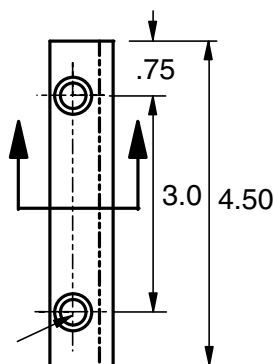
EF-30A



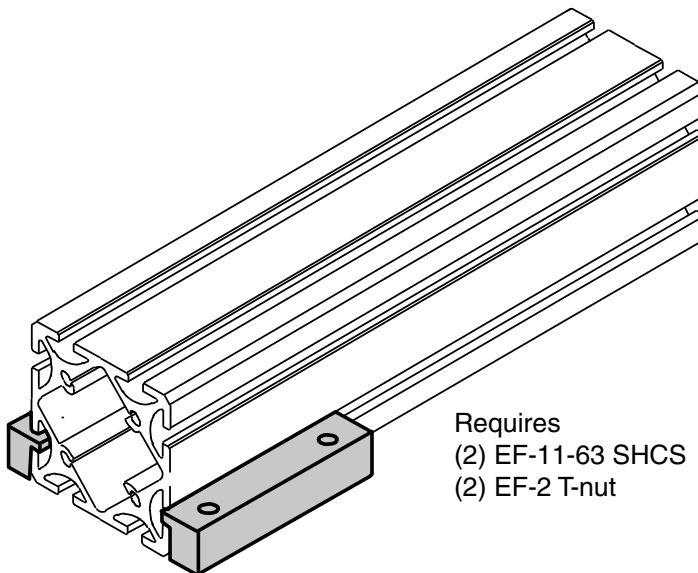
EF-30B



EF-30C



5/16" SLOTS

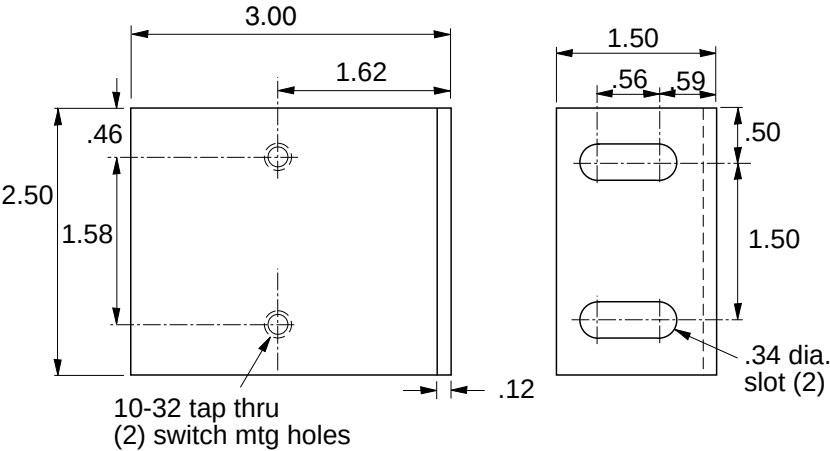


Requires
(2) EF-11-63 SHCS
(2) EF-2 T-nut

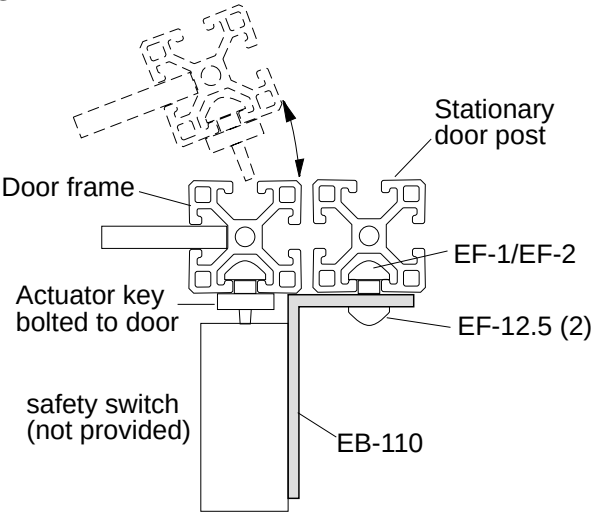
Material - Aluminum
Finish - Clear Anodize

EB-110

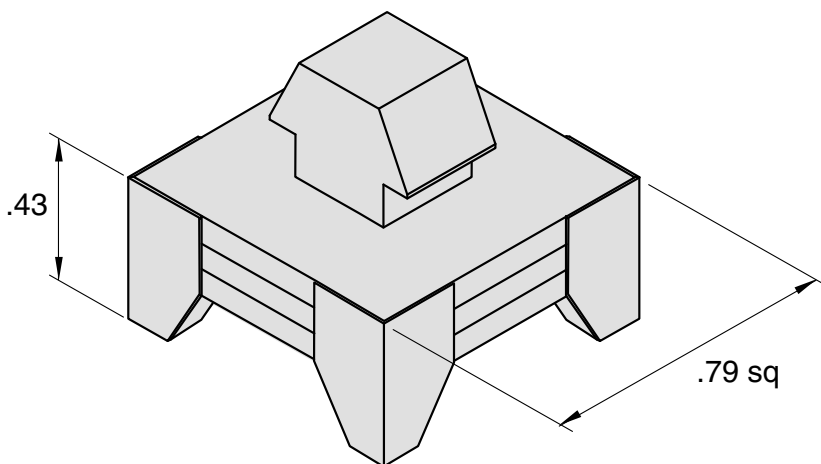
5/16" SLOTS



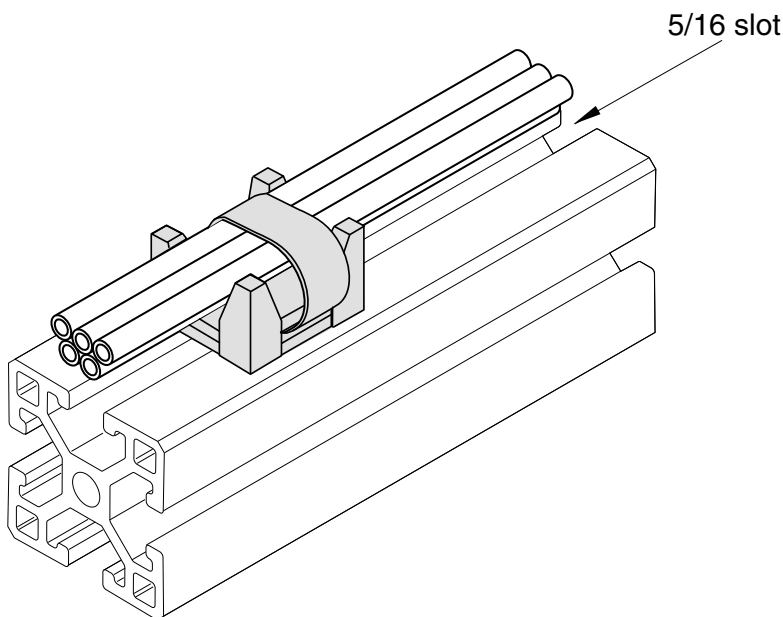
- Requires
- (2) EF-12.5 BHCS
 - (2) EF-2 T-nut



Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS

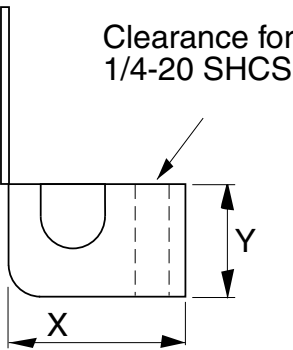


Material - Black Nylon

EF-42

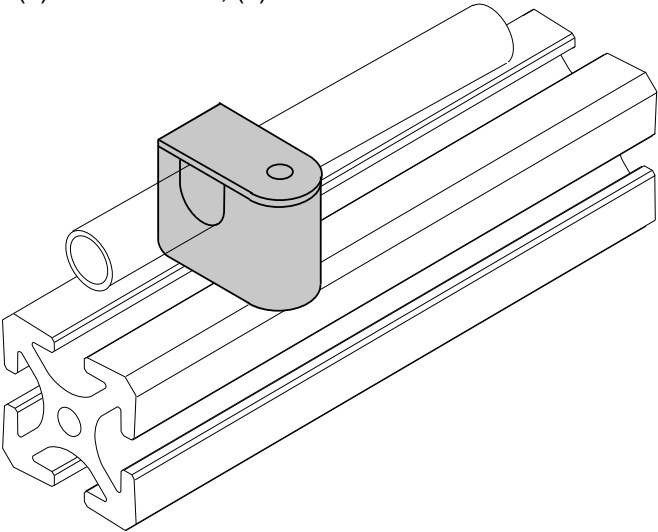
5/16" SLOTS

	Tubing Size	X	Y
EF-42A	3/8"	1.06	.56
EF-42B	1/2"	1.38	.88
EF-42C	3/4"	1.63	1.19
EF-42D	1"	1.69	1.19



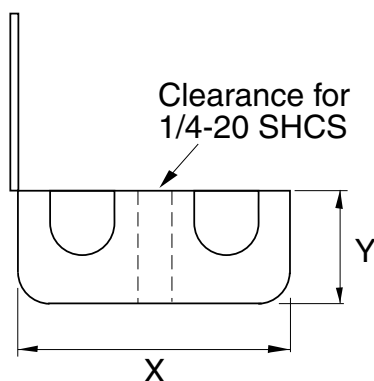
Hardware Required:

- EF-42A (1) 11-224 SHCS, (1) EF-1A T-nut
- EF-42B (1) 11-225 SHCS, (1) EF-1A T-nut
- EF-42C (1) 11-226 SHCS, (1) EF-1A T-nut
- EF-42D (1) 11-226 SHCS, (1) EF-1A T-nut



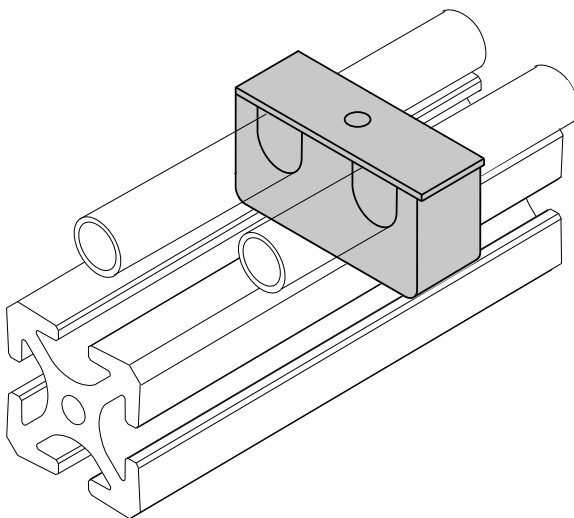
Material - Polypropylene

	Tubing Size	X	Y
EF-43A	3/8"	1.66	.56
EF-43B	1/2"	2.18	.88
EF-43C	3/4"	2.81	1.19
EF-43D	1"	2.88	1.19


5/16" SLOTS
Hardware Required:
EF-43A (1) 11-224 SHCS, (1) EF-1A T-nut

EF-43B (1) 11-225 SHCS, (1) EF-1A T-nut

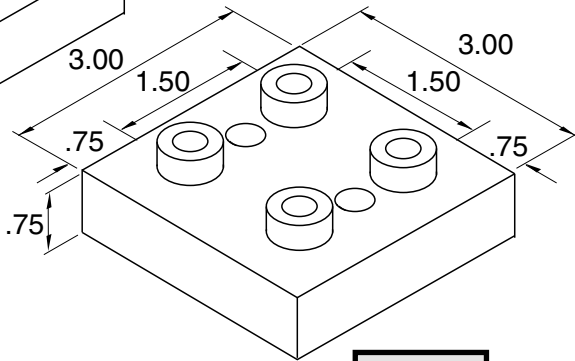
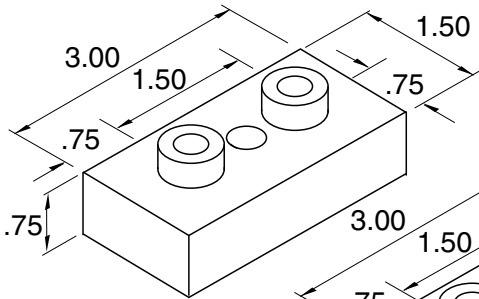
EF-43C (1) 11-226 SHCS, (1) EF-1A T-nut

EF-43D (1) 11-226 SHCS, (1) EF-1A T-nut

Material - Polypropylene

EF-80
EF-81

EF-80

Hardware Included



EF-81

Hardware Included

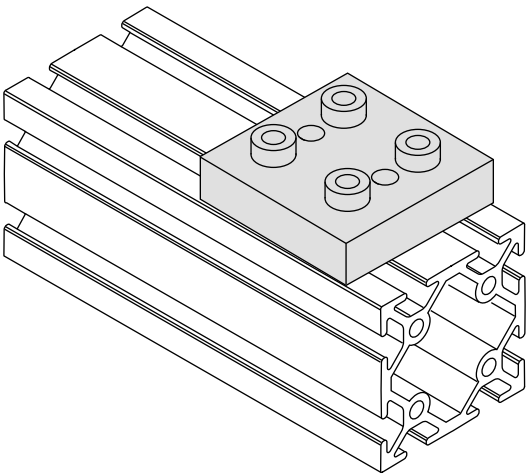
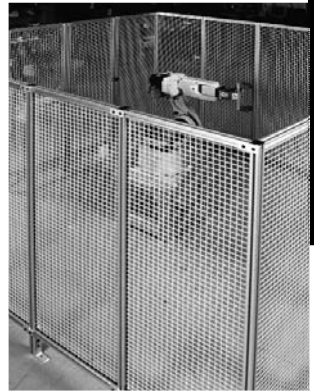


Plate Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

FRAME-WORLD introduces a line of integrated safety switches, controls, and engineered safety solutions. By providing custom and pre-packaged FastFrames guarding, FRAME-WORLD is an industry leader in safety guarding. Our line of Safety Switches, Controls and accessories enhances FRAME-WORLD's ability to provide a complete safety solution.

**SAFETY**

OSHA, ANSI, NFPA, RIA, and the CE have all developed comprehensive standards and requirements for safety. These standards are complex, but with a proper risk assessment, a machine or process can be guarded and integrated with a safety related control system. A safety related control system (often abbreviated to SRCS) is the part of the machine control system that prevents a hazardous condition from occurring. It can either be a separate dedicated system or it may be integrated with the normal machine control system.



Its complexity will vary from a typical simple system, such as a guard door interlock switch and emergency stop switch connected in series to the control coil of power contactor, to a compound system comprising both simple and complex devices communicating through software and hardware (such as PLC's, safety relays, ASI-bus, etc.).

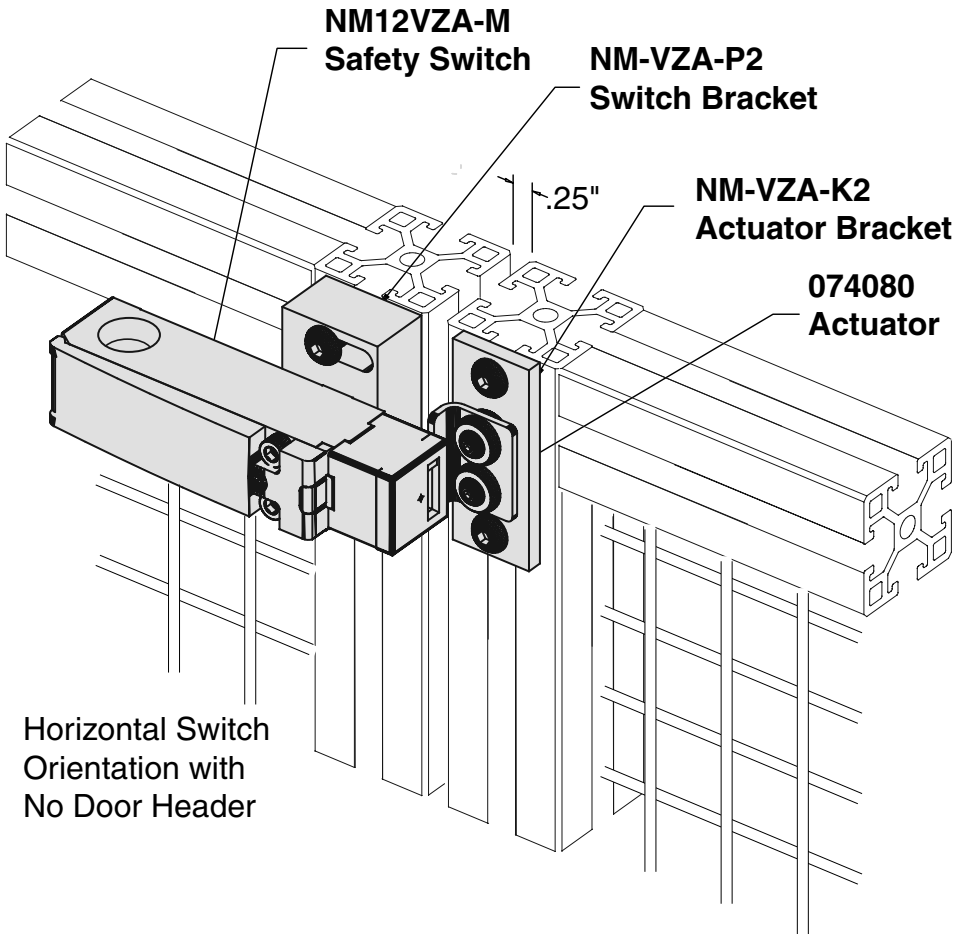
Our FRAME-WORLD engineers can assist you in developing a safety related control system. Our hard guarding products & engineered systems provide a physical barrier. Our safety switches, which we have integrated with our extrusions, provide the next layer of protection. In coordination with your safety personnel, engineers, and maintenance requirements, our safety products can be integrated into your comprehensive safety solution.

FRAME-WORLD offers safety switches, both contact & non-contact, safety interlocks, and other safety accessories that seamlessly integrate with the FRAME-WORLD product line.

SAFETY



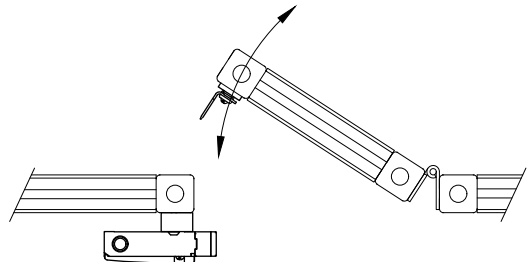
**FRAME-WORLD Safety Solutions,
when guarding just isn't enough.**



The NM12VZA-M safety switch has a long plastic housing, metal switch funnel, 2 normally closed & 1 normally open switch contacts and 3 M16 x 1.5 cable entry locations.

**Recommended Hardware
w 5/16" slot extrusion**

- (2) 11-238 (1/4-20 x 1-1/4 BHCS)
- (2) 11-232 (1/4-20 x 5/8 BHCS)
- (4) EF-2A (1/4-20 T-nut)

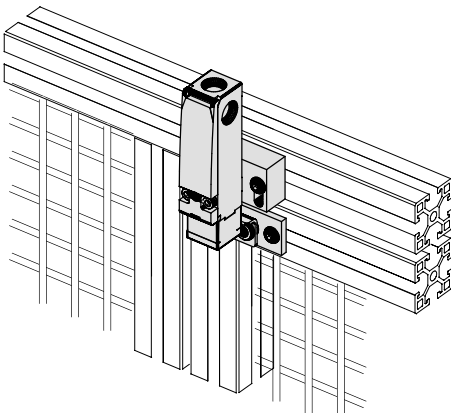
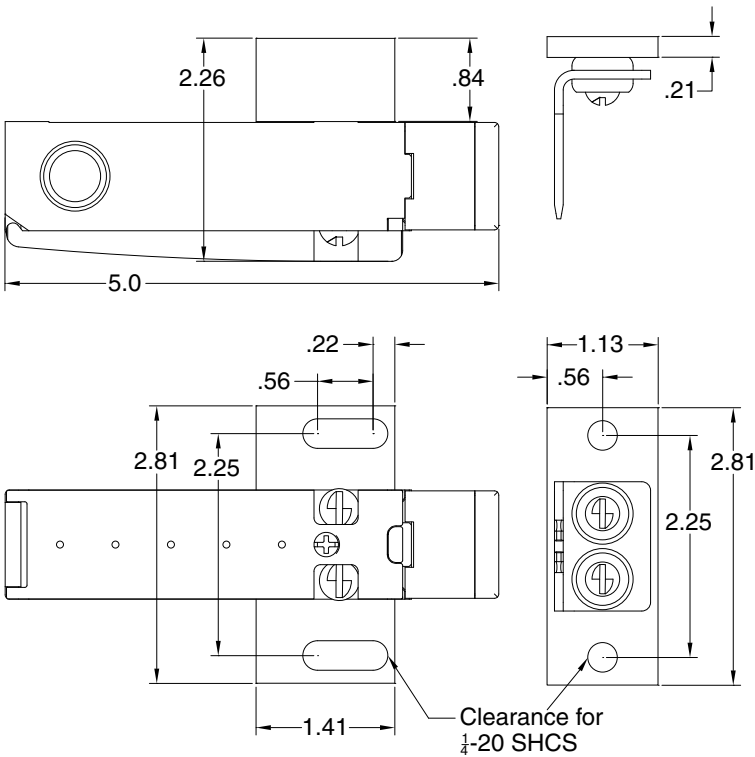


Door Radii > 12"

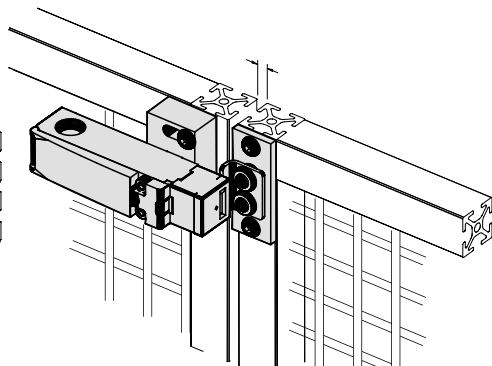
Safety Switch w Actuator



NM-VZA-HA



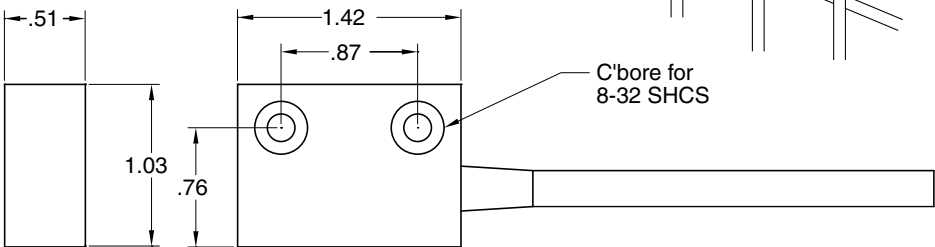
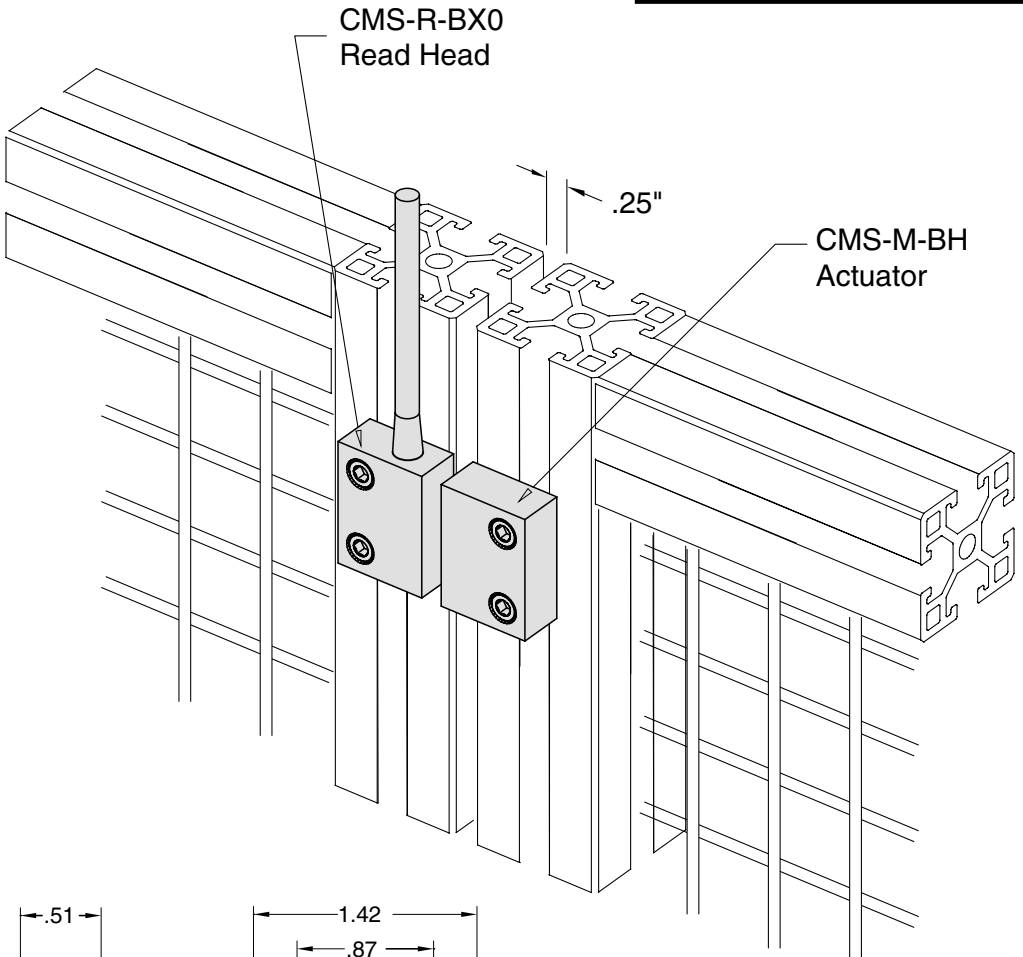
Vertical Switch Orientation
with Door Header



Horizontal Switch Orientation
mounted on EX-11 extrusion.

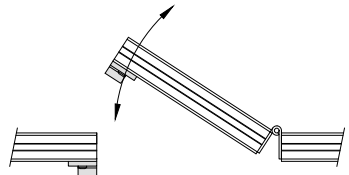
Recommended Hardware
w 1/4" slot extrusion

- (2) 11-234 (1/4-20 x 1 BHCS)
- (2) 11-231 (1/4-20 x 1/2 BHCS)
- (4) 11-210 (1/4-20 T-nut)

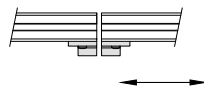


Hardware for mounting
on 5/16" slot extrusion included

Hinged Door



Sliding Door



Magnetic Non-Contact Switch (Small)

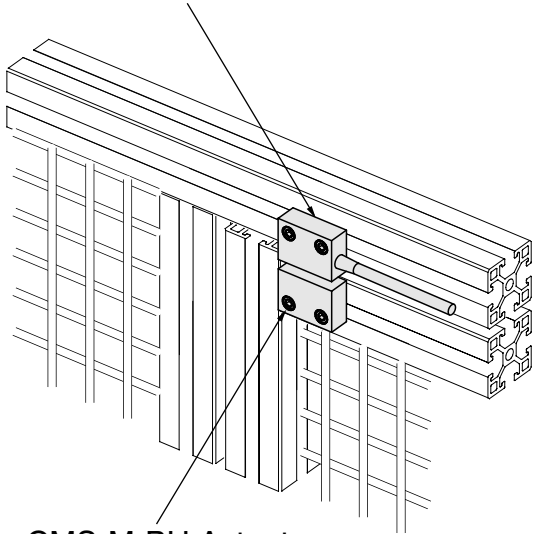


CMS-B2

1 or 2 CMS-B1 Non-Contact switches are connected in parallel to achieve a Category 2 or 3 safety system when connected to a CMS-E-AR evaluation unit.

Up to 30 read heads can be connected in SERIES to achieve a Category 1 or 2 system using the CMS-E-AR evaluation unit. Order (1) CMS-B1-AR parallel connection read head plus additional CMS-B2-AR read heads up to the total # needed for the guard.

CMS-R-BXP Read Head



CMS-M-BH Actuator

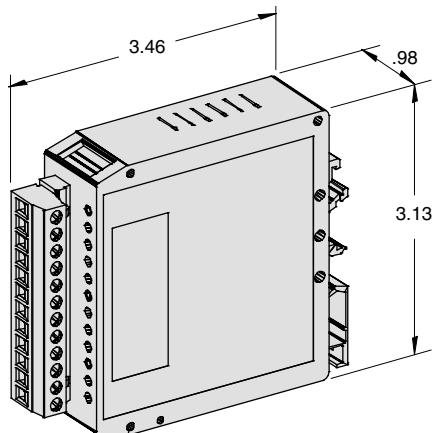
Evaluation Unit

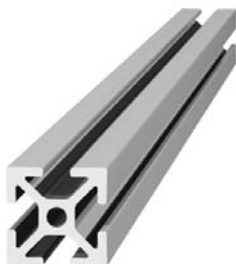
CMS-E-AR

1-2 Read Heads (CMS-B1):
Normally Open (NO) contacts
wired in parallel

3-30 Read Heads (1 CMS-B1; 2+ CMS-B2): NO contacts wired in series

Please visit FRAME-WORLD.com for more technical information and specifications.

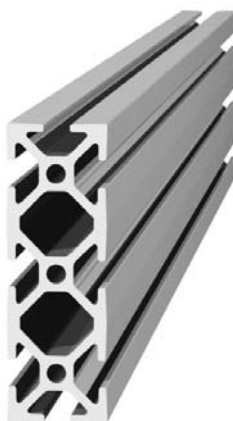




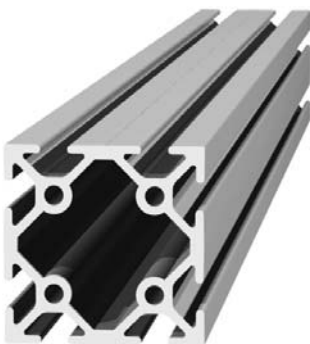
EX-11
1" x 1"



EX-12
1" x 2"



EX-13
1" x 3"



EX-22
2" x 2"



EX-24
2" x 4"

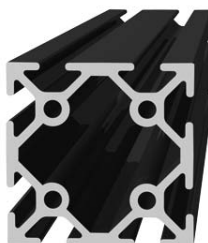
BLACK-Series



BLX-11
1" x 1"



BLX-12
1" x 2"



BLX-22
2" x 2"

SMOOTH-Series



EX-70
1" x 1"



EX-71
1" x 1"



EX-72
1" x 1"



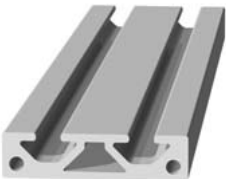
EX-73
1" x 1"



EX-14
1" x 1"



EX-23
1.21" x 1.21"



EX-28
.5" x 2"



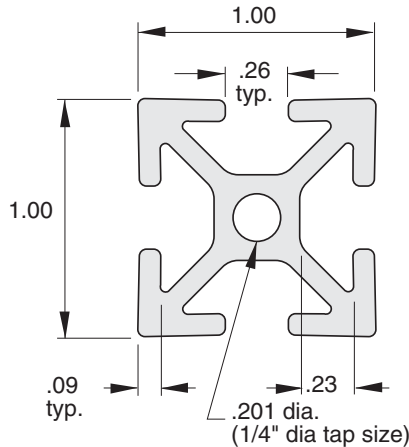
EX-21
1.19" x 1.38"

1/4" SLOTS

Clear Anodized
Black Anodized

EX-11

BLX-11



- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .530 lbs.
- 96", 144.25" (clear only), 192.63", 242" (clear only) Lengths standard.

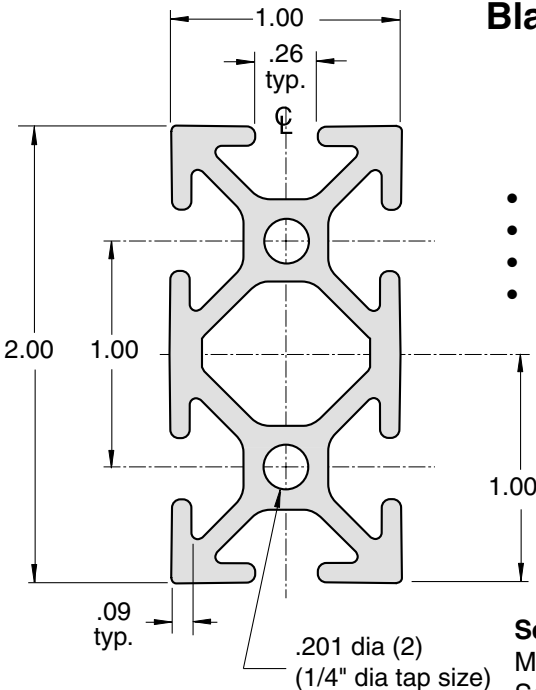
Section Properties:

Moment of Inertia in⁴ .049
Section modulus in³ .097

Clear Anodized
Black Anodized

EX-12

BLX-12



- Material = 6105-T5 Aluminum
- Est. Area = .807 Sq. In.
- Weight/ft = .949 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Inertia in⁴
Section modulus in³

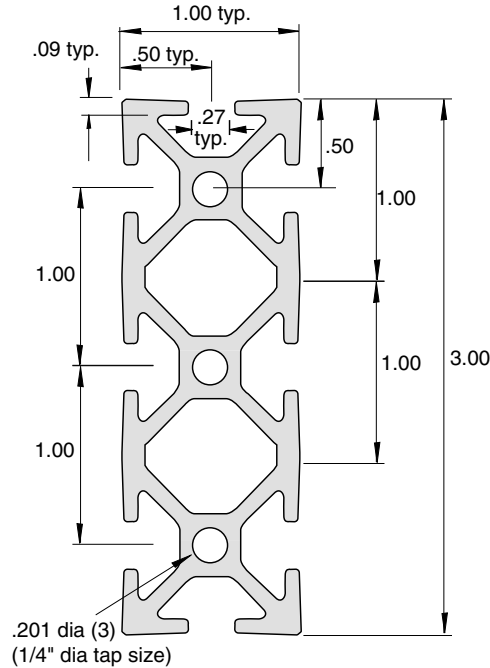


.316
.316

.088
.176

1/4" SLOTS

EX-13



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.162 Sq. In.
- Weight/ft = 1.367 lbs.
- 96", 192.63" Lengths standard.

Section Properties:
 Moment of Inertia in⁴
 Section modulus in³

1.376	0.387
0.917	0.516

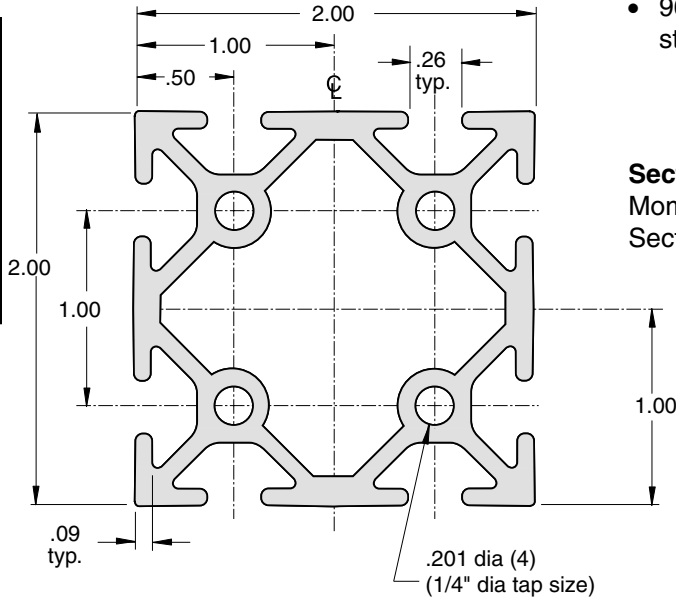
EX-22 BLX-22

Clear Anodized
Black Anodized

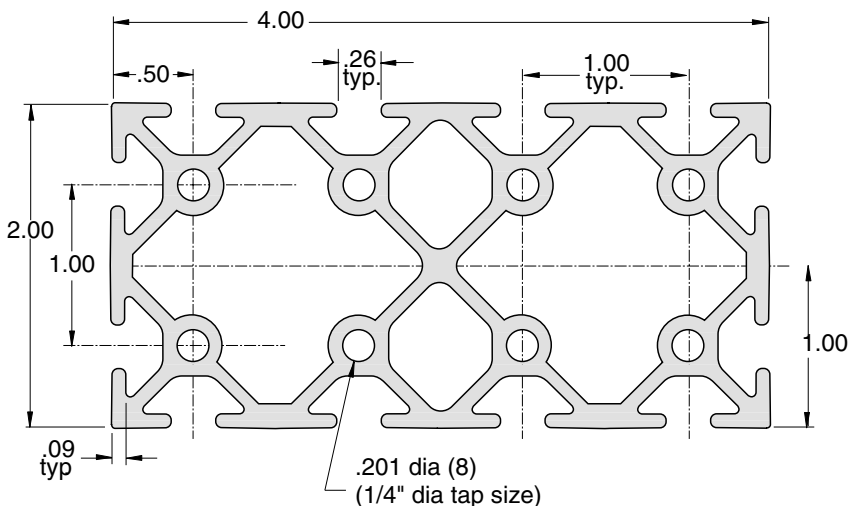
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = 1.468 lbs.
- 96", 192.63" Lengths standard.

Section Properties:
 Moment of Inertia in⁴
 Section modulus in³

.49
.097



1/4" SLOTS



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 2.352 Sq. In.
- Weight/ft = 2.766 lbs.
- 96", 192.63" Lengths standard.

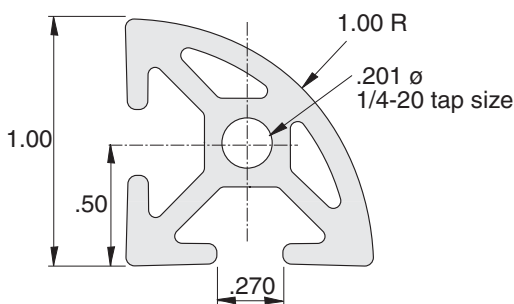
Section Properties:

Moment of Inertia in ⁴	3.634	1.078
Section modulus in ³	1.817	1.078



SMOOTH-Series

EX-14



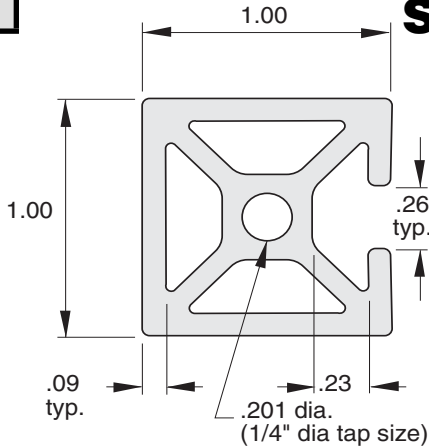
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .438 Sq. In.
- Weight/ft = .515 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Inertia in ⁴	.0368
Section modulus in ³	.0675

EX-70

SMOOTH-Series



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .576 lbs.
- 96", 192.63" Lengths standard.

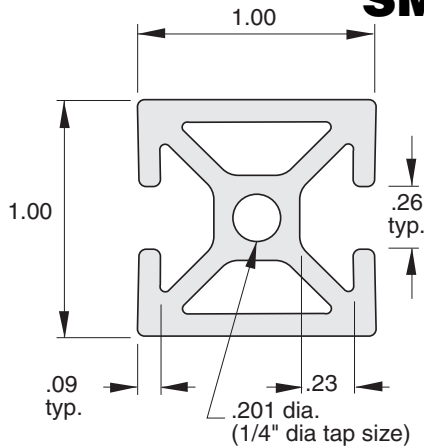


Section Properties:

Moment of Inertia in ⁴	.057	.052
Section modulus in ³	.114	.099

EX-71

SMOOTH-Series

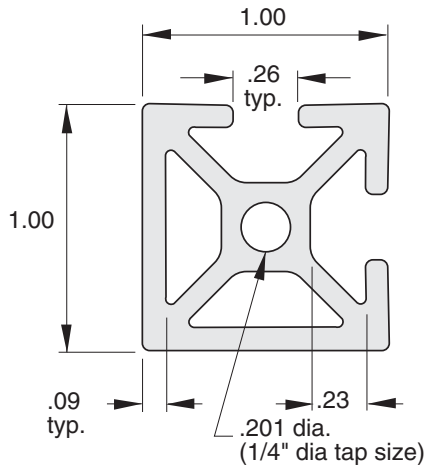


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .550 lbs.
- 96", 192.63" Lengths standard.



Section Properties:

Moment of Inertia in ⁴	.057	.046
Section modulus in ³	.114	.093



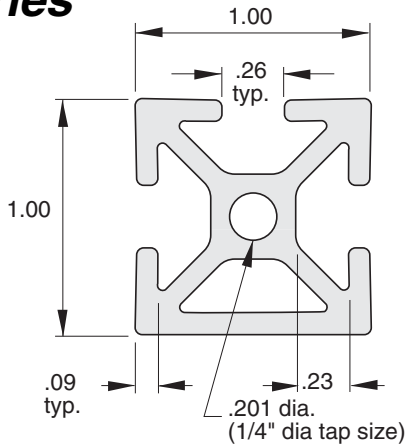
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .546 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Inertia in ⁴	.051
Section modulus in ³	.098

SMOOTH-Series

EX-73



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .523 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Inertia in ⁴	.051	.046
Section modulus in ³	.099	.092

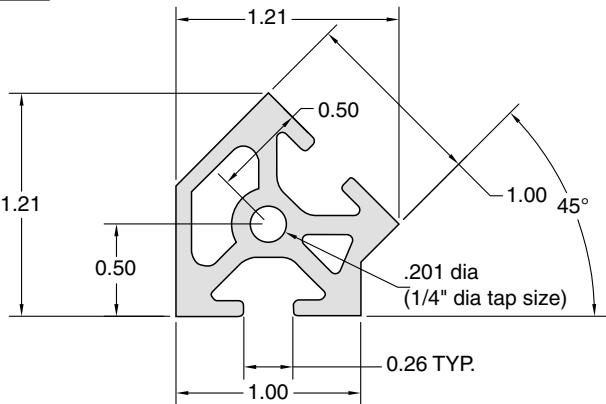


1/4" Wide Slot Profiles



EX-23

SMOOTH-Series



- Finish = Clear anodized
 - Material = 6105-T5 Aluminum
 - Est. Area = .52 Sq. In.
- Weight/ft = .61 lbs.
 - 96", 192.63" Lengths standard.

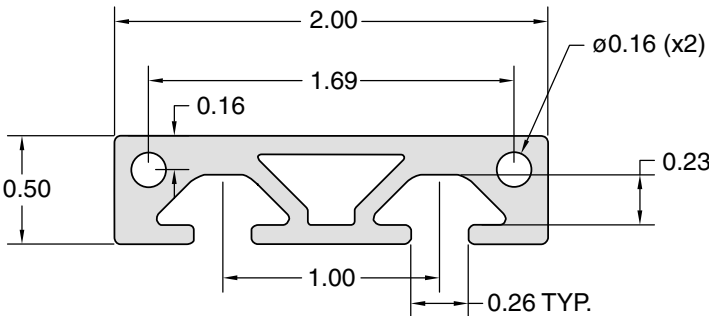


Section Properties:

Moment of Inertia in ⁴	.06	.05
Section modulus in ³	.09	.06

EX-28

SMOOTH-Series



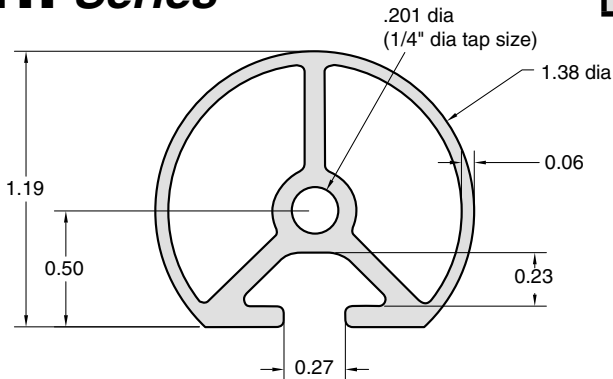
- Finish = Clear anodized
 - Material = 6105-T5 Aluminum
 - Est. Area = .58 Sq. In.
- Weight/ft = .67 lbs.
 - 96", 192.63" Lengths standard.



Section Properties:

Moment of Inertia in ⁴	.23	.02
Section modulus in ³	.23	.06

1/4" SLOTS



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .456 Sq. In.
- Weight/ft = .544 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Inertia in⁴

Section modulus in³



.058

.084

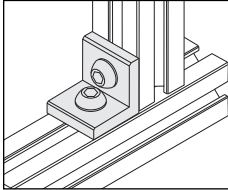


.056

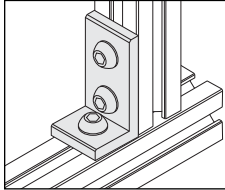
.082

Section F.1

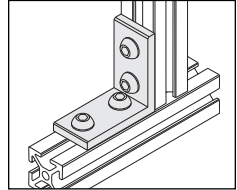
Corner Angle Brackets



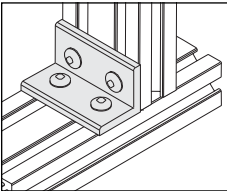
page 354



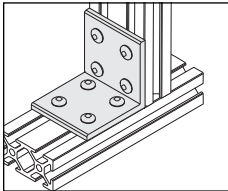
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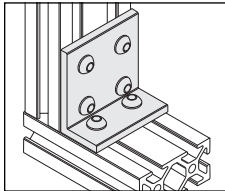
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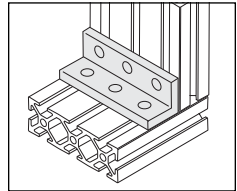
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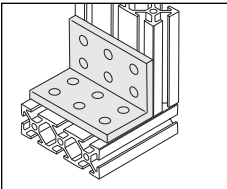
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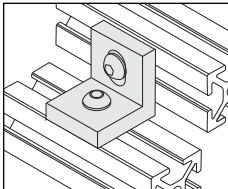
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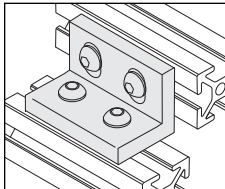
page 360



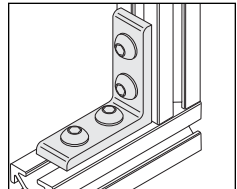
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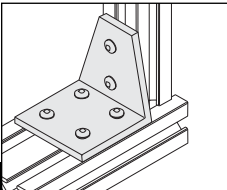
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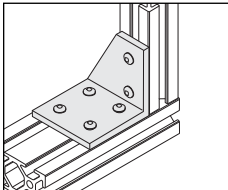
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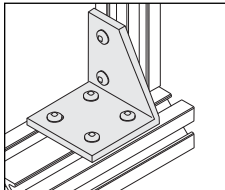
page 364



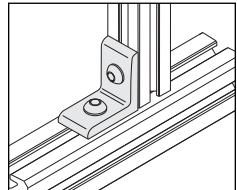
page 365



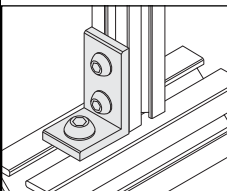
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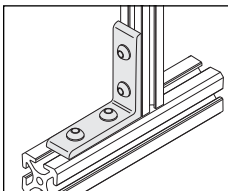
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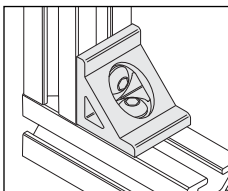
page 369



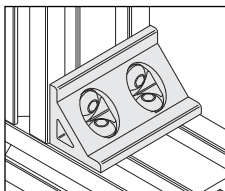
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Section F.2

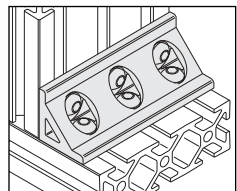
Gusseted Corner Angle Brackets



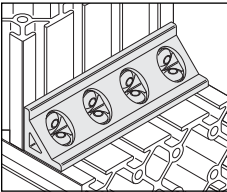
page 371



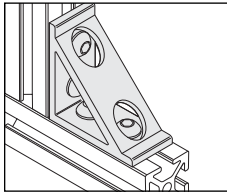
page 372



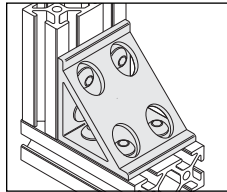
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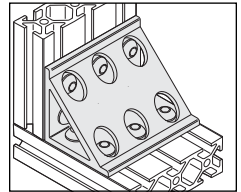
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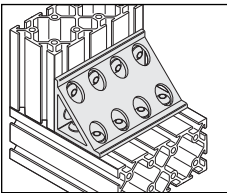
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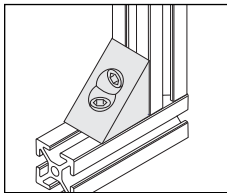
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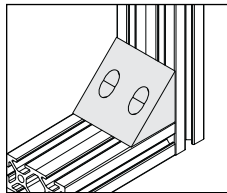
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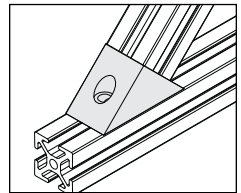
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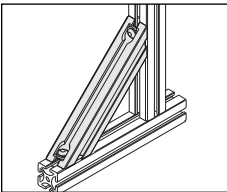
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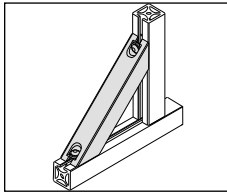
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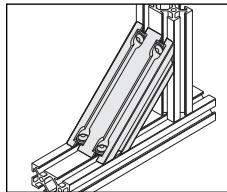
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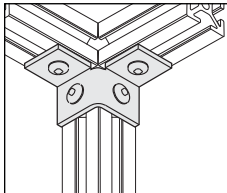
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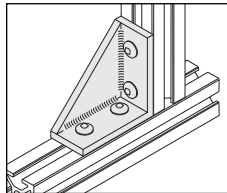
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Section F.3

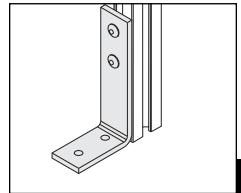
Steel Corner Angle Brackets



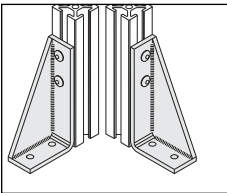
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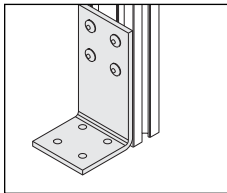
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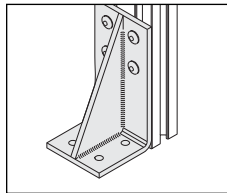
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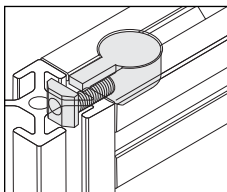
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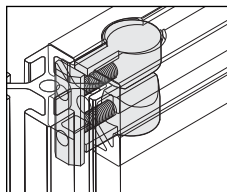
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Section F.4

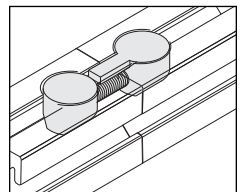
Internal & Adjustable Corner Brackets



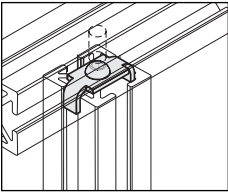
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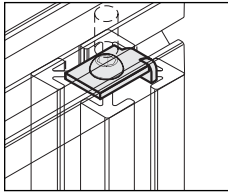
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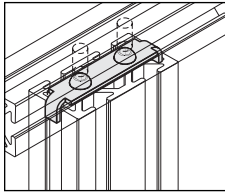
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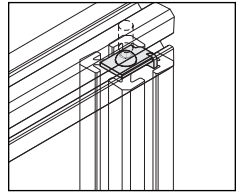
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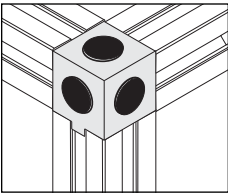
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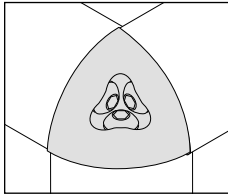
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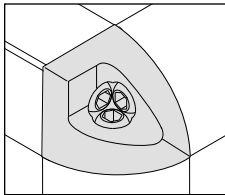
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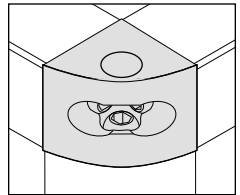
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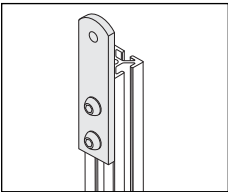
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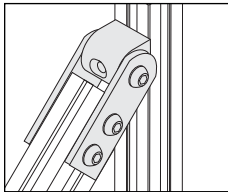
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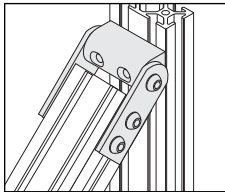
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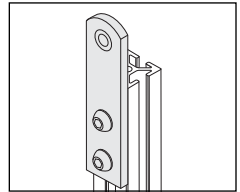
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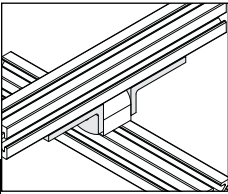
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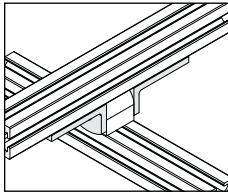
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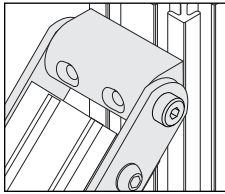
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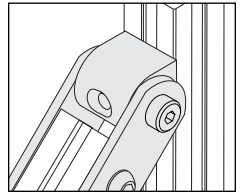
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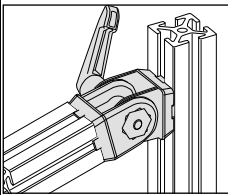
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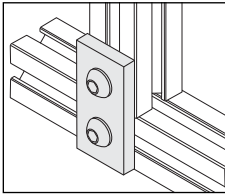
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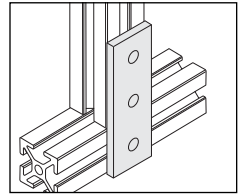
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Section F.5

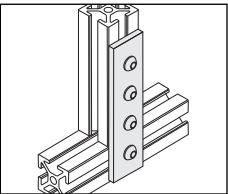
Joining Plates



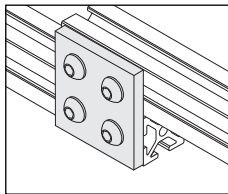
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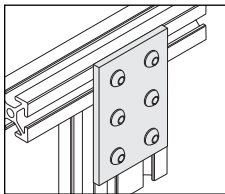
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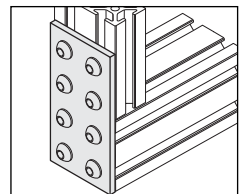
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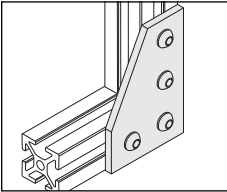
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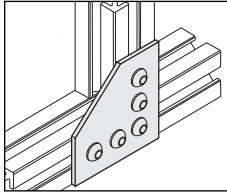
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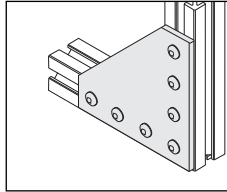
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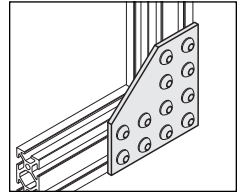
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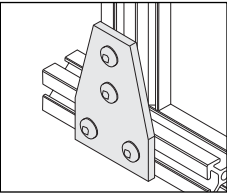
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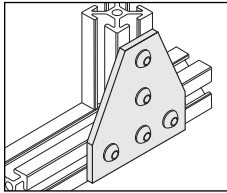
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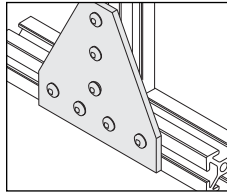
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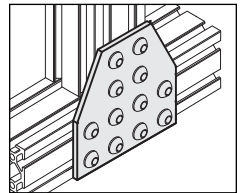
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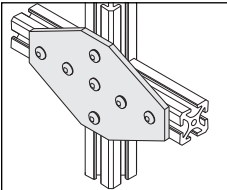
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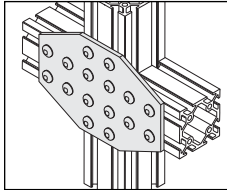
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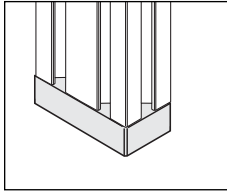
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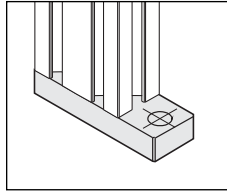
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Section F.6

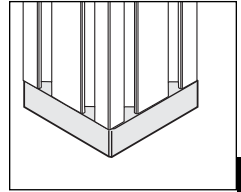
Floor Mounts, Casters and Adjustable Feet



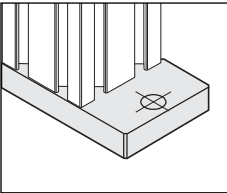
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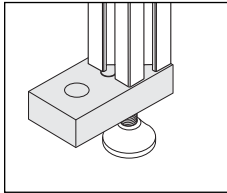
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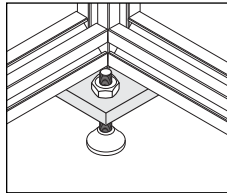
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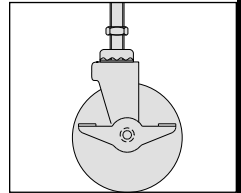
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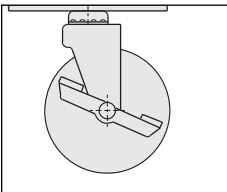
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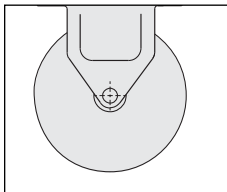
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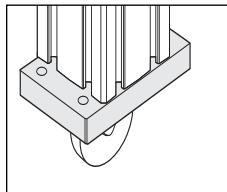
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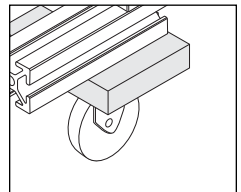
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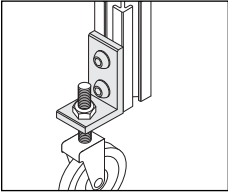


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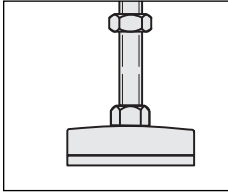


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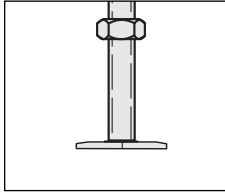
1/4" SLOTS



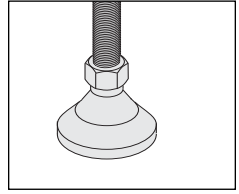
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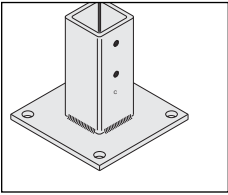
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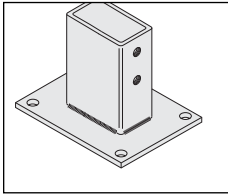
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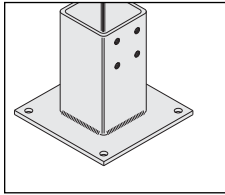
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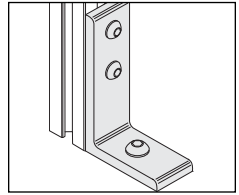
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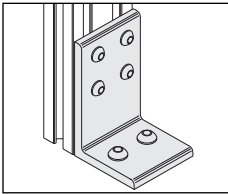
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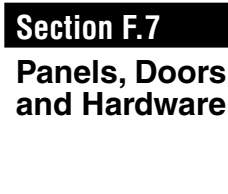
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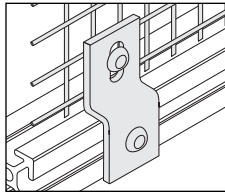
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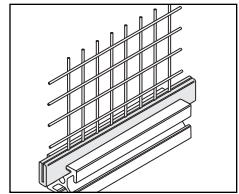
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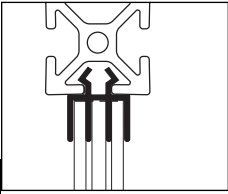


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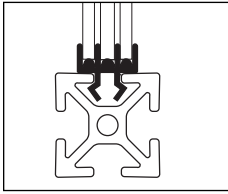


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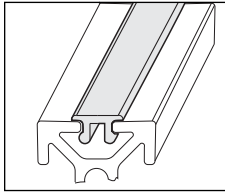
Section F.7 Panels, Doors and Hardware



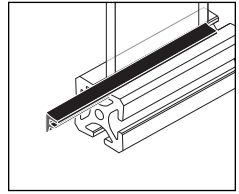
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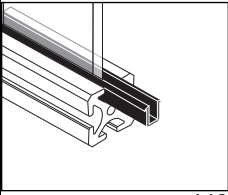
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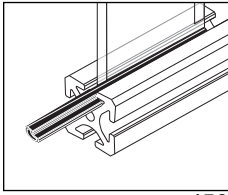
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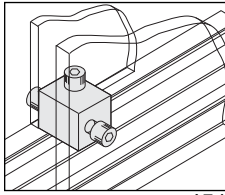
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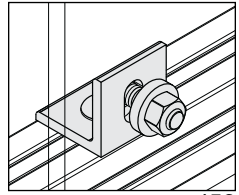
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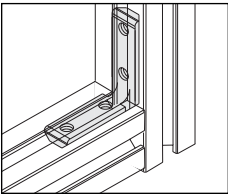
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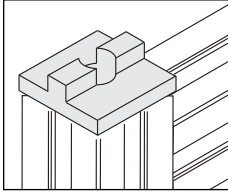
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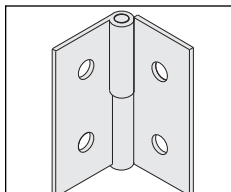
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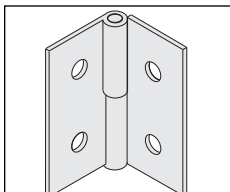
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Section F.8

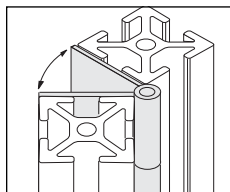
Hinges, Handles and Latches



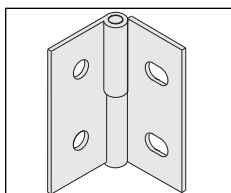
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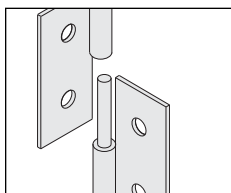
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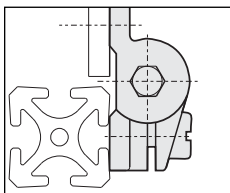
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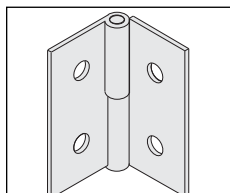
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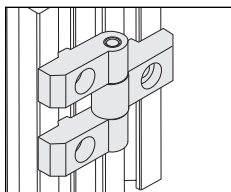
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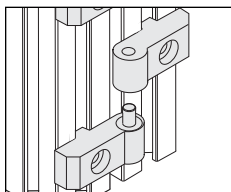
page 460



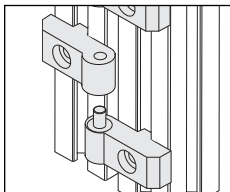
page 461



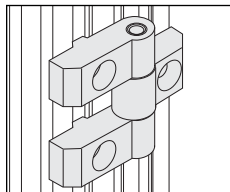
page 462



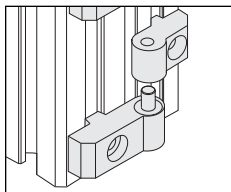
page 463



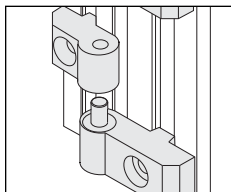
page 464



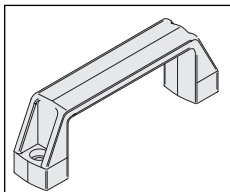
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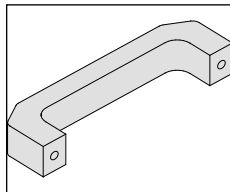
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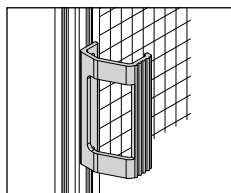
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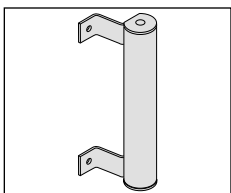
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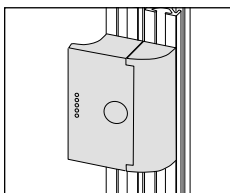
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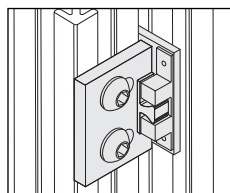
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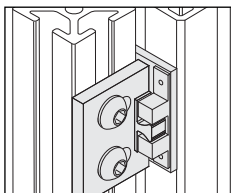
page 469



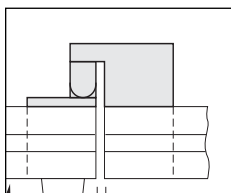
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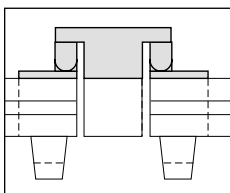
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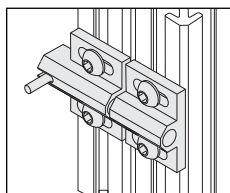
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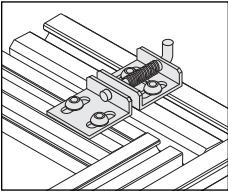
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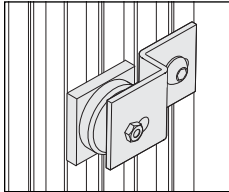
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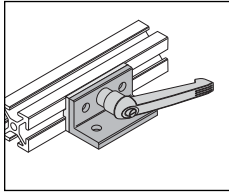


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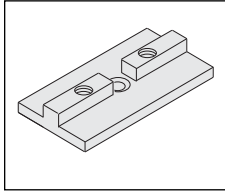


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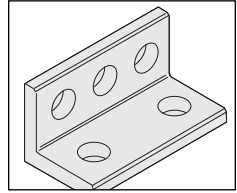
Section F.9 Sliding Components and Bearings



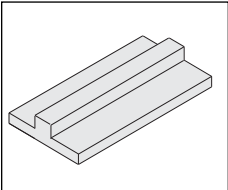
page 477



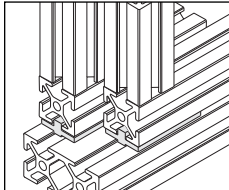
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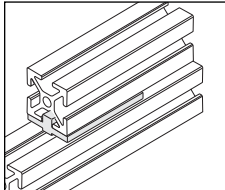
page 479



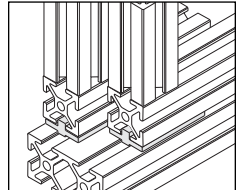
page 480



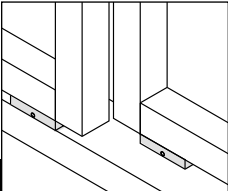
page 481



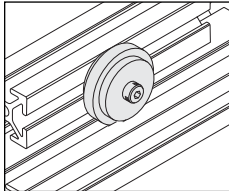
page 482



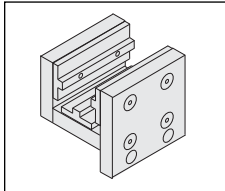
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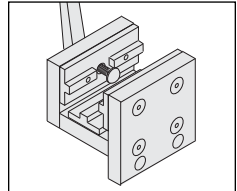
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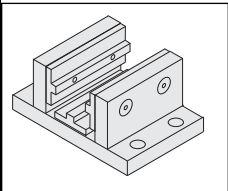
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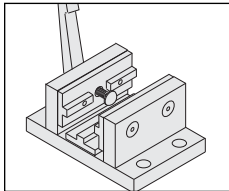
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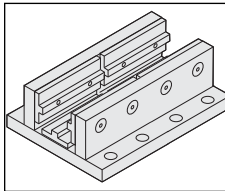
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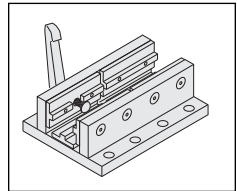
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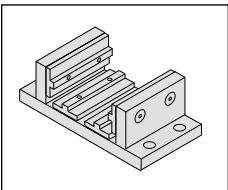
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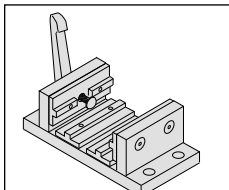
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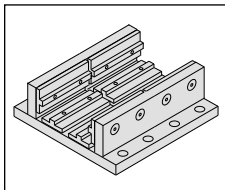
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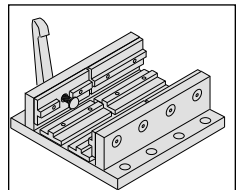
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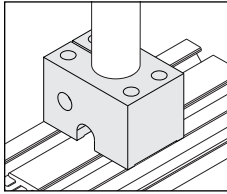


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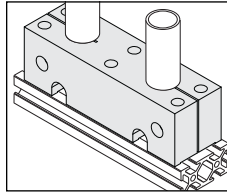
1/4" SLOTS

Section E.10

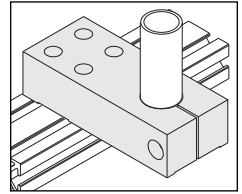
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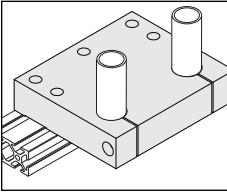
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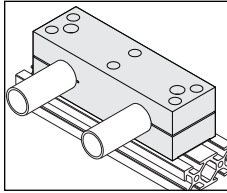
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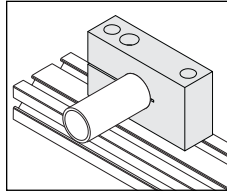
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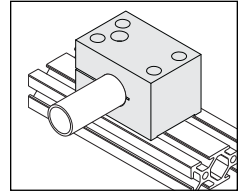
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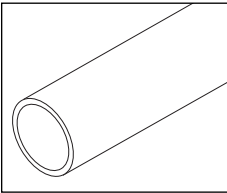
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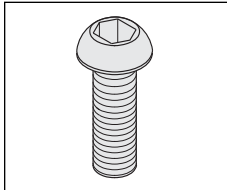
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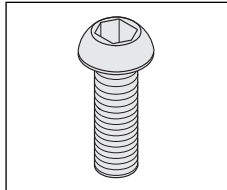
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Section E.10

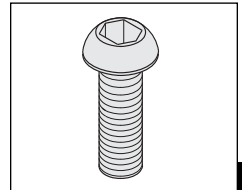
Screws, Nuts & Fasteners



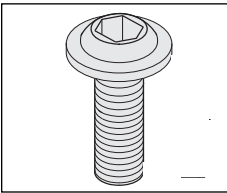
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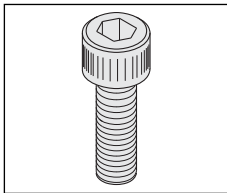
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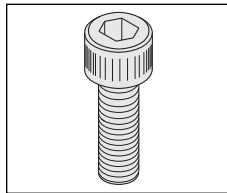
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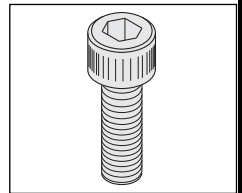
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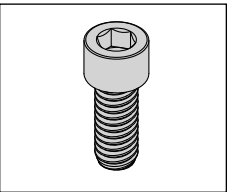
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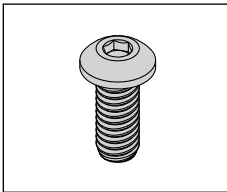
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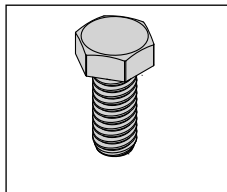
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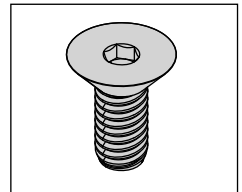
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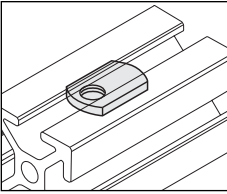


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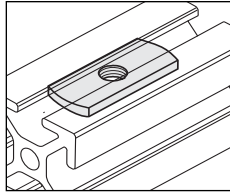


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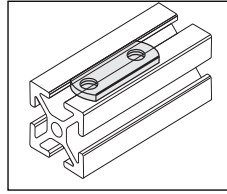
1/4" SLOTS



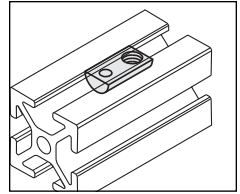
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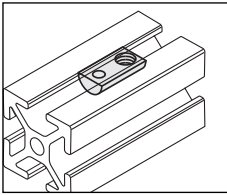
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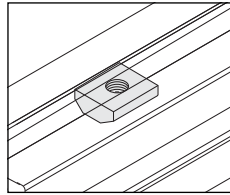
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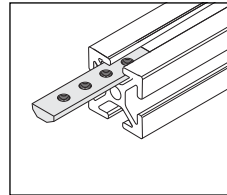
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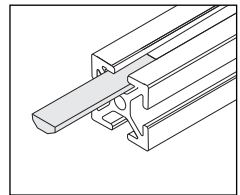
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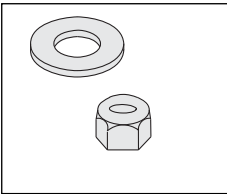
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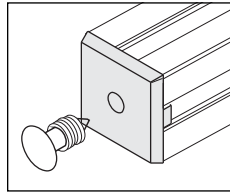


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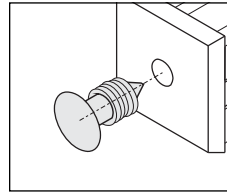


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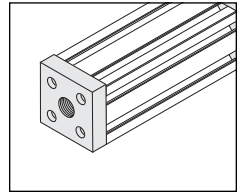
Section E.11 Miscellaneous Components



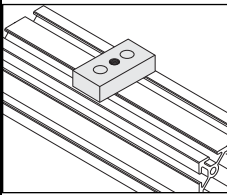
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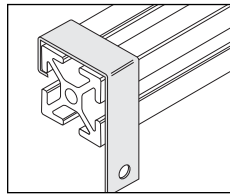
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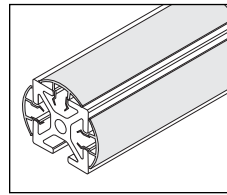
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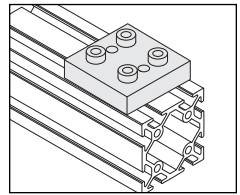
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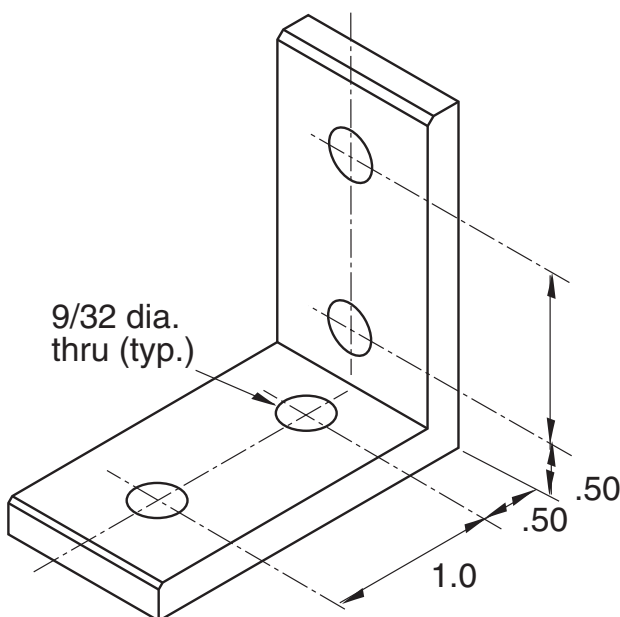


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1/4" SLOTS



Mounting brackets and plates are made from clear anodized aluminum unless specified.

Mounting and connecting brackets have 9/32" diameter clearance holes which are on .50" or 1.00" centers.

Any deviations are specified.

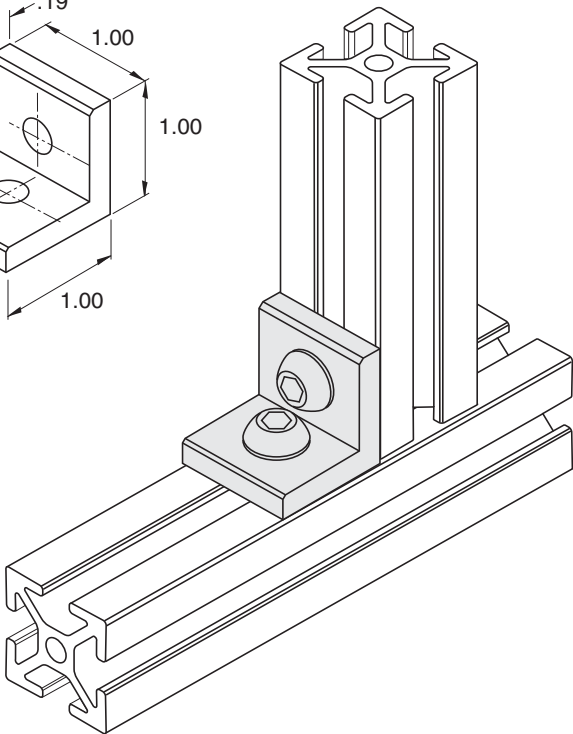
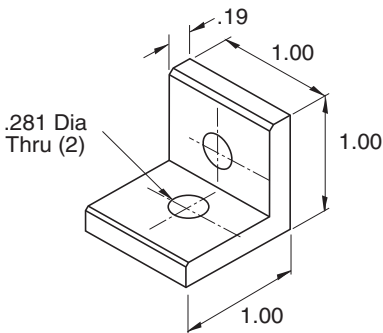
Recommended torque for fasteners is 12-17 ft lbs.

Corner Angle



11-1
11-BLK-1

Clear Anodized
Flat Black Powder Coat



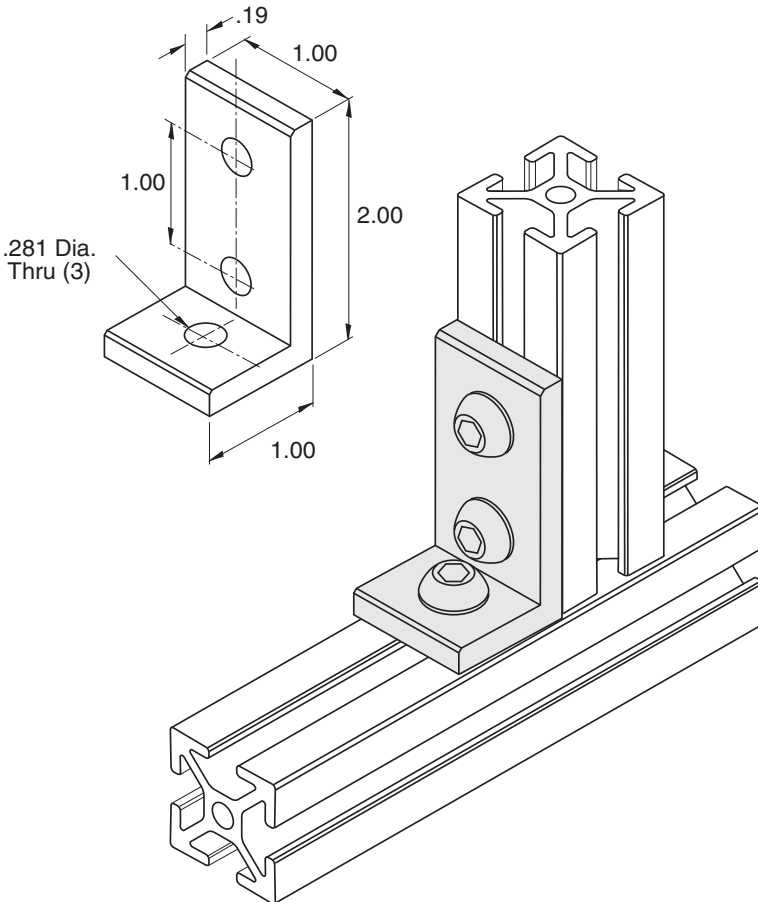
Recommended Hardware
(2) 11-231 BHCS
(2) 11-210 T-nut

Material - Aluminum

1/4" SLOTS

Clear Anodized
Flat Black Powder Coat

11-2
11-BLK-2



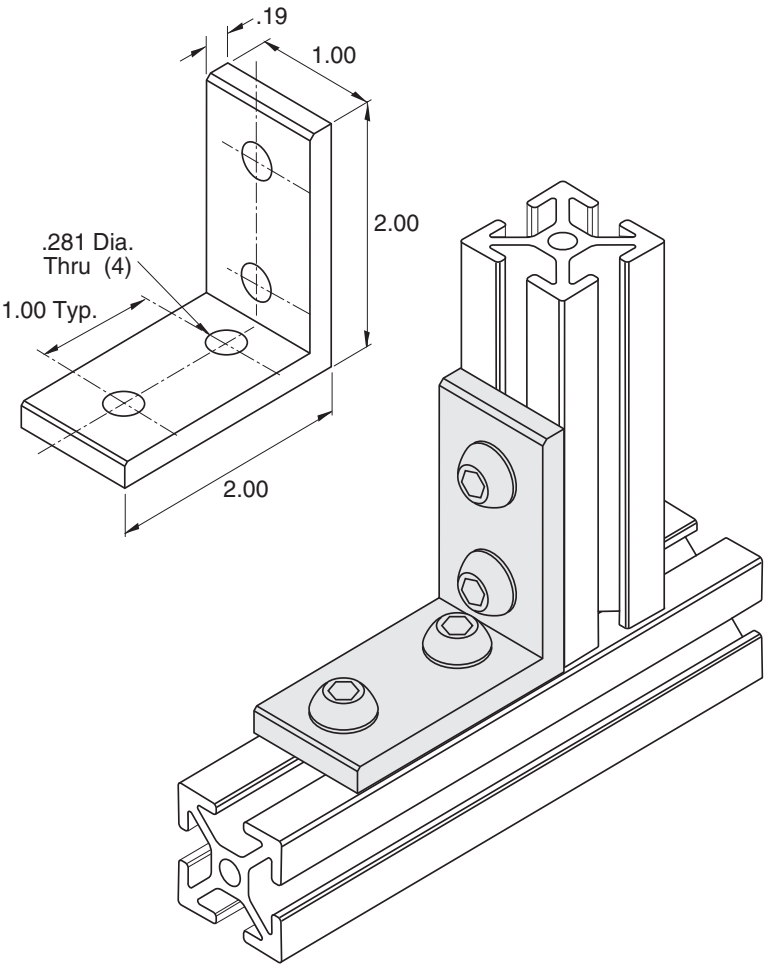
Recommended Hardware
(3) 11-231 BHCS
(3) 11-210 T-nut

Material - Aluminum

1/4" SLOTS

11-3
11-BLK-3

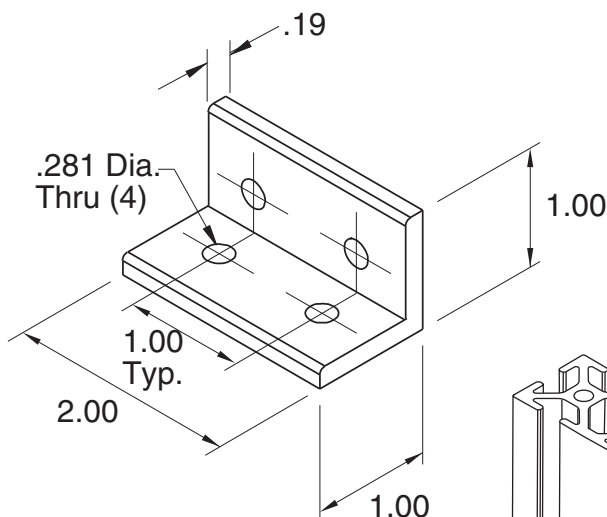
Clear Anodized
Flat Black Powder Coat



Recommended Hardware
(4) 11-231 BHCS
(4) 11-210 T-nut

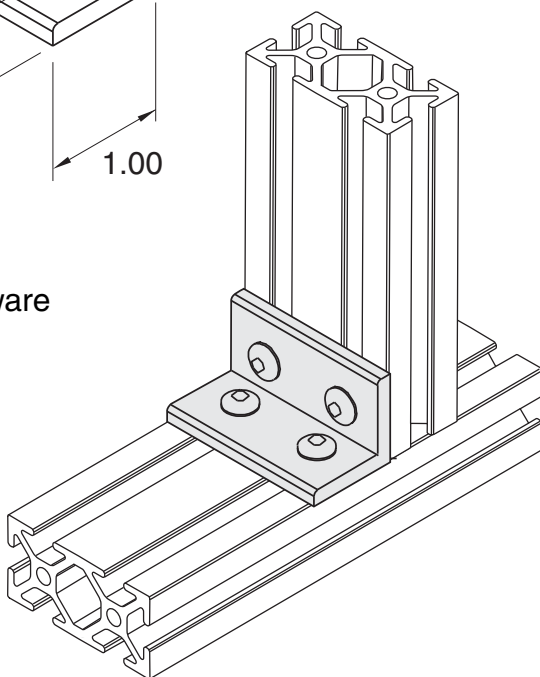
Material - Aluminum

1/4" SLOTS


Recommended Hardware

(4) 11-231 BHCS

(4) 11-210 T-nut



1/4" SLOTS

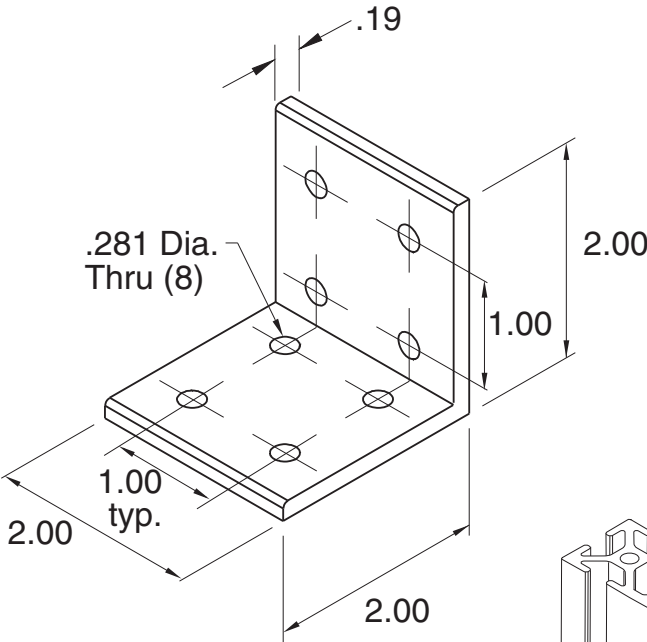
Material - Aluminum
Finish - Clear Anodize

Corner Angle

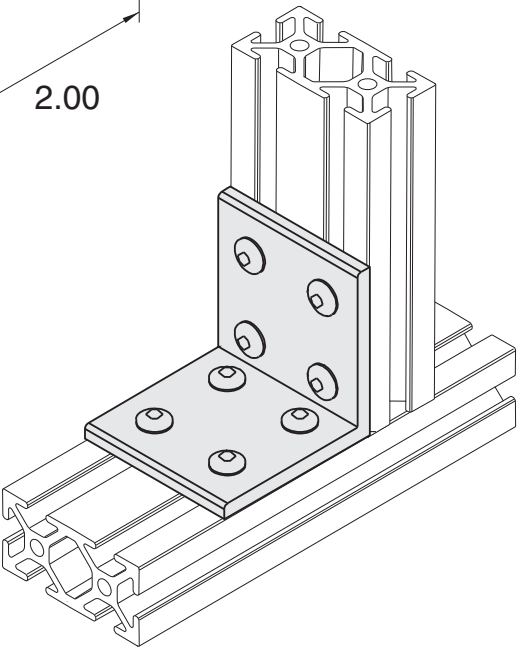


11-6
11-BLK-6

Clear Anodized
Flat Black Powder Coat

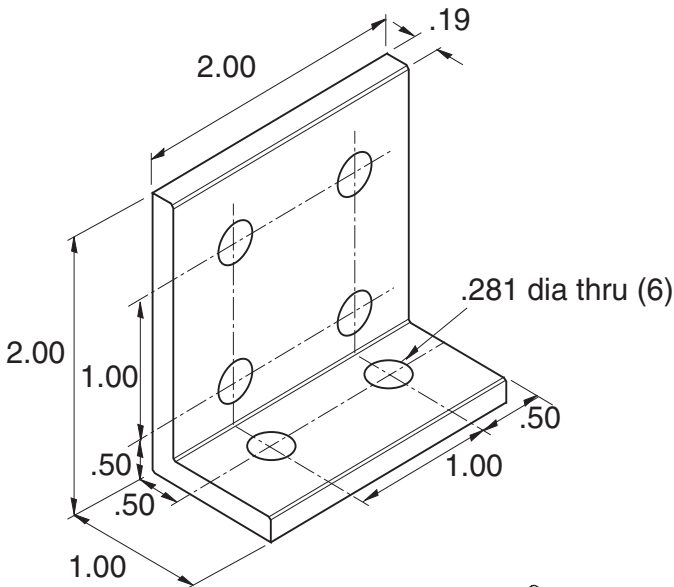


Recommended Hardware
(8) 11-231 BHCS
(8) 11-210 T-nut

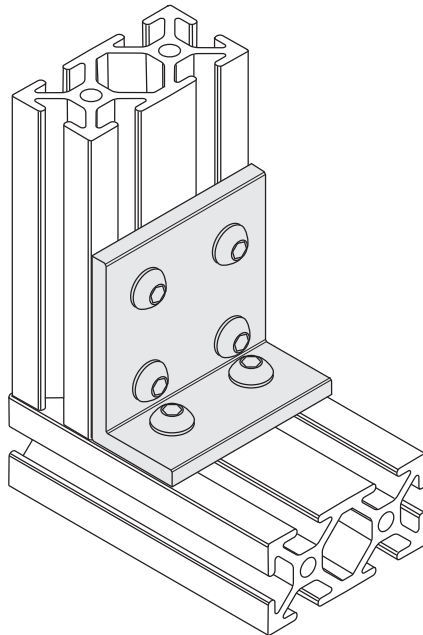


1/4" SLOTS

Material - Aluminum



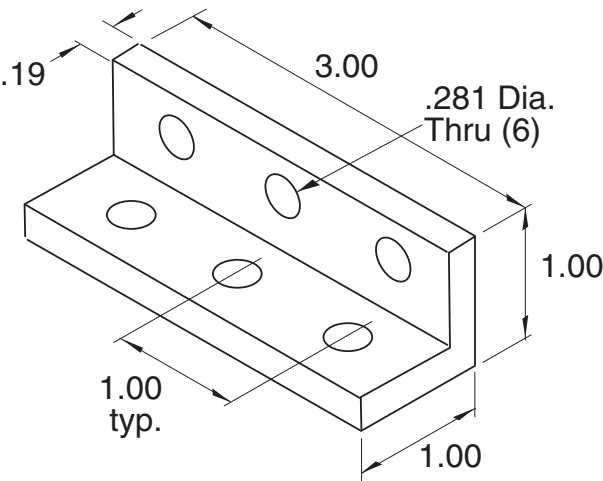
Recommended Hardware
 (6) 11-231 BHCS
 (6) 11-210 T-nut



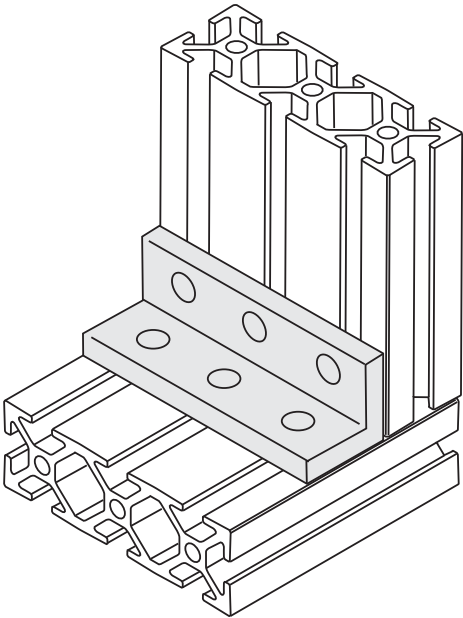
1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

11-13

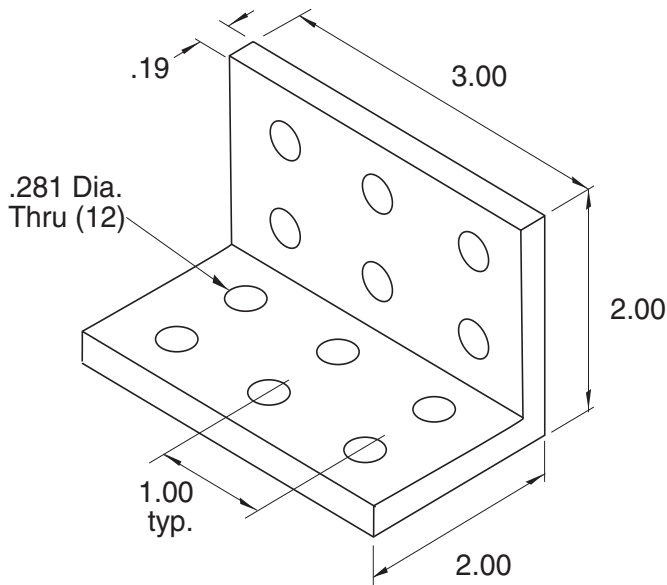


Recommended
Hardware
(6) 11-231 BHCS
(6) 11-210 T-nut

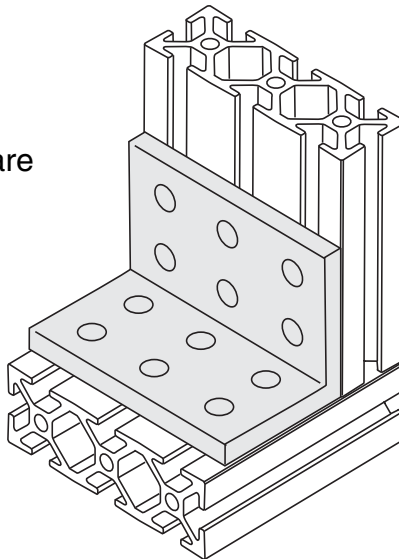


1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize



Recommended Hardware
 (12) 11-231 BHCS
 (12) 11-210 T-nut



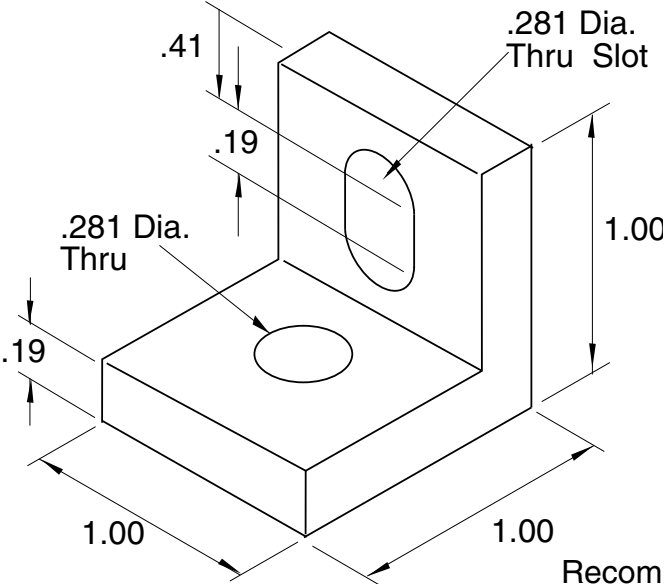
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

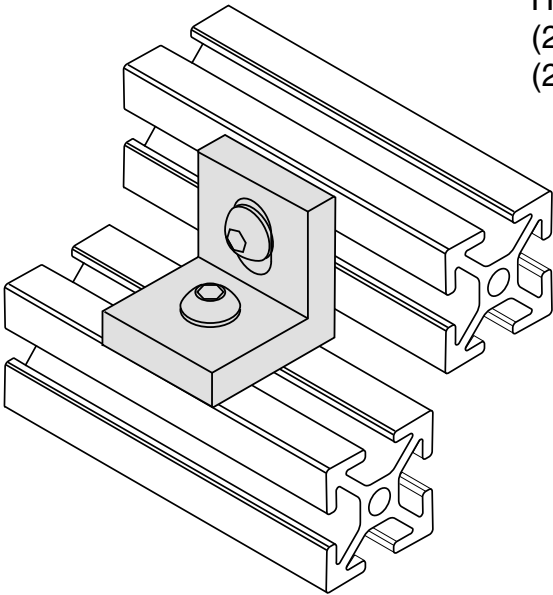
Slotted Corner Angle



11-15

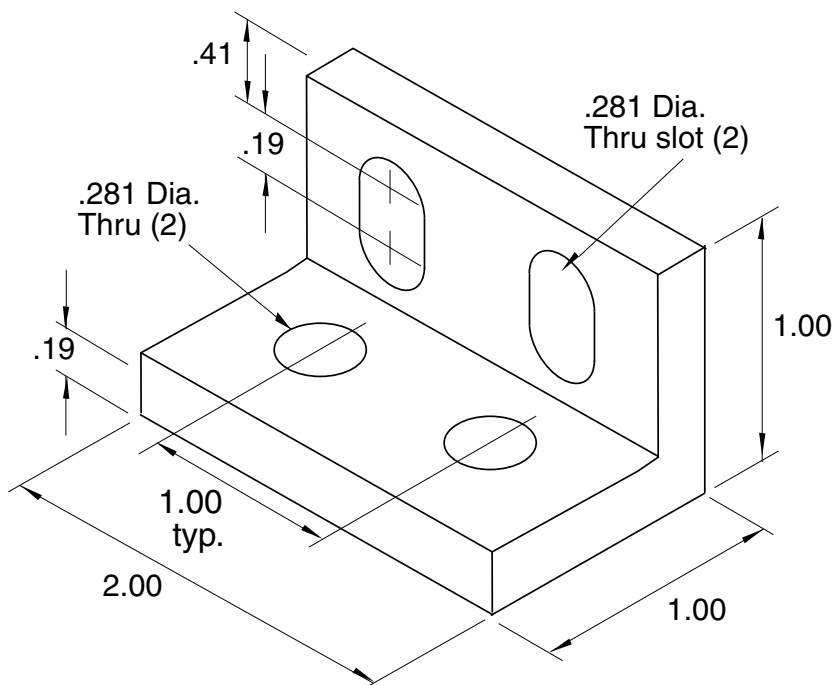


Recommended
Hardware
(2) 11-231 BHCS
(2) 11-210 T-nut



1/4" SLOTS

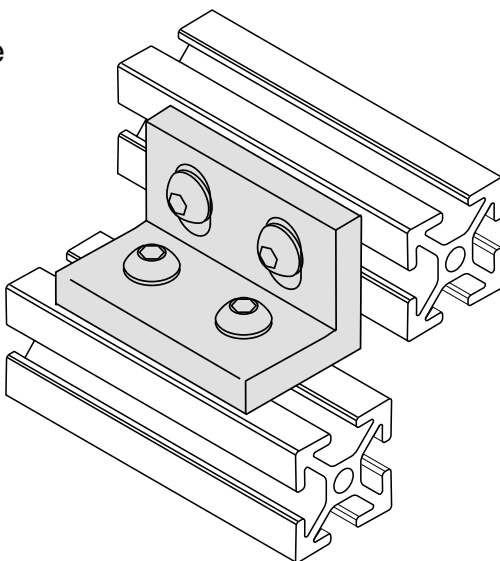
Material - Aluminum
Finish - Clear Anodize



Recommended Hardware

(4) 11-231 BHCS

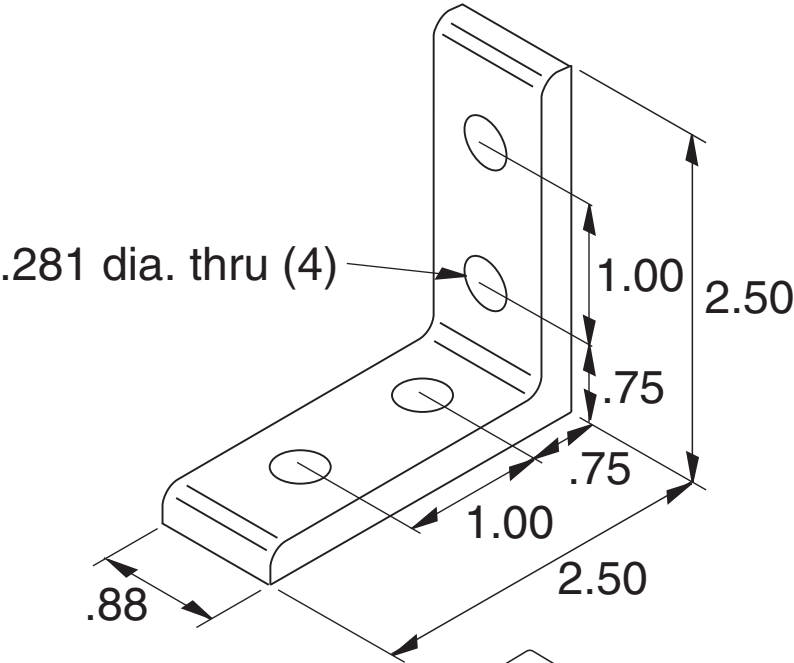
(4) 11-210 T-nut



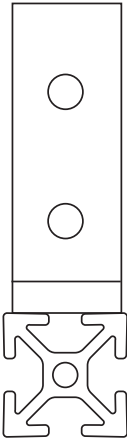
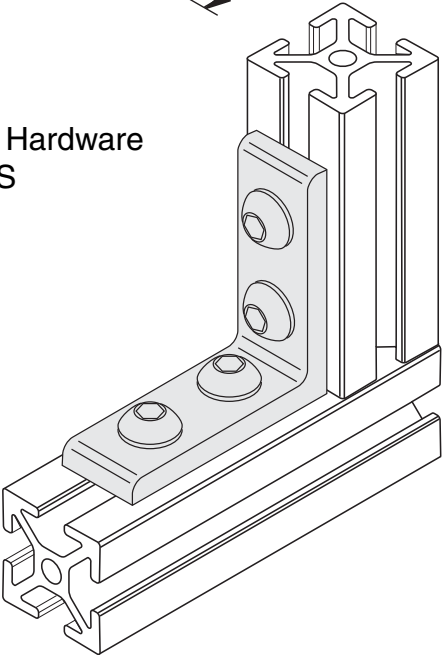
1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

11-81

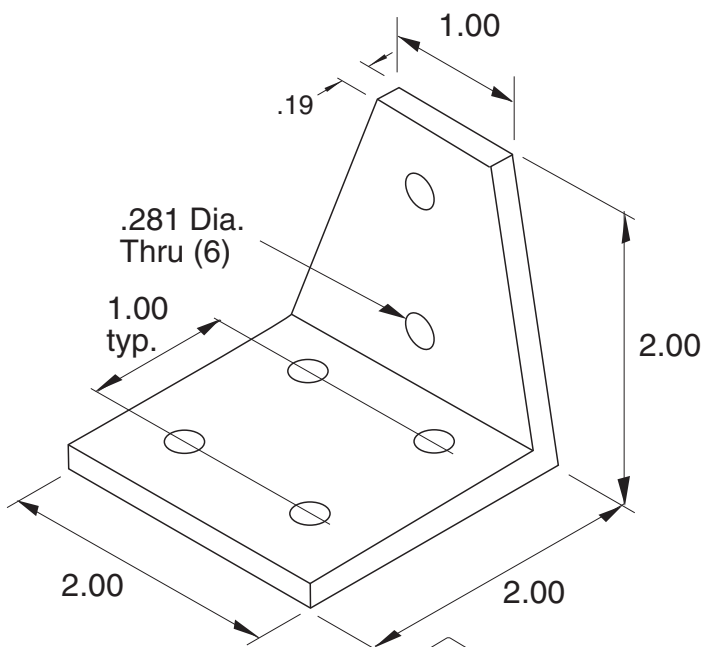


Recommended Hardware
(4) 11-231 BHCS
(4) 11-210 T-nut



Material - Aluminum
Finish - Clear Anodize

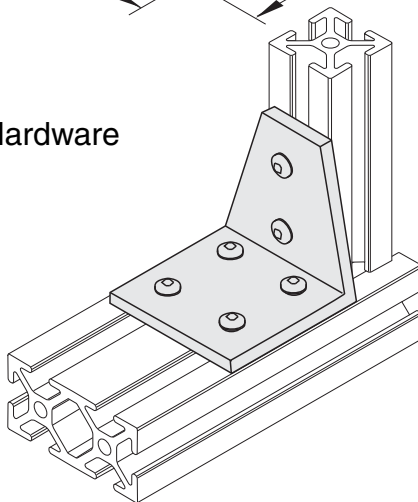
1/4" SLOTS



Recommended Hardware

(6) 11-231 BHCS

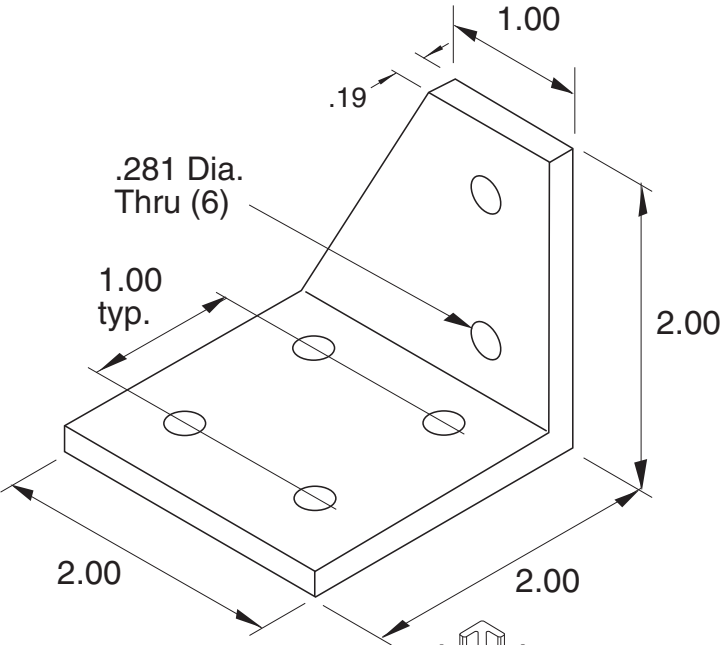
(6) 11-210 T-nut



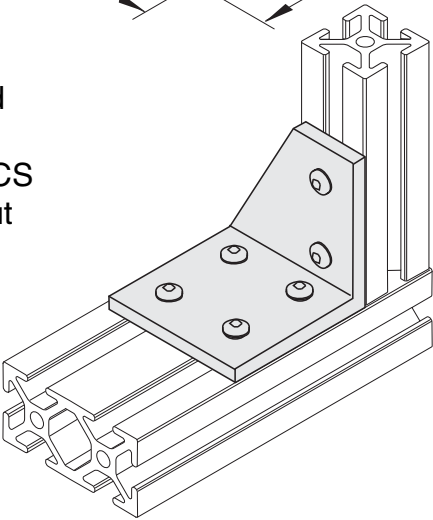
1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

11-19

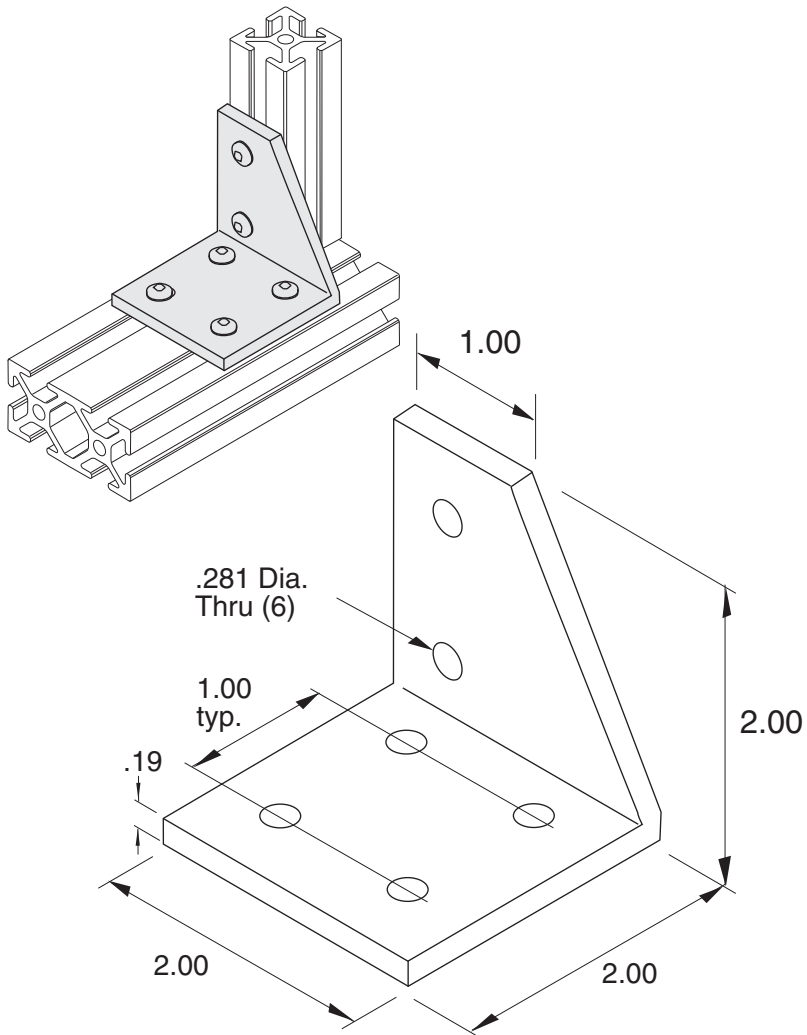


Recommended
Hardware
(6) 11-231 BHCS
(6) 11-210 T-nut



Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



Recommended
Hardware
(6) 11-231 BHCS
(6) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

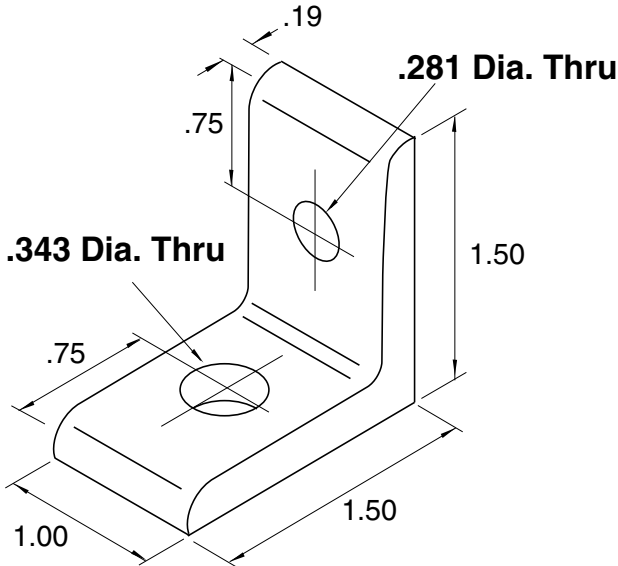
1/4" SLOTS

Transition Corner Angle



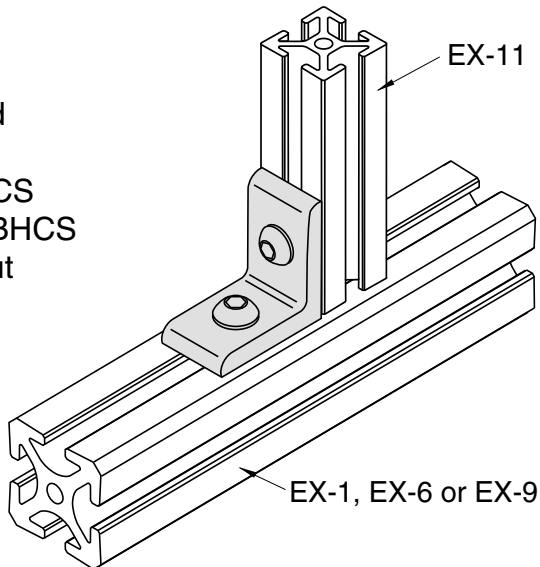
11-53

.33 wide slot to .27 wide slot



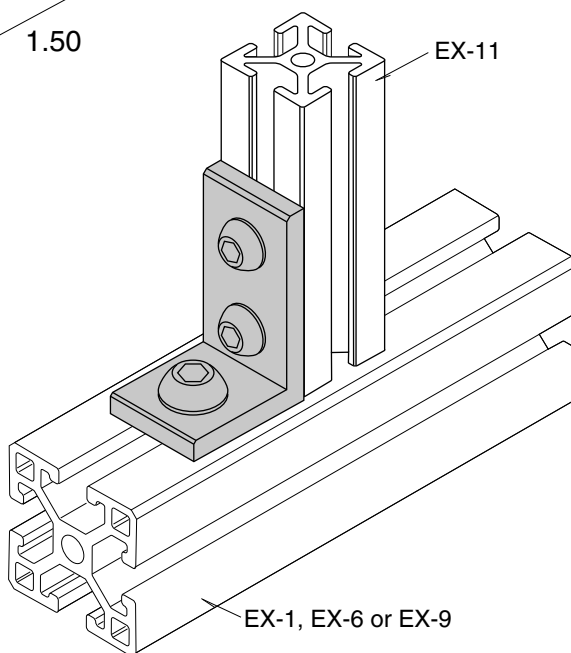
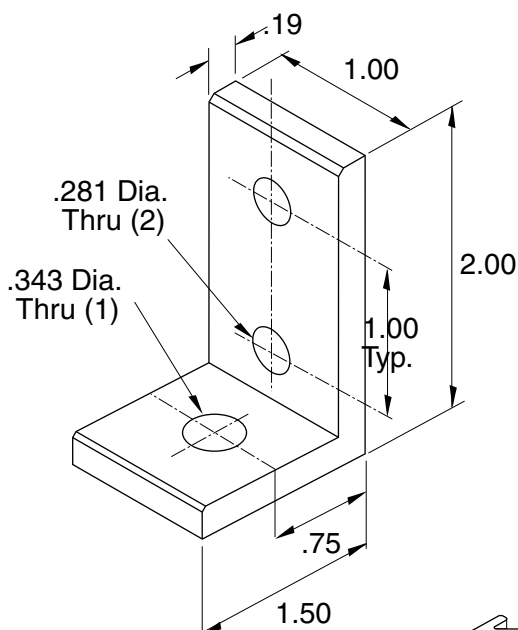
Recommended Hardware

- (1) 11-231 BHCS
- (1) EF-12-.63 BHCS
- (1) 11-210 T-nut
- (1) EF-2 T-nut



Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



Recommended Hardware

- (2) 11-231 BHCS
- (2) 11-210 T-nut
- (1) EF-12-.63 BHCS
- (1) EF-2 T-nut

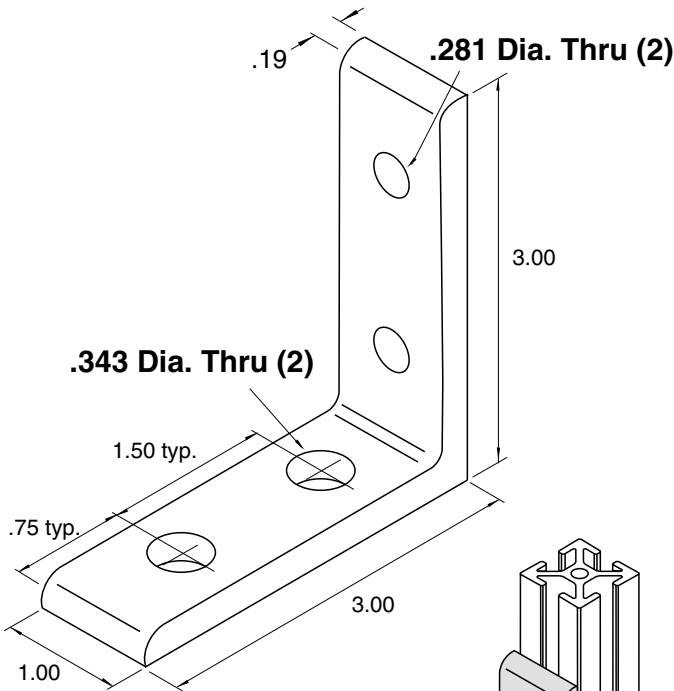
Material - Aluminum
Finish - Clear Anodize

Transition Corner Angle



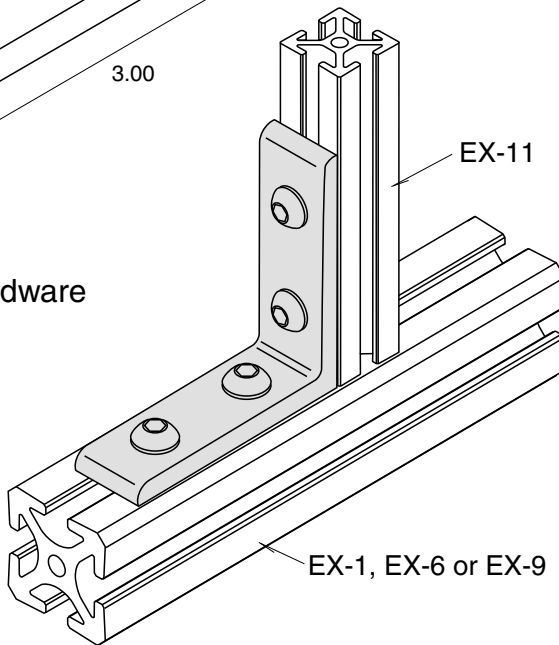
11-54

.33 wide slot to .27 wide slot



Recommended Hardware

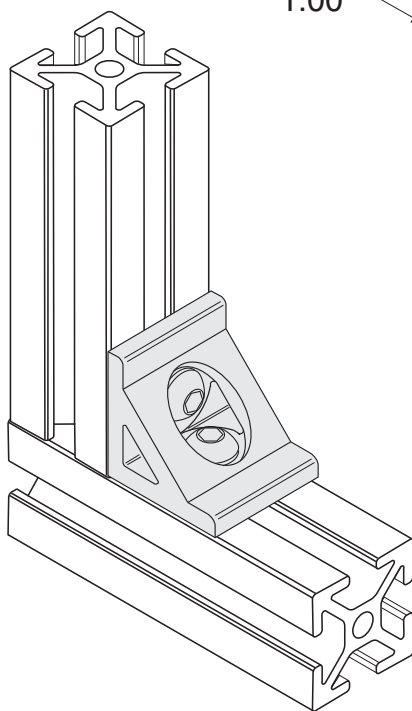
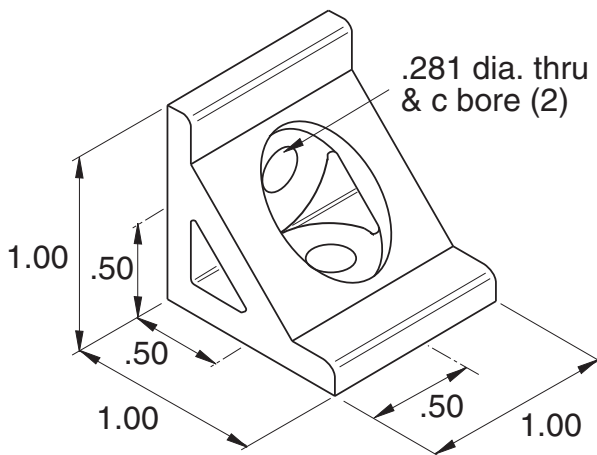
- (2) 11-231 BHCS
- (2) 11-210 T-nut
- (2) EF-12.63 BHCS
- (2) EF-2 T-nut



Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Clear Anodized	11-160
Flat Black Powder Coat	11-BLK-160



Recommended
Hardware
(2) 11-231 BHCS
(2) 11-210 T-nut

Material - Aluminum

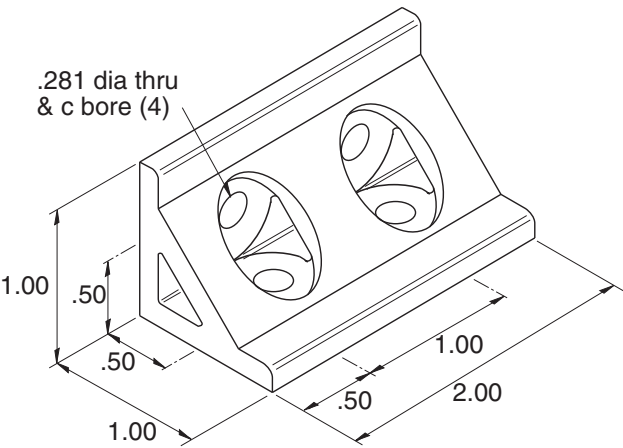
1/4" SLOTS

Corner Gusset

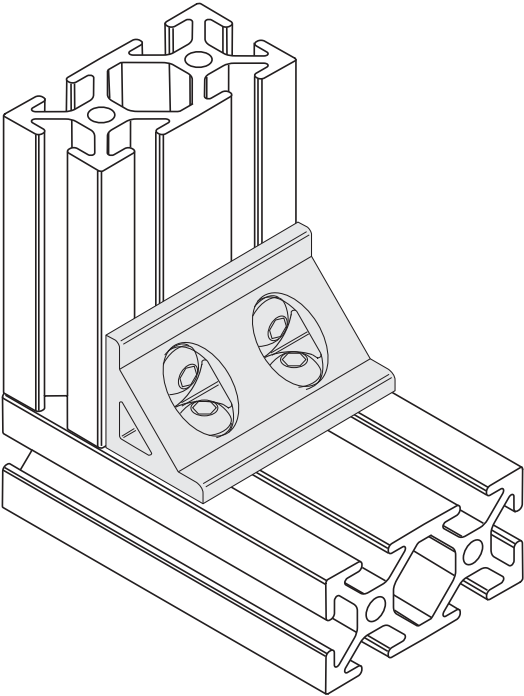


11-161
11-BLK-161

Clear Anodized
Flat Black Powder Coat

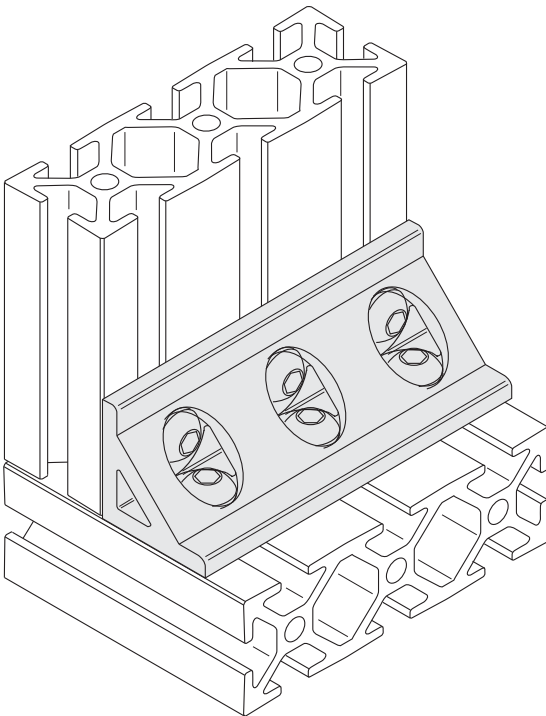
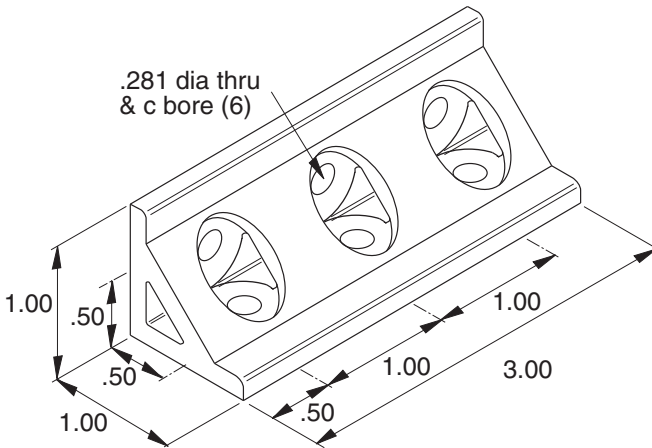


**Recommended
Hardware**
(4) 11-231 BHCS
(4) 11-210 T-nut



1/4" SLOTS

Material - Aluminum

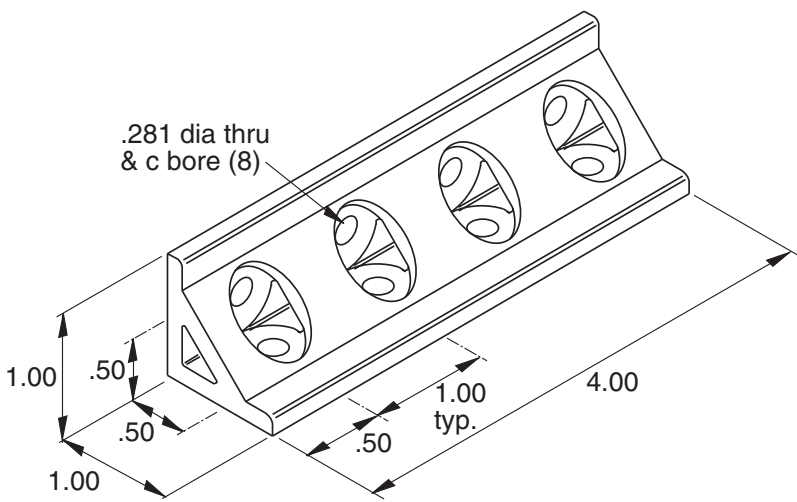


**Recommended
Hardware**
(6) 11-231 BHCS
(6) 11-210 T-nut

**Material - Aluminum
Finish - Clear Anodize**

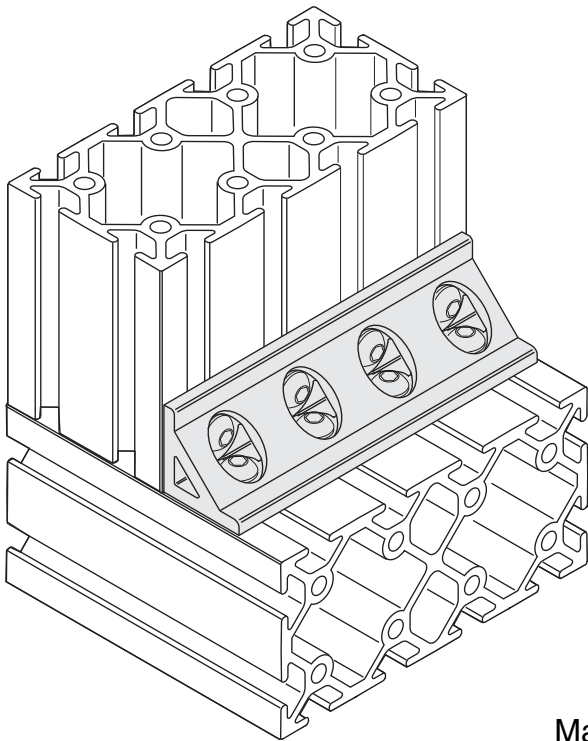
1/4" SLOTS

11-163



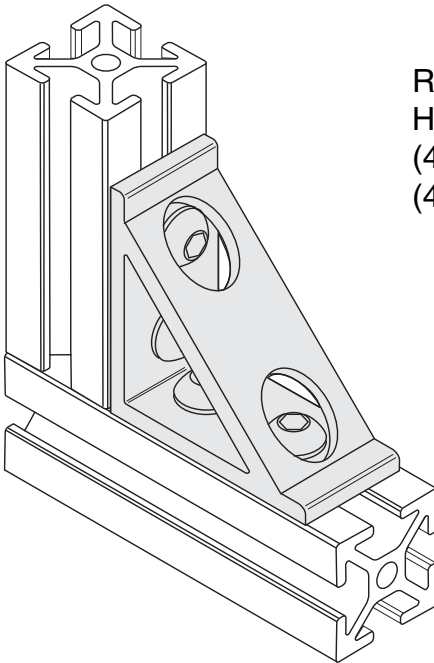
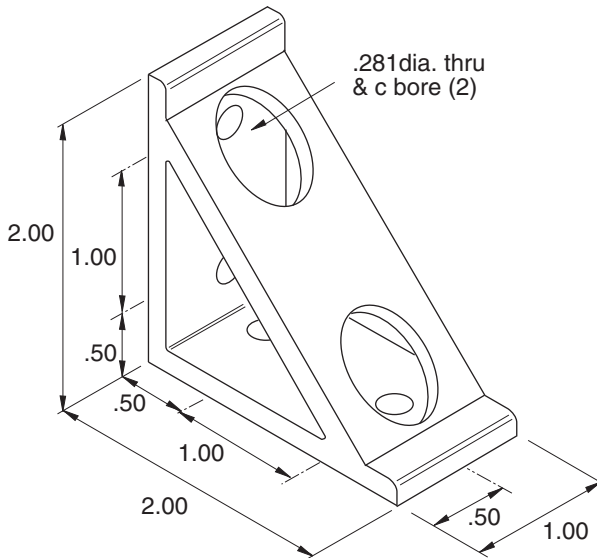
Recommended
Hardware
(8) 11-231 BHCS
(8) 11-210 T-nut

1/4" SLOTS



Material - Aluminum
Finish - Clear Anodize

Clear Anodized	11-170
Flat Black Powder Coat	11-BLK-170



**Recommended
Hardware**
(4) 11-231 BHCS
(4) 11-210 T-nut

Material - Aluminum

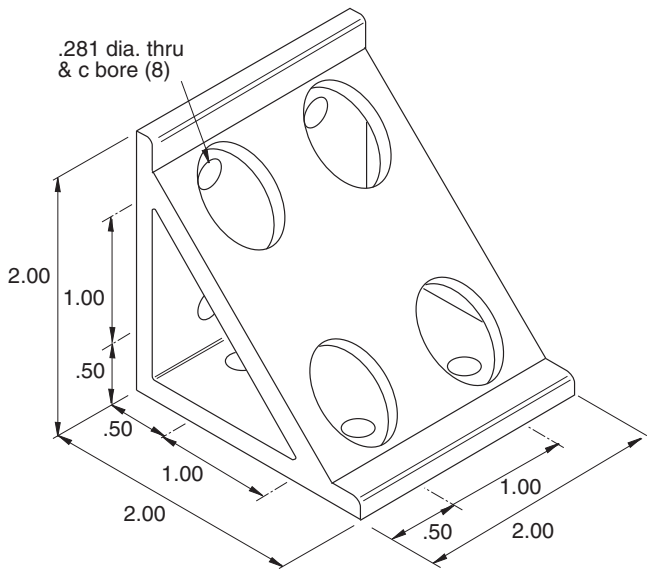
1/4" SLOTS

Corner Gusset



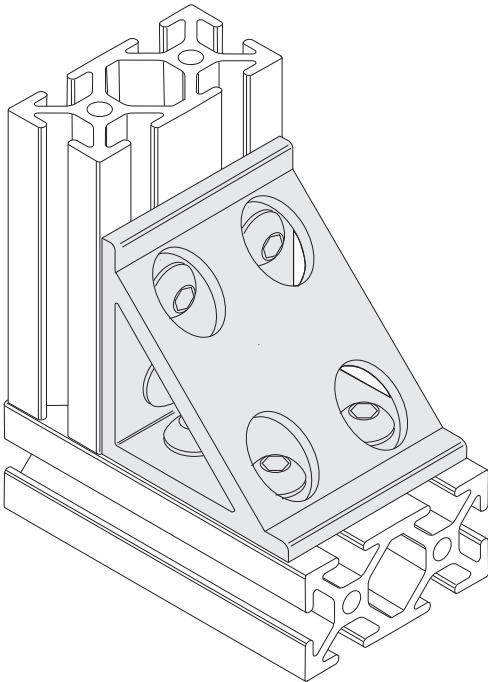
11-171
11-BLK-171

Clear Anodized
Flat Black Powder Coat

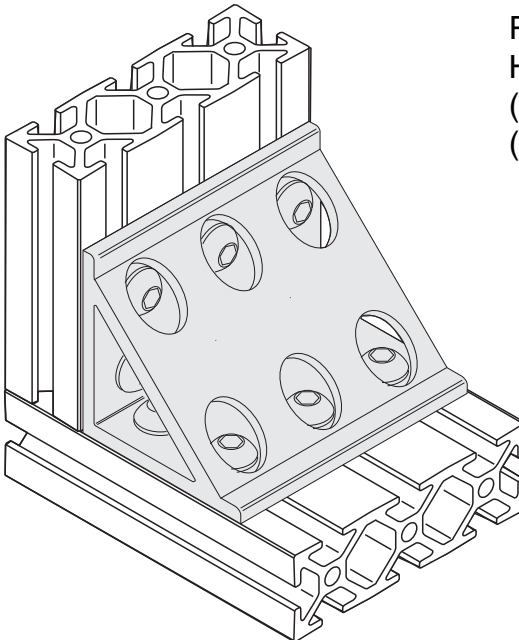
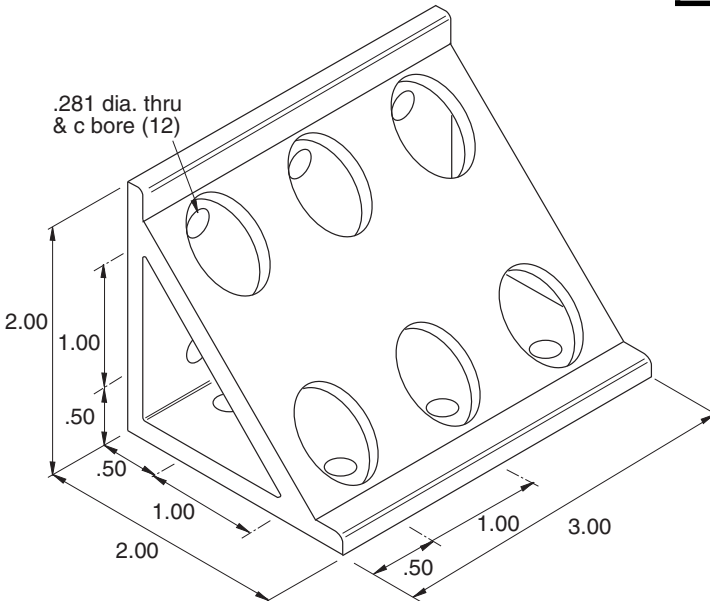


**Recommended
Hardware**
(8) 11-231 BHCS
(8) 11-210 T-nut

1/4" SLOTS



Material - Aluminum
Finish - Clear Anodize

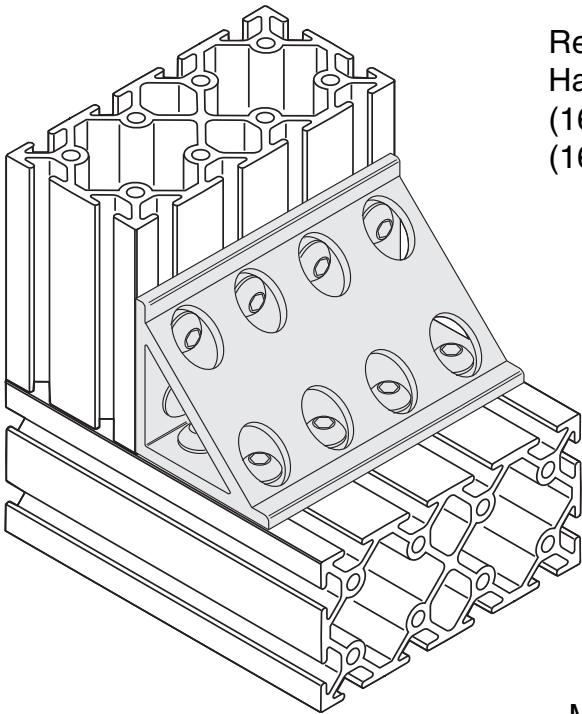
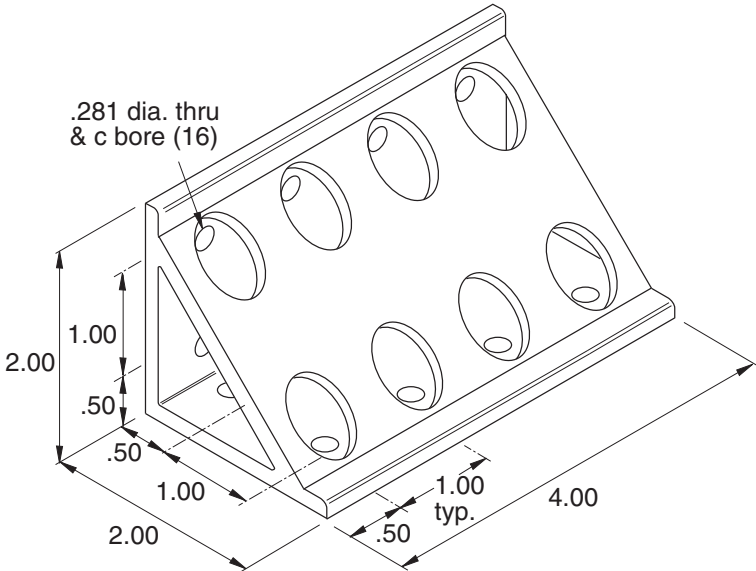


**Recommended
Hardware**
(12) 11-231 BHCS
(12) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

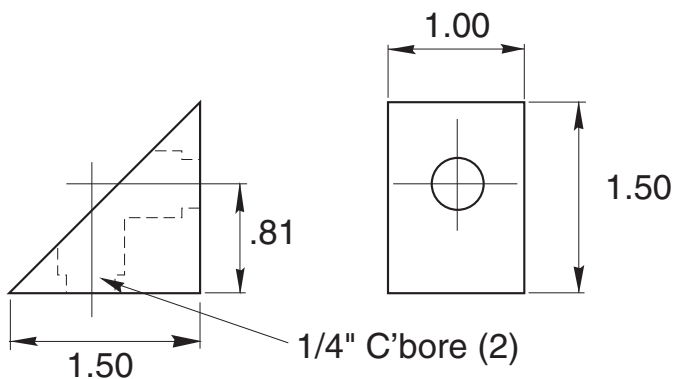
11-173



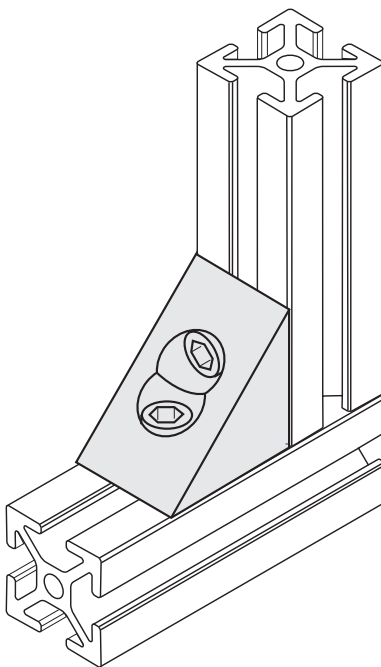
Recommended
Hardware
(16) 11-231 BHCS
(16) 11-210 T-nut

1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

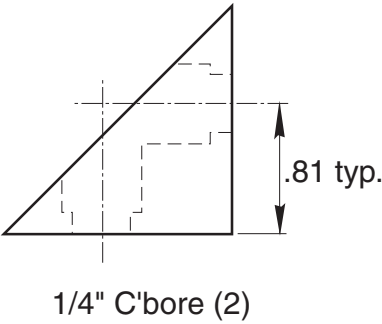
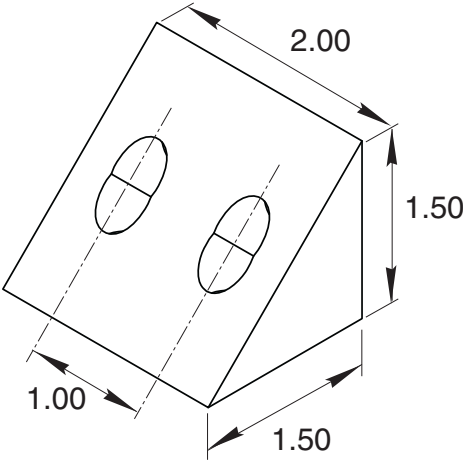


Recommended
Hardware
(2) 11-221 SHCS
(2) 11-210 T-nut

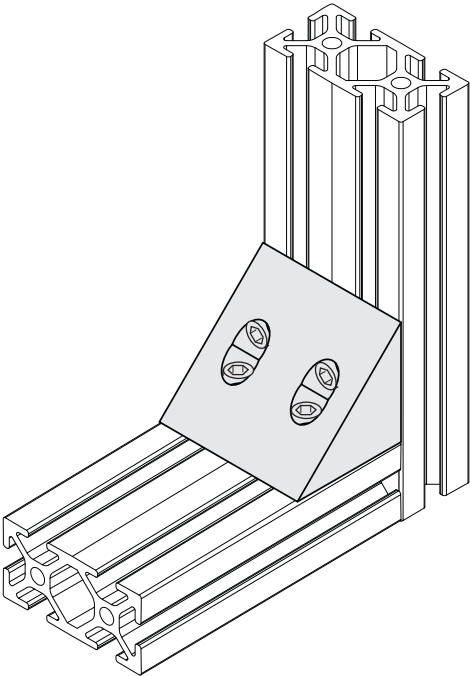
**1/4" SLOTS**

Material - Aluminum
Finish - Clear Anodize

11-34



Recommended
Hardware
(4) 11-221 SHCS
(4) 11-210 T-nut



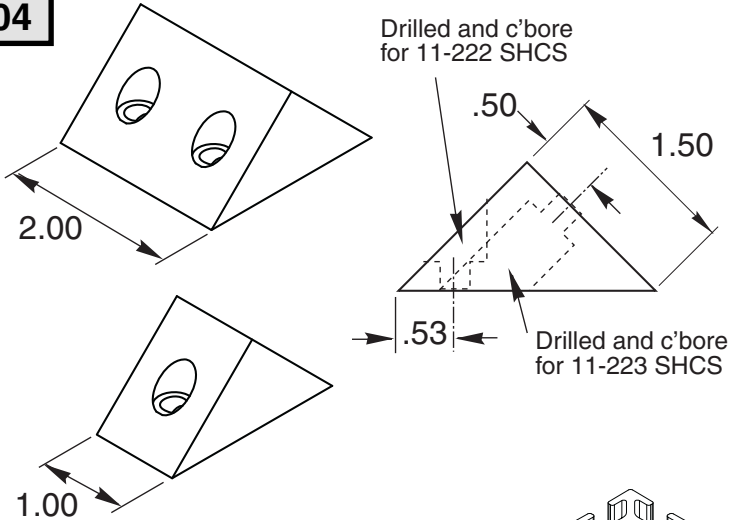
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

11-103

11-104

11-104



11-103

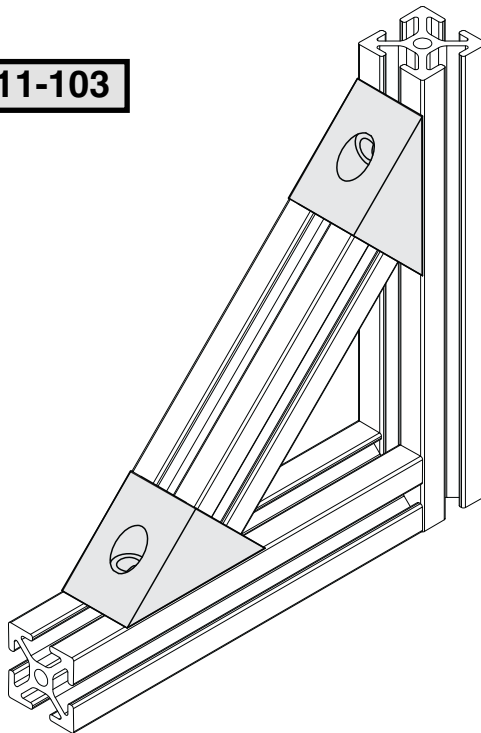
**Recommended
Hardware**

11-103

- (1) 11-222 SHCS
- (1) 11-223 SHCS
- (1) 11-210 T-nut

11-104

- (2) 11-222 SHCS
- (2) 11-223 SHCS
- (2) 11-210 T-nut



1/4" SLOTS

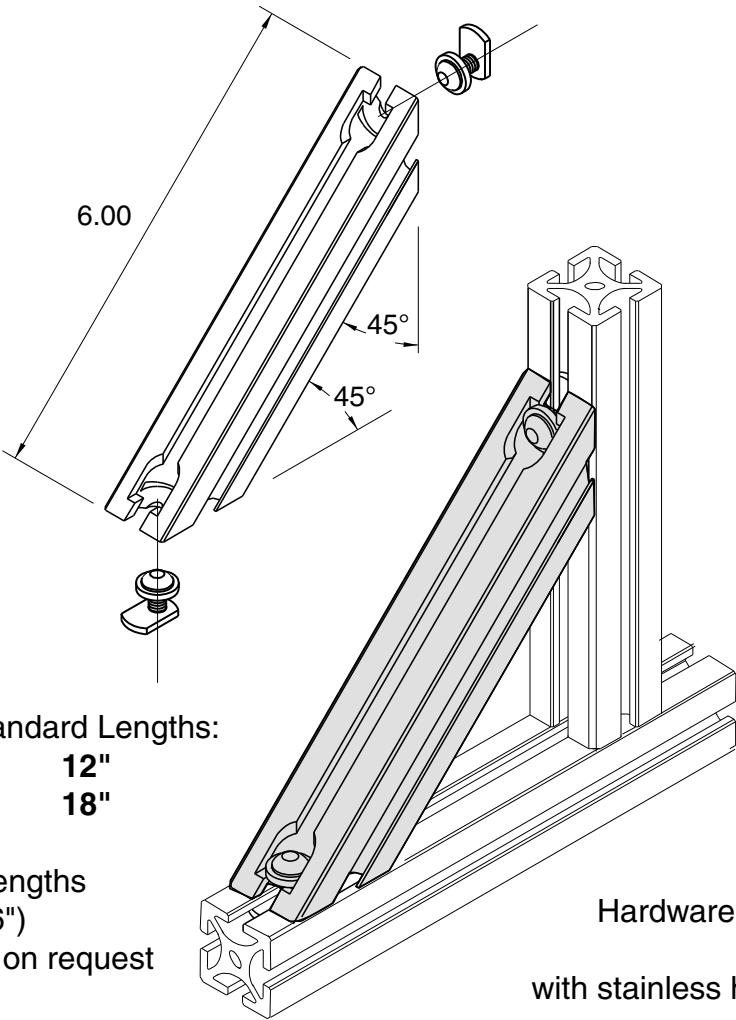
**Material - Aluminum
Finish - Clear Anodize**

Extrusion Gusset



11-7
11-BLK-7

Clear Anodized
Black Anodized



Other Standard Lengths:

11-7-12	12"
11-7-18	18"

Special lengths
(up to 96")
available on request
11-7-SP

Hardware included

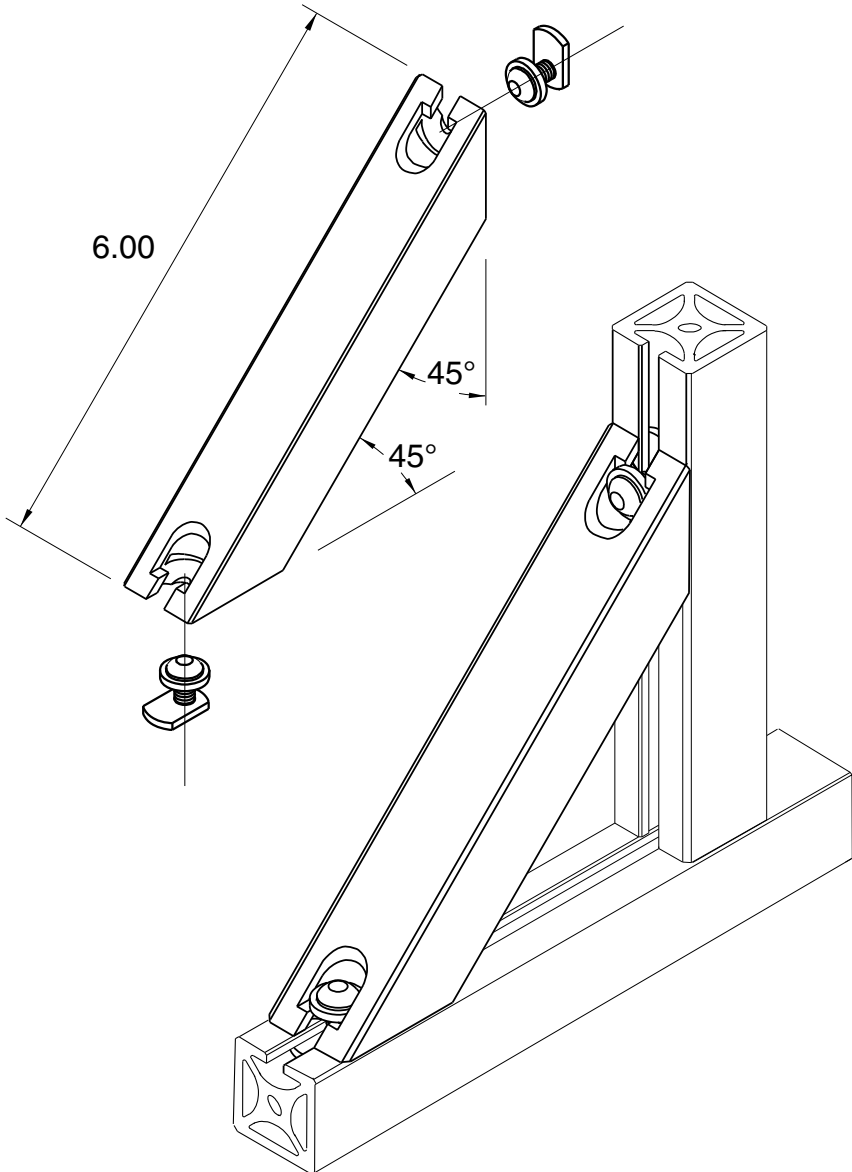
with stainless hardware
11-7-SS

with metric hardware
11-7-M

with stainless metric hardware
11-7-SSM

Material - Aluminum (EX-11, BLX-11)

1/4" SLOTS

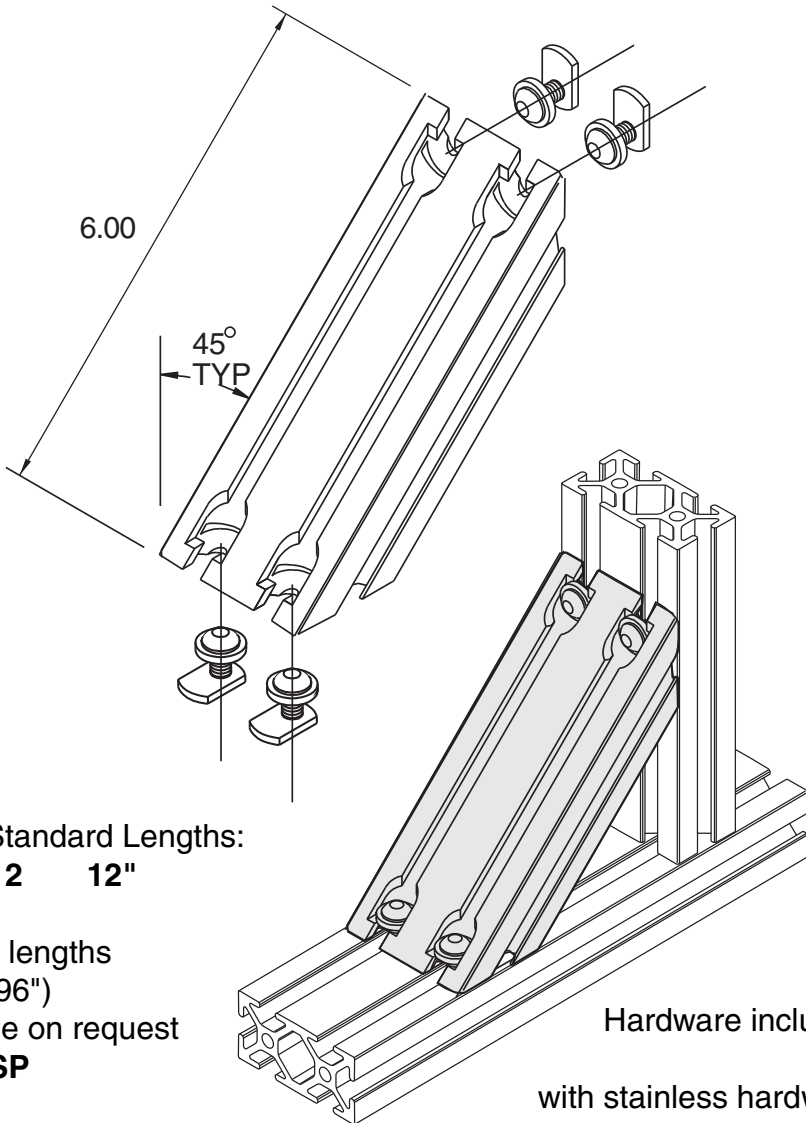


1/4" SLOTS

Material - Aluminum (EX-70)

11-12

Clear Anodized



1/4" SLOTS

Other Standard Lengths:
11-12-12 12"

Special lengths
(up to 96")
available on request
11-12-SP

Hardware included

with stainless hardware

11-12-SS

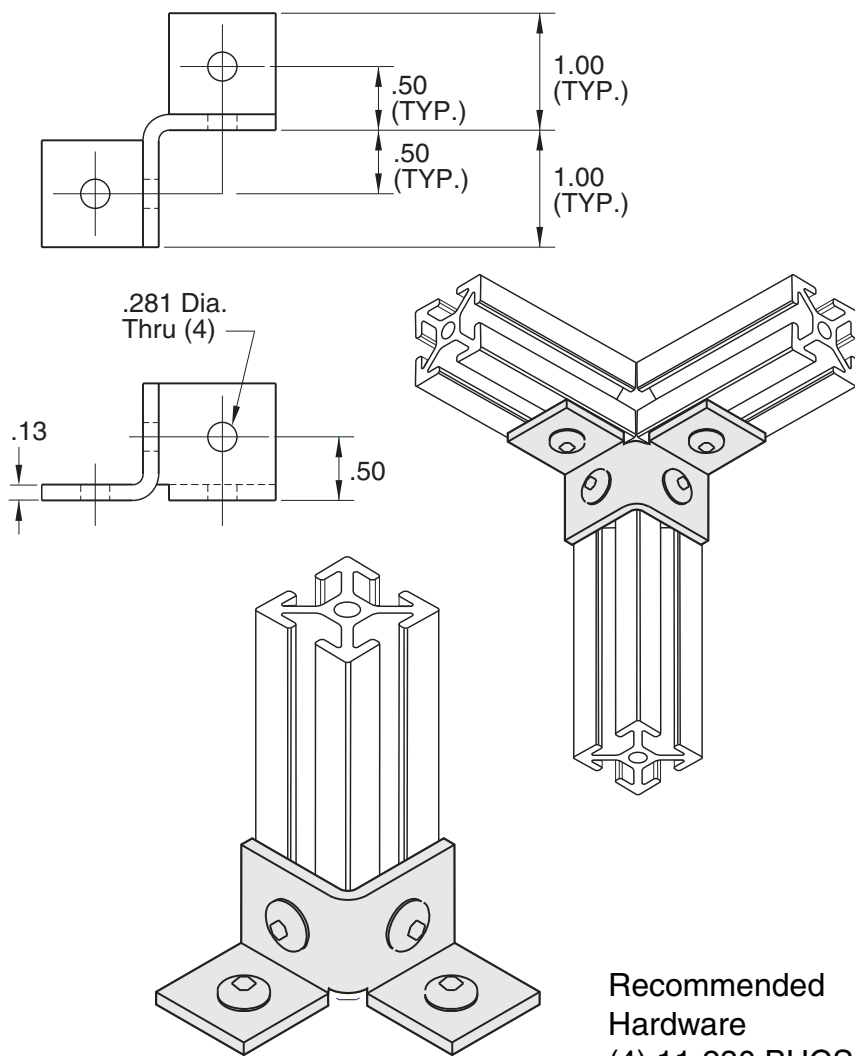
with metric hardware

11-12-M

with stainless metric hardware

11-12-SSM

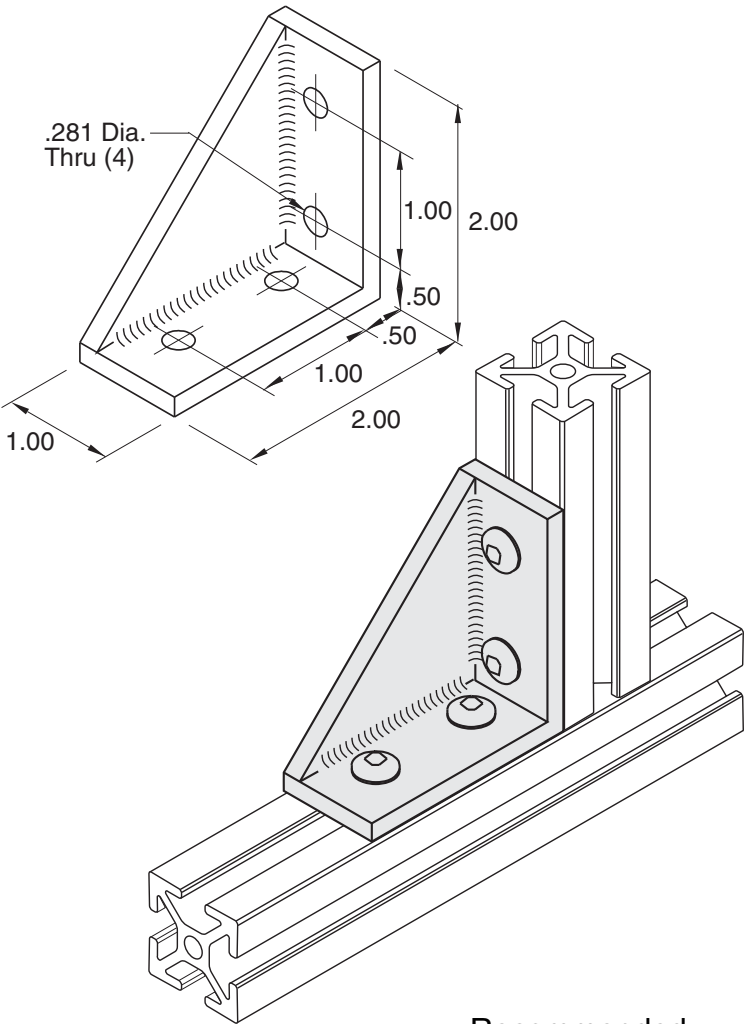
Material - Aluminum (EX-12)



**Recommended
Hardware**
(4) 11-230 BHCS
(4) 11-210 T-nut

Material - Steel
Finish - Zinc Plating

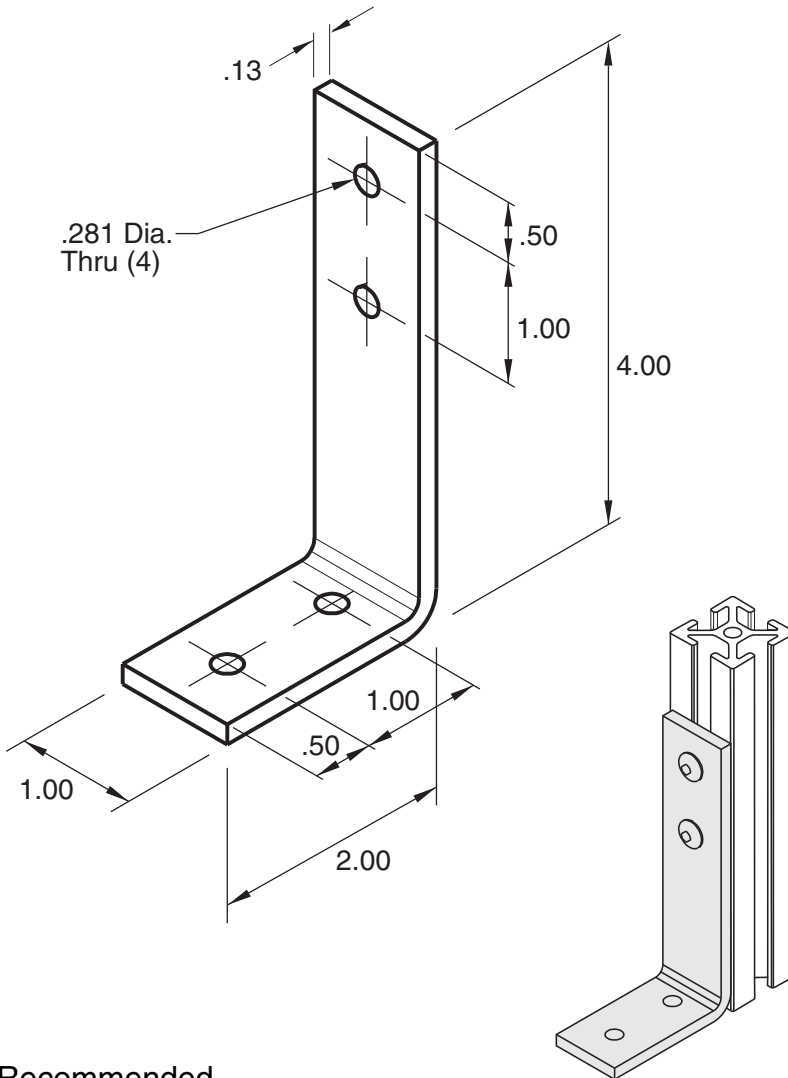
11-60



Recommended
Hardware
(4) 11-230 BHCS
(4) 11-210 T-nut

Material - Steel
Finish - Black Powder Coat

1/4" SLOTS



**Recommended
Hardware**
(4) 11-230 BHCS
(4) 11-210 T-nut

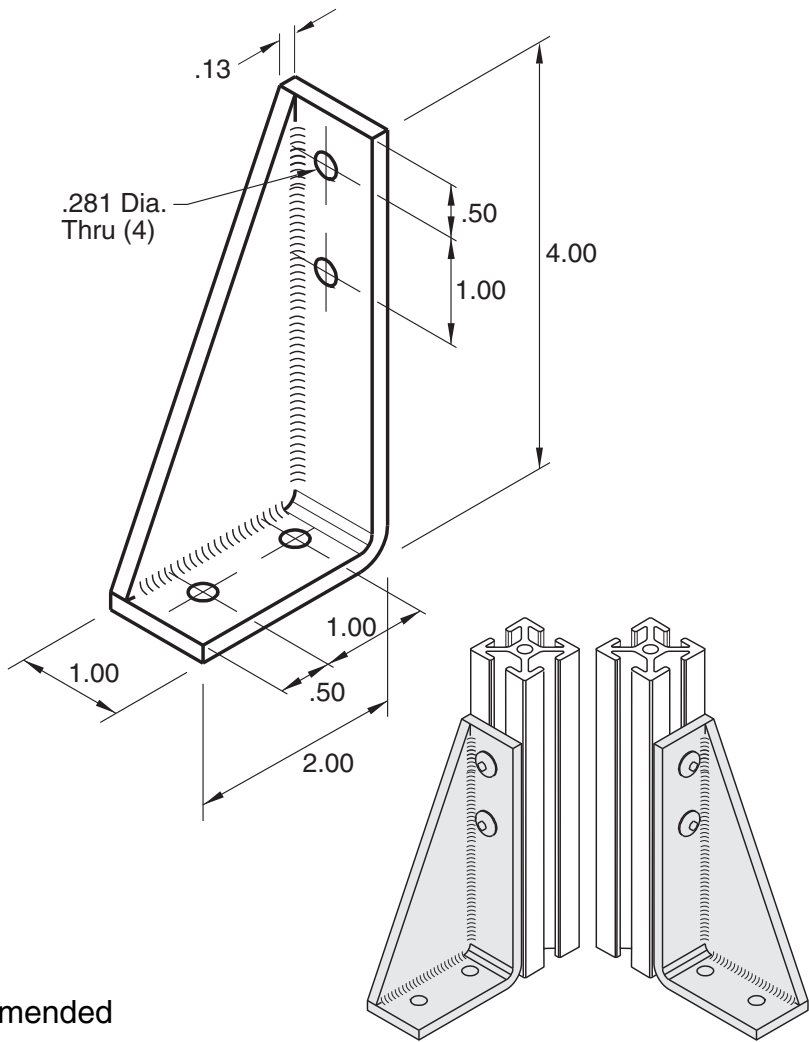
Material - Steel
Finish - Black Powder Coat

1/4" SLOTS

Welded Steel Angle Bracket



11-61	Left Hand
11-62	Right Hand



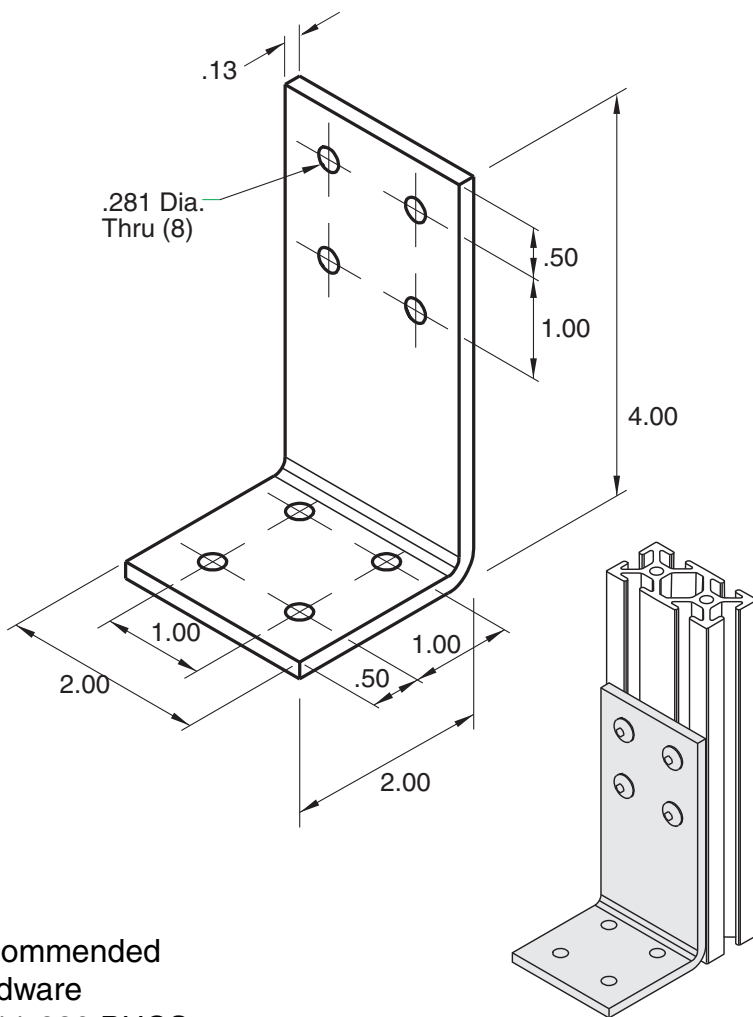
1/4" SLOTS

Recommended
Hardware
(4) 11-230 BHCS
(4) 11-210 T-nut

11-61
Left Hand

11-62
Right Hand

Material - Steel
Finish - Black Powder Coat



Recommended
Hardware
(8) 11-230 BHCS
(8) 11-210 T-nut

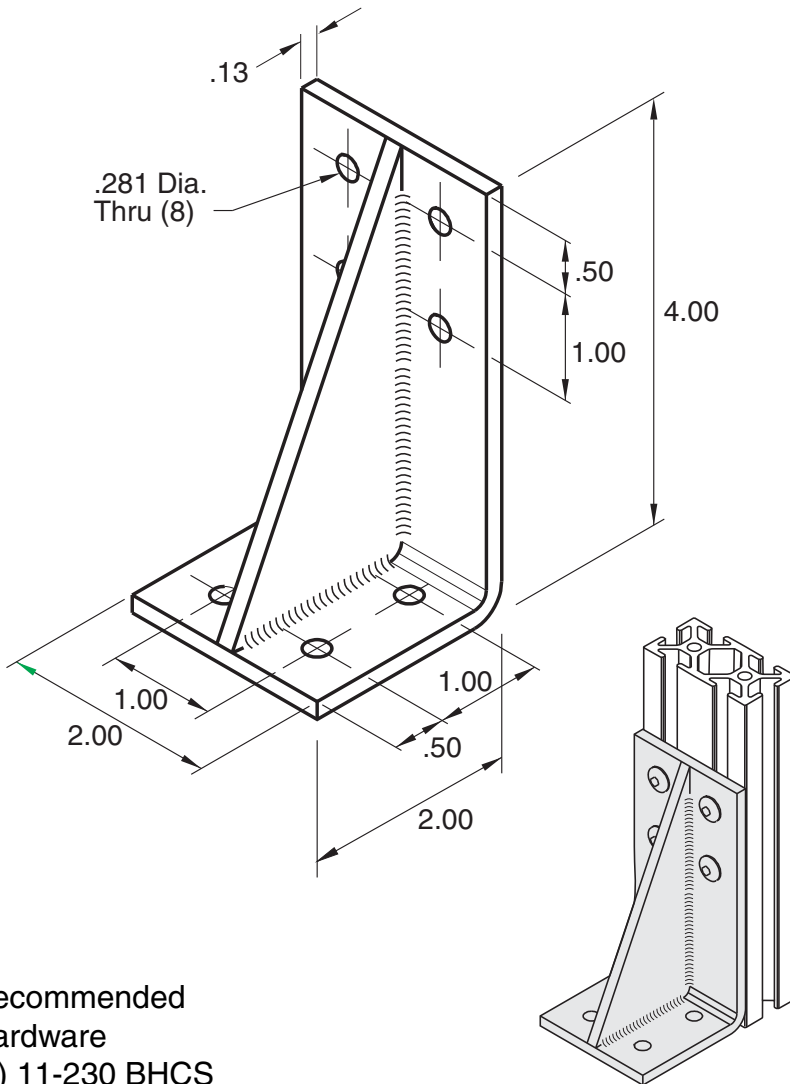
Material - Steel
Finish - Black Powder Coat

1/4" SLOTS

Welded Steel Angle Bracket



11-63

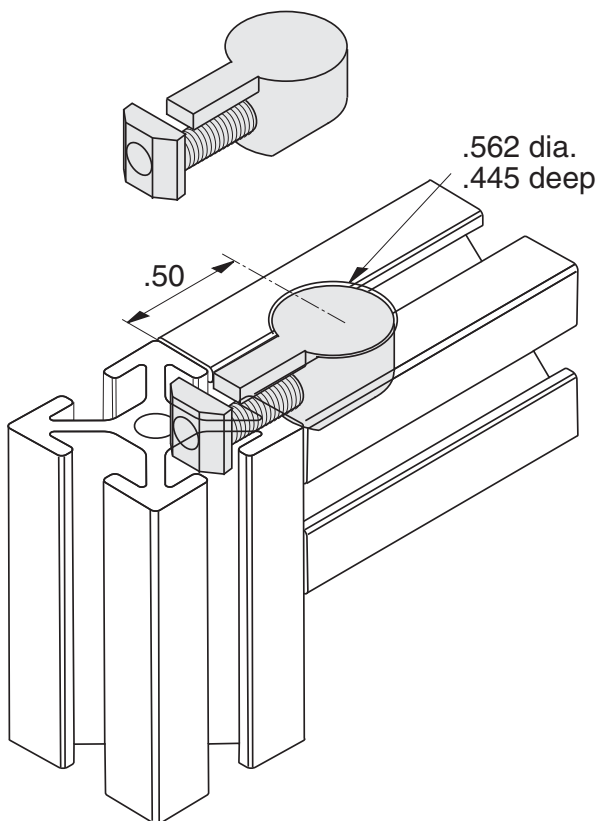


1/4" SLOTS

Recommended
Hardware
(8) 11-230 BHCS
(8) 11-210 T-nut

Material - Steel
Finish - Black Powder Coat

with Hardware	11-242
without Hardware	11-242P
with Metric Hardware	11-242M



1/4" SLOTS

Material:

Anchor - Cast Zinc, Zinc Plated
 Bolt - Steel, Black Oxide Coating
 T-nut - Steel Zinc Coated

Double Anchor Fastener



11-248
11-248M
11-249
11-249M

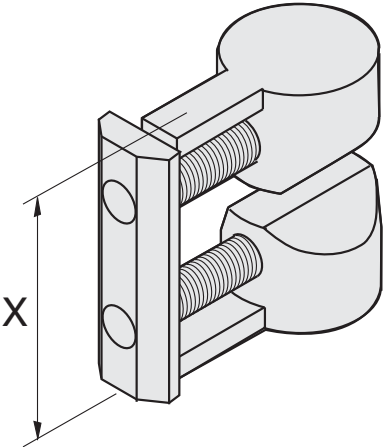
with Metric Hardware

with Metric Hardware

11-248 x=1.0

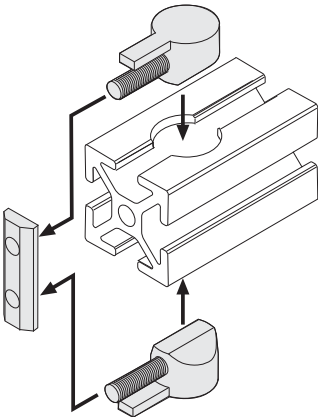
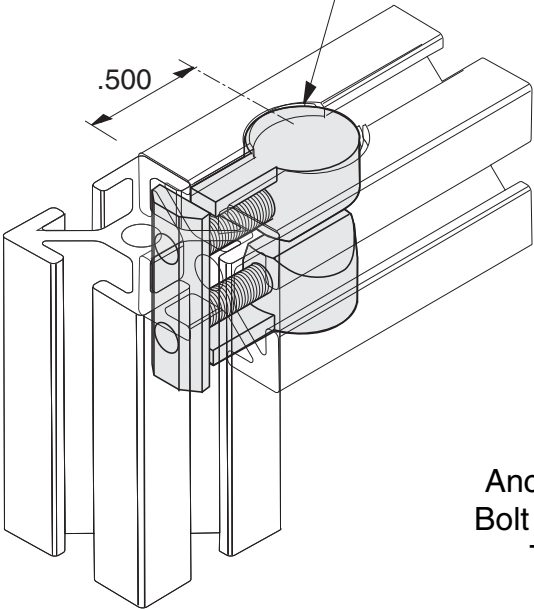
11-249 x=2.0

Hardware Included



.562 dia. x .445 deep (2) plces

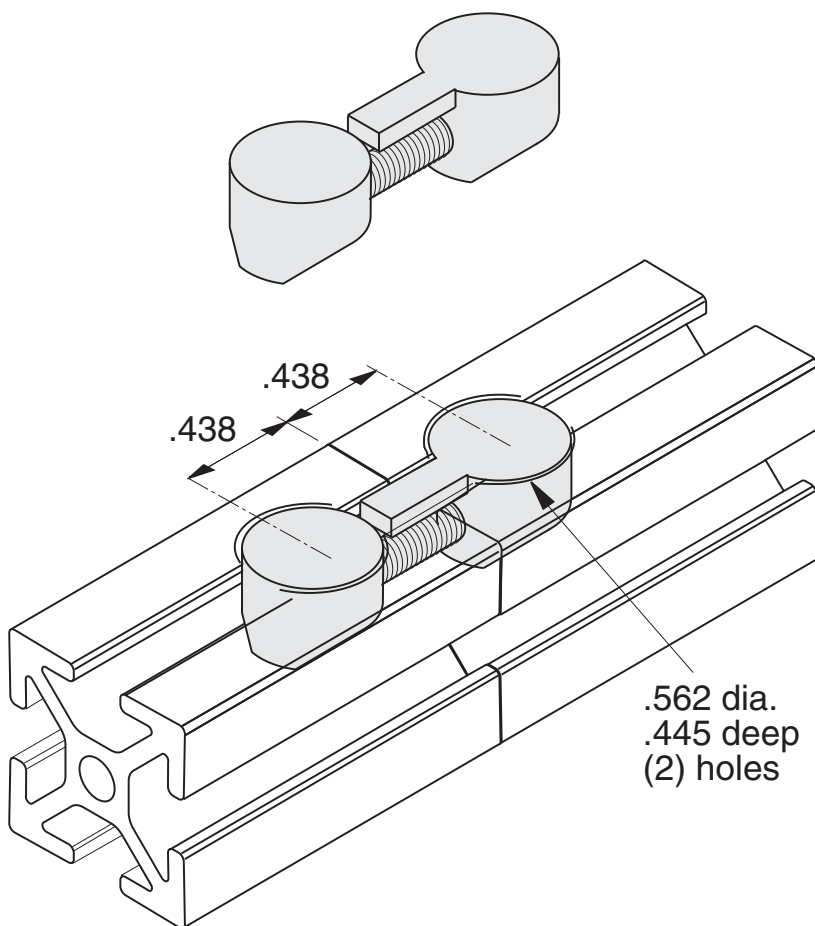
.500



Material:

Anchor - Cast Zinc, Zinc Plated
Bolt - Steel, Black Oxide Coating
T-nut - Steel Zinc Coated

1/4" SLOTS

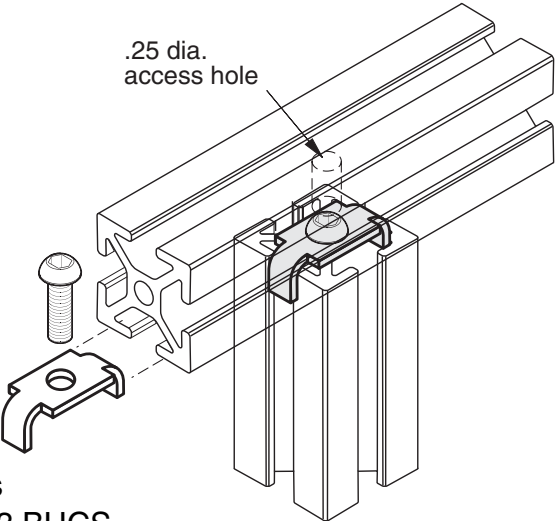
with metric Hardware**11-243****11-243M****Hardware Included****Material:****Anchor - Cast Zinc, Zinc Plated****Bolt - Steel, Black Oxide Coating****T-nut - Steel Zinc Coated****1/4" SLOTS**

Universal Connector



11-262
11-262SS

Zinc Plated Steel
Stainless Steel

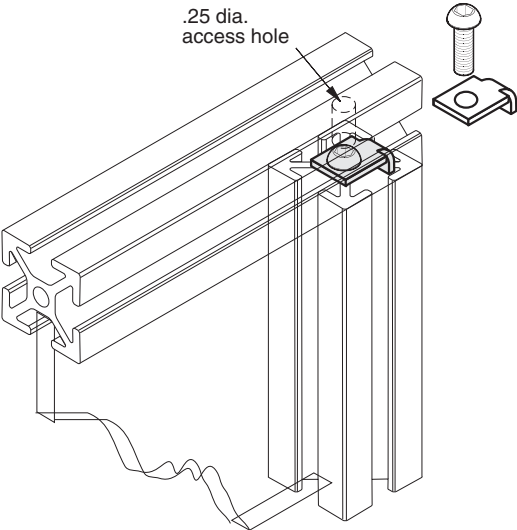


Requires
(1)11-233 BHCS

Universal Panel Connector

11-267
11-267SS

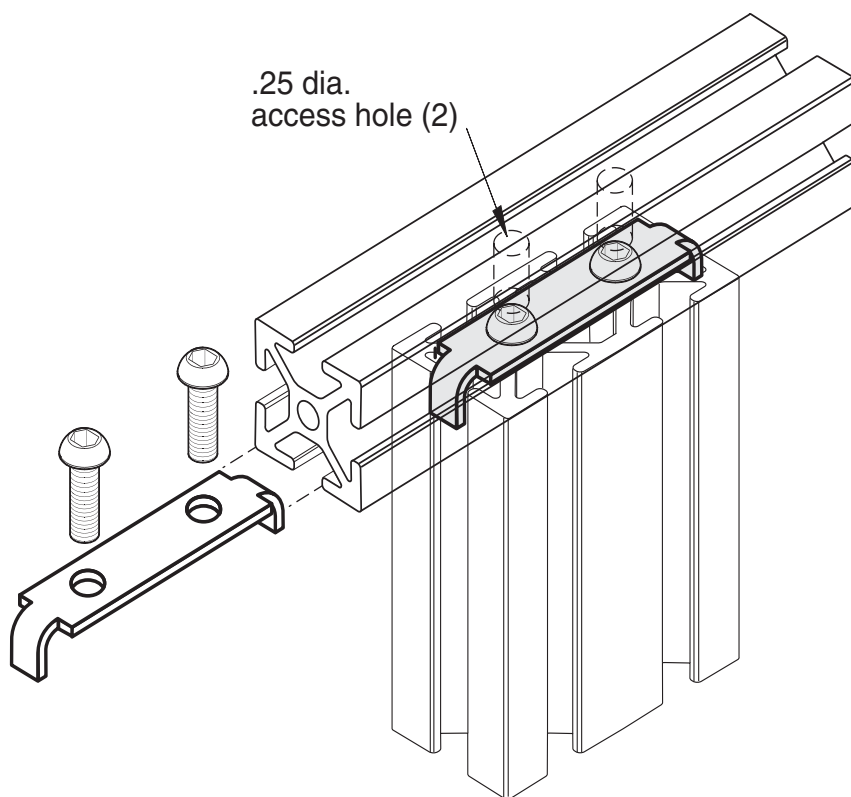
Zinc Plated Steel
Stainless Steel



Requires
(1)11-233 BHCS

No panel
trimming
required

1/4" SLOTS



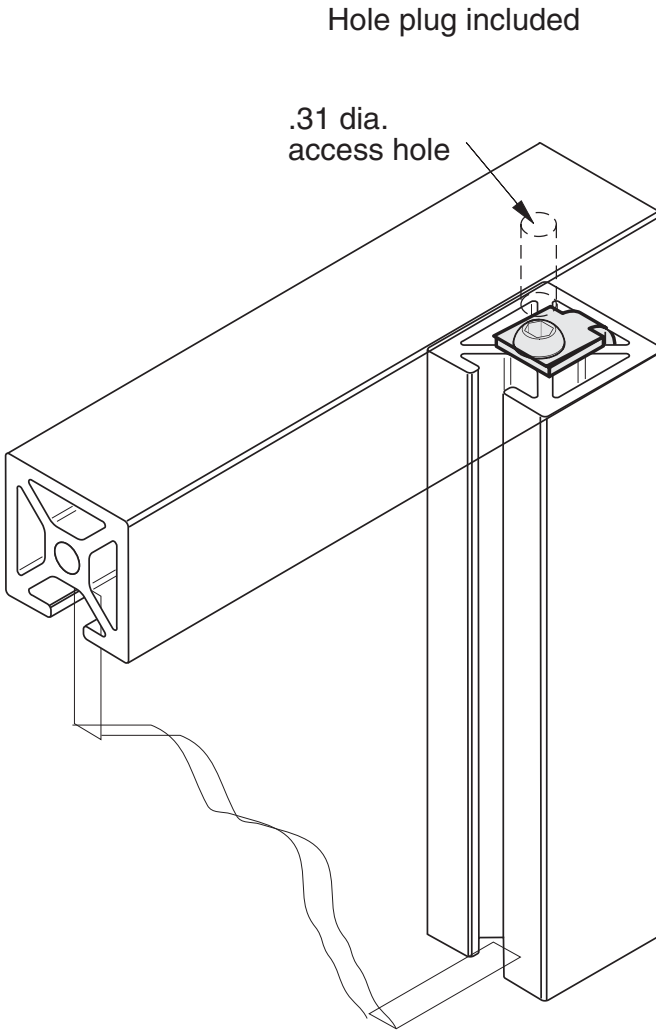
Recommended
Hardware
(2) 11-233 BHCS

Material - Steel
Finish - Zinc Plated

1/4" SLOTS

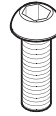
11-269

use with EX-70, EX-71, EX-72 and EX-73



Hole plug included

.31 dia.
access hole

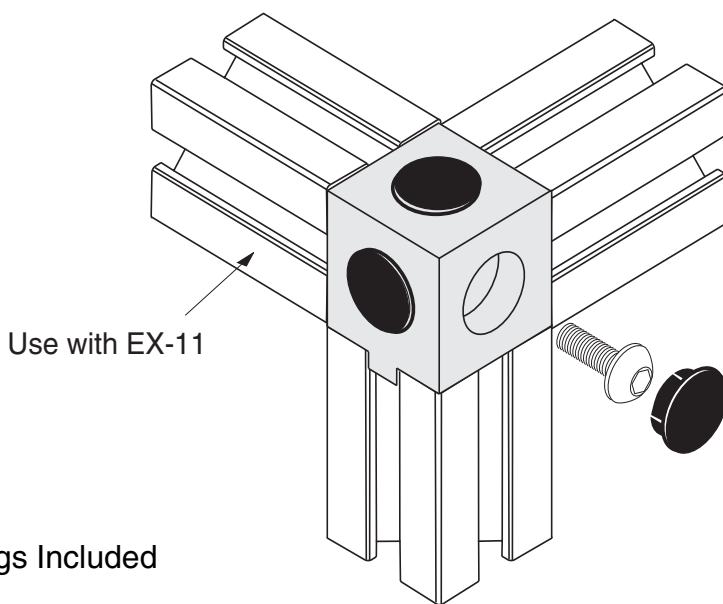
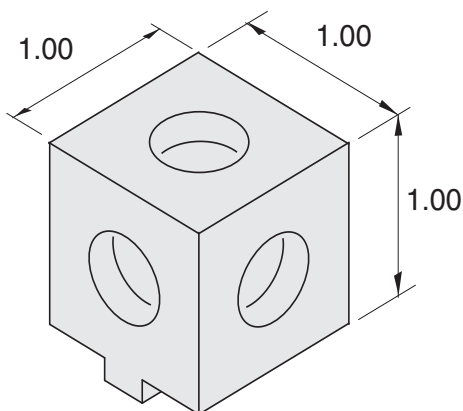


No panel trimming
required.

1/4" SLOTS

Recommended
Hardware
(1) 11-233 BHCS

Material - Steel
Finish - Zinc Plated



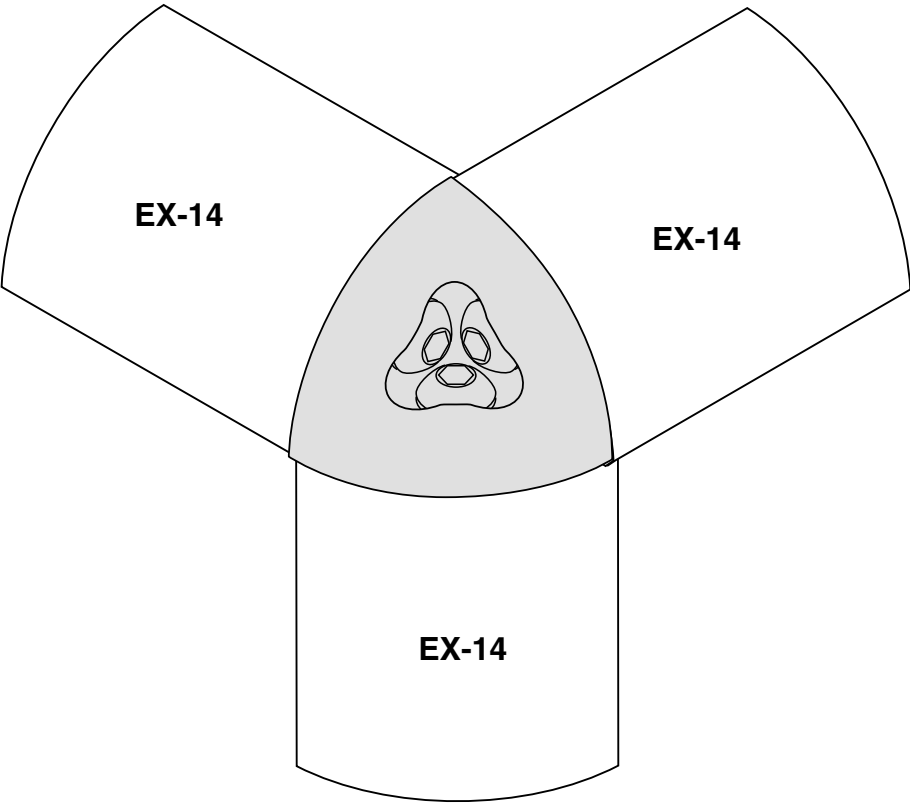
Hole Plugs Included

Recommended
Hardware
(3) 11-233 BHCS

Material - Aluminum
Finish - Clear Anodize

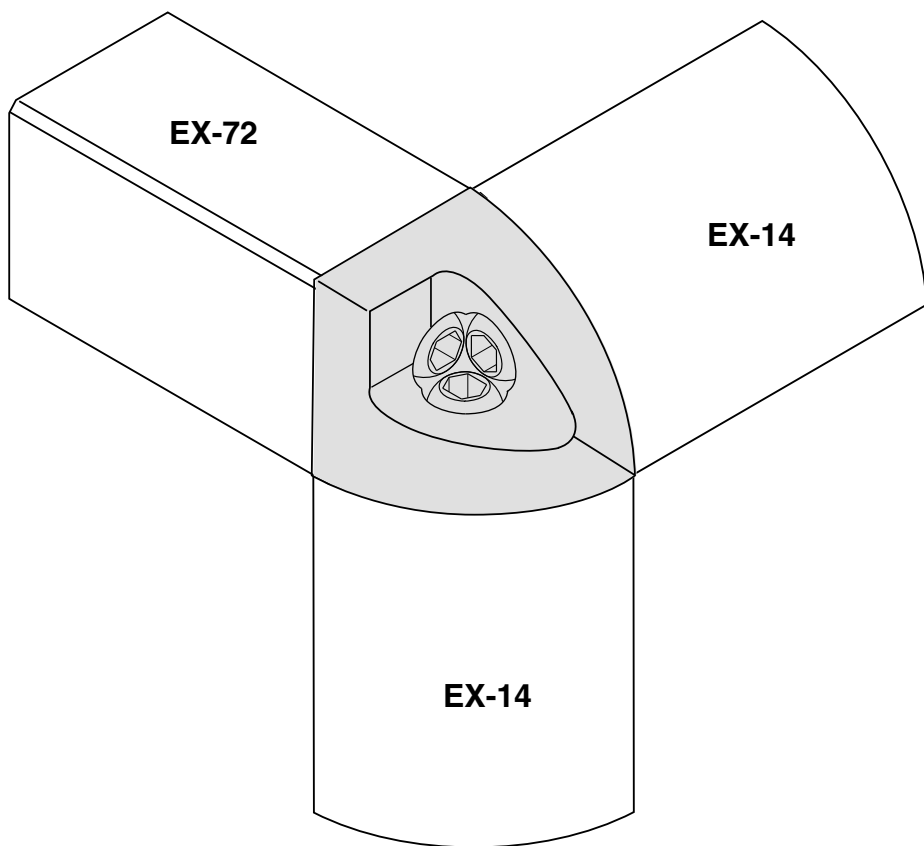
1/4" SLOTS

11-56 For 1" x 1" 1/4" Slot Profiles



1/4" SLOTS

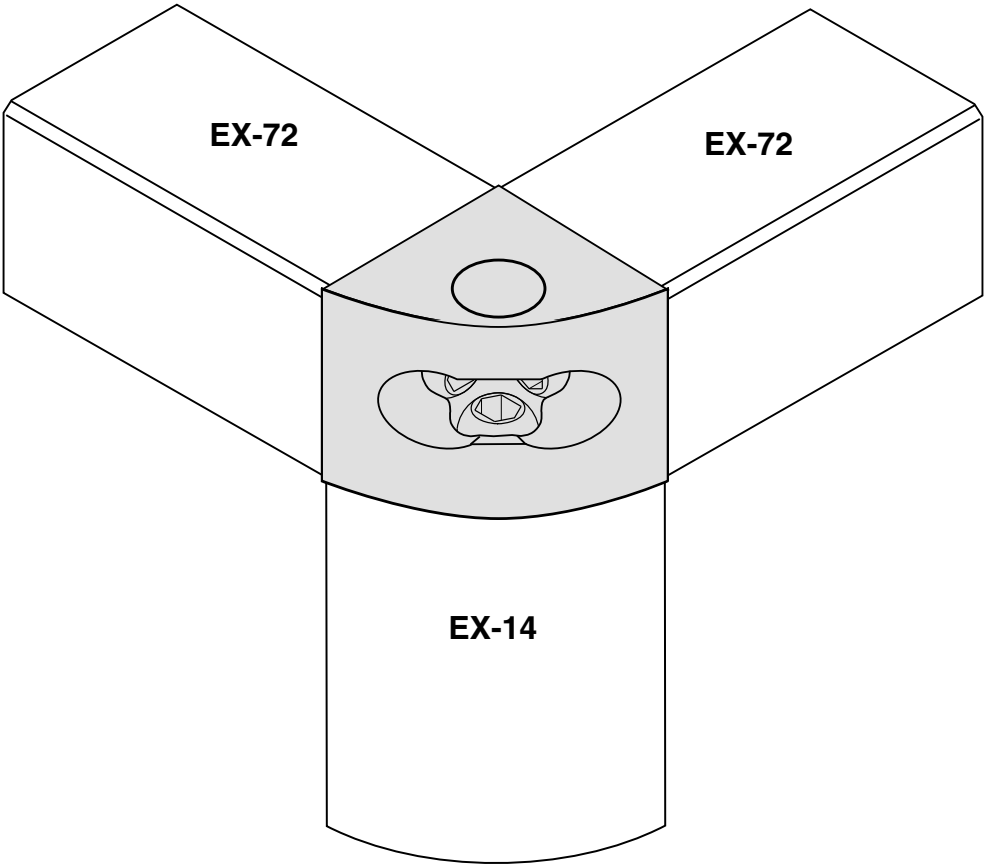
Hardware Included
Material - Aluminum
Finish - Clear Anodize

**1/4" SLOTS**

Hardware Included
Material - Aluminum
Finish - Clear Anodize

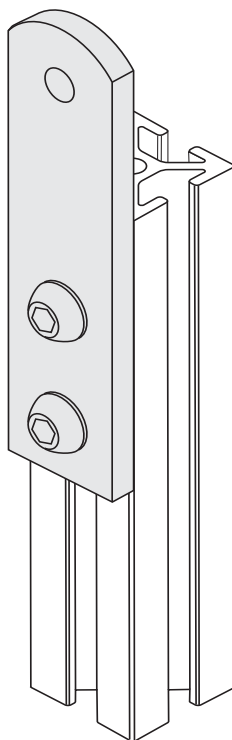
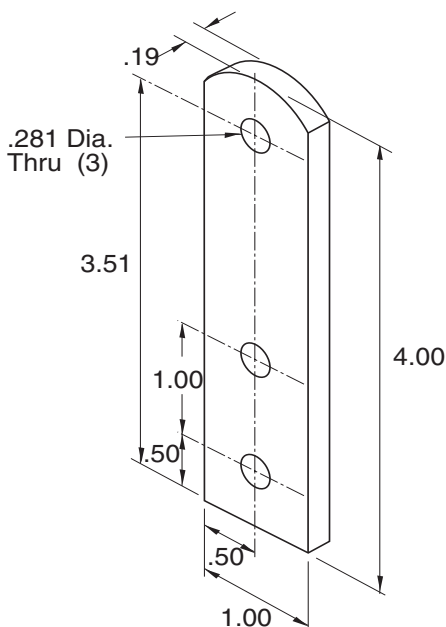
11-58

For 1" x 1" 1/4" Slot Profiles



1/4" SLOTS

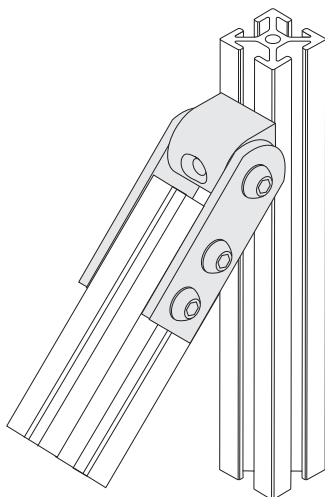
Hardware Included
Material - Aluminum
Finish - Clear Anodize



Assembled

(1) 11-10

(2) 11-11



**Recommended
Hardware**

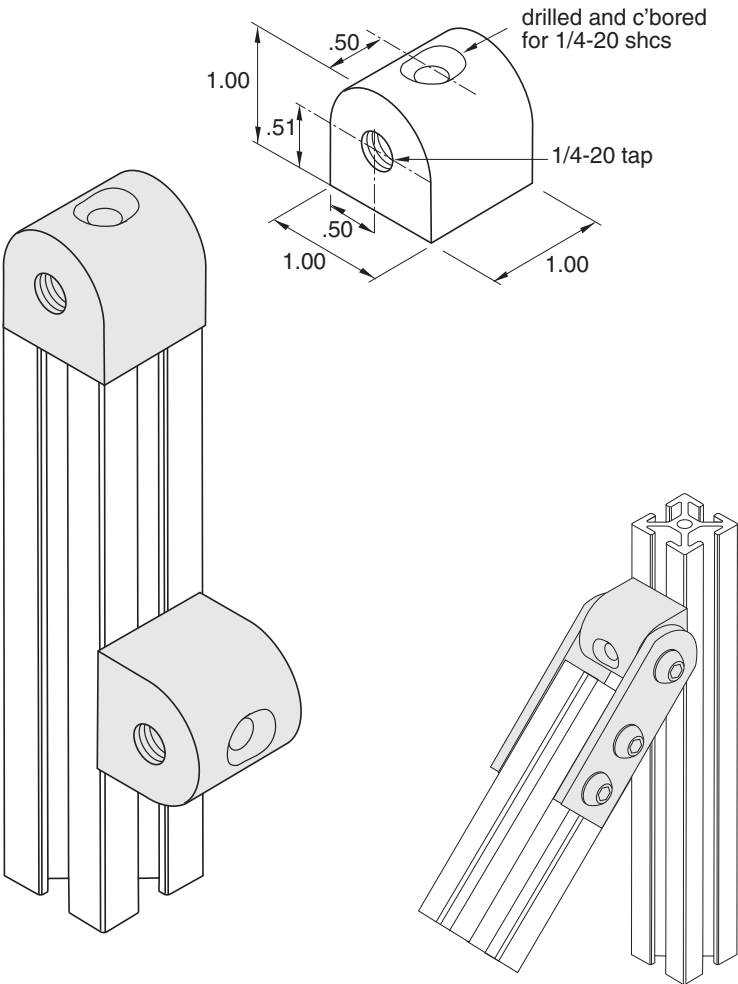
(3) 11-231 BHCS

(2) 11-210 T-nut

**Material - Aluminum
Finish - Clear Anodize**

1/4" SLOTS

11-10

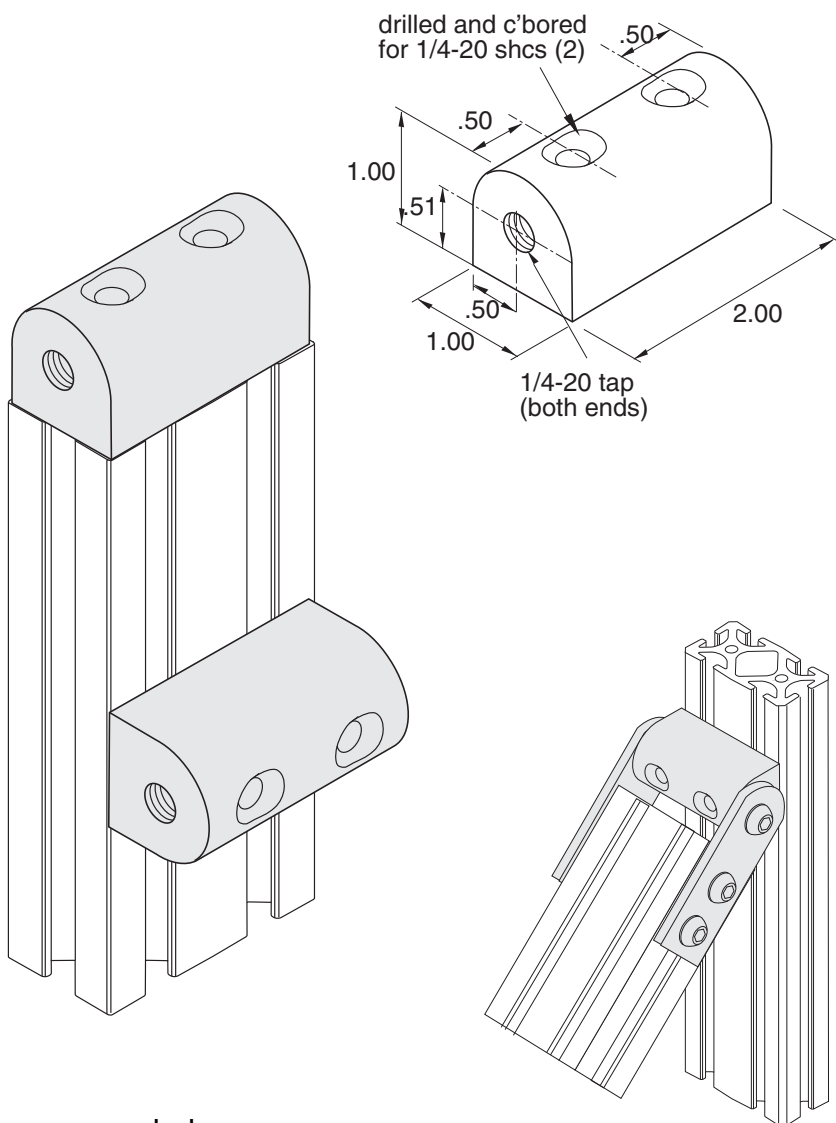


1/4" SLOTS

Recommended
Hardware
(1) 11-224 SHCS
(1) 11-210 T-nut

Assembled
(1) 11-10
(2) 11-11

Material - Aluminum
Finish - Clear Anodize



**Recommended
Hardware**
(2) 11-224 SHCS
(2) 11-210 T-nut

Assembled
(1) 11-9
(2) 11-11

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Pivoting Post Arm with Bushing



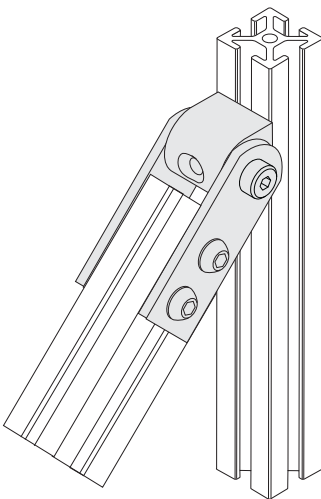
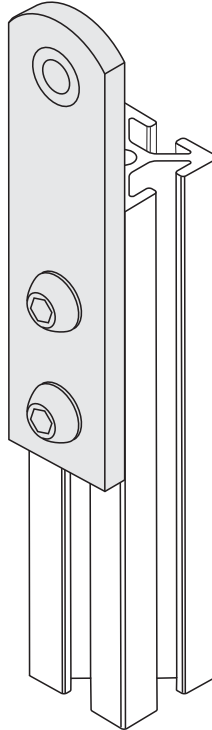
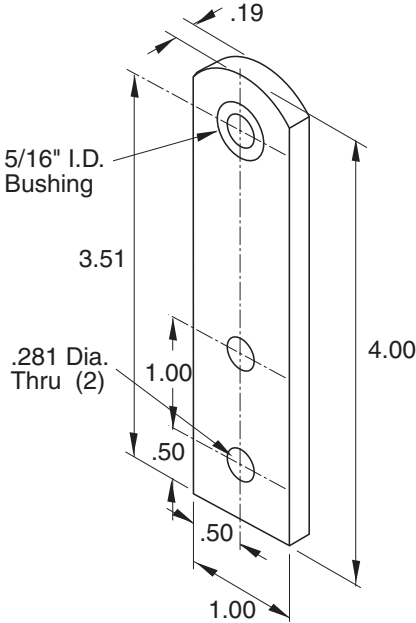
11-105

use with 11-108 or 11-109

For shoulder bolt,
order (1) 11-204

Recommended Hardware

- (2) 11-210 T-nut
- (2) 11-231 BHCS
- (1) 11-204 Sholder Bolt

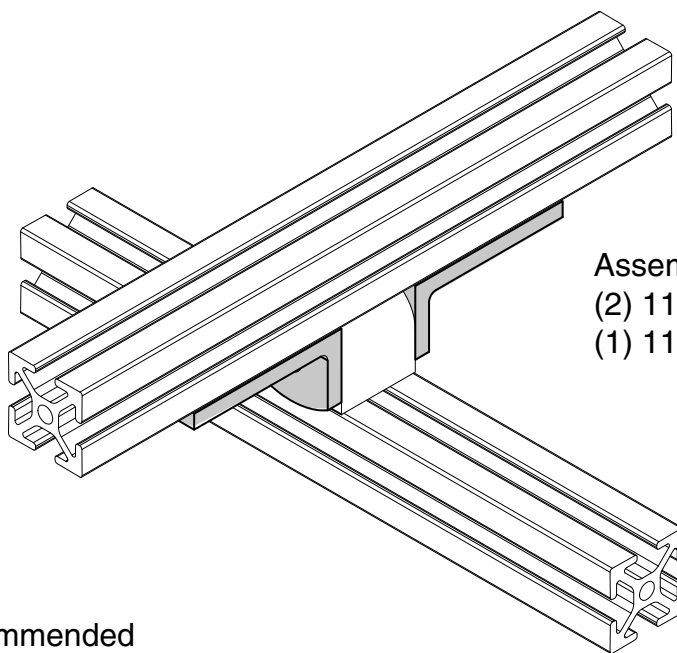
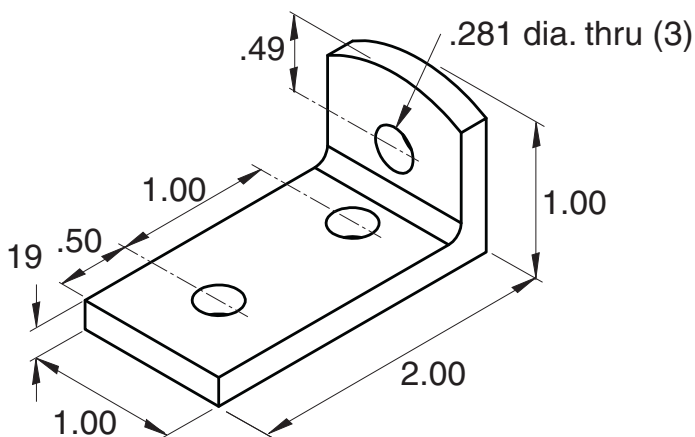


Assembled

- (2) 11-105
- (1) 11-109
- (2) 11-204

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



Assembled
(2) 11-106
(1) 11-10

Recommended
Hardware
(3) 11-231 BHCS
(2) 11-210 T-nut

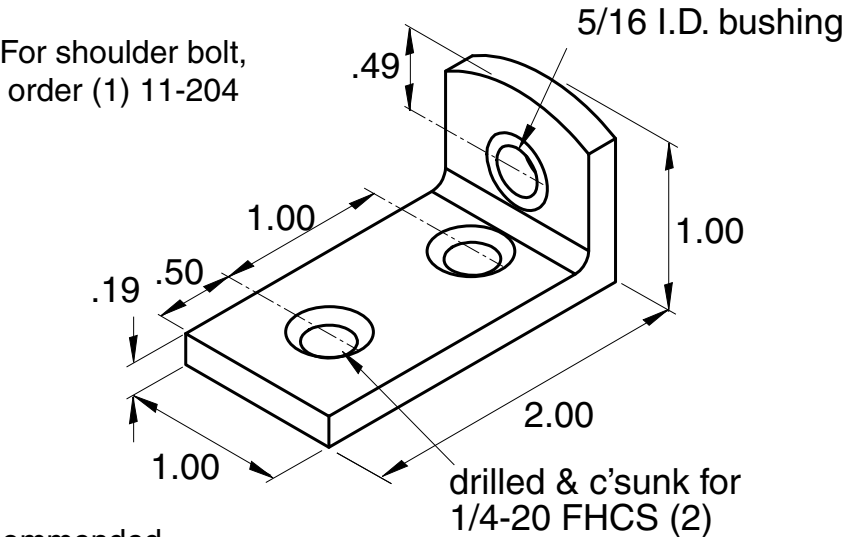
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

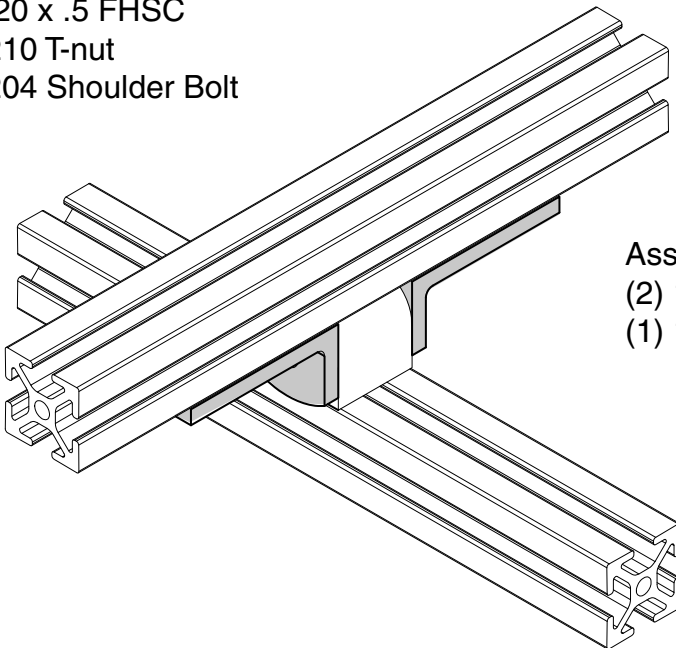
Pivoting Post Angle with Bushing



11-107 use with 11-108 or 11-109



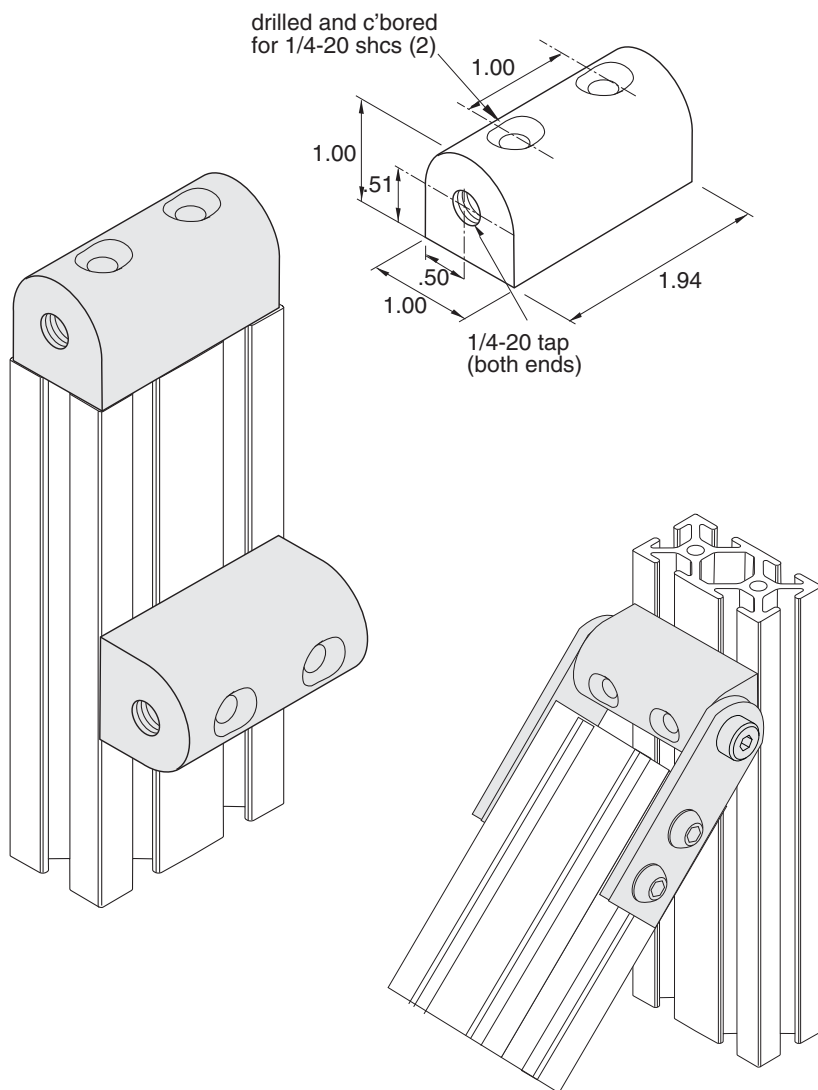
- Recommended
Hardware
- (2) 1/4-20 x .5 FHSC
 - (2) 11-210 T-nut
 - (1) 11-204 Shoulder Bolt



Assembled
(2) 11-107
(1) 11-109

1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

use with 11-105 or 11-107
11-108


**Recommended
Hardware**
(2) 11-224 BHCS
(2) 11-210 T-nut

Assembled
(2) 11-105
(1) 11-108
(2) 11-204

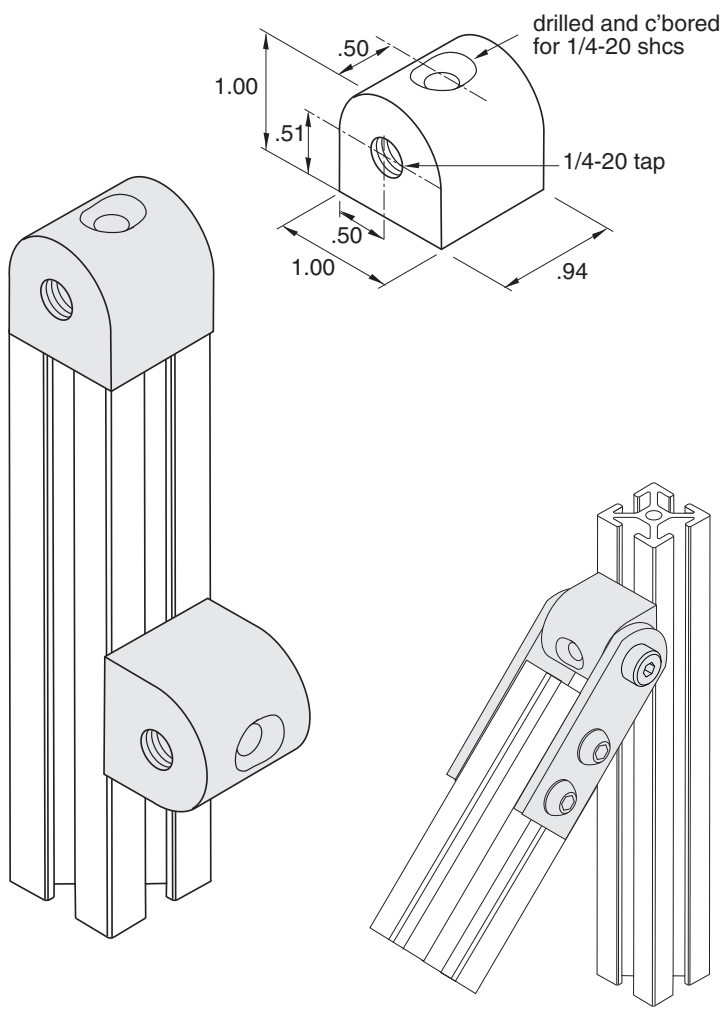
**Material - Aluminum
Finish - Clear Anodize**

1/4" SLOTS

Pivoting Corner Post



11-109 use with 11-105 or 11-107

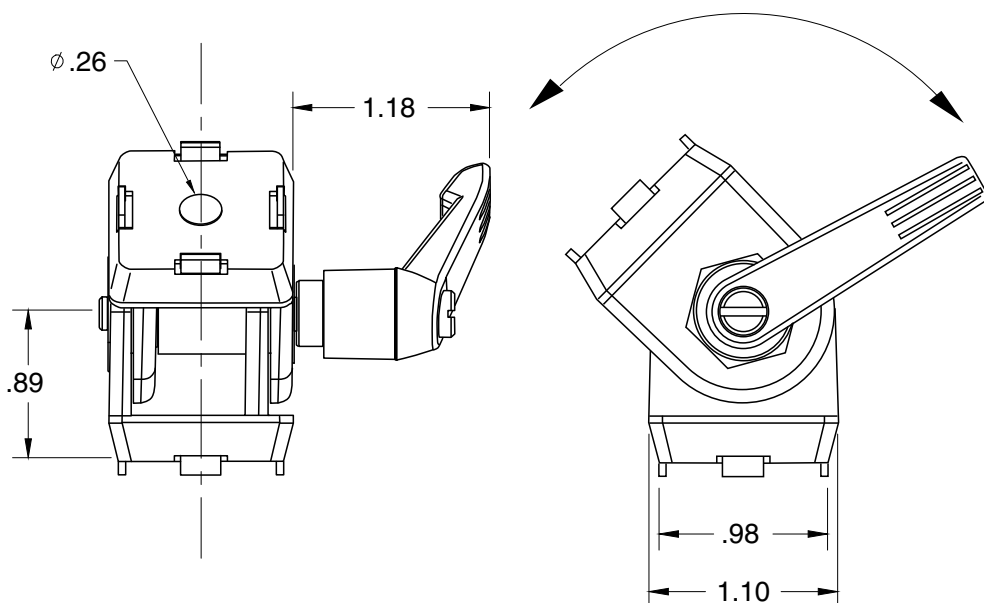


1/4" SLOTS

Recommended
Hardware
(1) 11-224 BHCS
(1) 11-210 T-nut

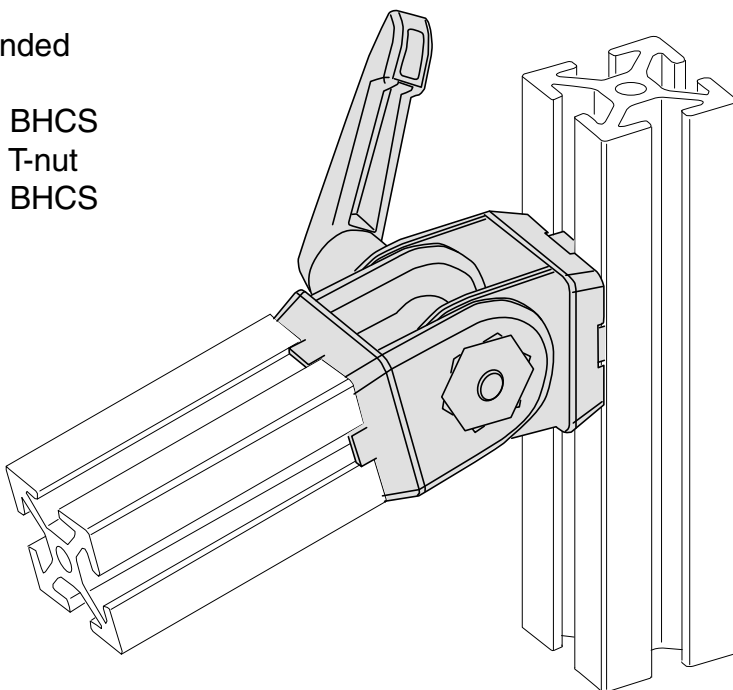
Assembled
(2) 11-105
(1) 11-109
(2) 11-204

Material - Aluminum
Finish - Clear Anodize



**Recommended
Hardware**

- (1) 11-231 BHCS
- (1) 11-205 T-nut
- (1) 11-232 BHCS



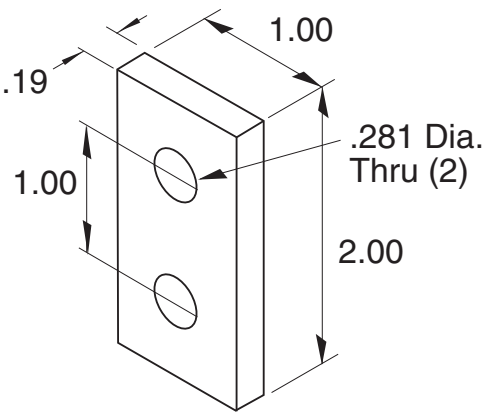
1/4" SLOTS

Material Body - Die Cast Zinc
Handle - Reinforced Glass Filled Nylon

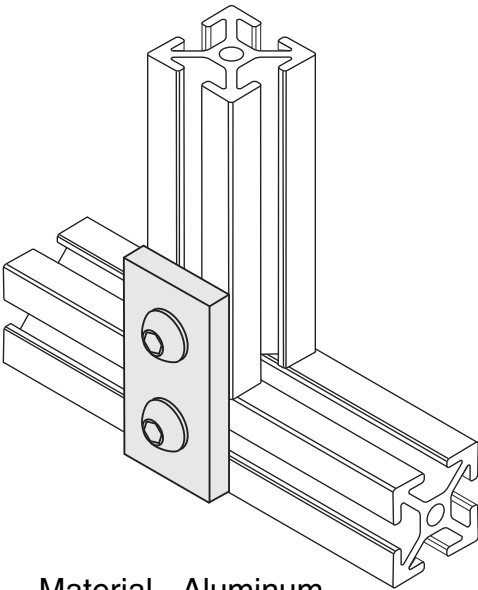
Joining Plate



11-38	Clear Anodized
11-BLK-38	Flat Black Powder Coat
11-38-S	1 Slotted Hole



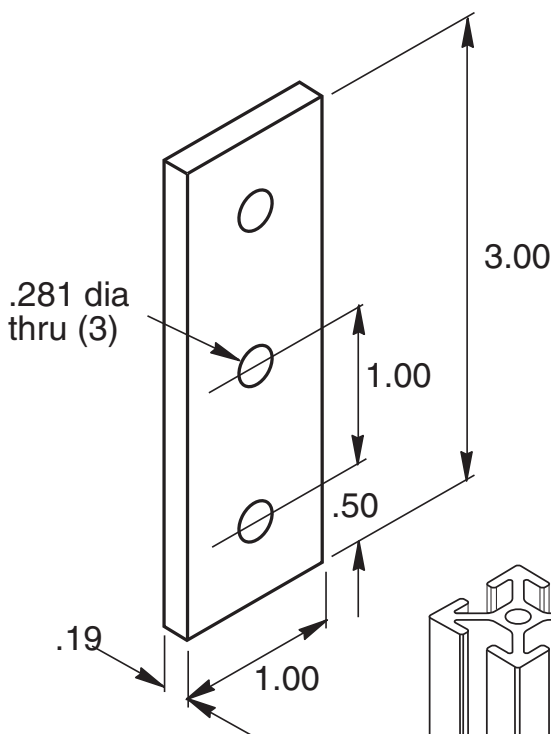
Recommended
Hardware
(2) 11-231 BHCS
(2) 11-210 T-nut



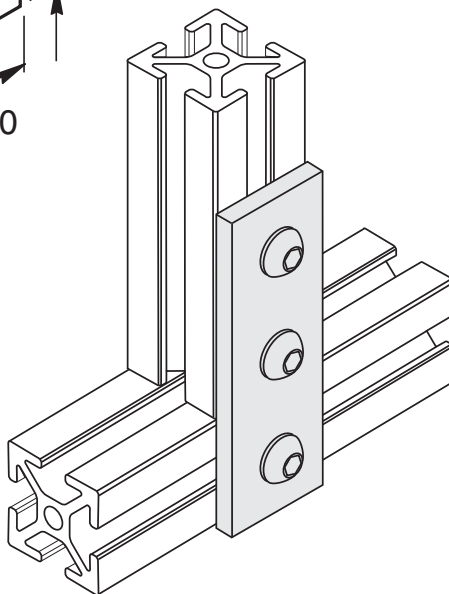
Material - Aluminum

1/4" SLOTS

Clear Anodized
Flat Black Powder Coat

11-23
11-BLK-23


**Recommended
Hardware**
(3) 11-231 BHCS
(3) 11-210 T-nut


1/4" SLOTS

Material - Aluminum

11-22

.281 dia.
thru (4)

4.00

1.00

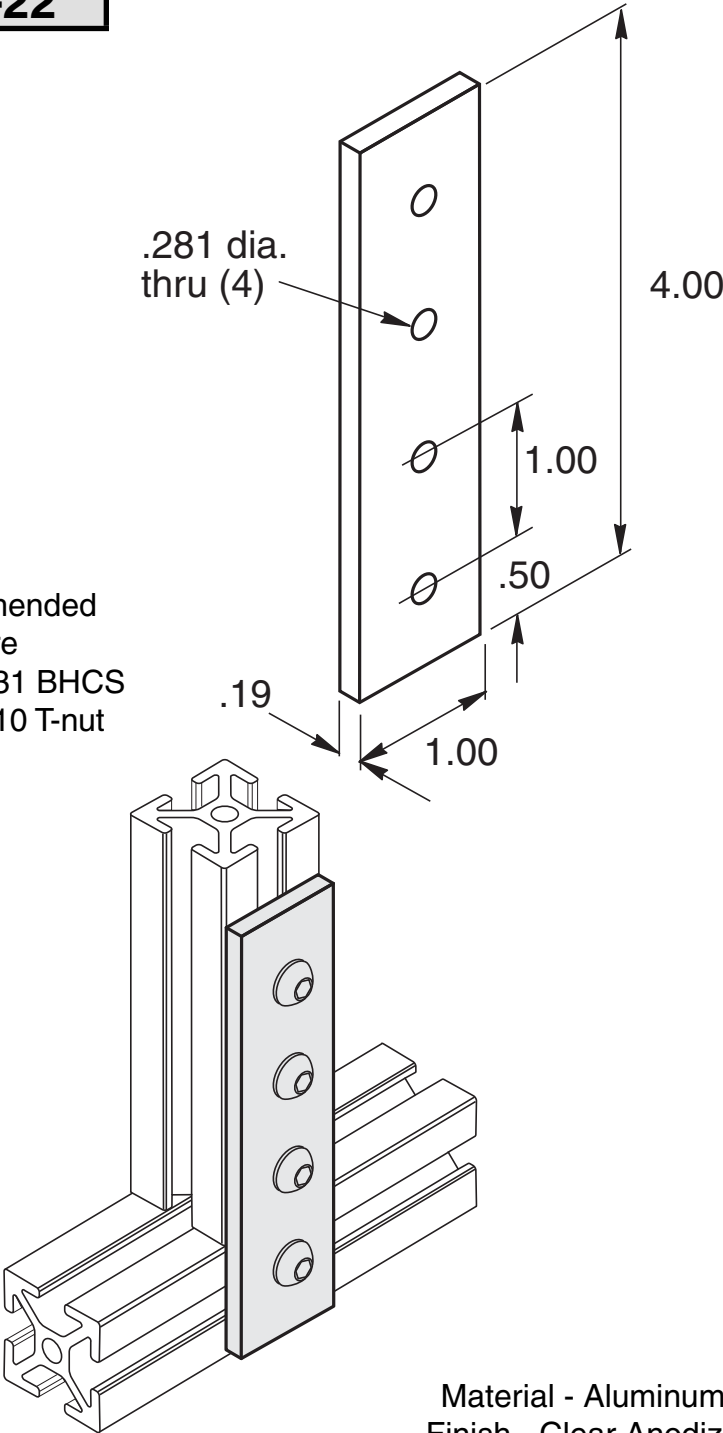
.50

.19

1.00

Recommended
Hardware
(4) 11-231 BHCS
(4) 11-210 T-nut

1/4" SLOTS

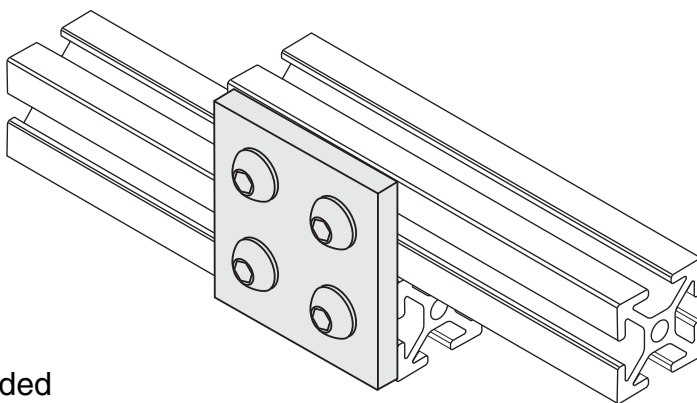
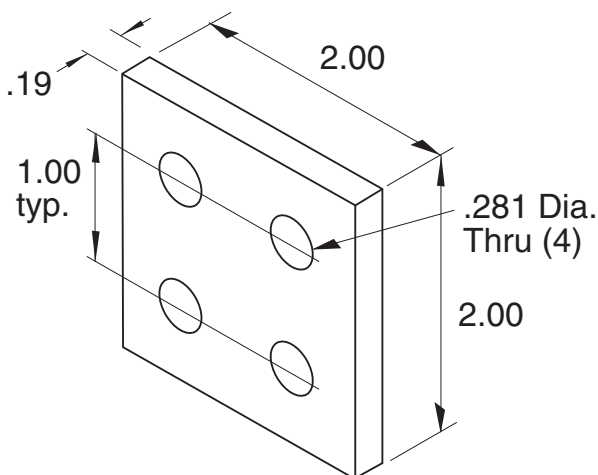


Material - Aluminum
Finish - Clear Anodize

Clear Anodized
Flat Black Powder Coat

11-39

11-BLK-39

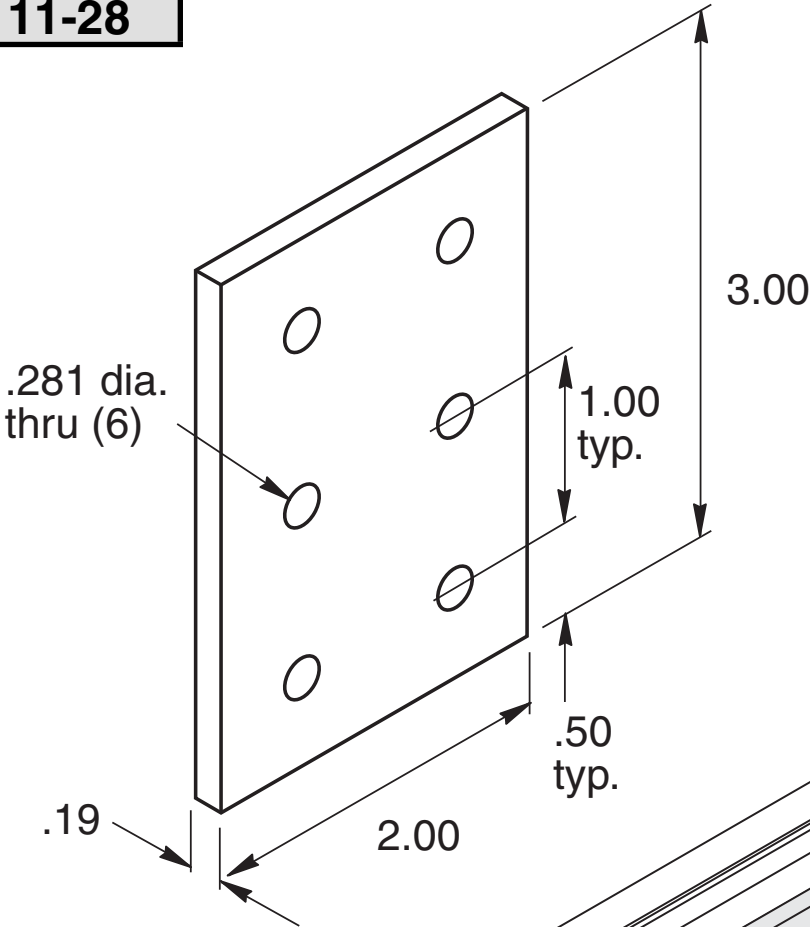


**Recommended
Hardware**
(4) 11-231 BHCS
(4) 11-210 T-nut

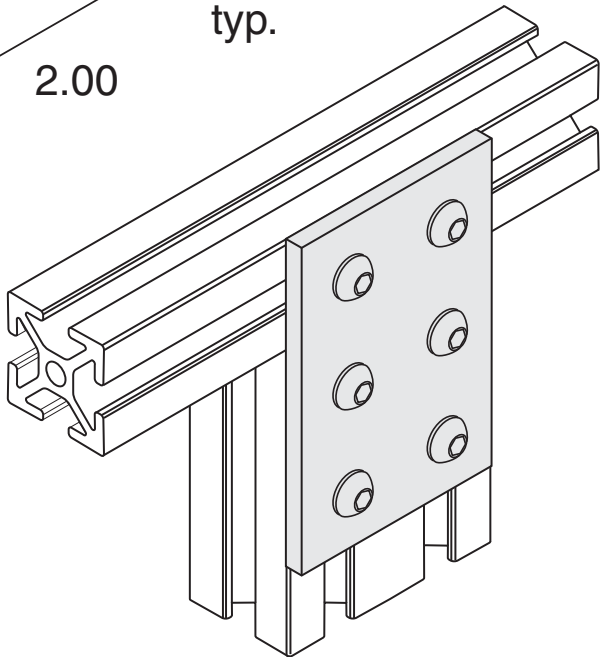
1/4" SLOTS

Material - Aluminum

11-28

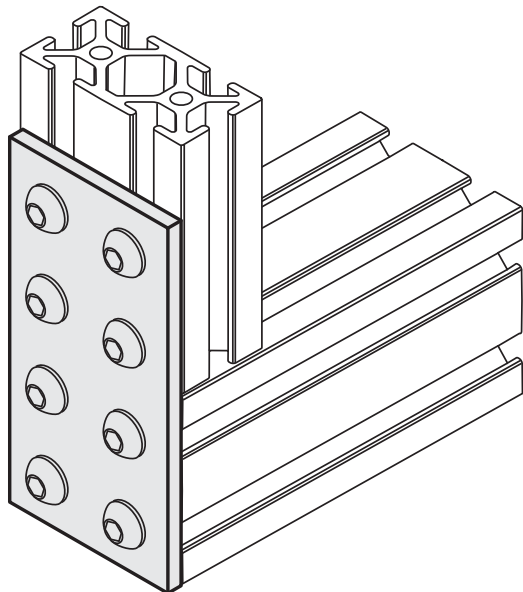
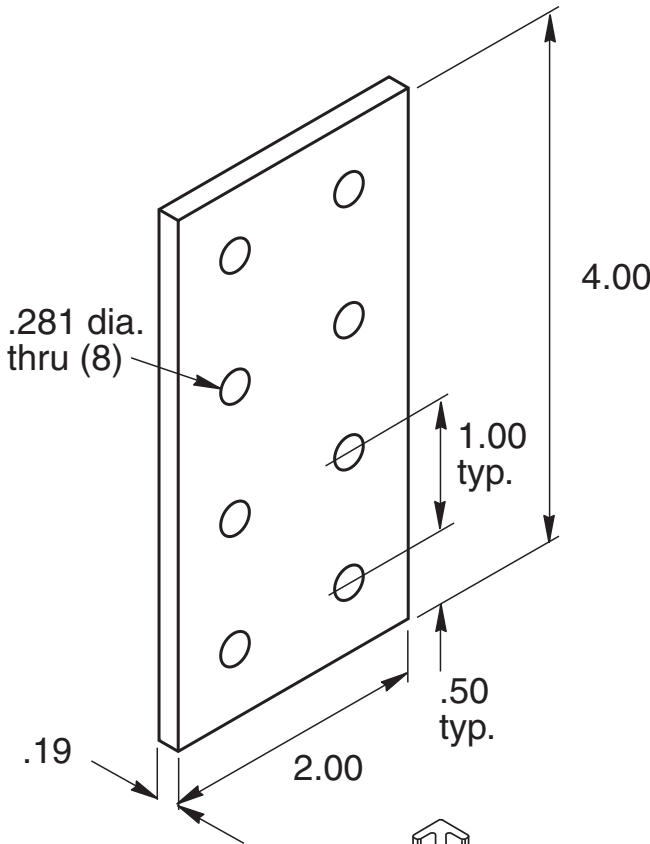


1/4" SLOTS



Recommended
Hardware
(6) 11-231 BHCS
(6) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

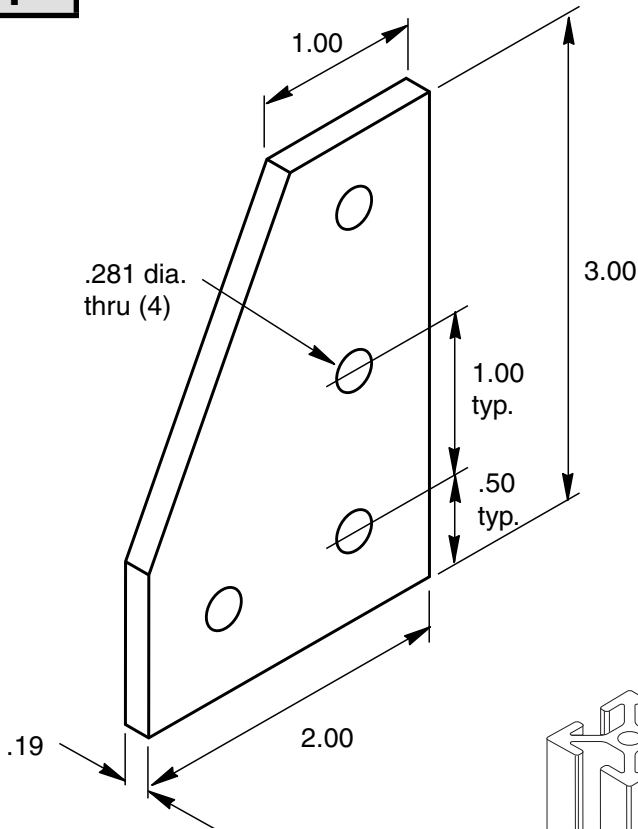


1/4" SLOTS

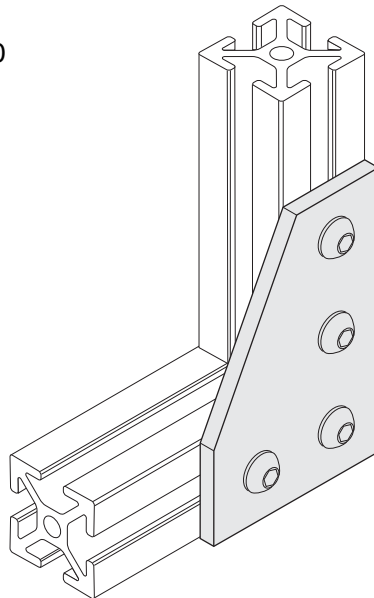
**Recommended
Hardware**
(8) 11-231 BHCS
(8) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

11-41



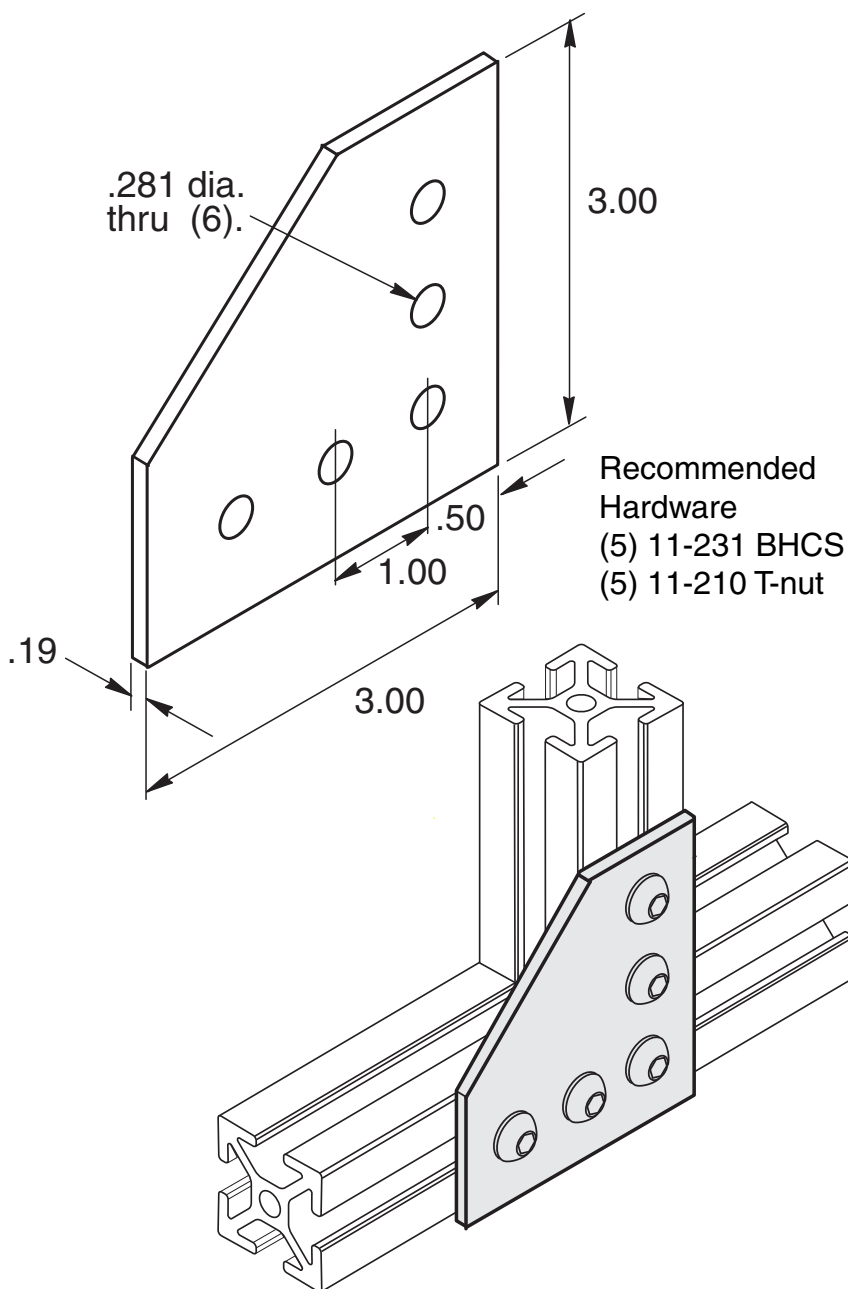
Recommended
Hardware
(4) 11-231 BHCS
(4) 11-210 T-nut



Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Clear Anodized
Flat Black Powder Coat

11-20
11-BLK-20


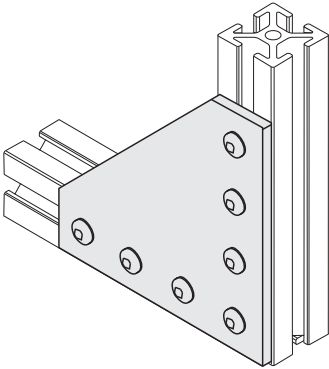
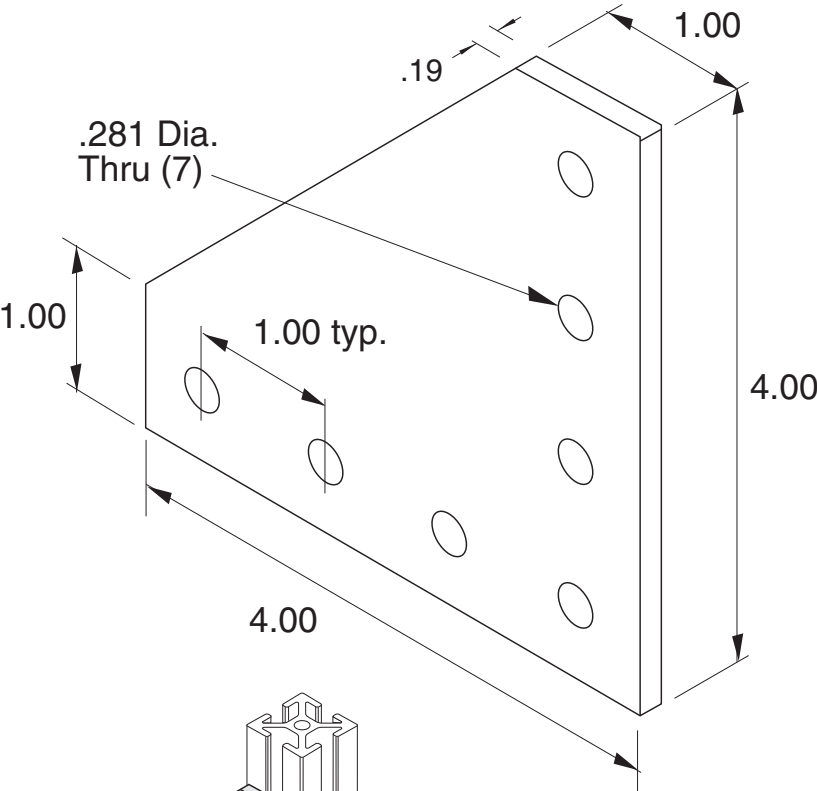
Material - Aluminum

Joining Plate



11-42
11-BLK-42

Clear Anodized
Flat Black Powder Coat

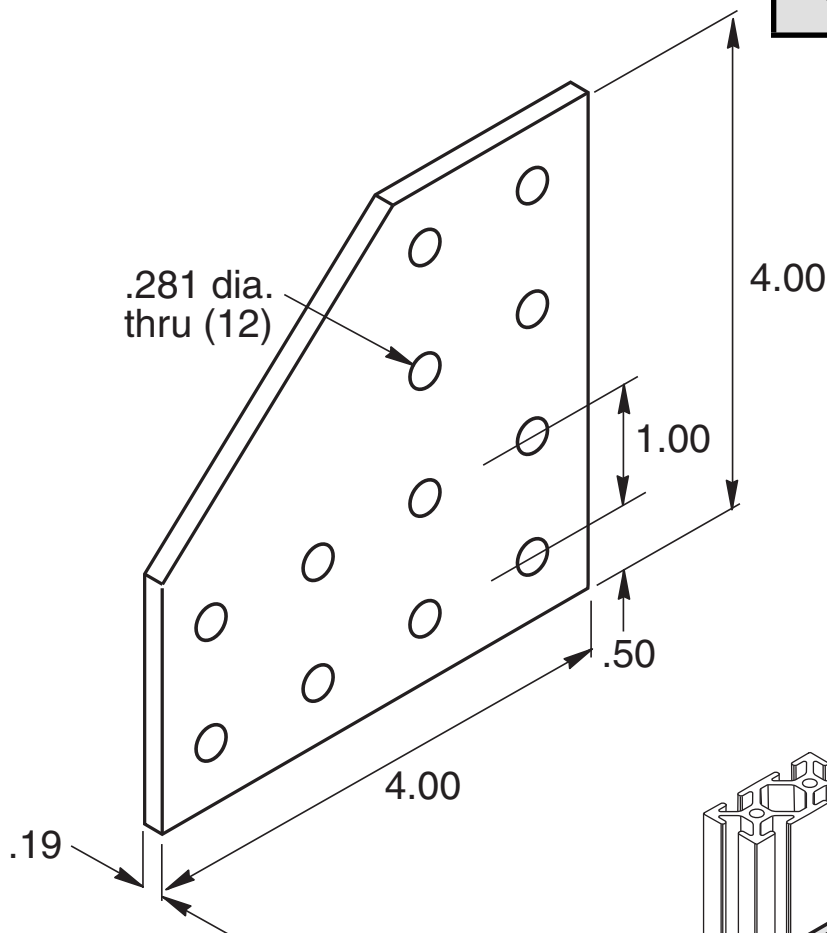


Recommended
Hardware
(7) 11-231 BHCS
(7) 11-210 T-nut

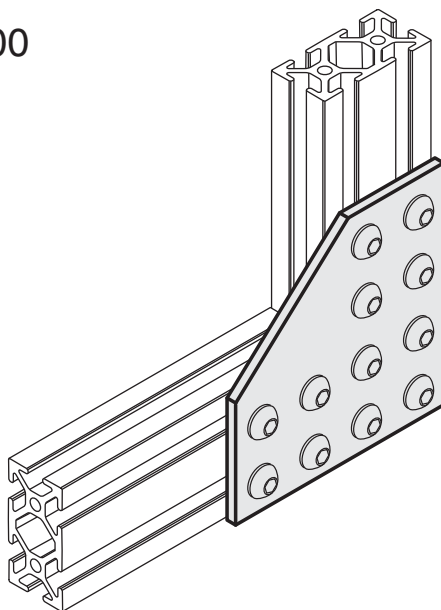
Material - Aluminum

1/4" SLOTS

11-25



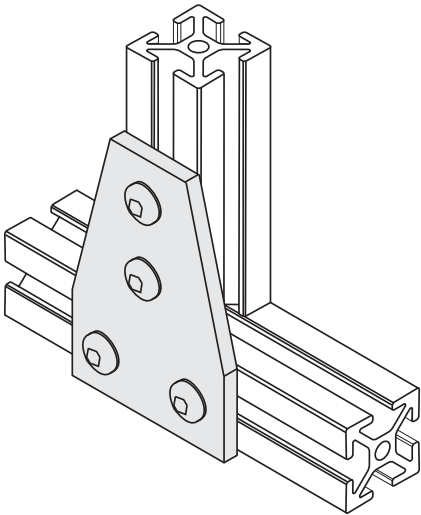
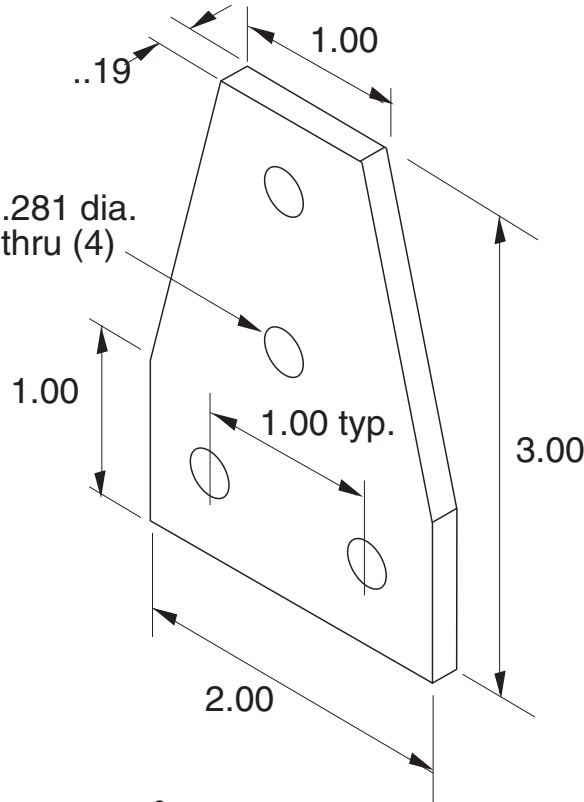
Recommended
Hardware
(12) 11-231 BHCS
(12) 11-210 T-nut



1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

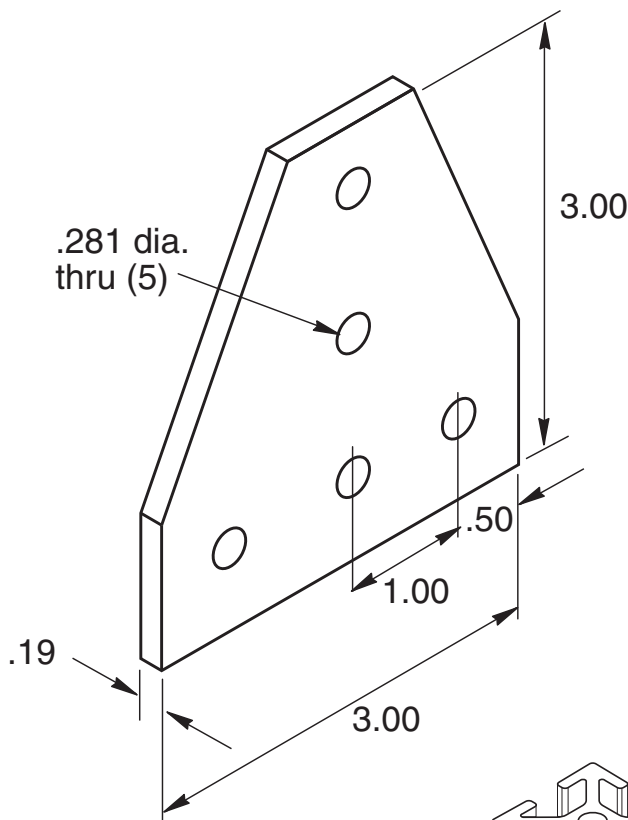
11-44



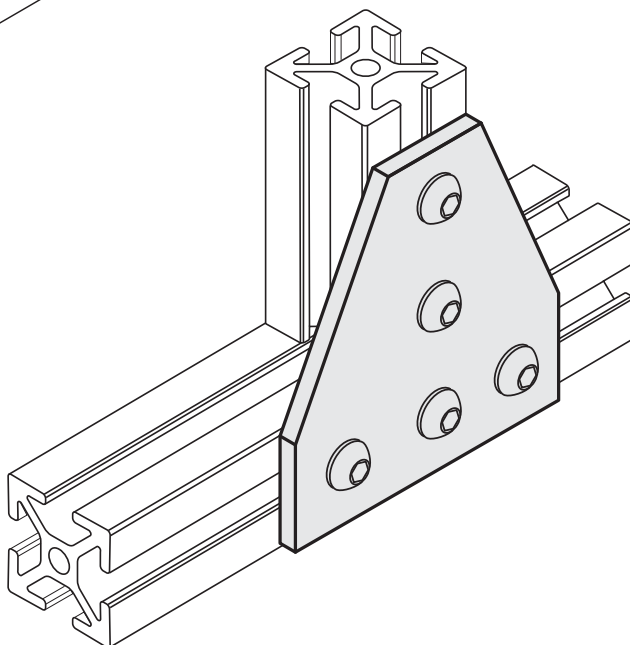
Recommended
Hardware
(4) 11-231 BHCS
(4) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



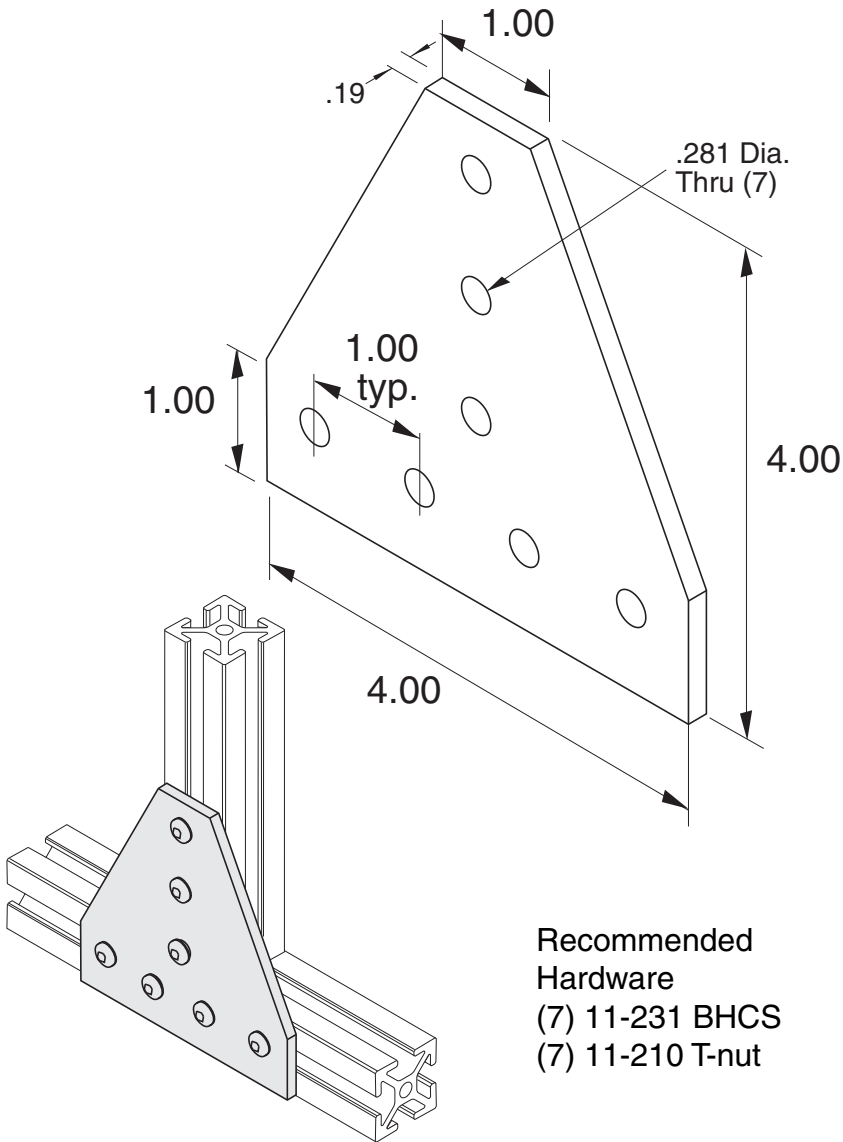
Recommended
Hardware
(5) 11-231 BHCS
(5) 11-210 T-nut



1/4" SLOTS

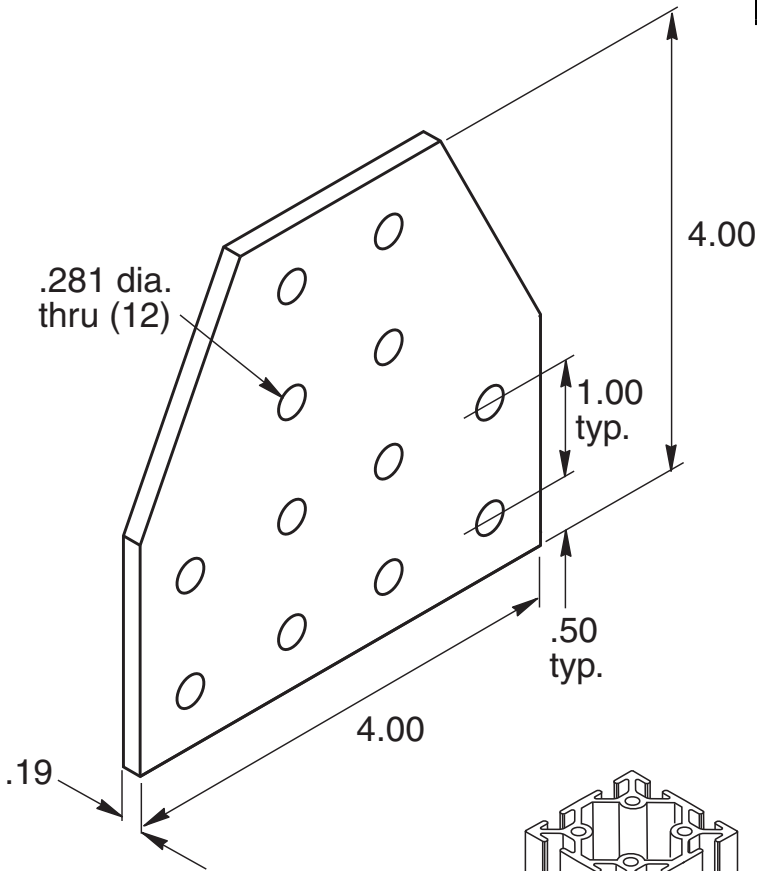
Material - Aluminum
Finish - Clear Anodize

11-43

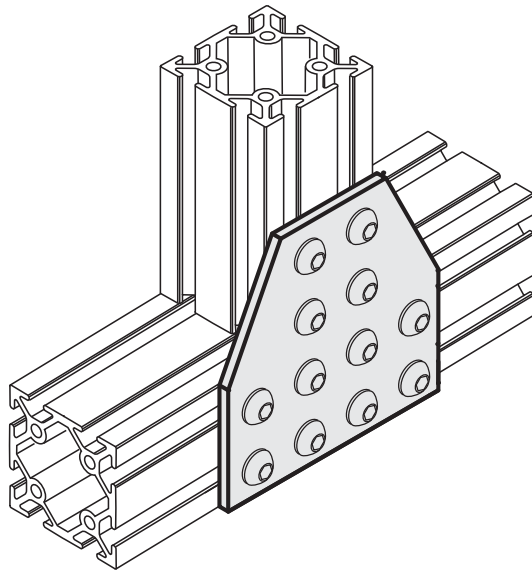


Recommended
Hardware
(7) 11-231 BHCS
(7) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize



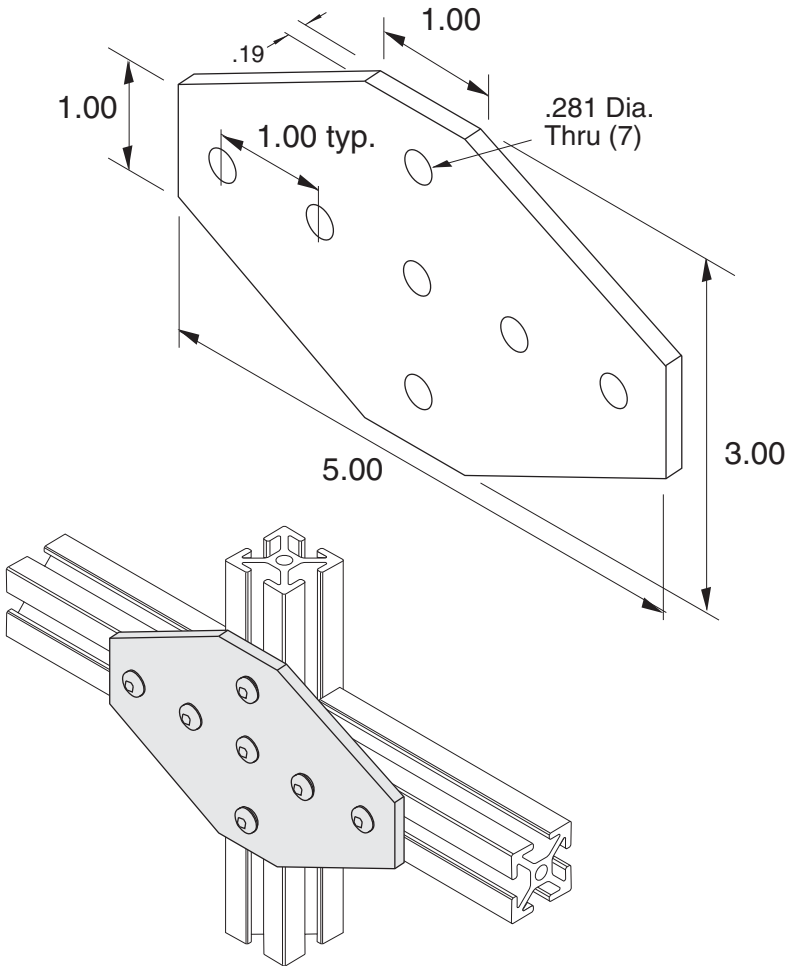
Recommended
Hardware
(12) 11-231 BHCS
(12) 11-210 T-nut



1/4" SLOTS

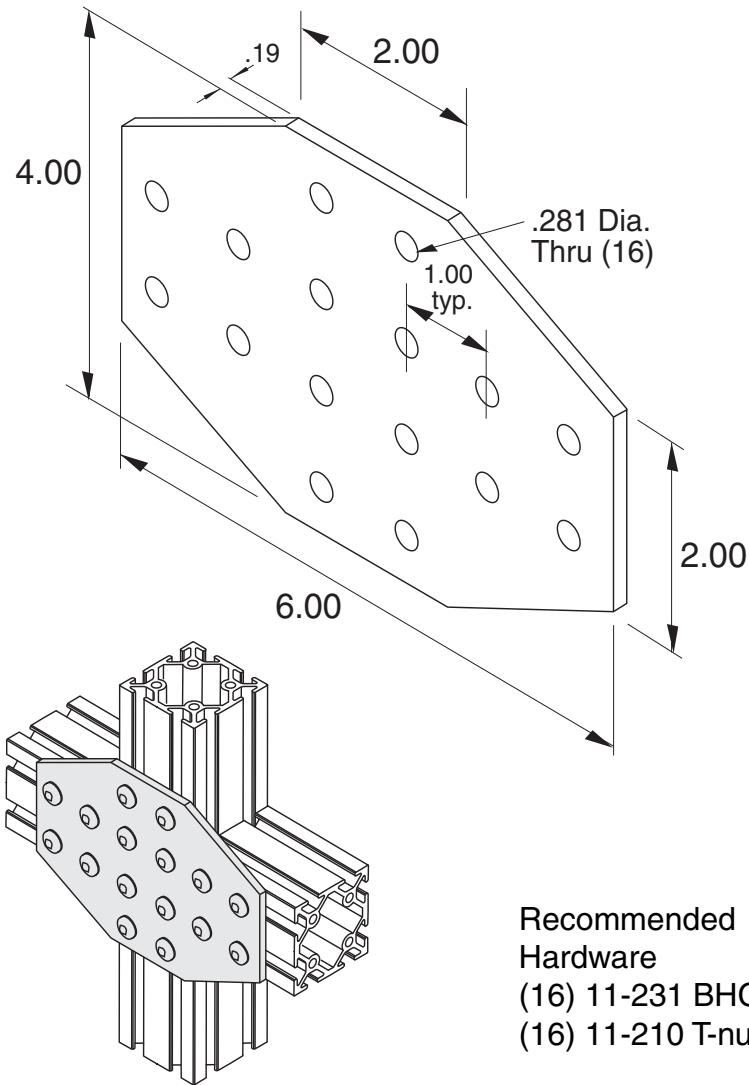
Material - Aluminum
Finish - Clear Anodize

11-51



Recommended
Hardware
(7) 11-231 BHCS
(7) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

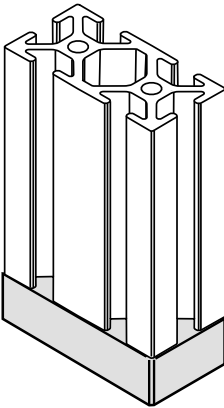


**Recommended
Hardware**
(16) 11-231 BHCS
(16) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

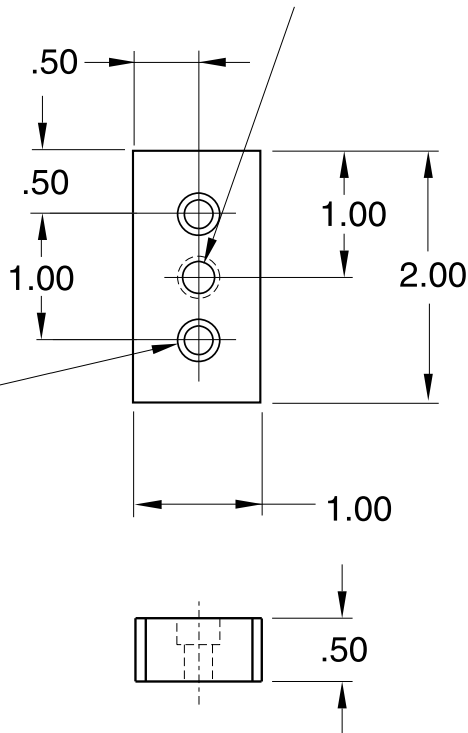
1/4" SLOTS

11-45



11-45A	3/8-16 UNC thru
11-45B	1/2-13 UNC thru
11-45C	1/4-20 UNC thru
11-45D	5/16-18 UNC thru

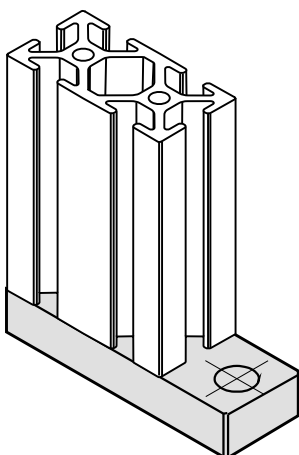
Drilled & C'Bored
for 1/4-20 SHCS
(2) plc's



1/4" SLOTS

Recommended
Hardware
(2) 11-223 SHCS

Material - Aluminum
Finish - Clear Anodize



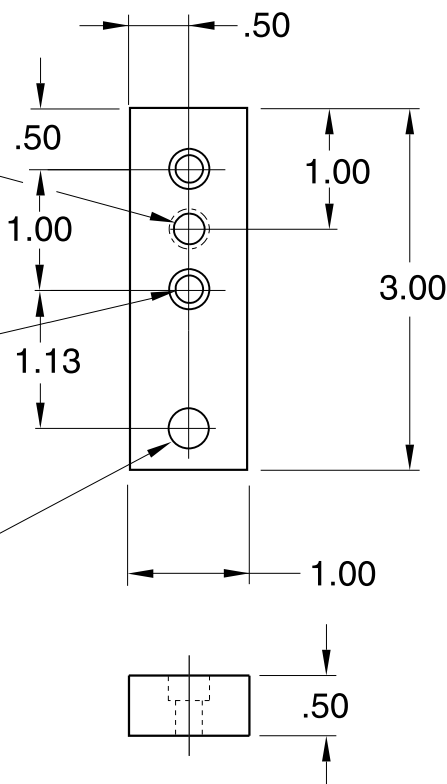
11-48A 3/8-16 UNC thru

11-48B 1/2-13 UNC thru

Drilled & C'Bored
for 1/4-20 SHCS
(2) plcs

7/16" Dia. thru
for floor anchor

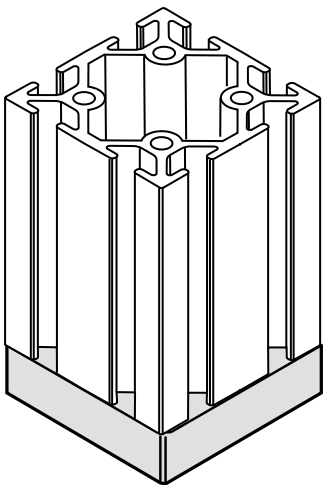
Recommended
Hardware
(2) 11-223 SHCS



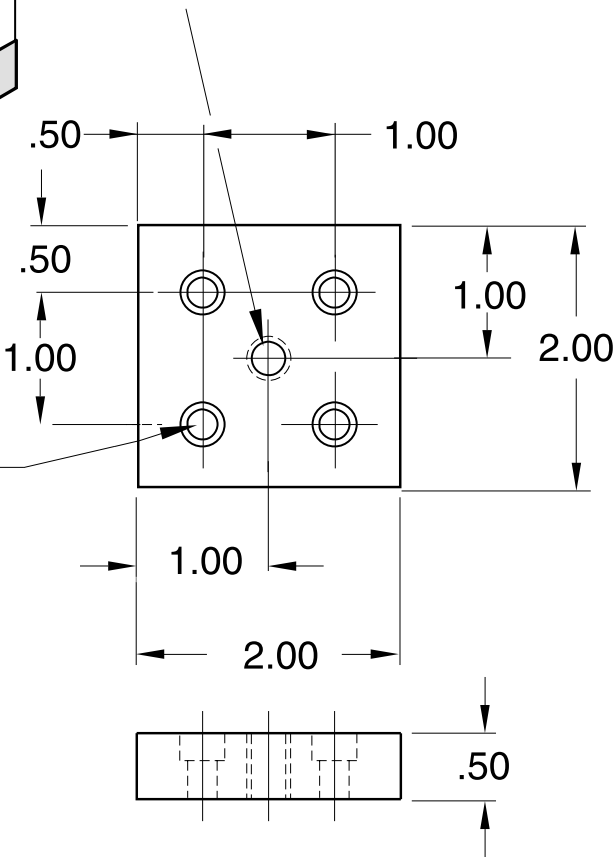
1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

11-46



11-46A 3/8-16 UNC thru
11-46B 1/2-13 UNC thru

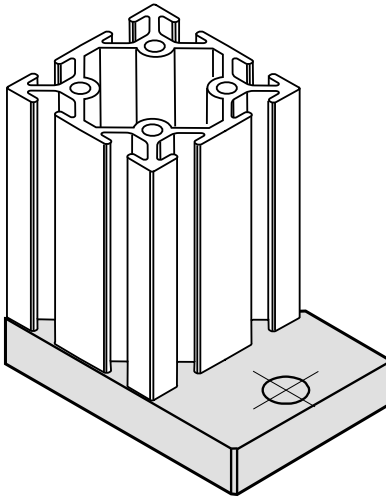


Drilled & C'Bored
for 1/4-20 SHCS
(4) plc's

1/4" SLOTS

Recommended
Hardware
(4) 11-223 SHCS

Material - Aluminum
Finish - Clear Anodize

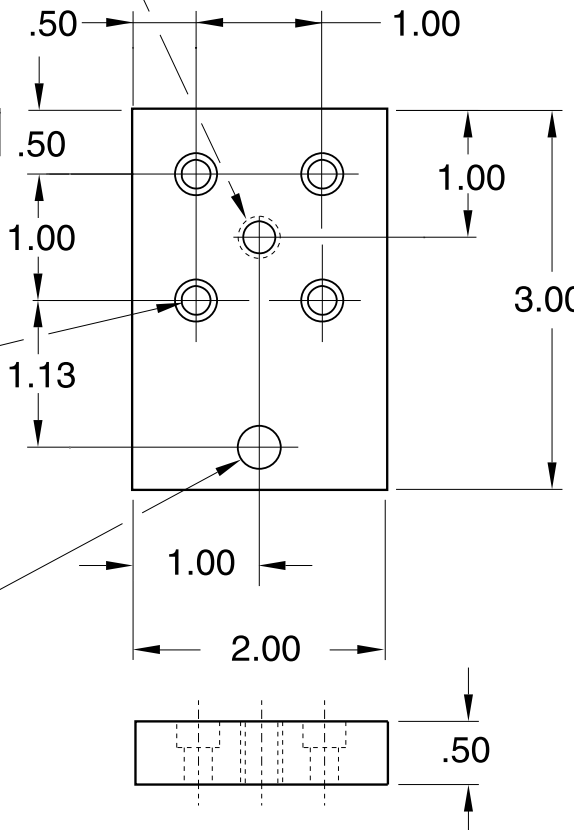


11-47A 3/8-16 UNC thru

11-47B 1/2-13 UNC thru

Drilled & C'Bored
for 1/4-20 SHCS—
(4) plc's

7/16 Dia. thru
for floor anchor



1/4" SLOTS

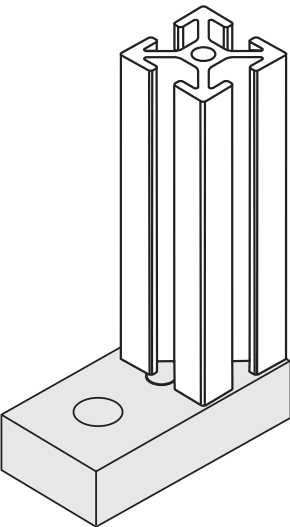
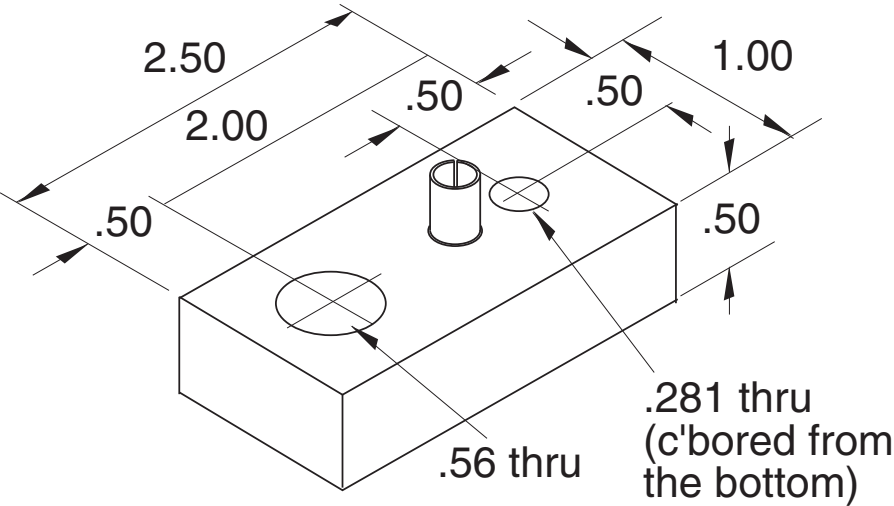
Recommended
Hardware
(4) 11-223 SHCS

Material - Aluminum
Finish - Clear Anodize

Leveling Anchor Plate



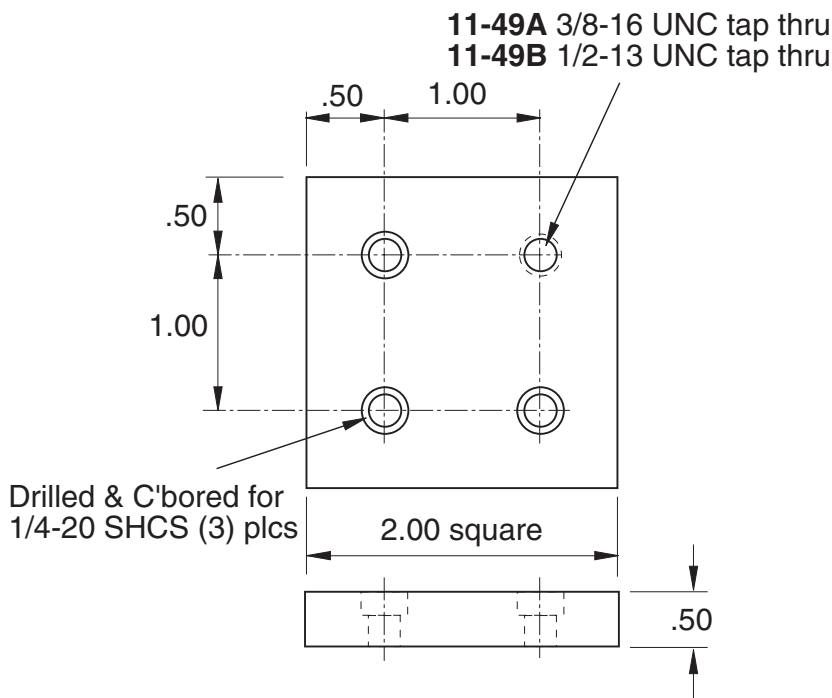
11-66



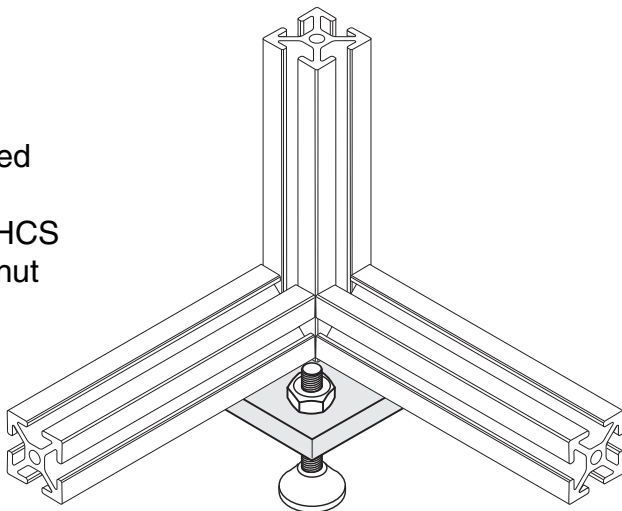
1/4" SLOTS

Recommended
Hardware
(1) 11-223 SHCS

Material - Aluminum
Finish - Clear Anodize



Recommended
Hardware
(3) 11-221 SHCS
(3) 11-210 T-nut

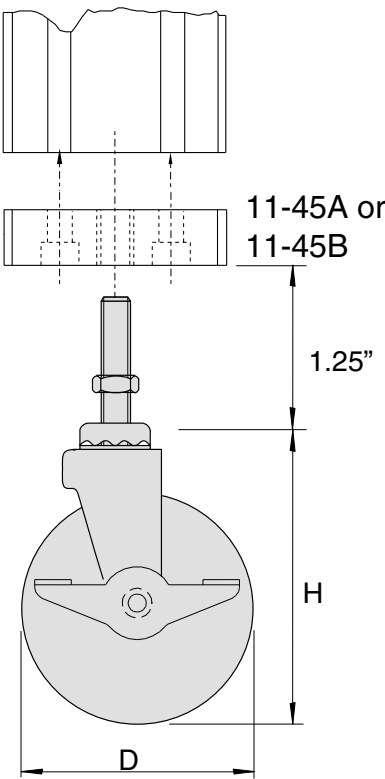


1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

EC-S1
EC-S2
EC-S3

EX-12



EC-S1
EC-S2
EC-S3

Note: Wheel material is hard plastic

Part no.	D	H	Stem	Brake	Max. Load	Wheel Width
EC-S1	2	2 ⁷ / ₈	³ / ₈ -16 x 1 ¹ / ₄	Yes	125 lbs	1.00
EC-S2	3	3 ³ / ₄	³ / ₈ -16 x 1 ¹ / ₄	Yes	250 lbs	1.25
EC-S3	4	5	¹ / ₂ -13 x 1 ¹ / ₂	Yes	300 lbs	1.25

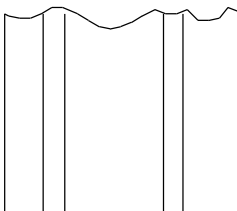
1/4" SLOTS

11-110

11-111

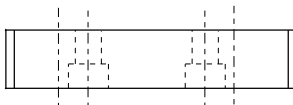
11-112

EX-22 uses caster plate 11-50



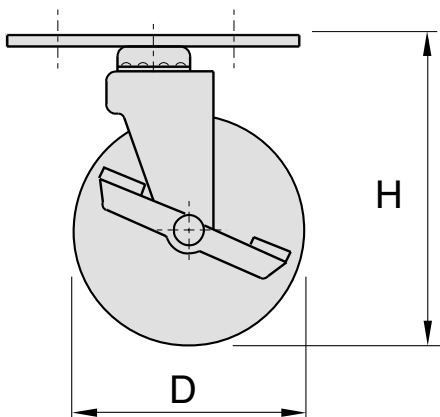
EX-22

The casters have (4) .343
dia mtg. holes on 1 3/4" x
3.00" centers



11-50

Recommended Hardware
(4) EF-12-.5 BHCS



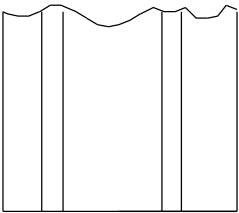
Note: Wheel material is hard plastic

1/4" SLOTS

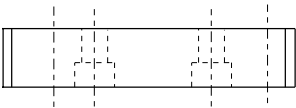
Part no.	D	H	Brake	Max. Load	Wheel Width
11-110	3"	4.13	Yes	250 lbs	1.25
11-111	4"	5.00	Yes	300 lbs	1.25
11-112	5"	6.00	Yes	325 lbs	1.25

11-120
11-121
11-122

EX-22 uses caster plate 11-50



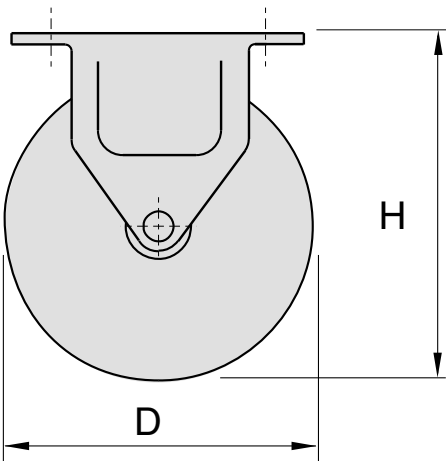
EX-22



11-50

Recommended
Hardware
(4) EF-12-.50 BHCS

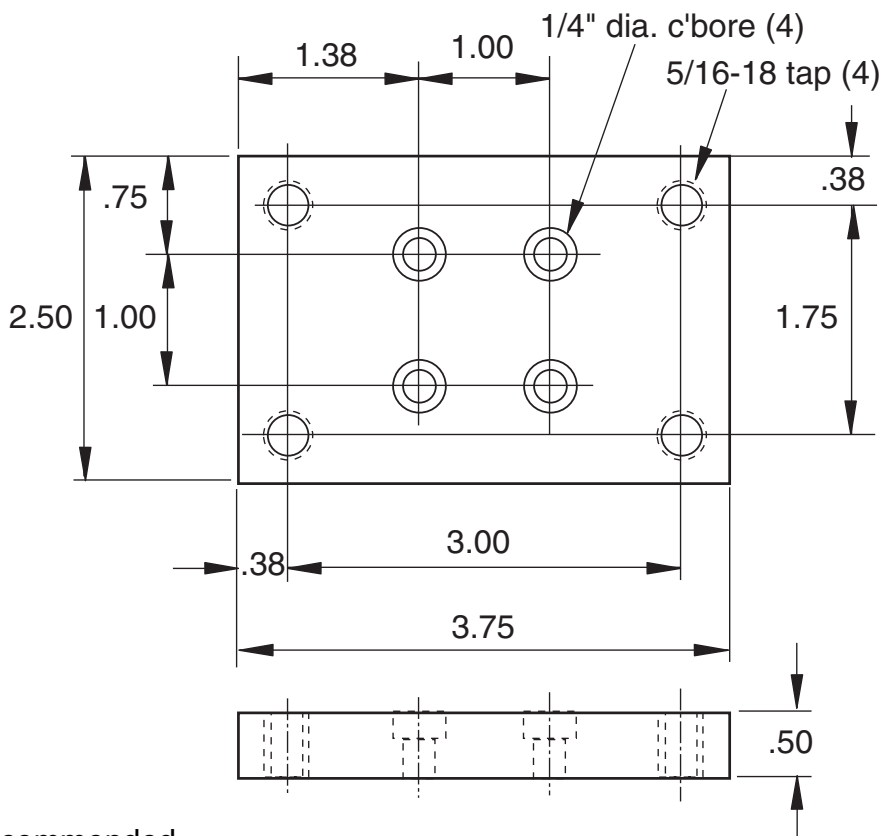
The casters have (4) .343
dia mtg. holes on 1 3/4" x
3.00" centers



Note: Wheel material is hard plastic

Part no.	D	H	Brake	Max. Load	Wheel Width
11-120	3"	4.13	No	250 lbs	1.25
11-121	4"	5.00	No	300 lbs	1.25
11-122	5"	6.00	No	325 lbs	1.25

1/4" SLOTS



**Recommended
Hardware**

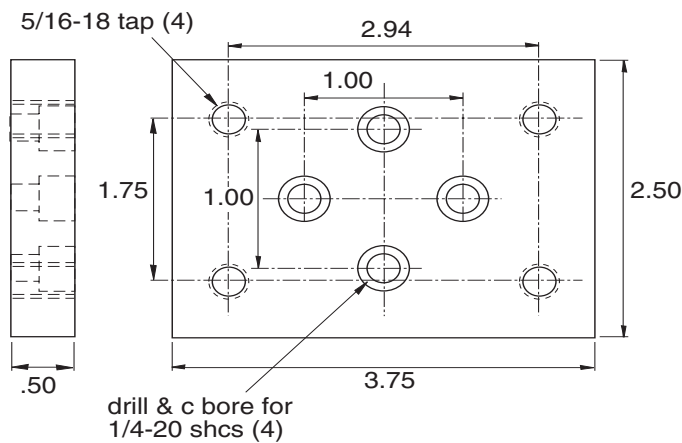
- (4) 11-221 SHCS for extrusion end mounting
or
- (4) 11-223 SHCS for extrusion slot mounting
- (4) 11-210 T-nut

For Casters, See Pages 433 & 434

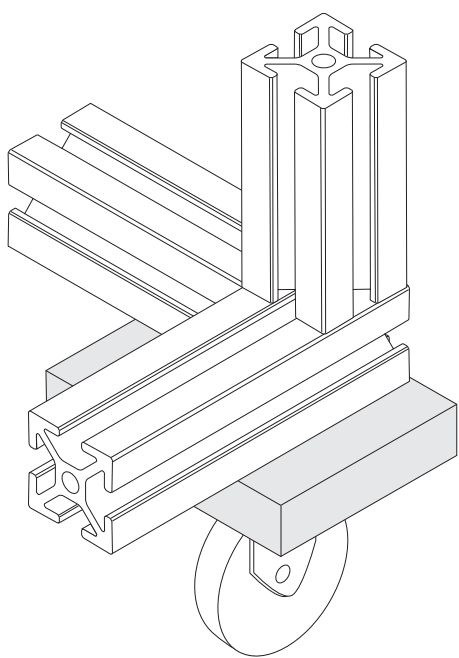
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

11-55

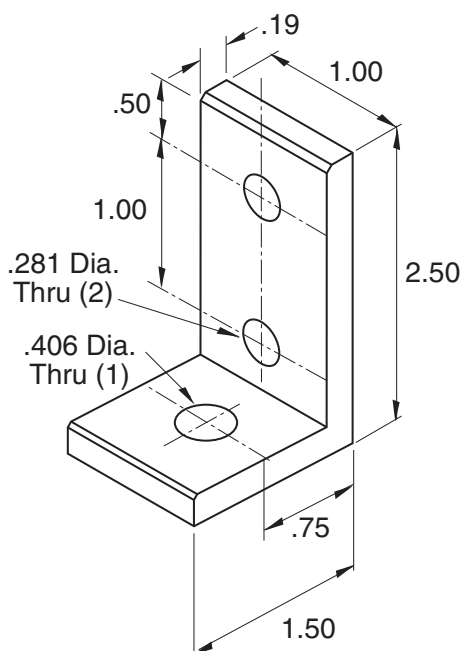


Recommended
Hardware
(4) 11-221 SHCS
(4) 11-210 T-nut



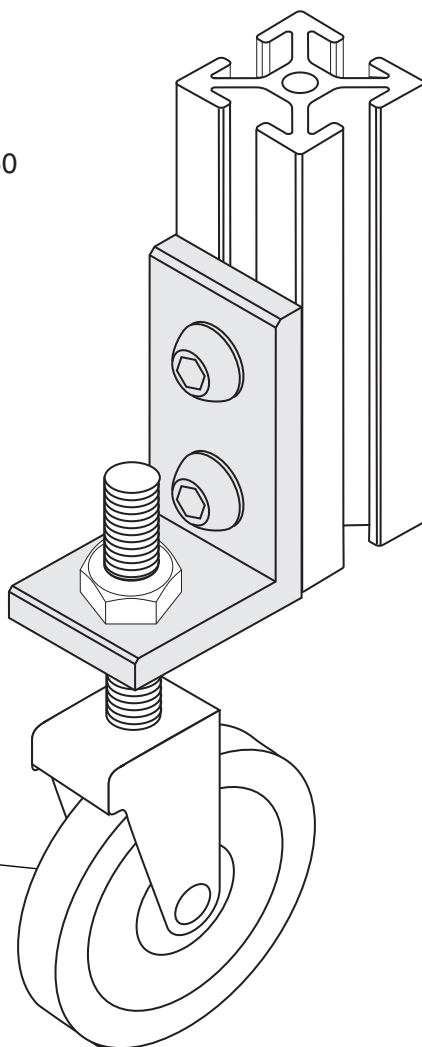
1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize



Recommended
Hardware
(2) 11-221 SHCS
(2) 11-210 T-nut

EC-S1
EC-S2

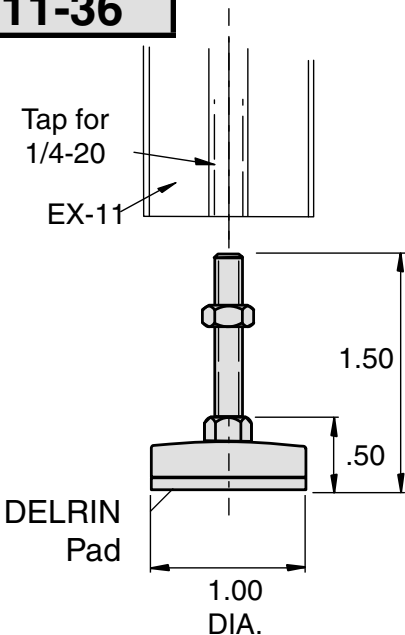


1/4" SLOTS

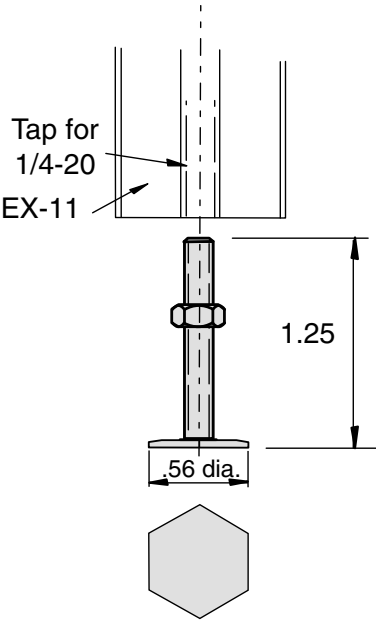
Material - Steel
Finish - Black Powder Coat

11-35

11-36



Load = 100 lbs



Load = 150 lbs

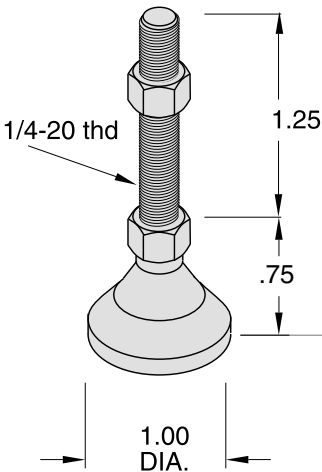
11-35

11-36

Material - Steel

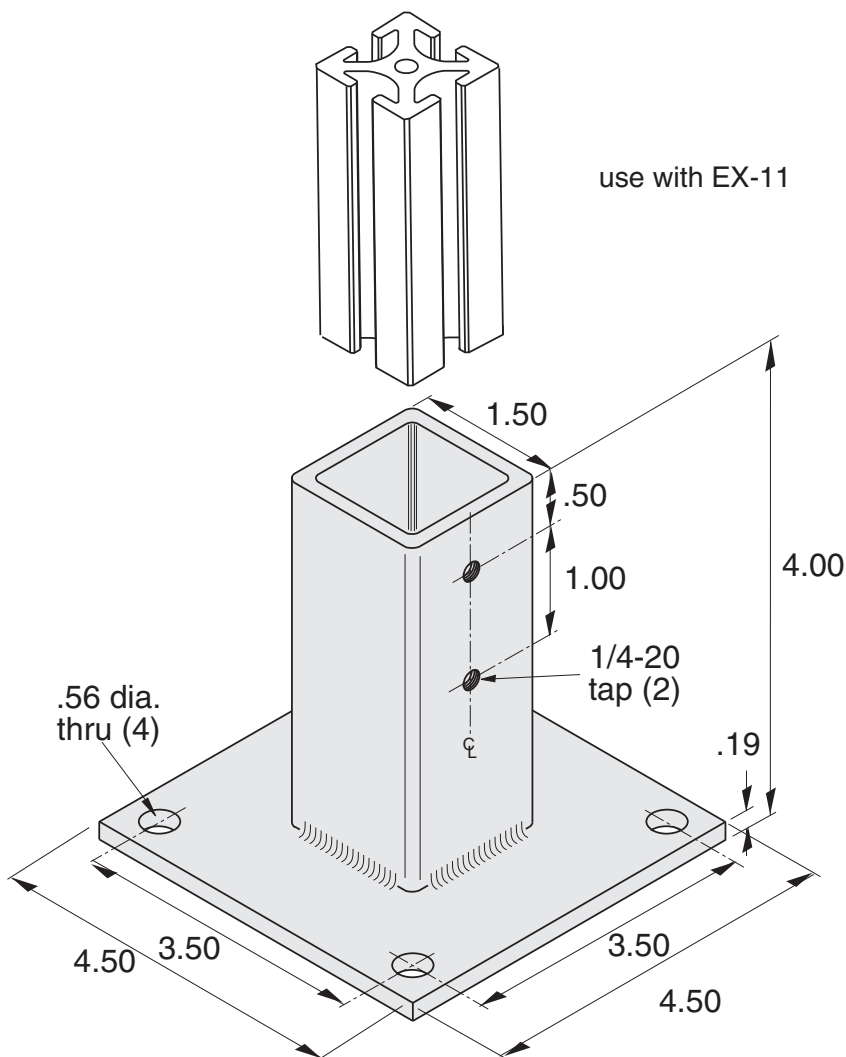
11-52

Deluxe Leg



Load = 2000 lbs

1/4" SLOTS

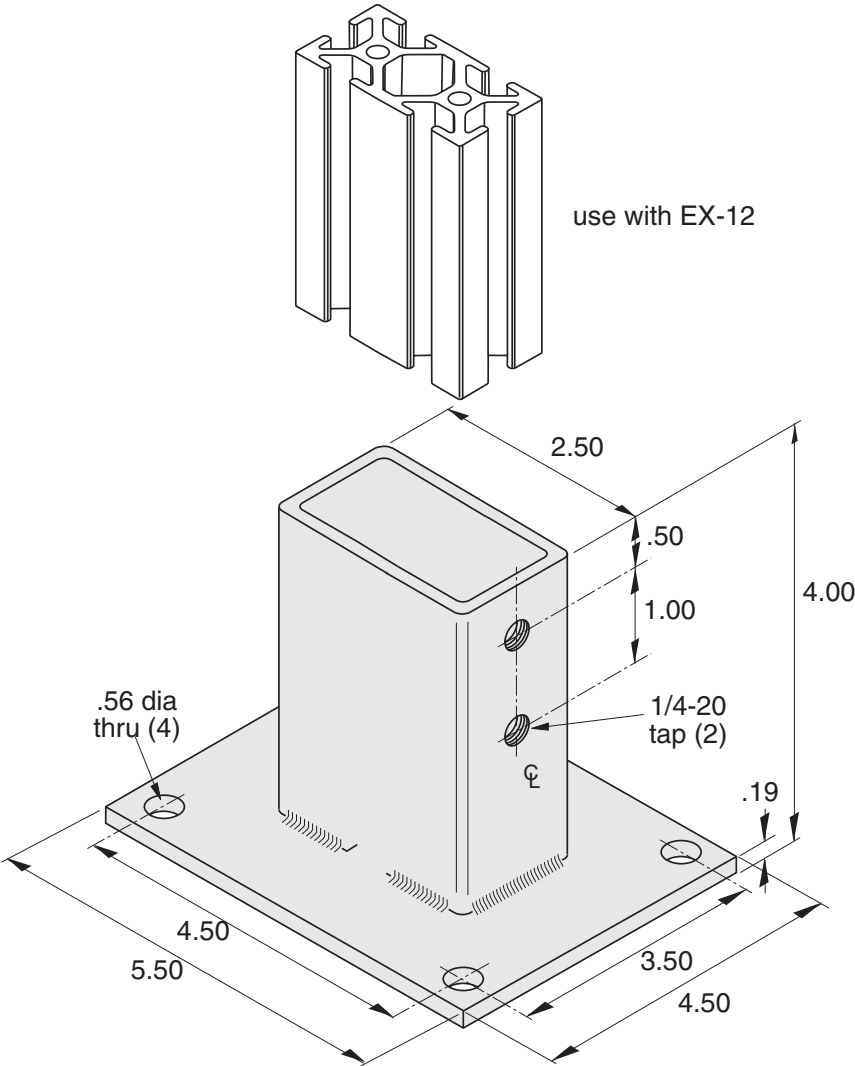


Recommended
Hardware
(2) 11-223 SHCS

Material - Steel
Finish - Black Powder Coat

1/4" SLOTS

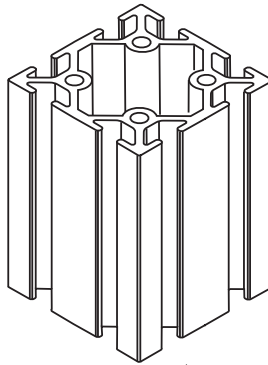
11-71



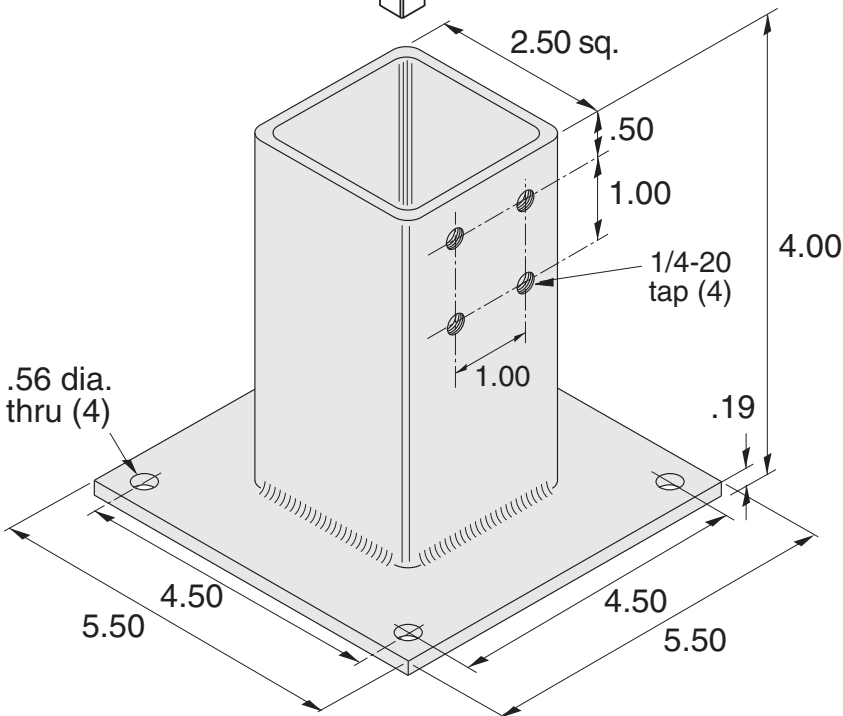
Recommended
Hardware
(2) 11-223 SHCS

Material - Steel
Finish - Black Powder Coat

1/4" SLOTS



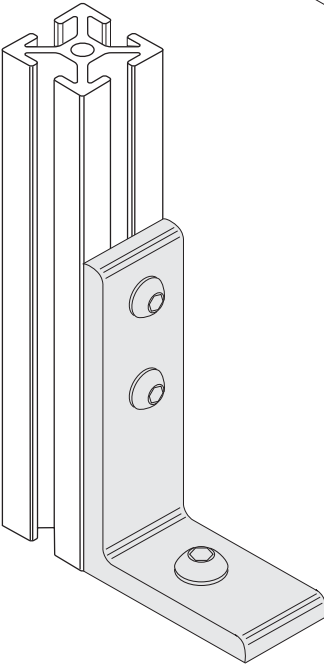
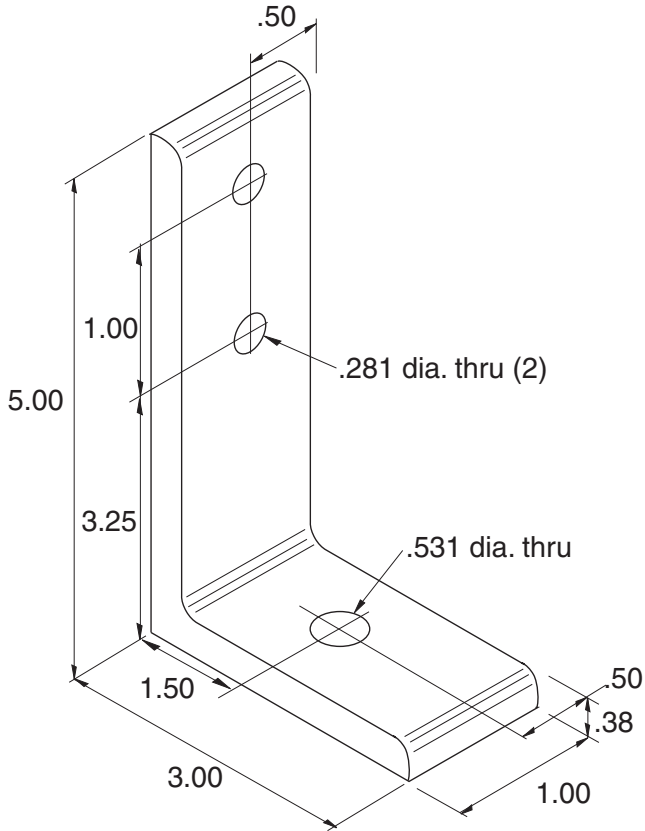
use with
EX-22



Recommended
Hardware
(4) 11-223 SHCS

Material - Steel
Finish - Black Powder Coat

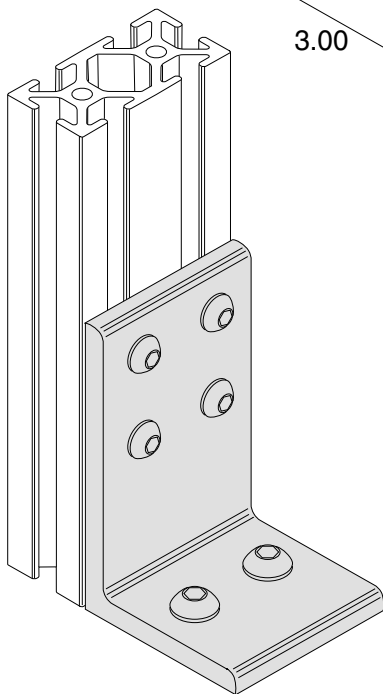
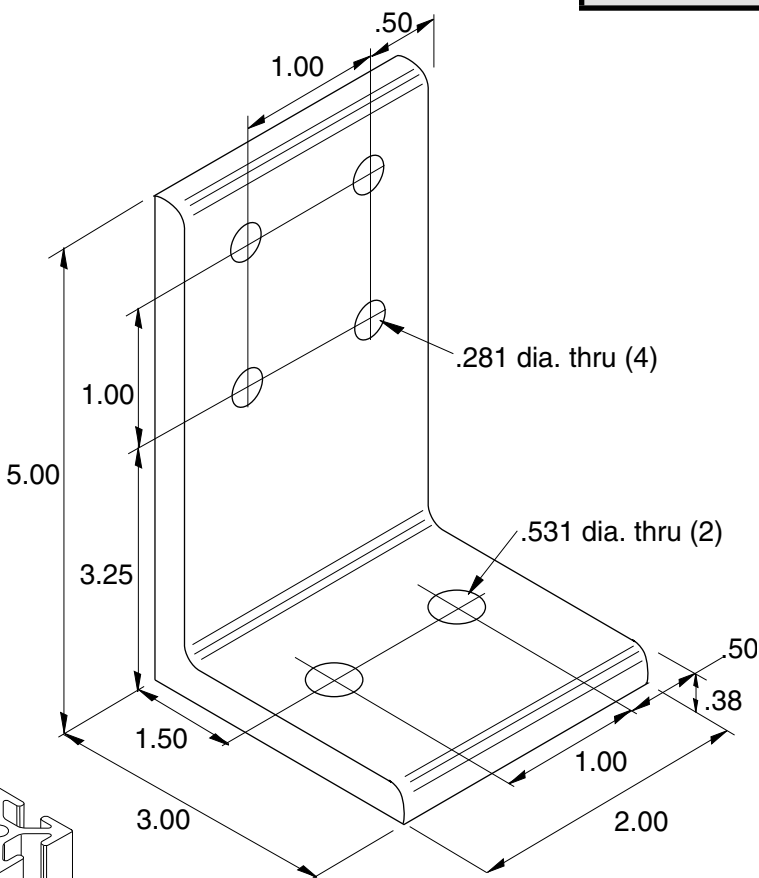
1/4" SLOTS

11-73

Recommended
Hardware
(2) 11-232 BHCS
(2) 11-205 T-nut

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



**Recommended
Hardware**
(4) 11-232 BHCS
(4) 11-205 T-nut

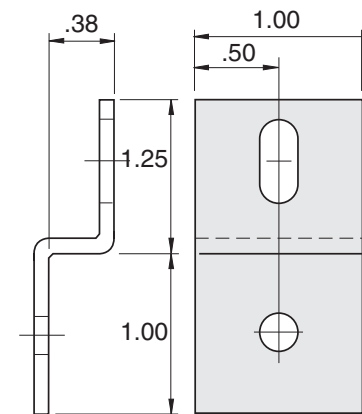
**Material - Aluminum
Finish - Clear Anodize**

1/4" SLOTS

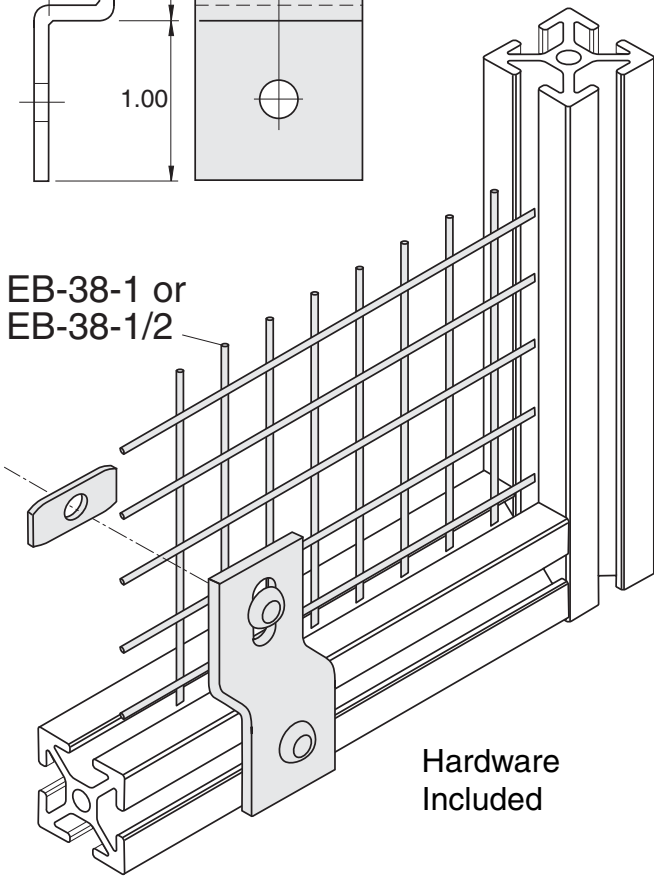
Wire Mesh Bracket (Steel)



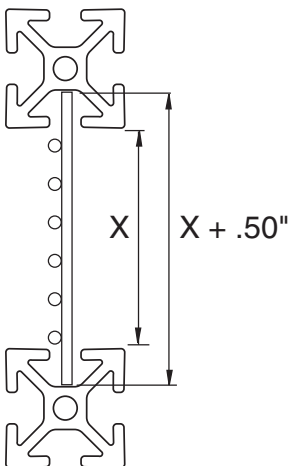
11-30



EB-38-1 or
EB-38-1/2



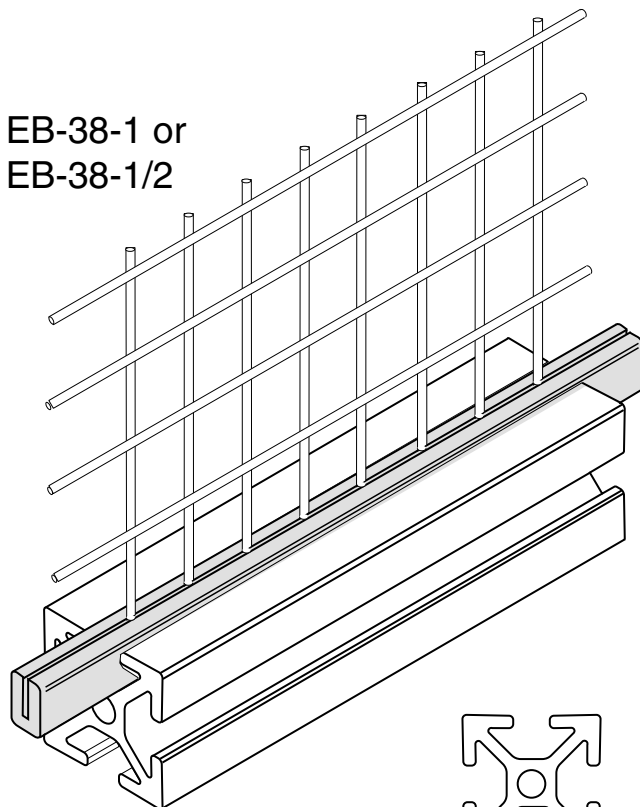
Hardware
Included



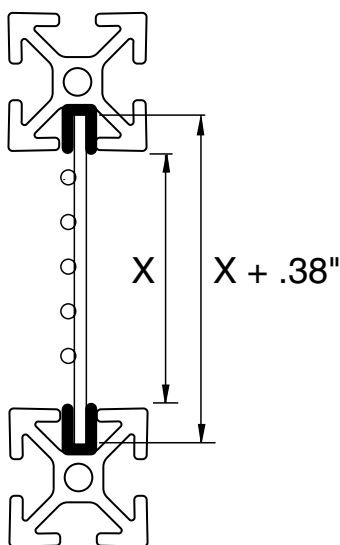
Cut wire
mesh to
 $X + .50''$

Material - Steel
Finish -Black Powder Coat

1/4" SLOTS



Note: Provides snug fit



Cut wire mesh
to $X + .38$ "

1/4" SLOTS

Door Slide (3 track)



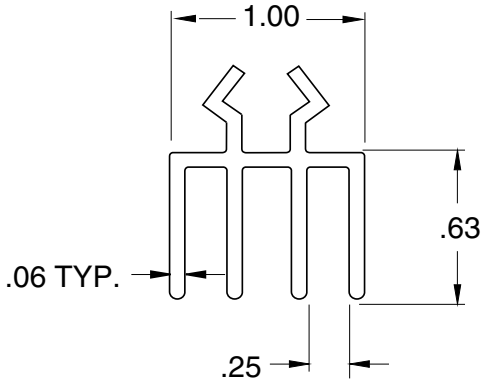
11-32

Upper Door Slide (3 track)

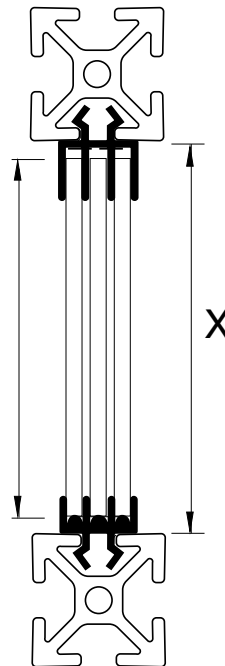
11-33

Lower Door Slide (3 track)

11-32



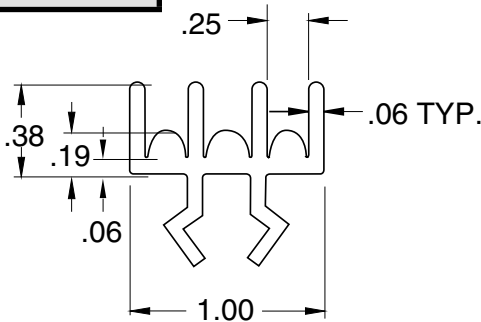
Material - Rigid PVC



cut panels
to X - 1/2"

Sold in 6 foot lengths

11-33

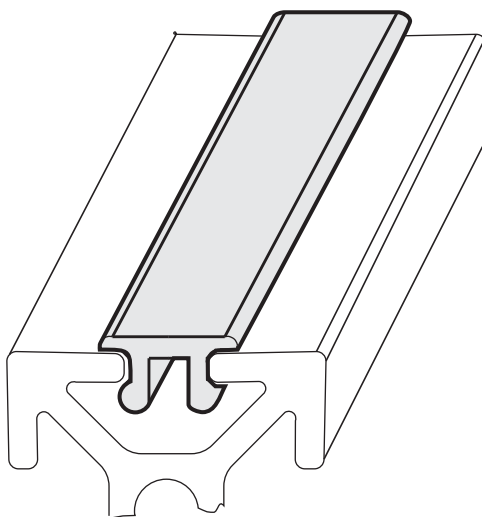


Cut Panels
to X - 1/2"

Sold in 6 foot lengths

Material - Rigid PVC

1/4" SLOTS

11-245**11-246****11-247****11-244****Part No.**

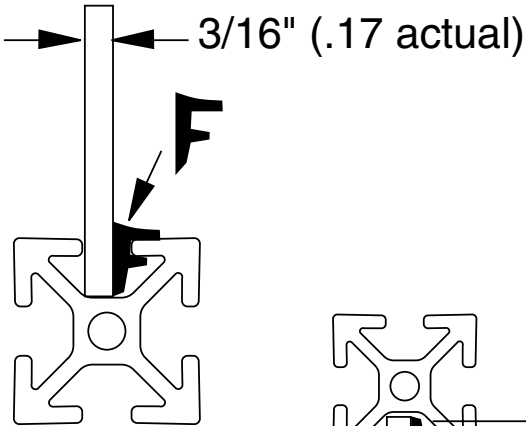
11-244	Safety Orange
11-245	Gray
11-246	Black
11-247	Yellow

Sold in 6 ft.lengths

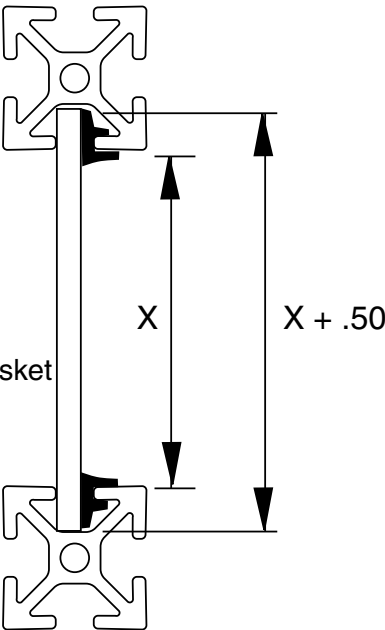
Material - Rigid PVC

1/4" SLOTS

11-295



Note: Install panel, then gasket



Cut panel to $X + .50"$

1/4" SLOTS

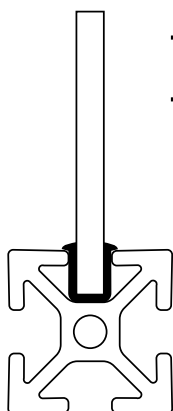
Material - Black Flexible PVC

3/16" for .170 thick panels

11-298

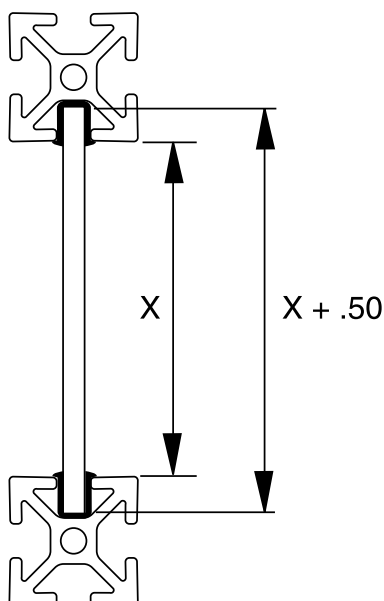
1/8" for .125 thick panels

11-299

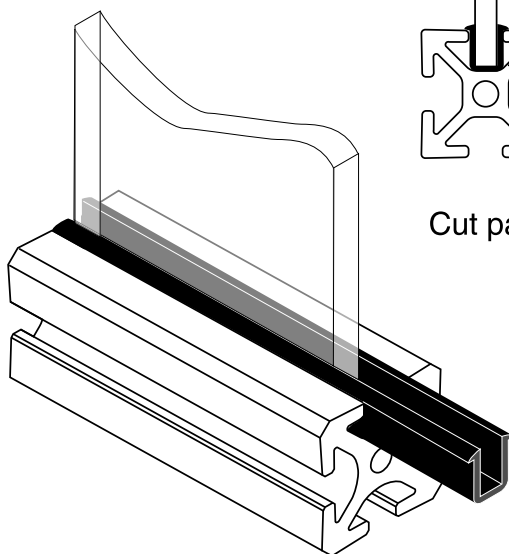


11-298 for .170 thick panels

11-299 for .125 thick panels



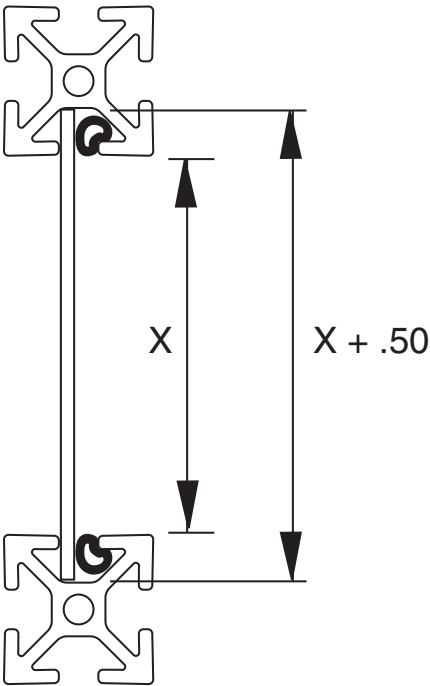
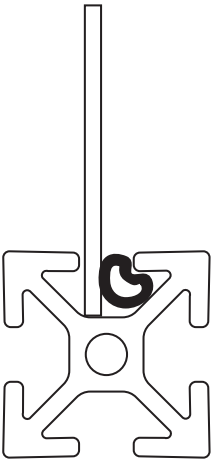
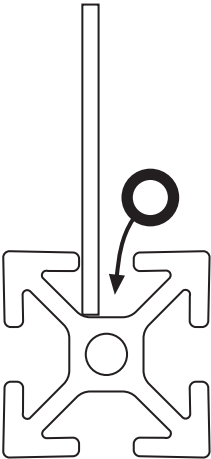
Cut panel to $X + .50$ "



Material:
Flexible Vinyl
(Gray)

1/4" SLOTS

11-296



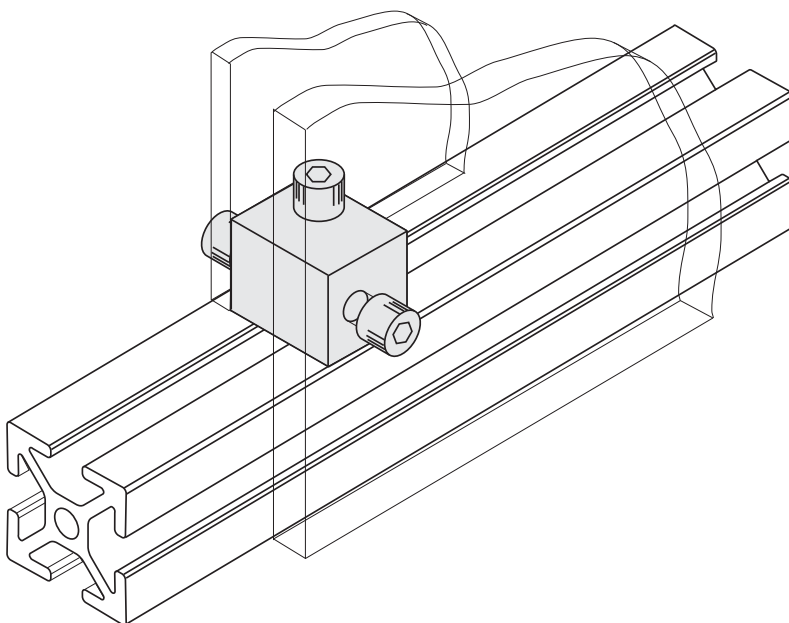
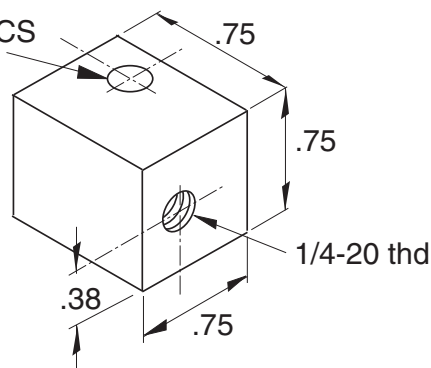
Cut panel to $X + .50"$

Material	Thickness
16 gage	.060
14 gage	.075
13 gage	.090
12 gage	.105

Material - Rubber (Black)

1/4" SLOTS

Clearance for
1/4-20 x 1.0 SHCS

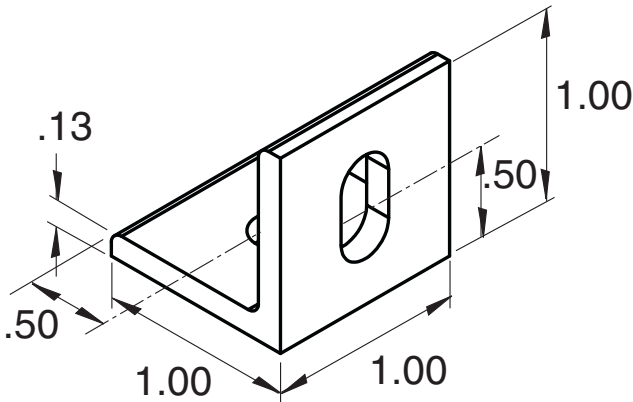


Requires

- (1) 11-224 SHCS
- (1) 11-210 T-nut
- (1) 11-231 BHCS

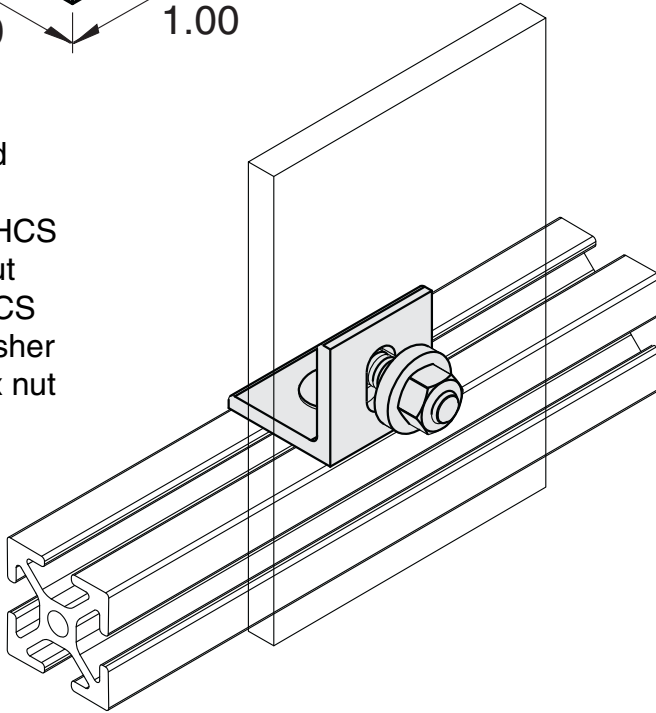
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

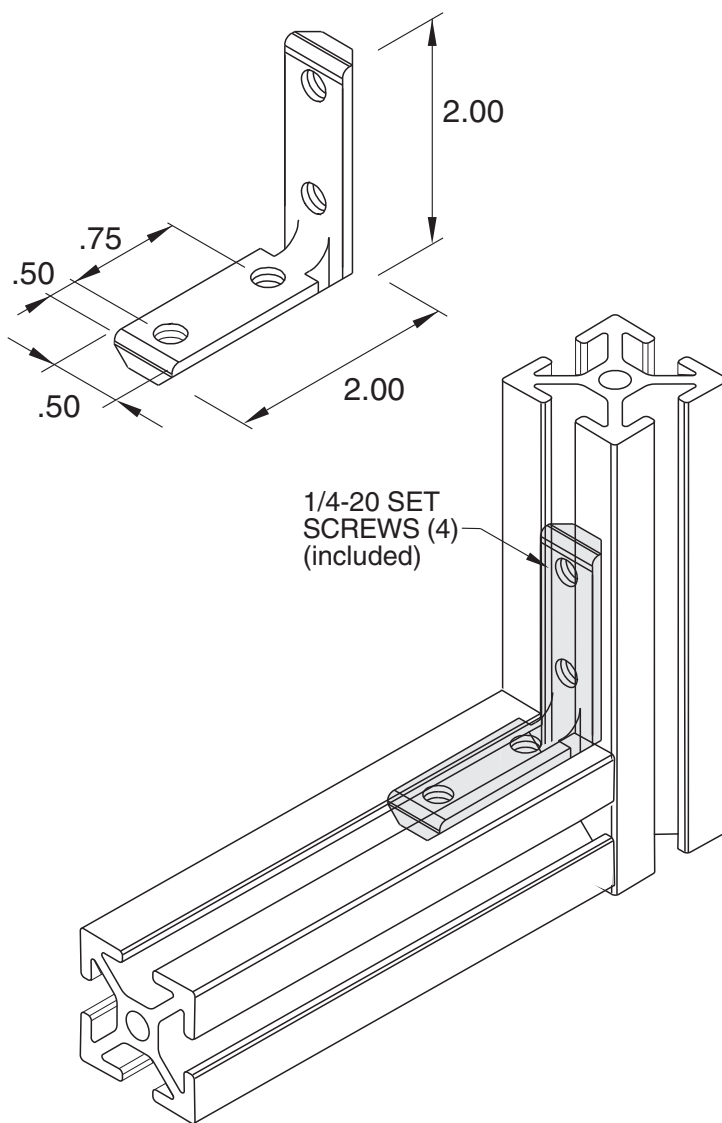
11-275

Recommended Hardware

- (1) 11-230 BSHCS
- (1) 11-210 T-nut
- (1) 11-233 BHCS
- (1) 11-240 Washer
- (1) 11-241 Hex nut

**1/4" SLOTS**

Material - Aluminum
Finish - Clear Anodized

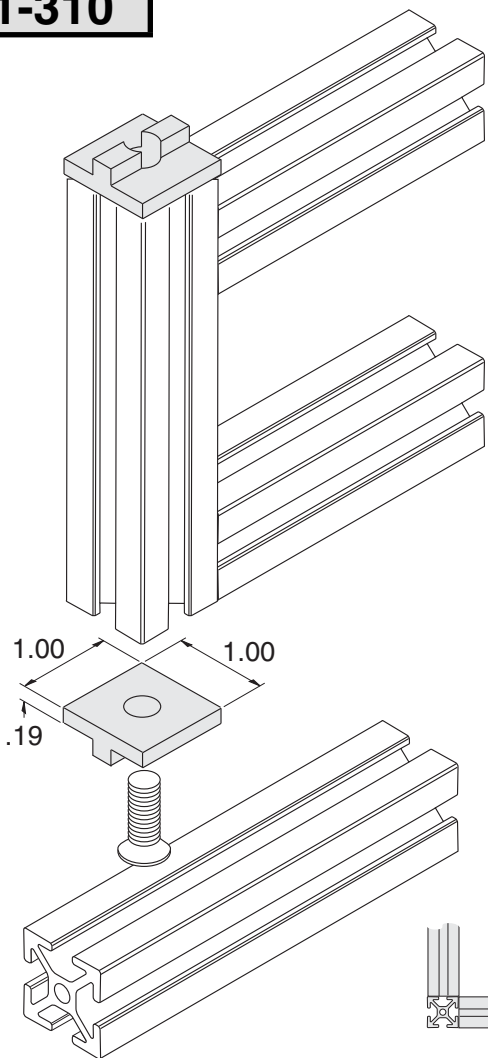
**1/4" SLOTS**

Material - Steel
Finish - Zinc Plated

Bi-fold Door Pad

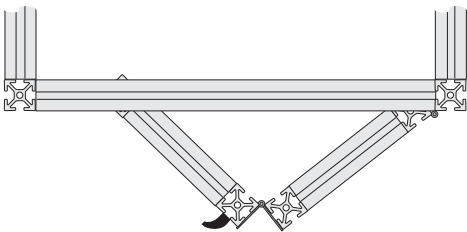


11-310



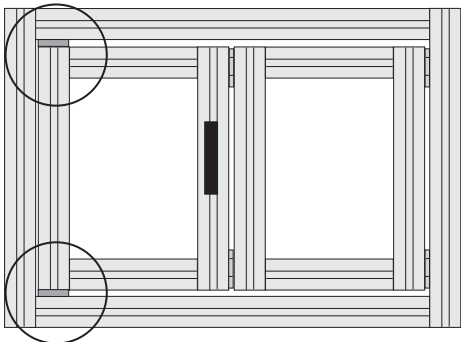
Use on 1" x 1" sq. extrusions
with 1/4" wide slots

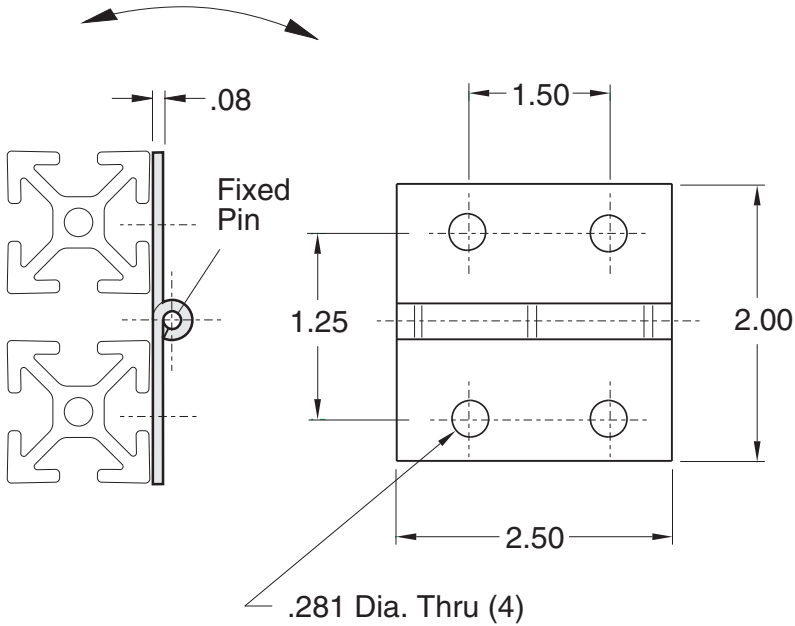
1/4" SLOTS



Hardware Included

Pad material is DELRIN



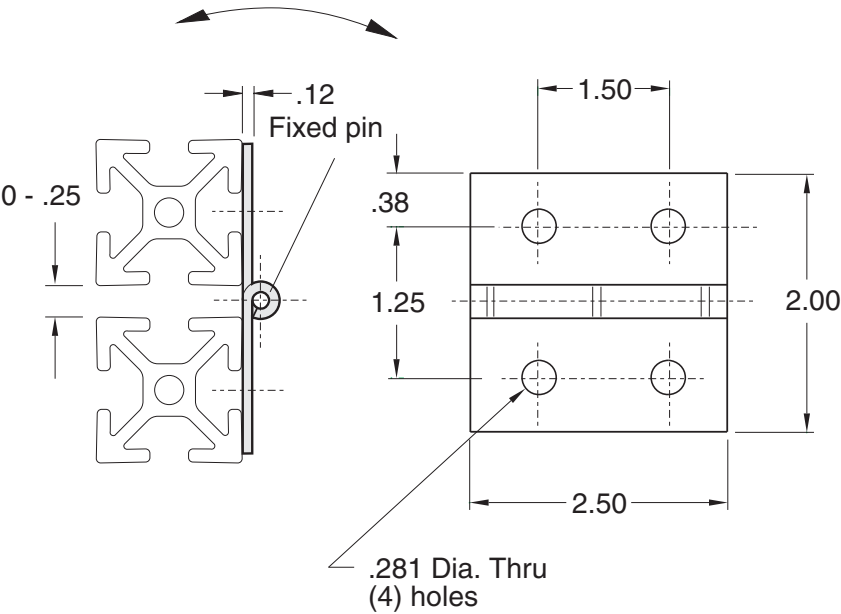


Hardware Included

**Material - Aluminum
Finish - Clear Anodize**

1/4" SLOTS

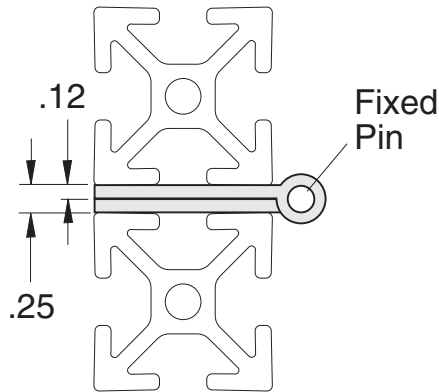
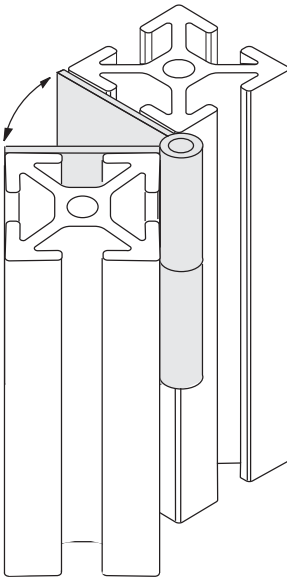
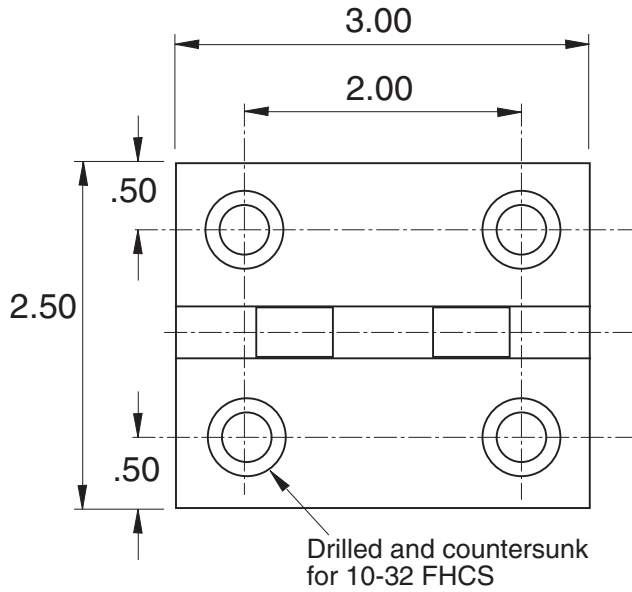
11-287



Hardware Included

Material Steel
Finish Black Powder Coat

1/4" SLOTS

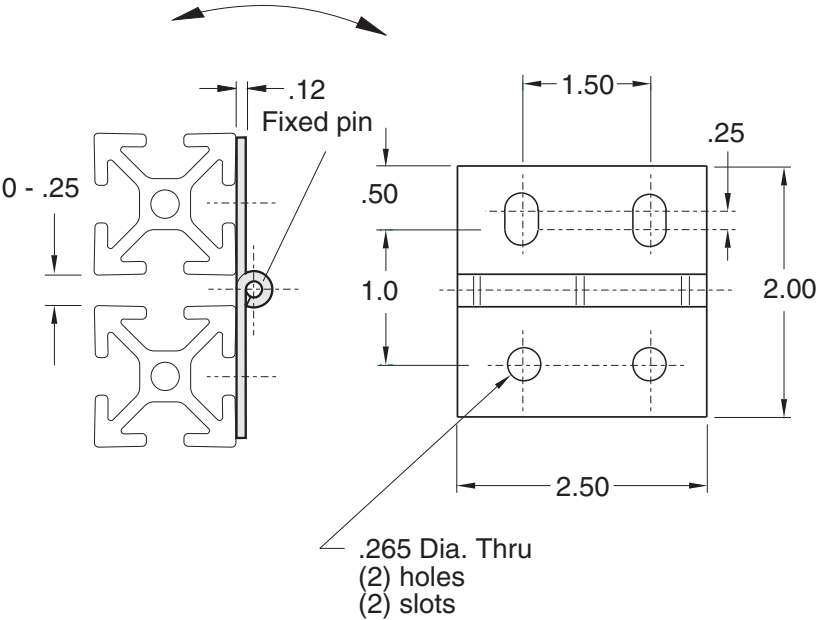


Hardware Included

Material - Steel
Finish - Black Powder Coat

1/4" SLOTS

11-279



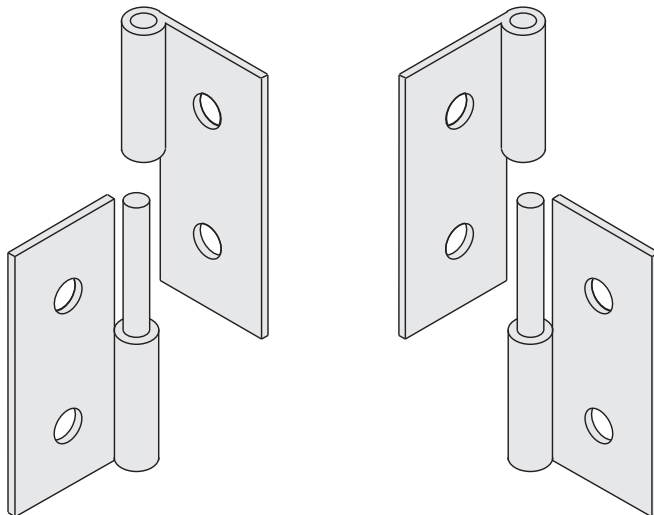
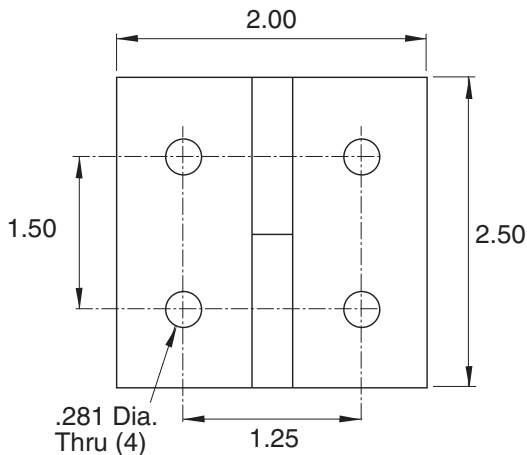
Hardware Included

Material - Steel
Finish - Black Powder Coat

1/4" SLOTS

Steel Lift-Off Hinge (left hand)	11-253
Steel Lift-Off Hinge (right hand)	11-254

Hardware Included



11-253

Left Hand

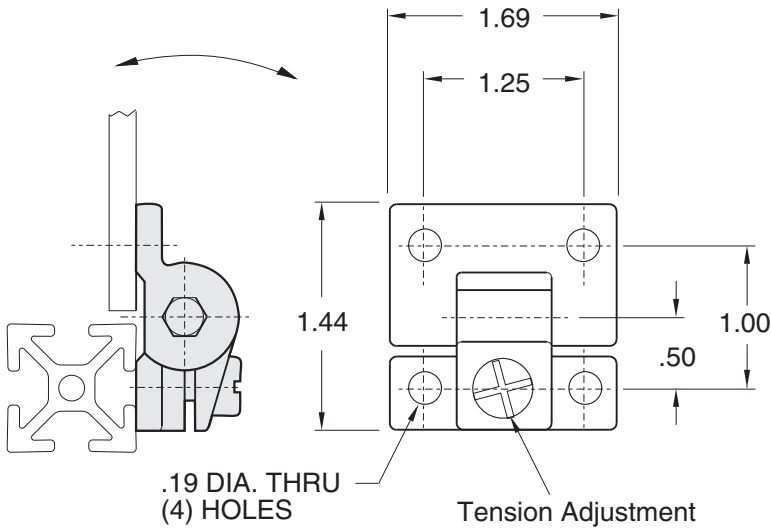
11-254

Right Hand

Material - Steel
Finish - Zinc Plated

1/4" SLOTS

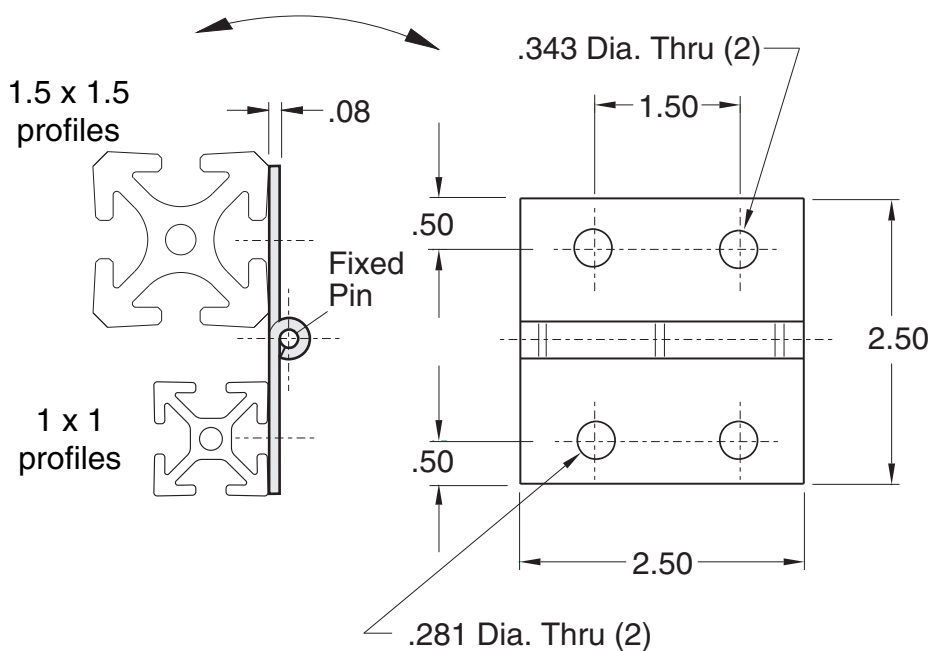
11-255



Hardware Included

Material - Plastic

1/4" SLOTS



Hardware Included

Material - Aluminum
Finish - Clear Anodize

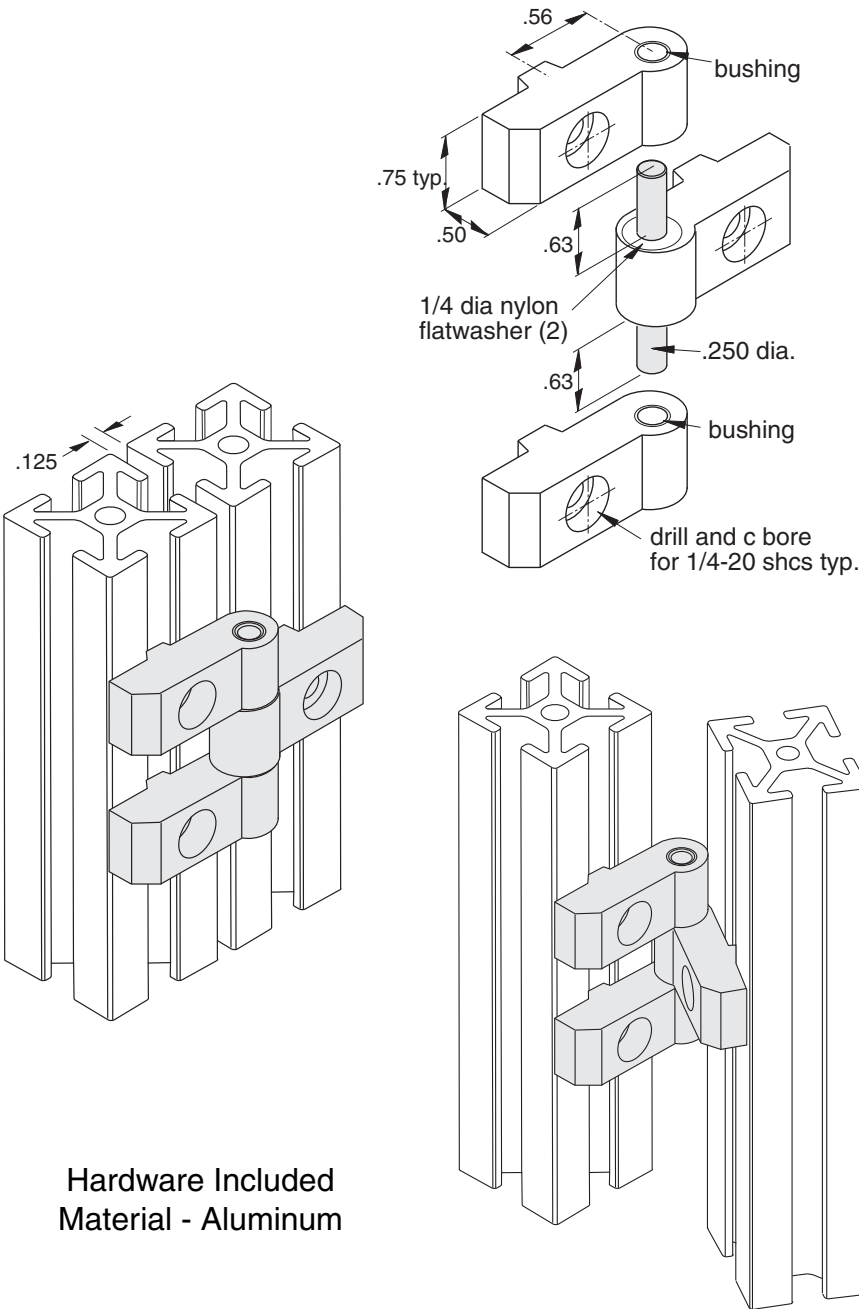
1/4" SLOTS

Heavy Duty Hinge



11-400
11-BLK-400

Clear Anodized
Flat Black Powder Coat



Hardware Included
Material - Aluminum

1/4" SLOTS



Left Hand Lift-Off Hinge - 1 /4" slots

One Set w/Long & Short Pin Assemblies

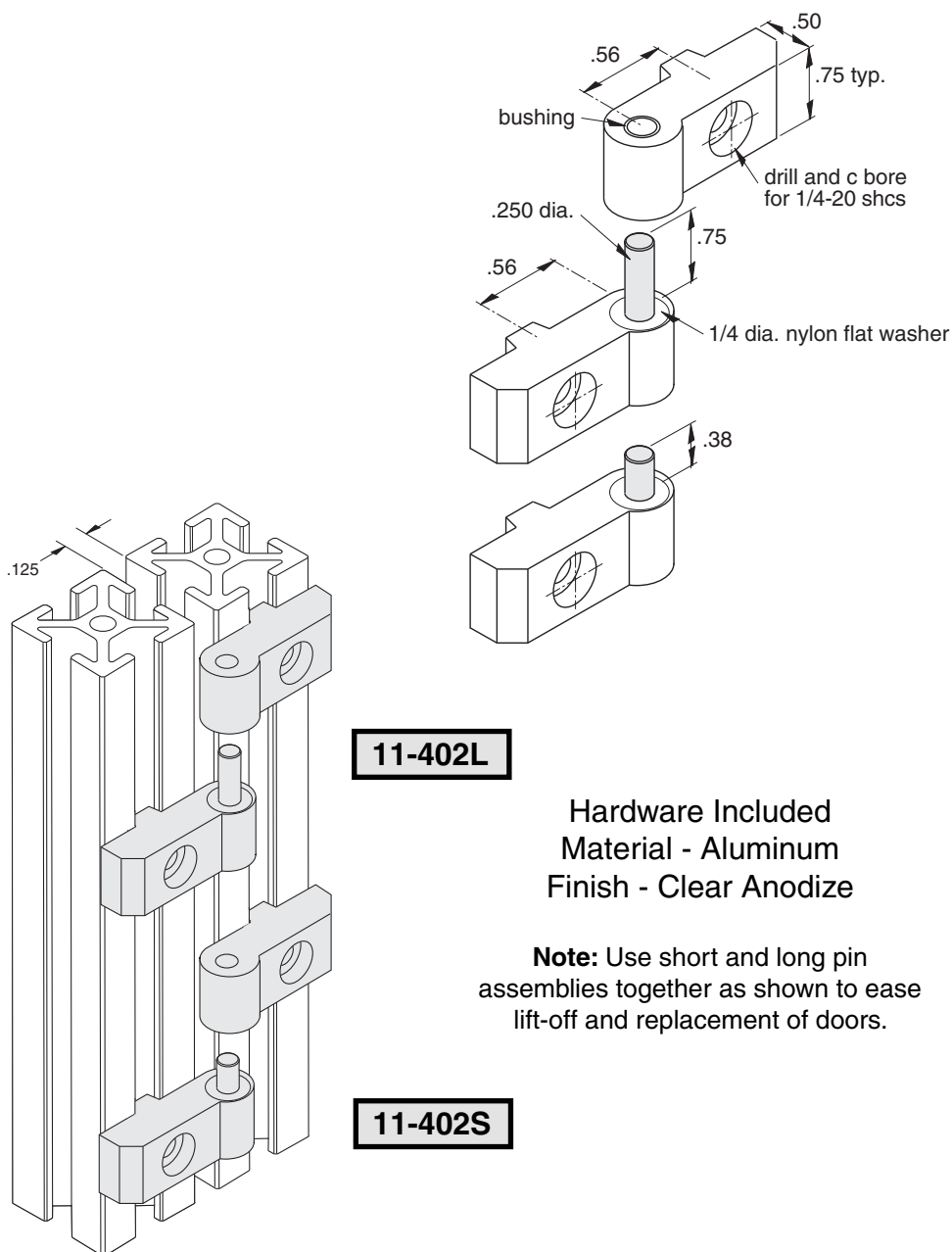
11-402

Long Pin Assembly Only

11-402L

Short Pin Assembly Only

11-402S

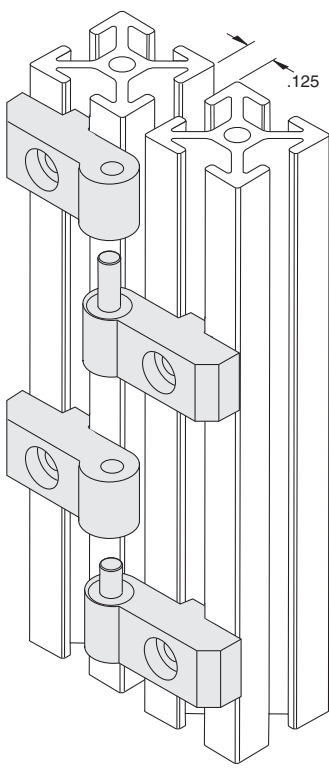
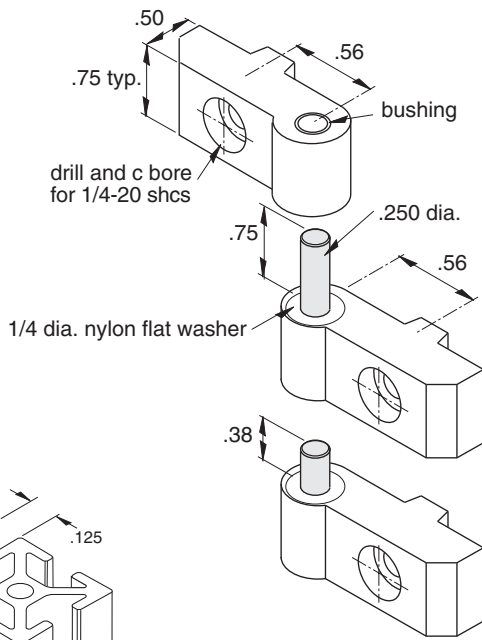


1/4" SLOTS

Right Hand Lift-Off Hinge - 1/4" slots



11-403	One Set w/Long & Short Pin Assemblies
11-403L	Long Pin Assembly Only
11-403S	Short Pin Assembly Only



11-403L

11-403S

1/4" SLOTS

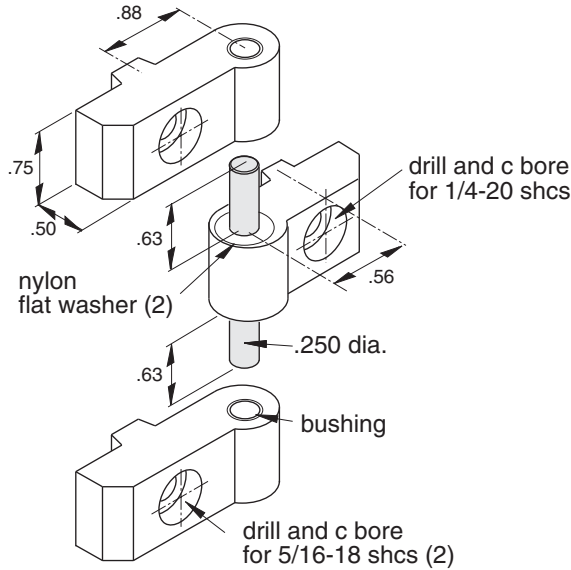
Hardware Included
Material - Aluminum
Finish - Clear Anodize

Note: Use short and long pin assemblies together as shown to ease lift-off and replacement of doors.

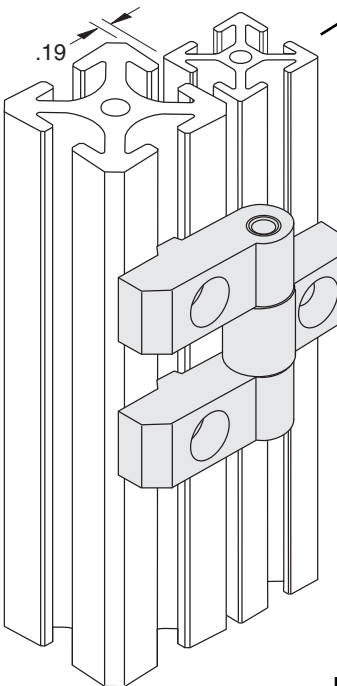
Clear Anodized
Flat Black Powder Coat

EB-140

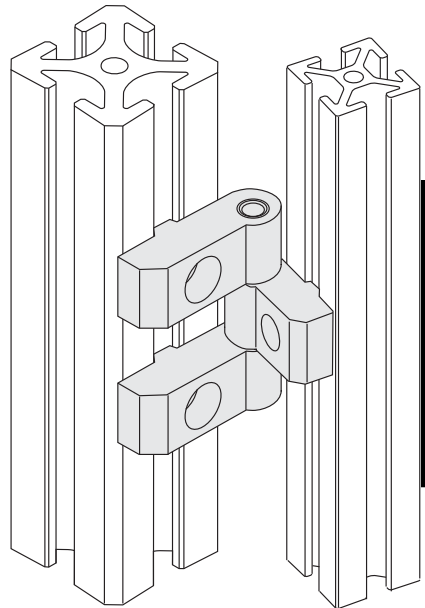
BLB-140



EX-11



EX-1



Hardware Included
Material - Aluminum

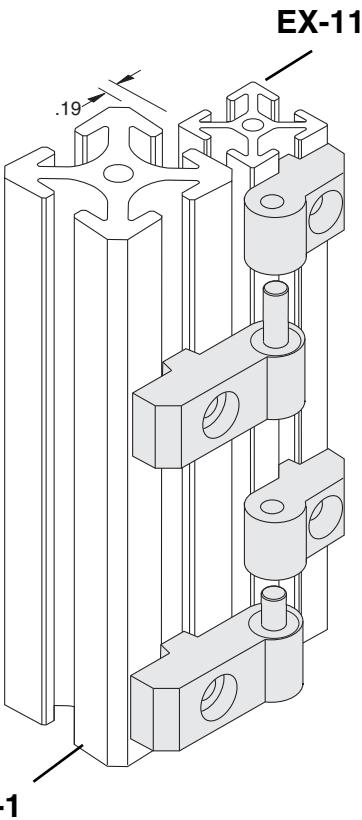
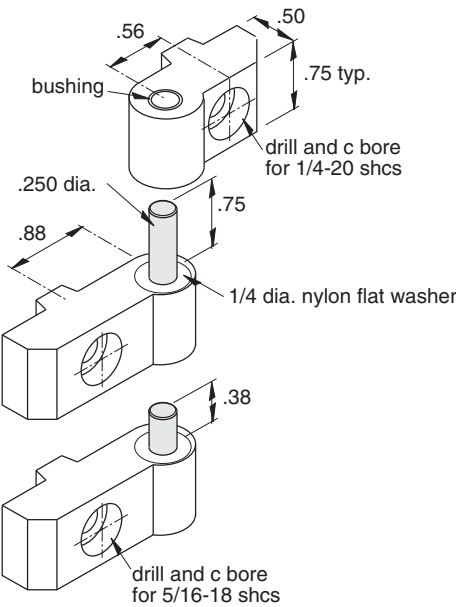
Left Hand Transition
 Lift-Off Hinge 5/16 - 1/4 slots



EB-142	One Set w/Long & Short Pin Assemblies
EB-142L	Long Pin Assembly Only
EB-142S	Short Pin Assembly Only

Hardware Included
 Material - Aluminum
 Finish - Clear Anodize

Note: Use short and long pin assemblies together as shown to ease lift-off and replacement of doors.



EB-142L

EB-142S

1/4" SLOTS

One Set w/Long & Short Pin Assemblies

EB-143

Long Pin Assembly Only

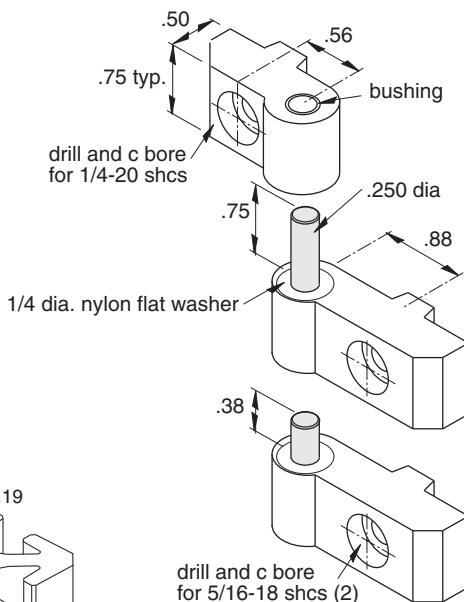
EB-143L

Short Pin Assembly Only

EB-143S

Hardware Included
Material - Aluminum
Finish - Clear Anodize

Note: Use short and long pin assemblies together as shown to ease lift-off and replacement of doors.



EX-11

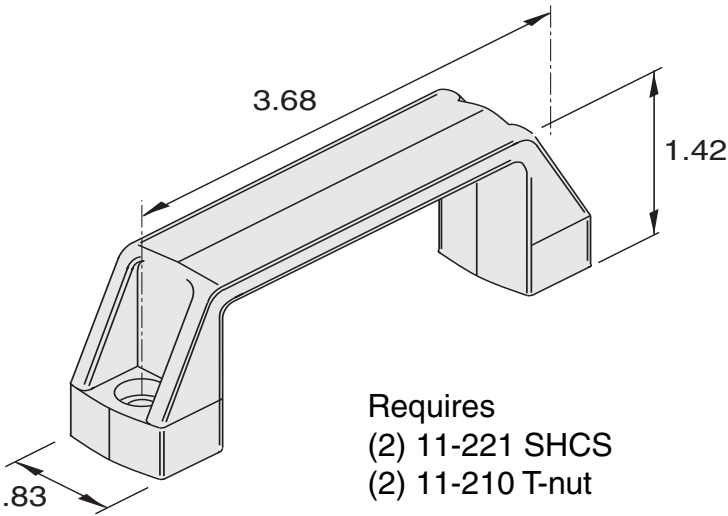
EB-143L

EB-143S

EX-1

1/4" SLOTS

11-256

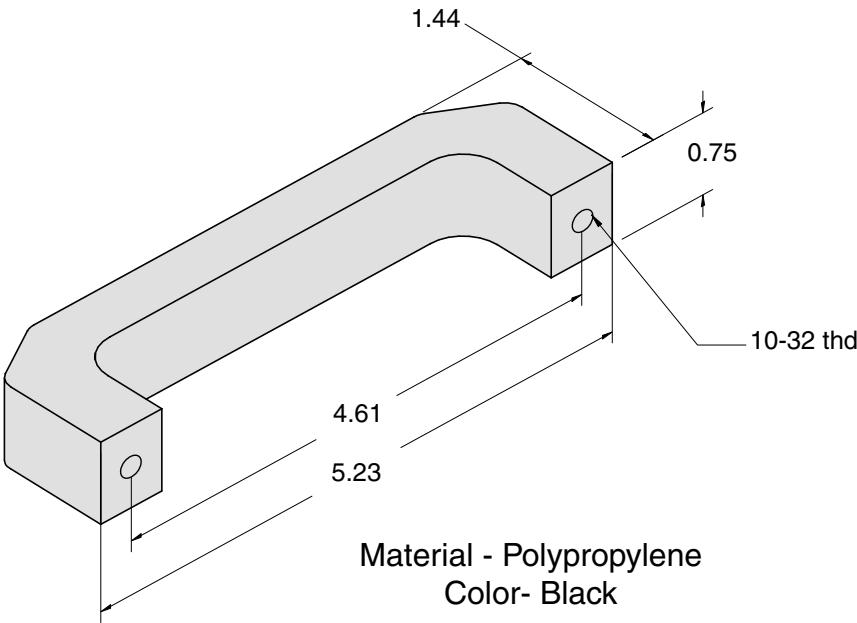


Requires
(2) 11-221 SHCS
(2) 11-210 T-nut

Material - Plastic
Color- Black

11-356 Plastic Handle

1/4" SLOTS



Material - Polypropylene
Color- Black

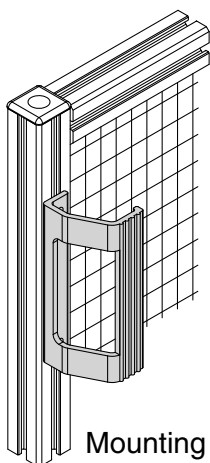
Extruded Door Hand Grip

Black powder coat

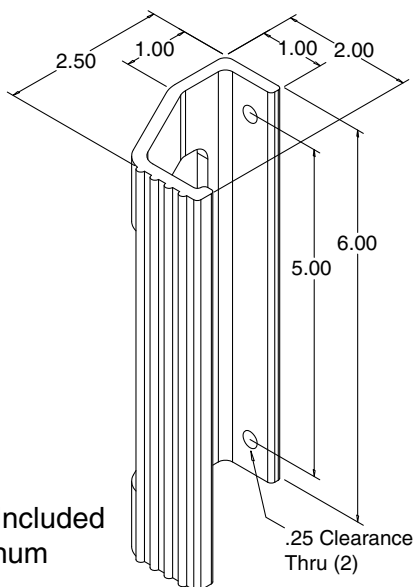
EF-182-EX11

Yellow powder coat

EF-182-YW11



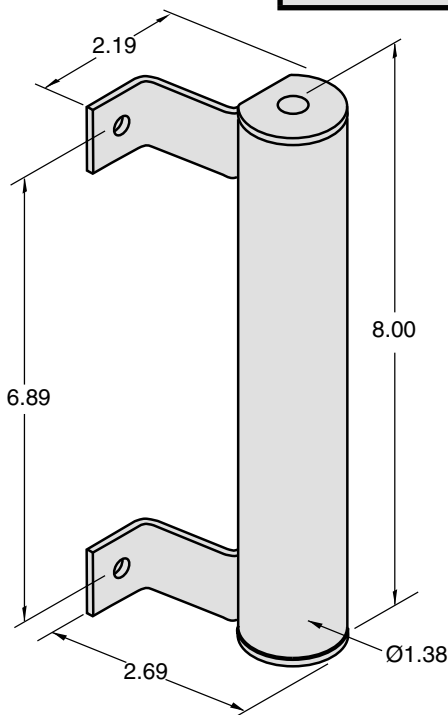
Mounting Hardware Included
Material - Aluminum



Offset Round Extrusion Door Handle

EF-183-EX11

Hardware
Included



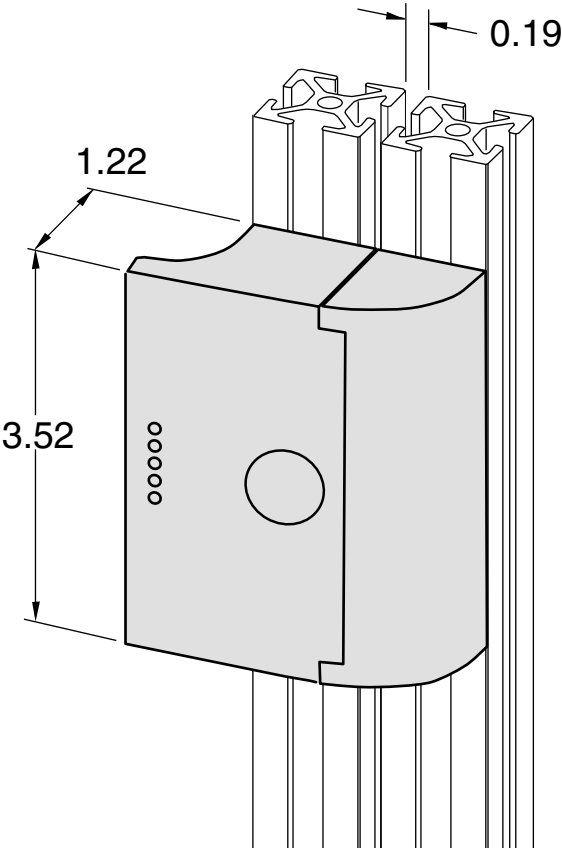
1/4" SLOTS

Slam Latch



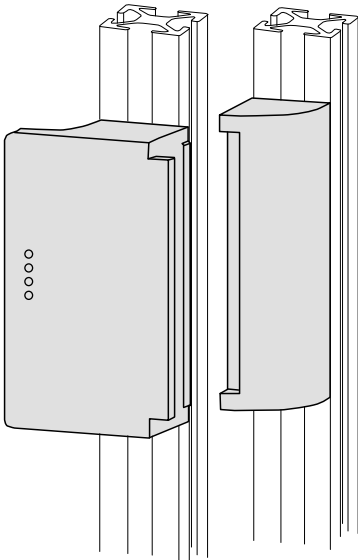
11-353
11-354

Non-Locking
Locking

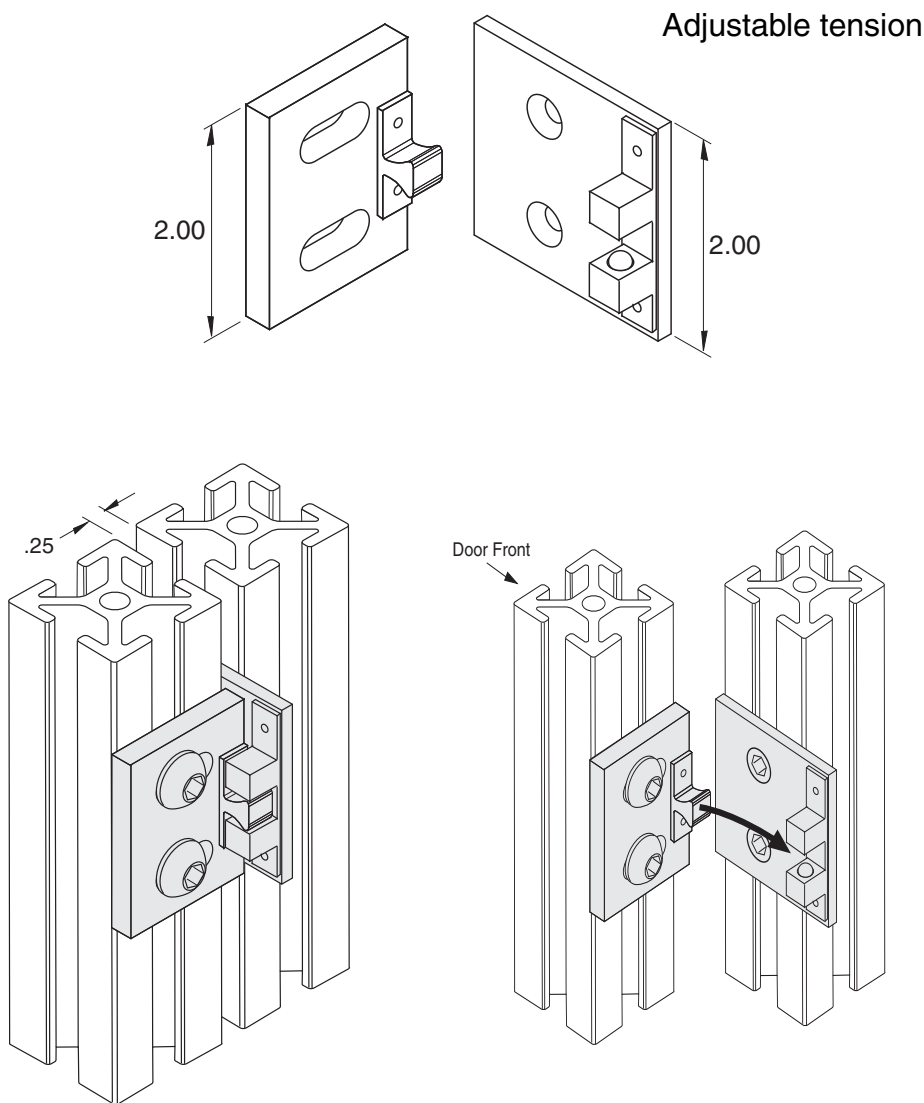


Mounting Hardware Included

Material - Black Plastic



1/4" SLOTS

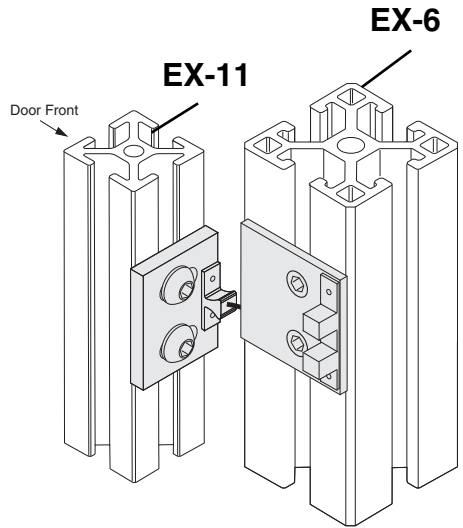
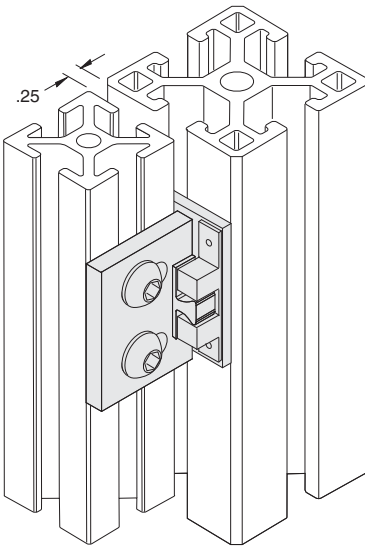
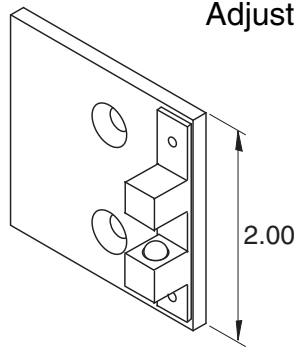
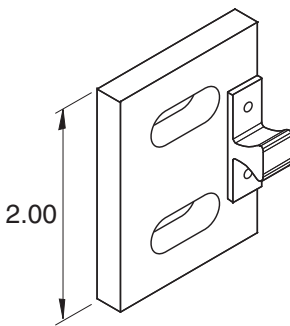


Hardware Included
Material Mounting Plates: Aluminum, Clear Anodize
Latch: Zinc Plated Brass

Transition Mechanical Latch
5/16 - 1/4" slots

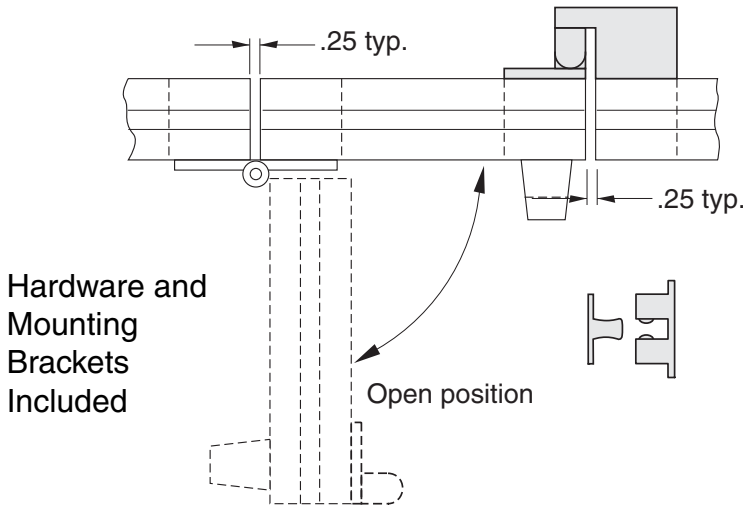


11-283



1/4" SLOTS

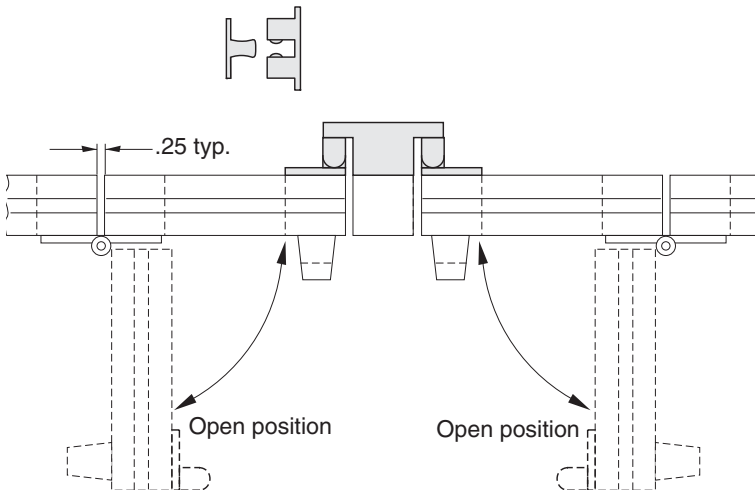
Hardware Included
Material Mounting Plates: Aluminum, Clear Anodize
Latch: Zinc Plated Brass



Catch Material - Zinc Plated Brass
Base Material - Aluminum

Double Door Mechanical Latch

11-265



Hardware and Mounting Brackets Included

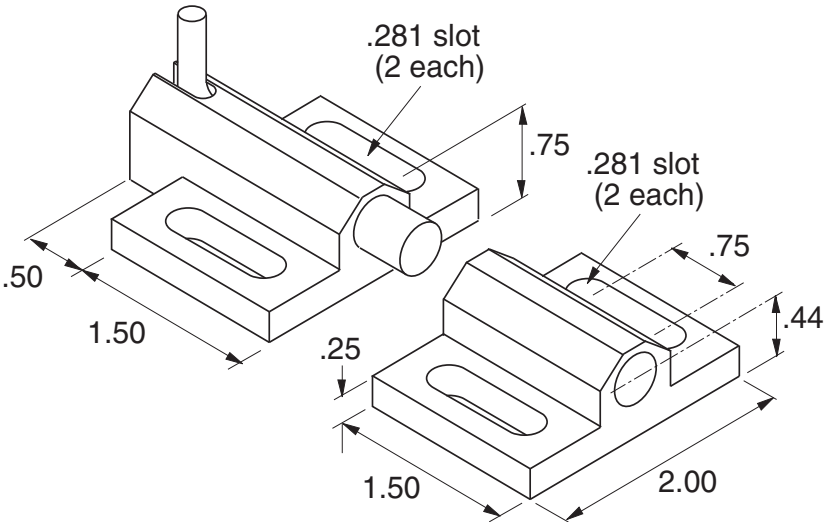
Catch Material - Zinc Plated Brass
Base Material - Aluminum

1/4" SLOTS

Deluxe Dead Bolt Latch

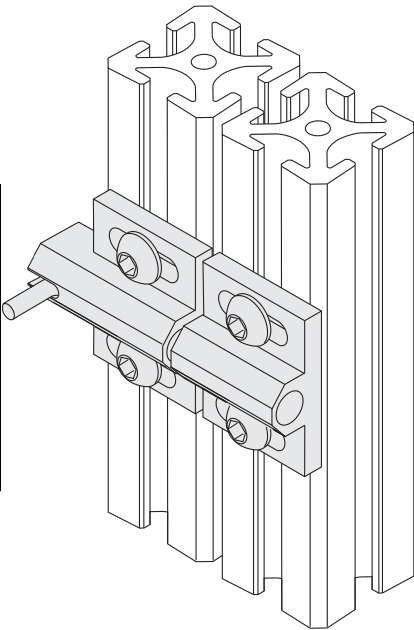


11-272

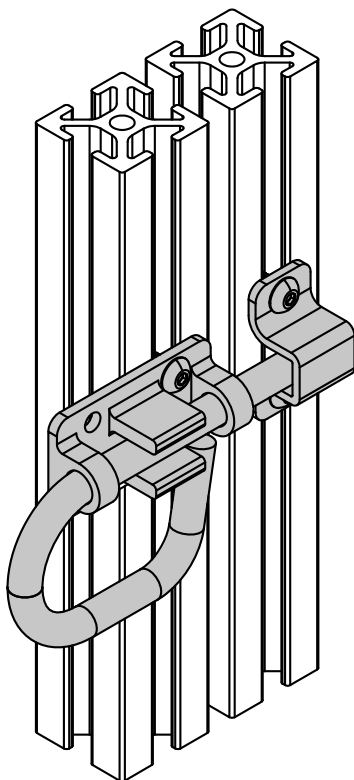
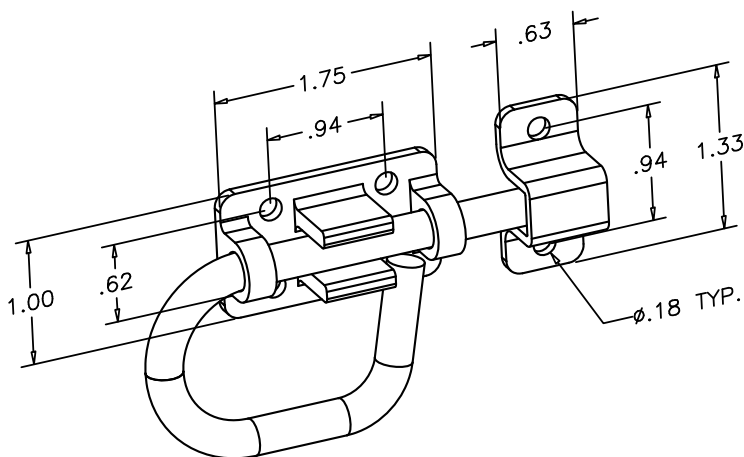


Hardware Included

1/4" SLOTS



Material:
Mounting Plates:
Aluminum, Clear Anodize
Dead Bolt: Zinc Plated Steel



Hardware Included

Use with 1/4" slot extrusions

Material - Zinc Plated Steel

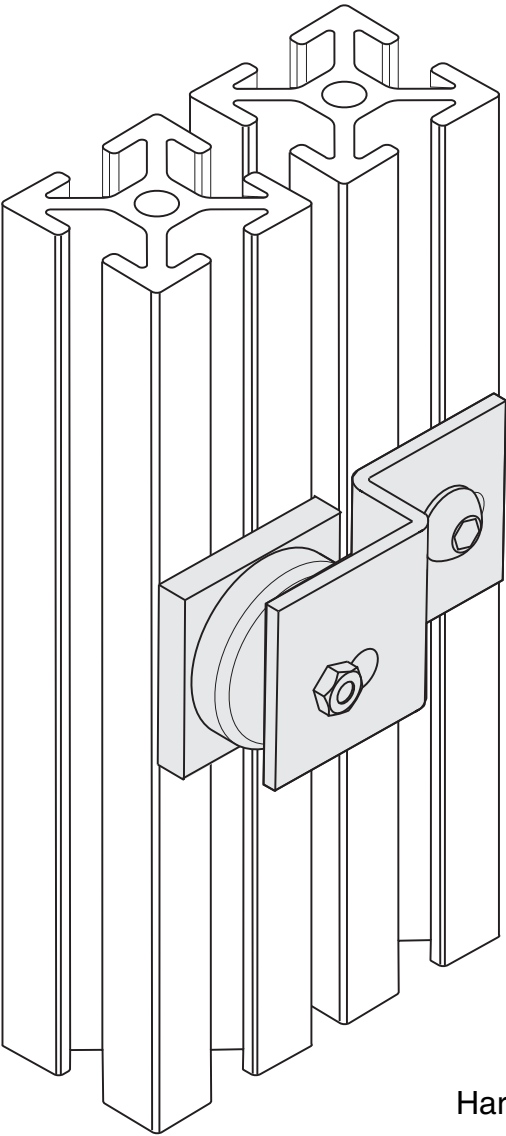
1/4" SLOTS

Heavy Duty Magnetic
Door Latch Assembly



11-263

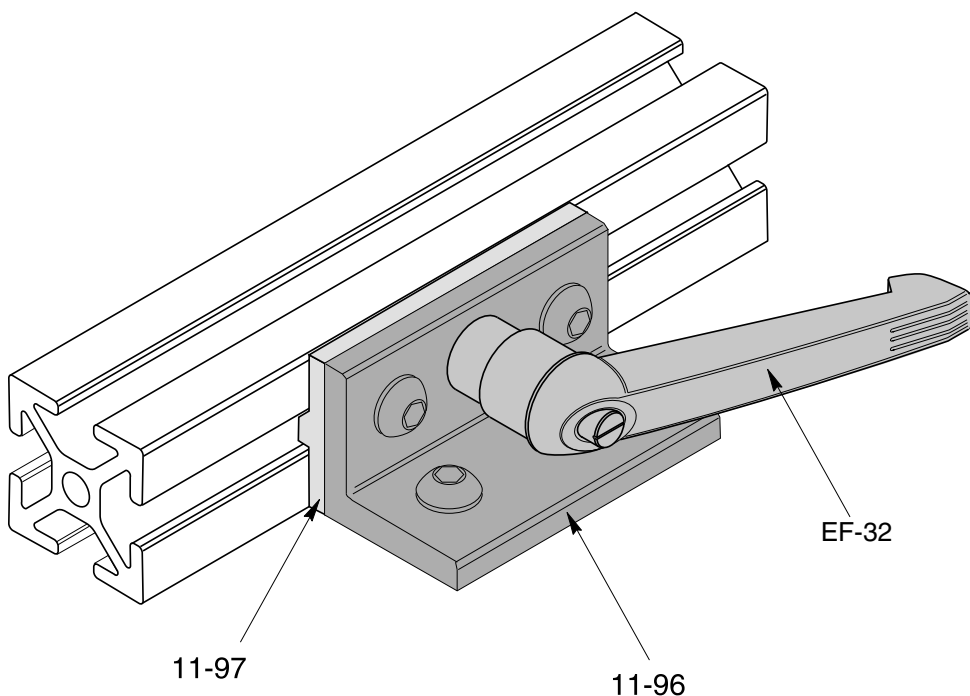
1/4" SLOTS



Hardware Included

Material - Steel
Finish - Zinc Plated

Slider Assembly (as shown)	11-98
Slider Assembly (less clamp handle for sliding only)	11-99

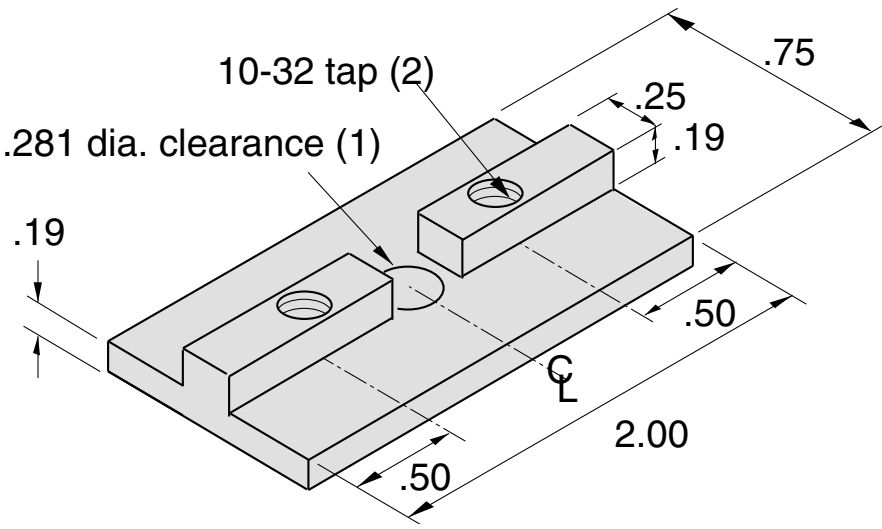


1/4" SLOTS

Bearing Material is DELRIN (White)

Hardware Included with 11-98 and 11-99

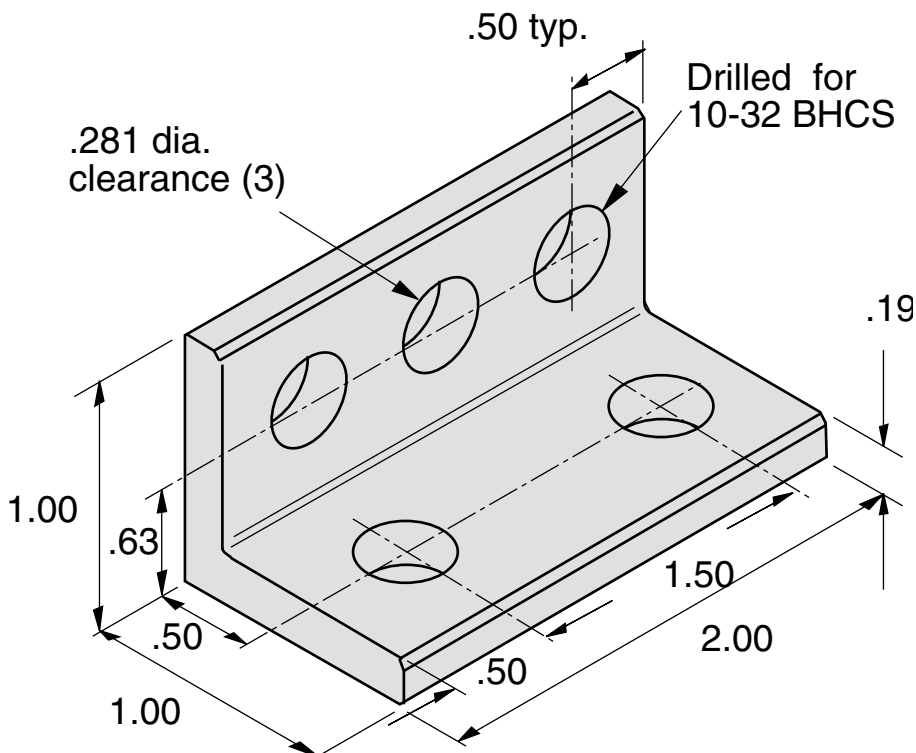
11-97



Load Capacity = 50lbs

Bearing Material is DELRIN (White)

1/4" SLOTS



**Recommended
Hardware**

- (2) 11-231 BHCS
- (2) 11-210 T-nut
- (2) 10-32 x 5/8 BHCS

Note: see part no. 11-98 for example

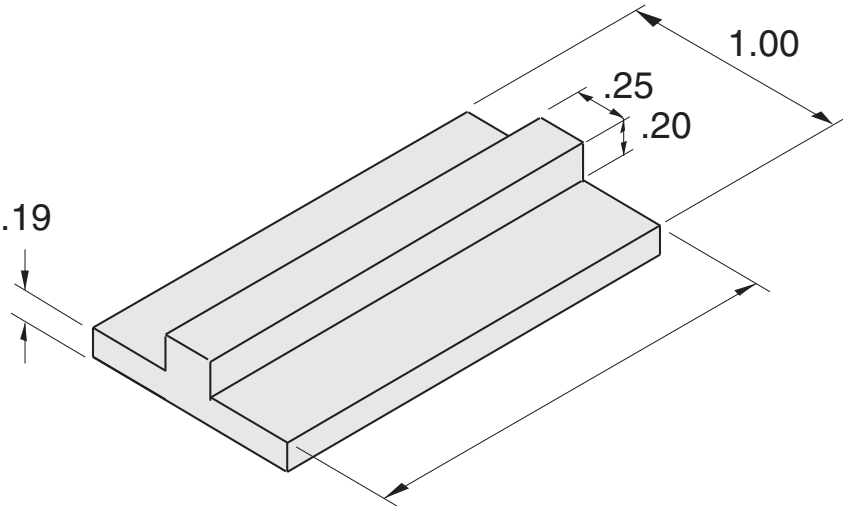
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Blank Bearing Pad UHMW



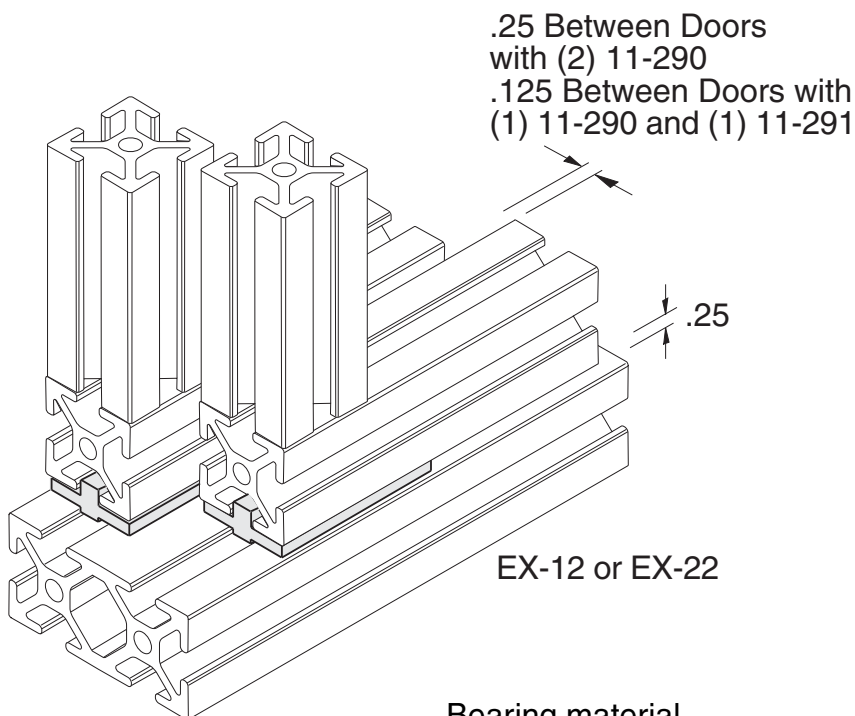
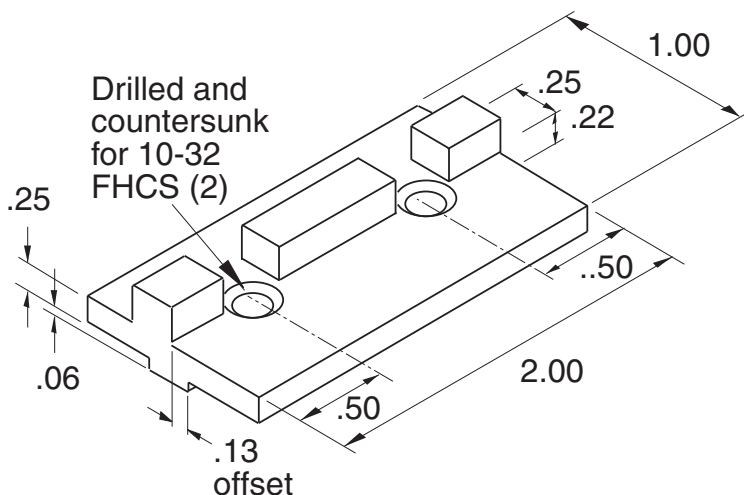
11-302 for 1/4" slot extrusions



1/4" SLOTS

Stock Length 60"

Material - UHMW (White)



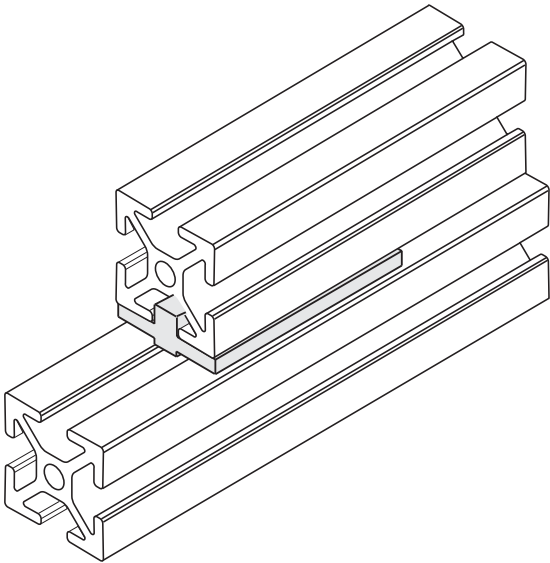
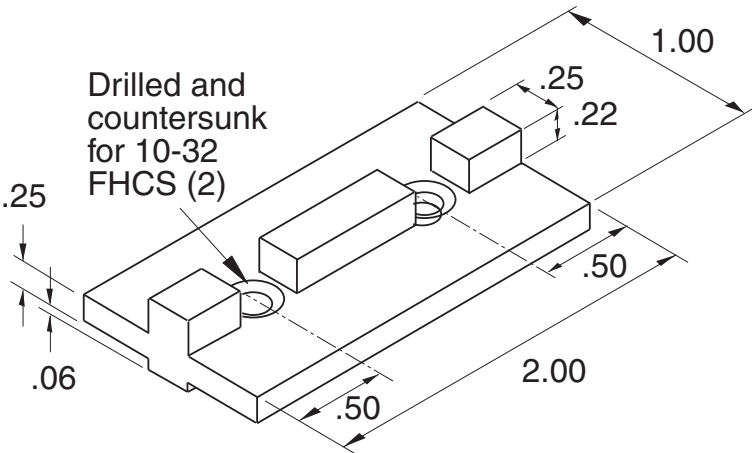
Bearing material
is DELRIN (White)

Hardware Included

Bearing Block (Plastic)



11-291

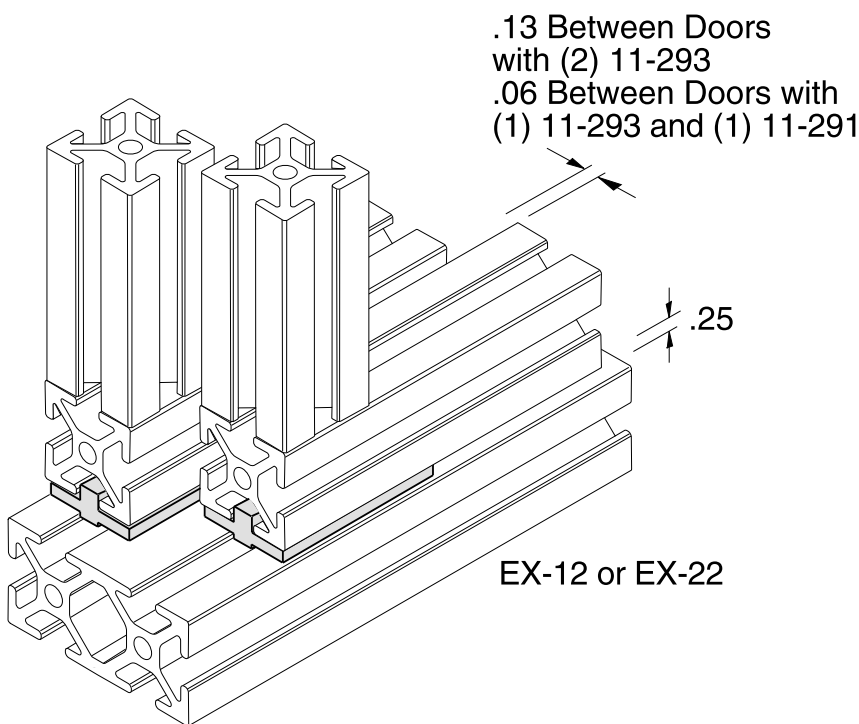
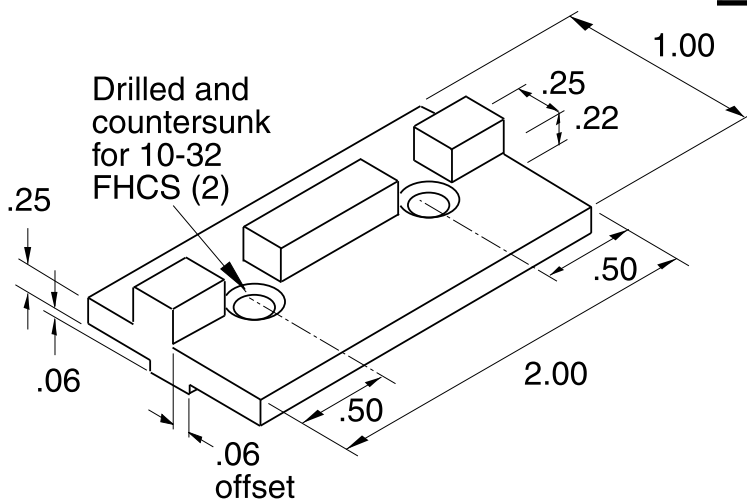


1/4" SLOTS

Bearing material
is DELRIN (White)

Hardware Included

11-293



Hardware Included

Bearing material
is DELRIN (White)

1/4" SLOTS

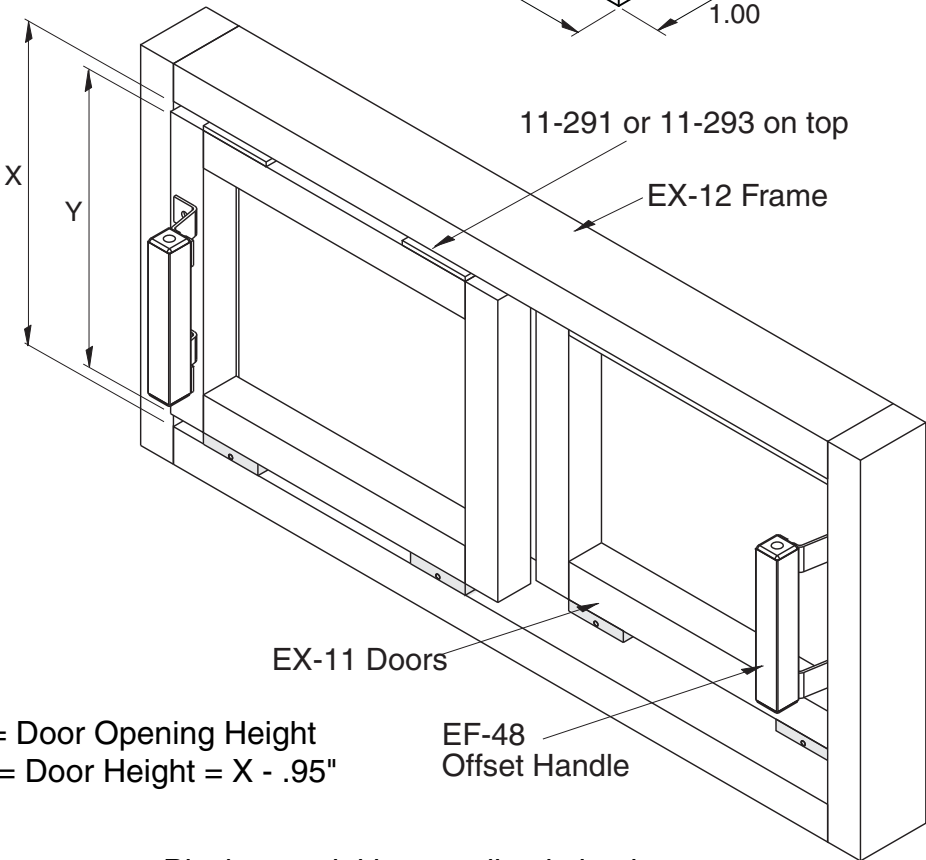
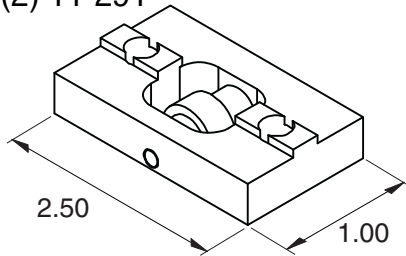
Door Roller Block - 1/4" Slot (lift out)



11-288	1/16" offset
11-289	on center

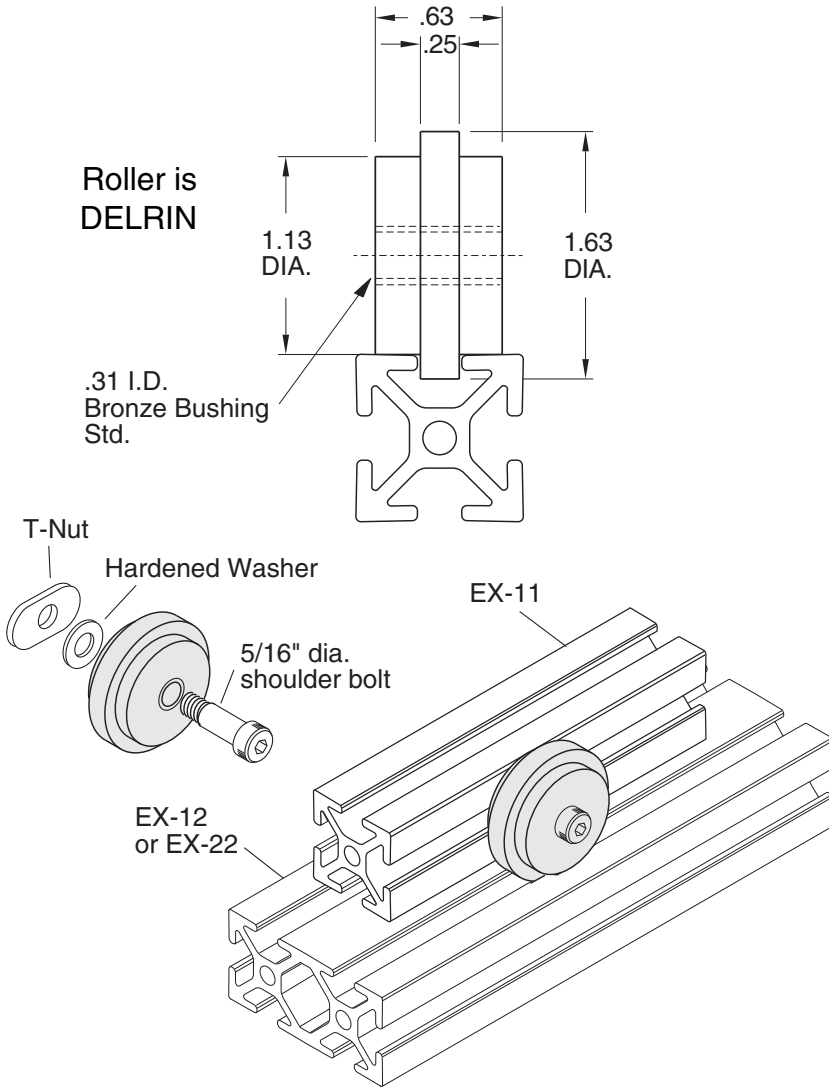
Door Clearance Between Sliders

- = .13" using (4) 11-288 and (4) 11-293
- = .06" using (2) 11-288 with (2) 11-293
and (2) 11-289 with (2) 11-291



Block material is anodized aluminum
Roller is DELRIN

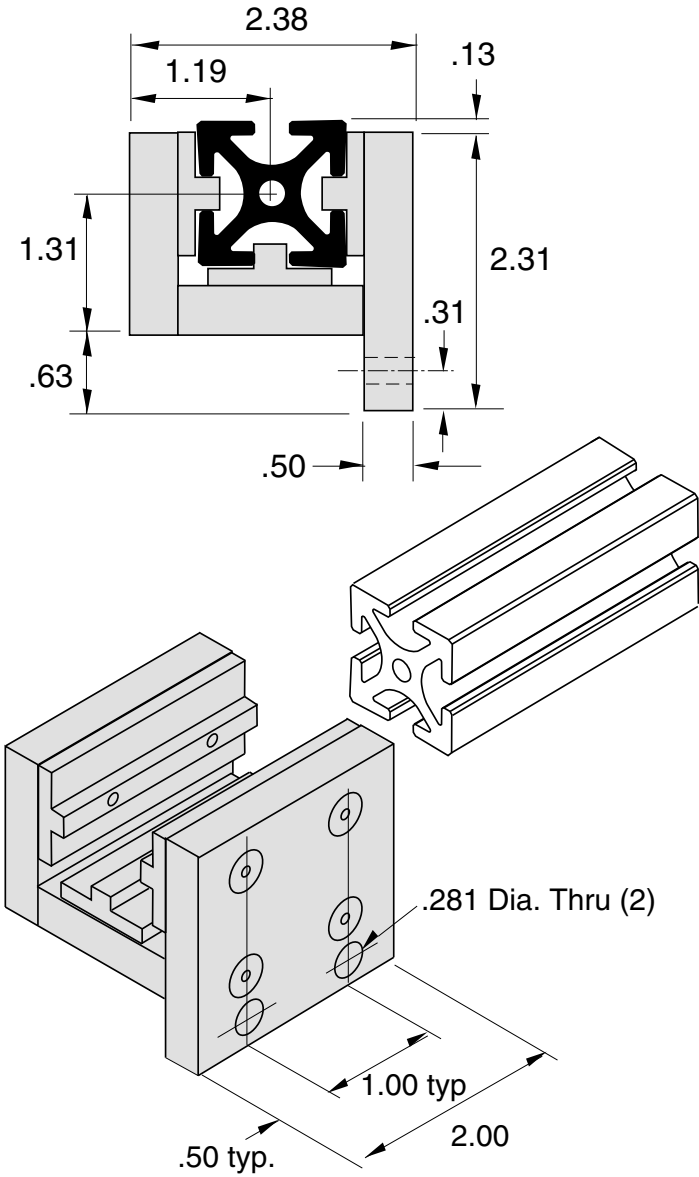
Hardware Included



Hardware Included

1/4" SLOTS

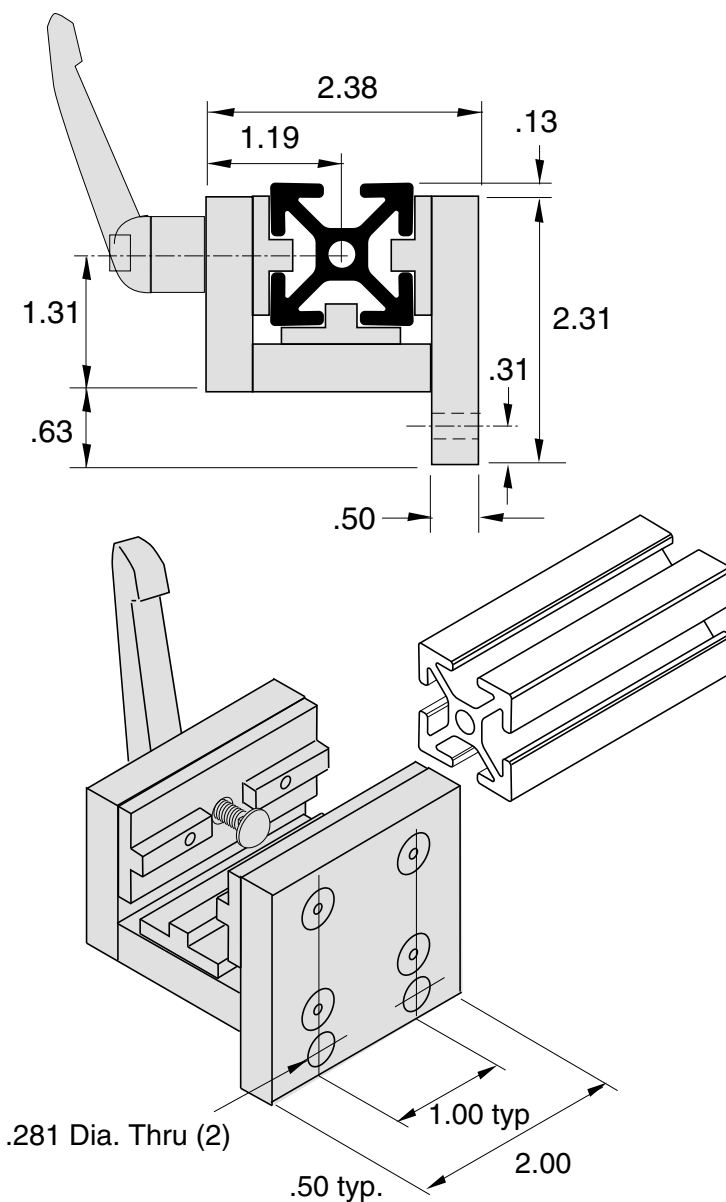
11-91



1/4" SLOTS

Recommended
Hardware
(2) 11-233 BHCS
(2) 11-205 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize

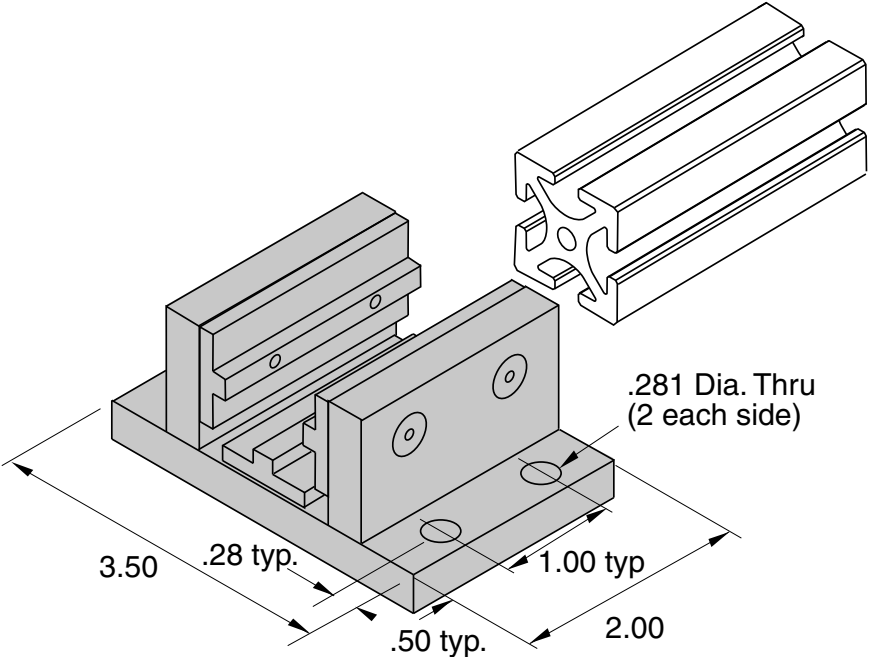
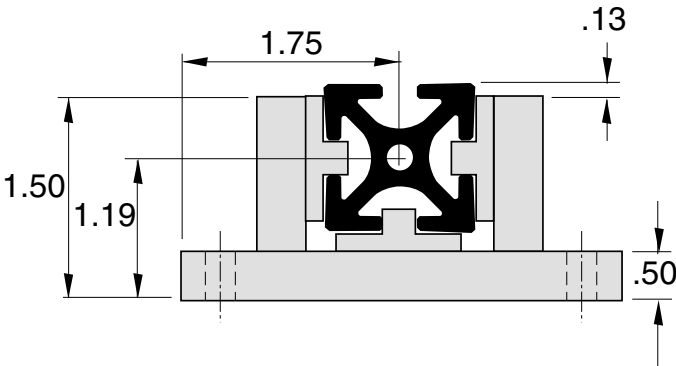


1/4" SLOTS

**Recommended
Hardware**
(2) 11-233 BHCS
(2) 11-205 T-nut

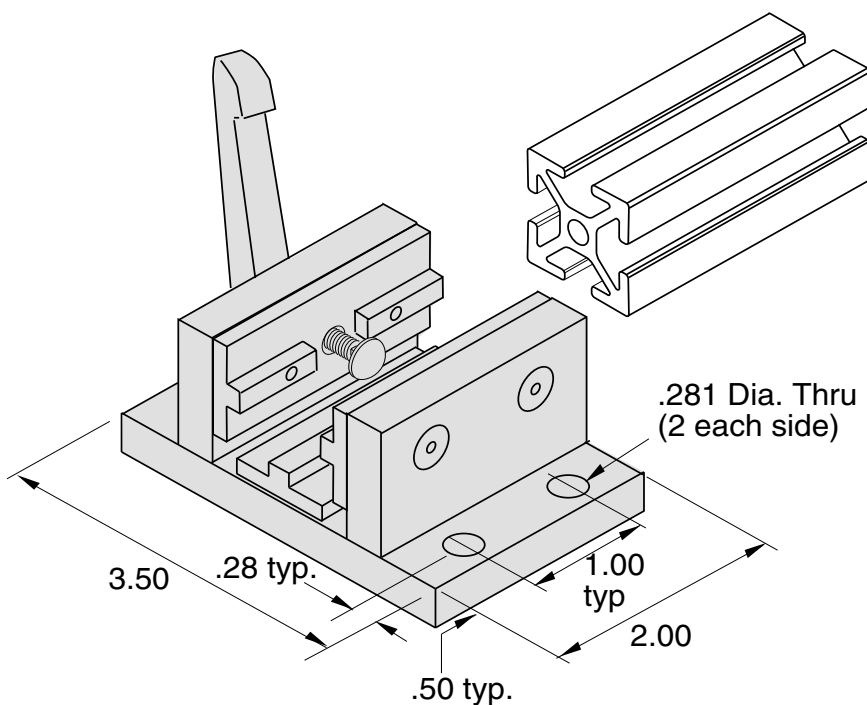
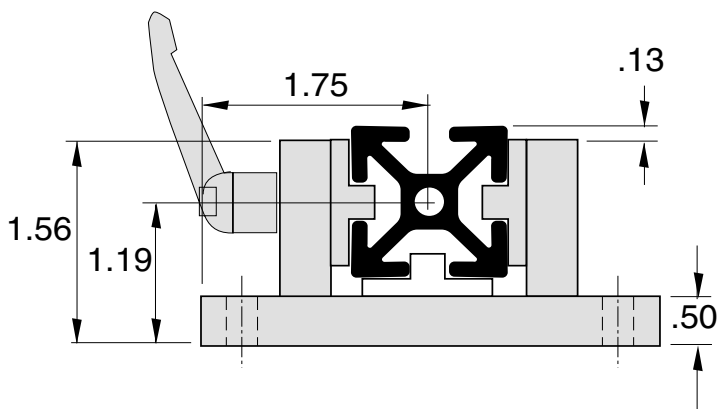
**Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize**

11-93



Recommended
Hardware
(4) 11-233 BHCS
(4) 11-205 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize



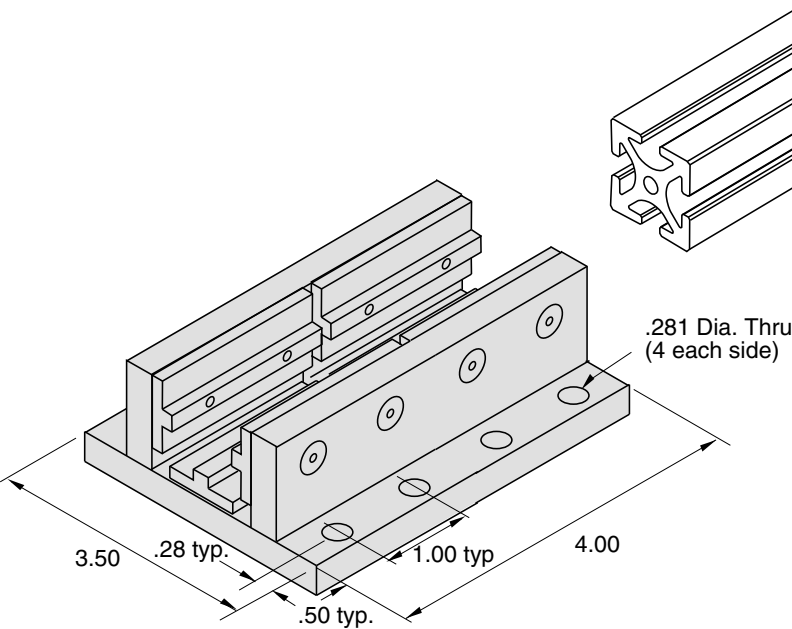
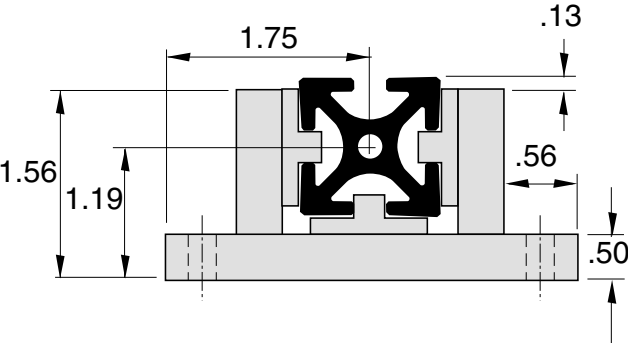
1/4" SLOTS

**Recommended
Hardware**

- (4) 11-233 BHCS
- (4) 11-205 T-nut

**Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize**

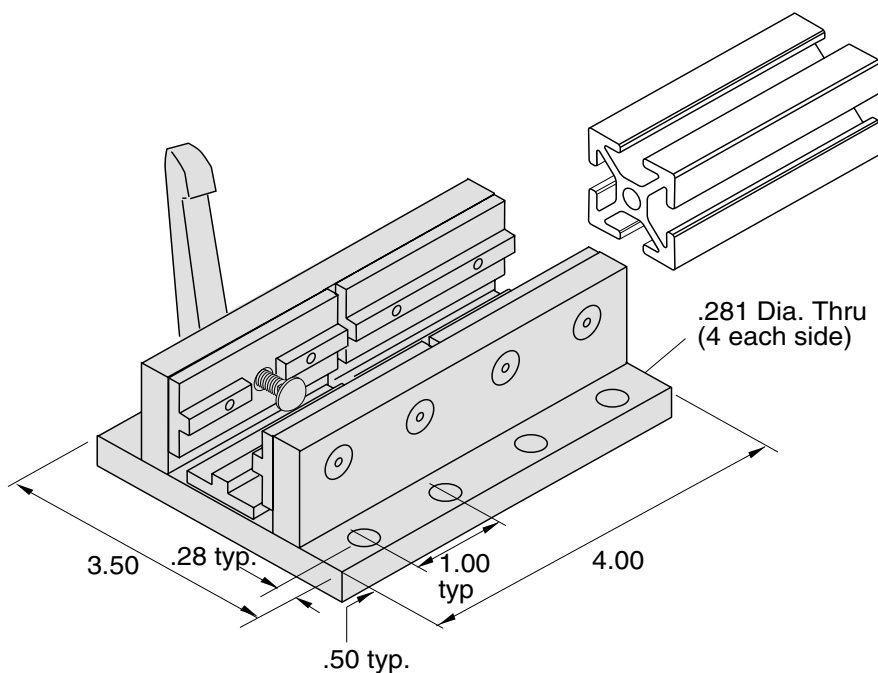
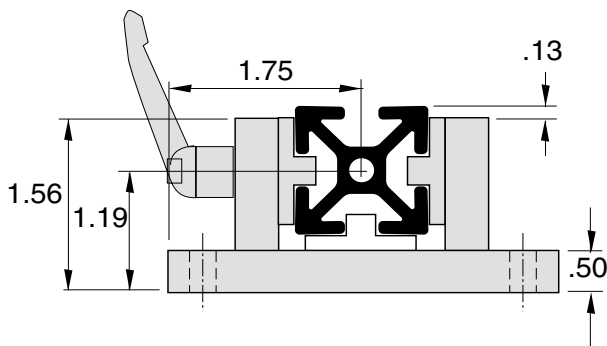
11-92



1/4" SLOTS

Recommended
Hardware
(8) 11-233 BHCS
(8) 11-205 T-nut

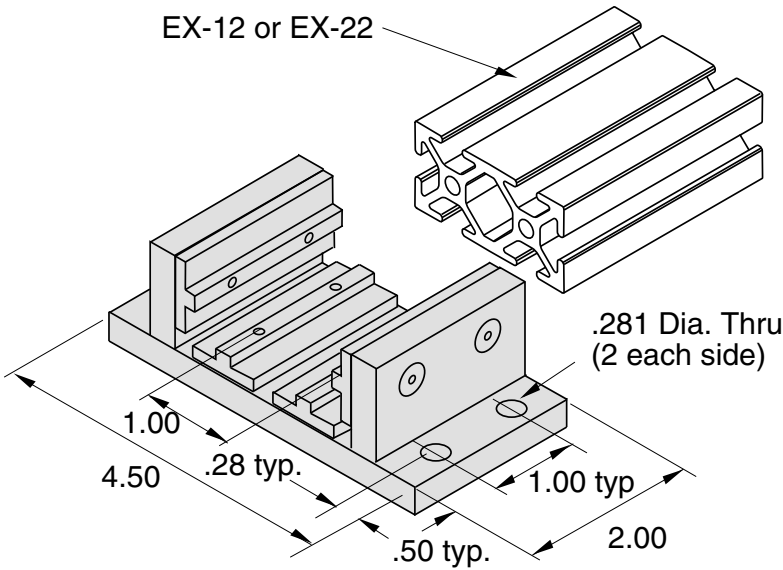
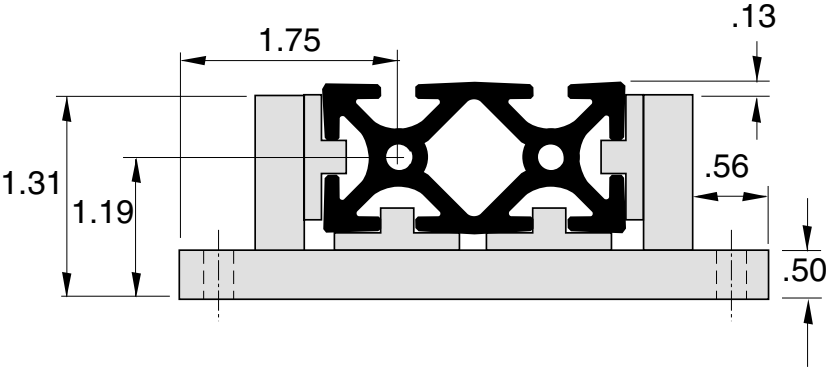
Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize



Recommended
Hardware
(8) 11-233 BHCS
(8) 11-205 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize

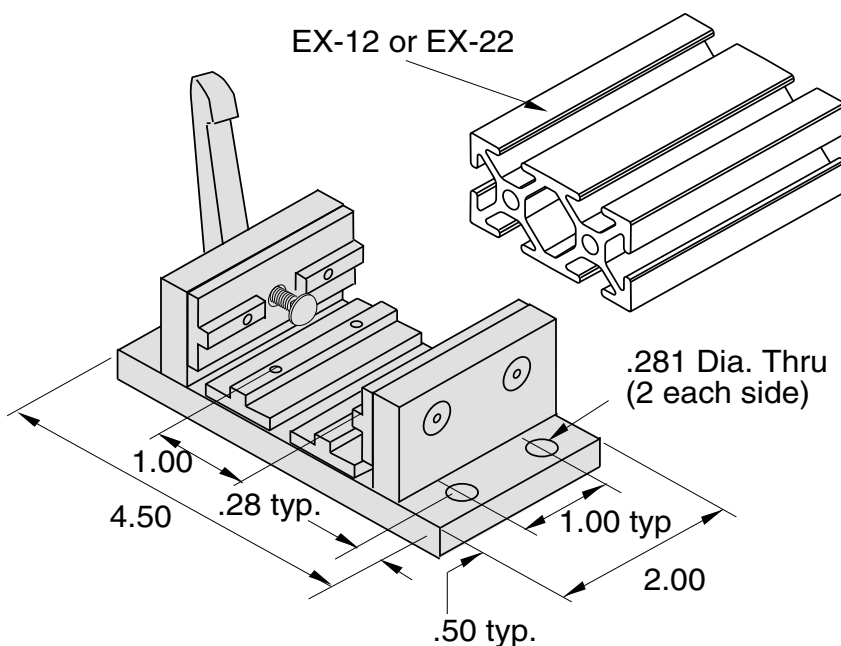
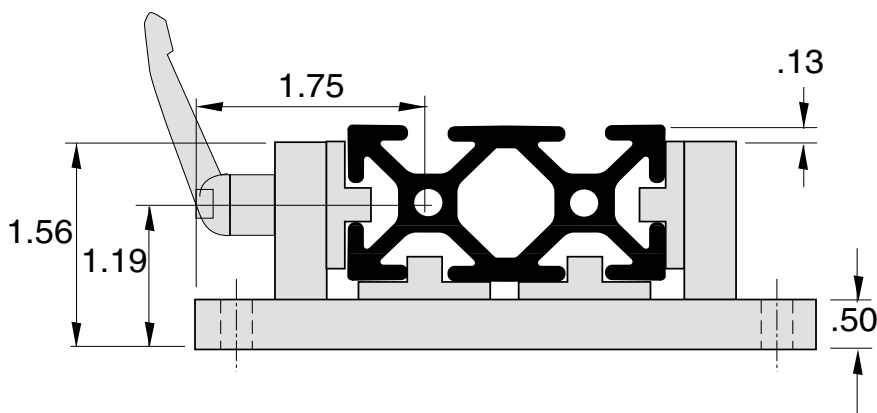
11-94



Recommended
Hardware
(4) 11-233 BHCS
(4) 11-205 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

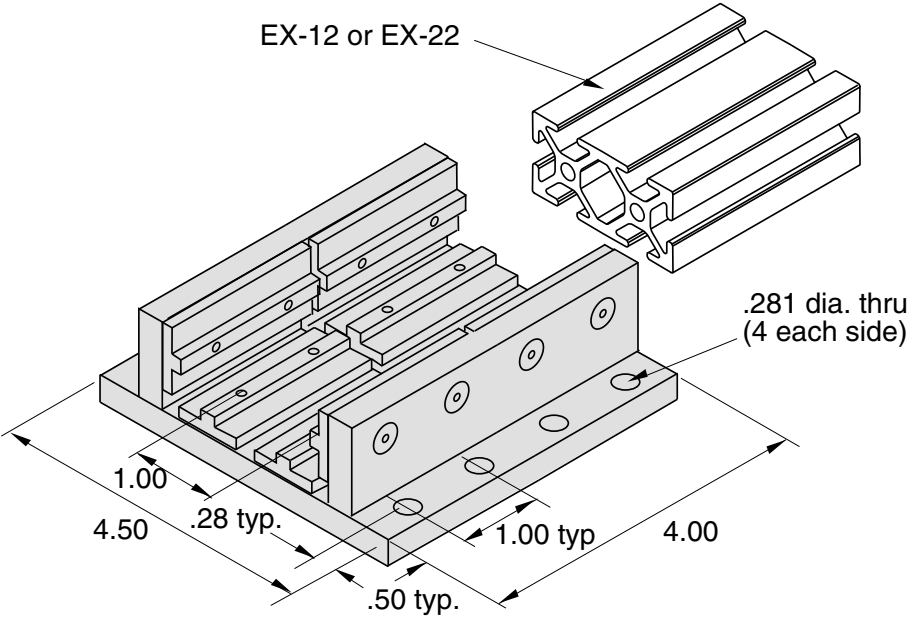
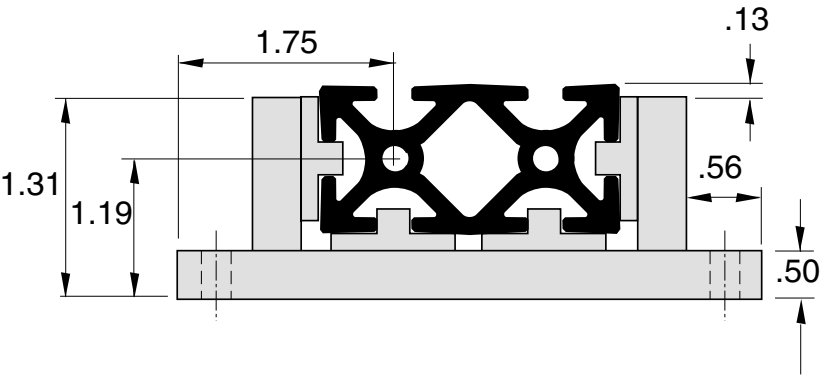


Recommended
Hardware
(4) 11-233 BHCS
(4) 11-205 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

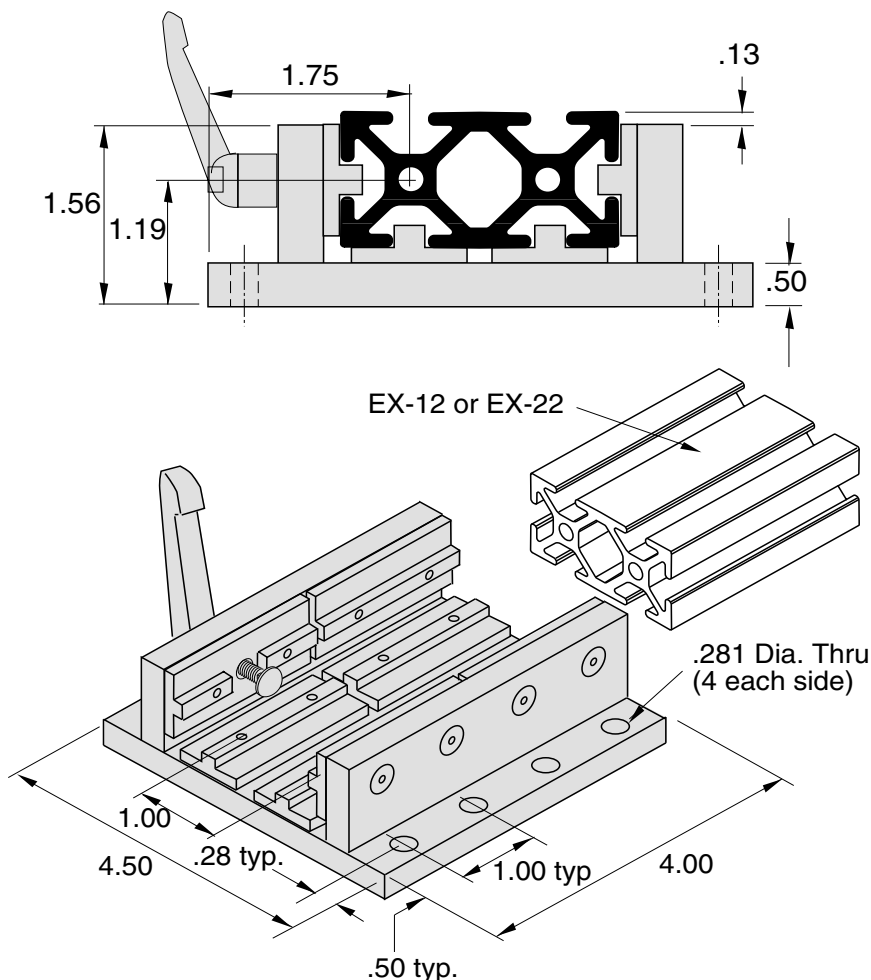
11-95



1/4" SLOTS

Recommended
Hardware
(8) 11-233 BHCS
(8) 11-205 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize



Recommended Hardware

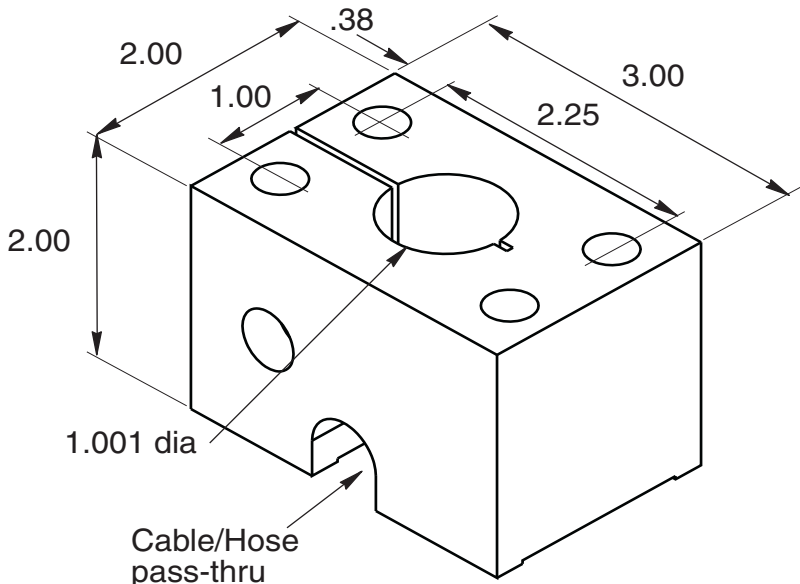
(8) 11-233 BHCS
(8) 11-205 T-nut

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize

Single Shaft Base



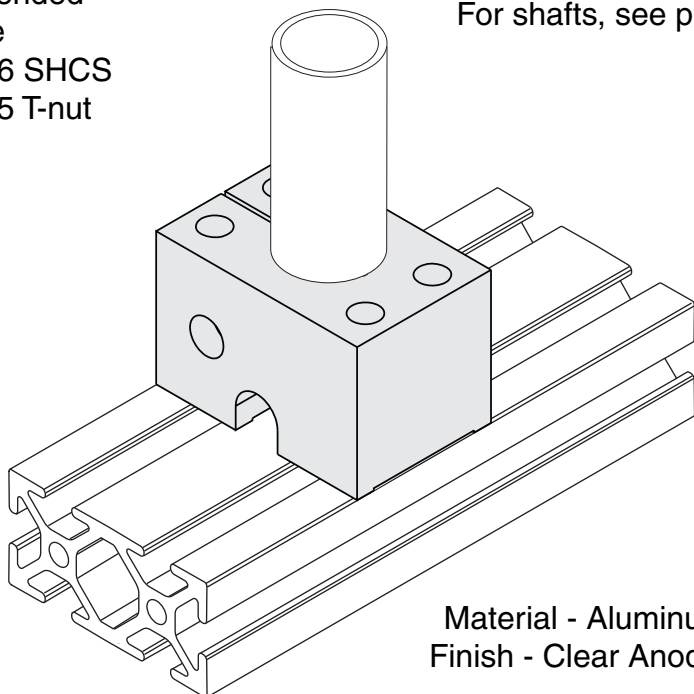
11-500	with locking handle
11-501	with locking 5/16 SHCS



Recommended Hardware
(4) 11-226 SHCS
(4) 11-205 T-nut

For shafts, see page 503

1/4" SLOTS

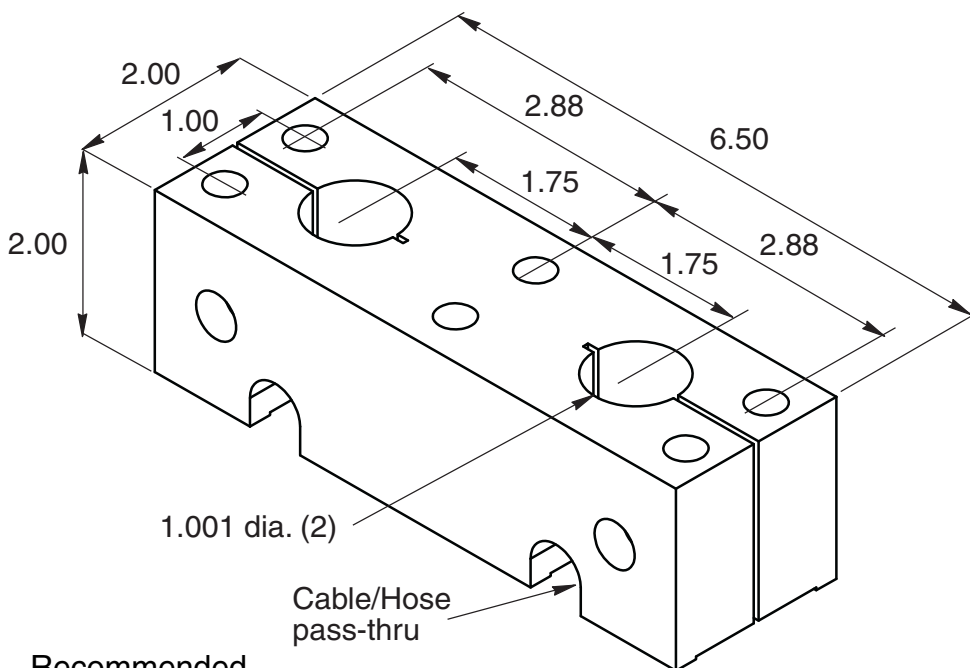


Material - Aluminum
Finish - Clear Anodize

with locking handle
with locking 5/16 SHCS

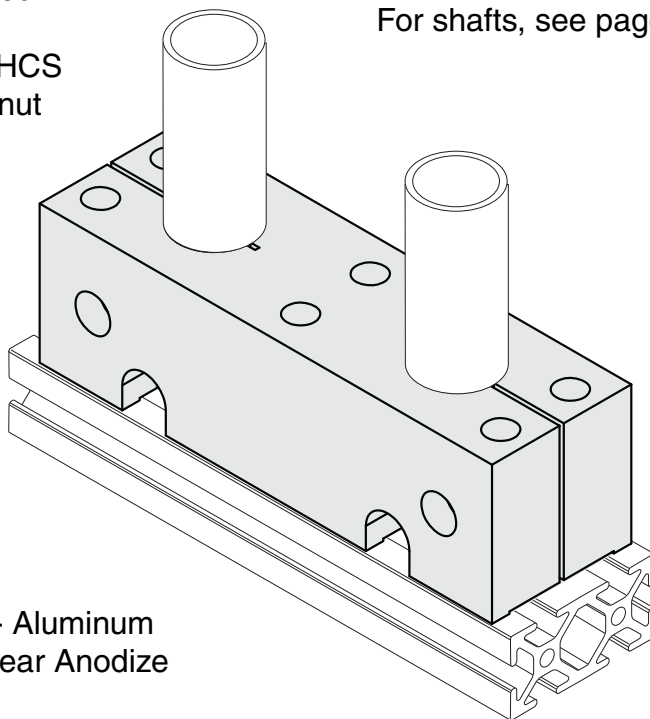
11-502

11-503



Recommended
Hardware
(6) 11-226 SHCS
(6) 11-205 T-nut

For shafts, see page 503



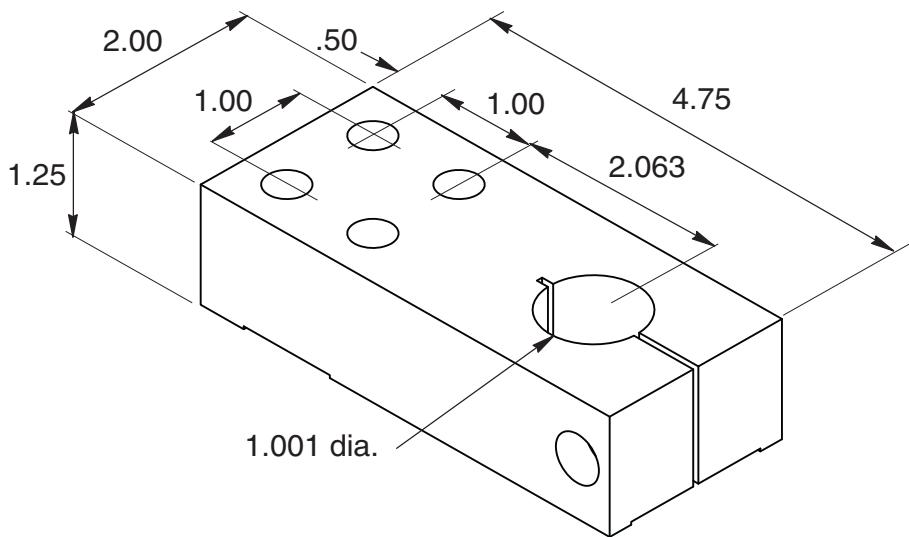
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Single Shaft Mounting Base



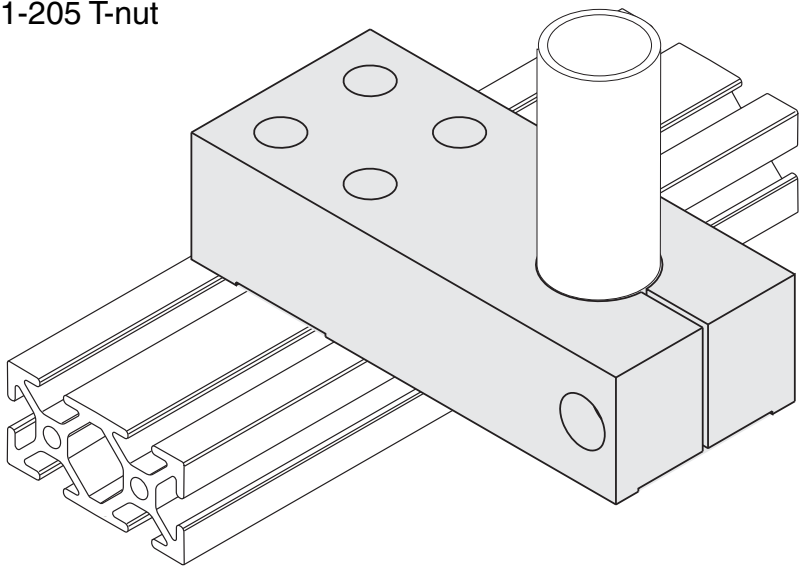
11-504	with locking handle
11-505	with locking 5/16 SHCS



Recommended
Hardware
(4) 11-223 SHCS
(4) 11-205 T-nut

For shafts, see page 503

1/4" SLOTS

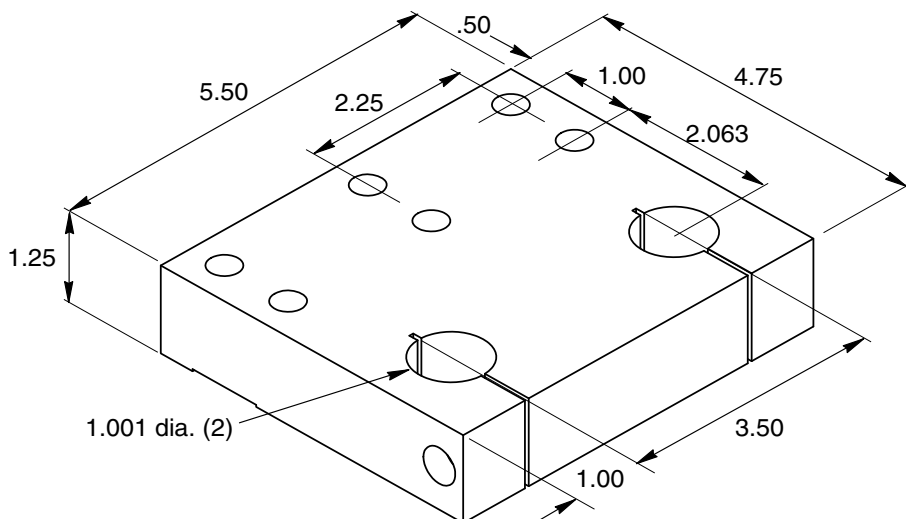


Material - Aluminum
Finish - Clear Anodize

with locking handle
with locking 5/16 SHCS

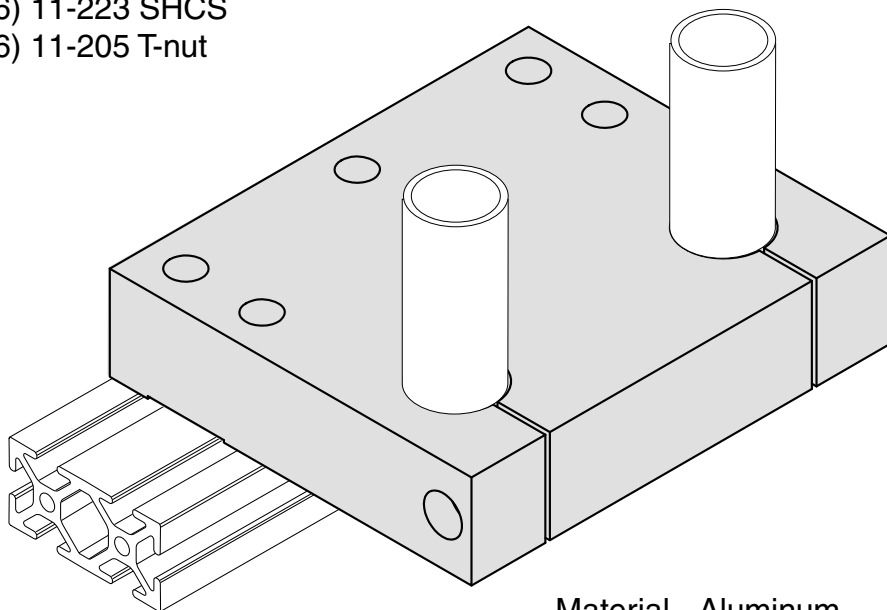
11-506

11-507



For shafts, see page 503

**Recommended
Hardware**
(6) 11-223 SHCS
(6) 11-205 T-nut



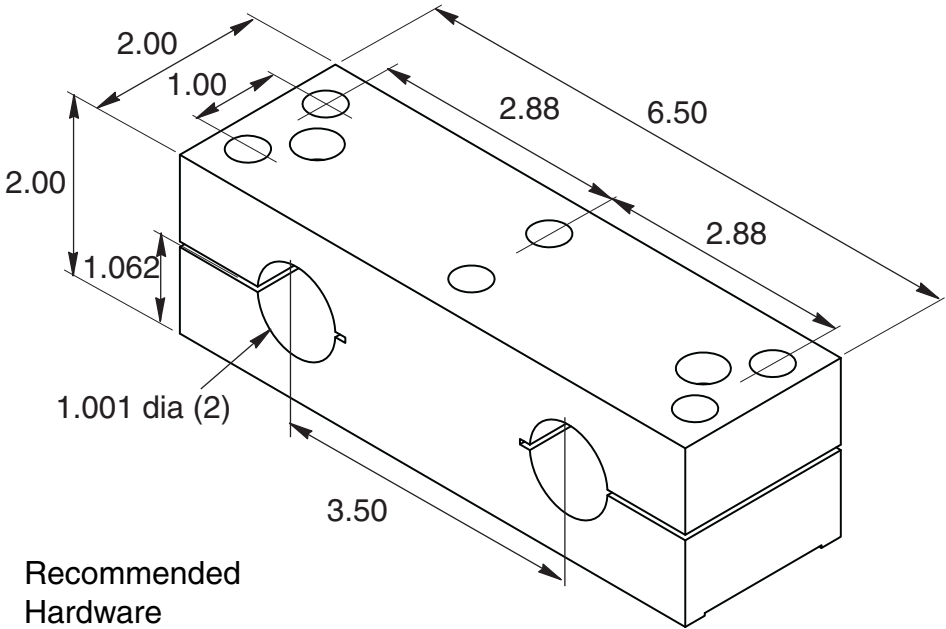
1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

Double Shaft Mounting Block



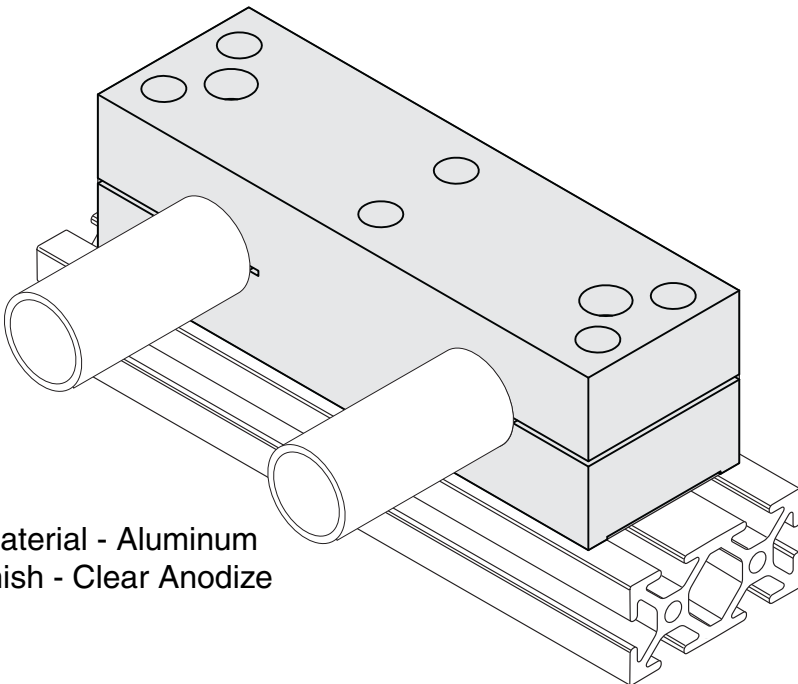
11-508	with locking handle
11-509	with locking 5/16 SHCS



Recommended
Hardware
(4) 11-224 SHCS
(4) 11-205 T-nut

For shafts, see page 503

1/4" SLOTS

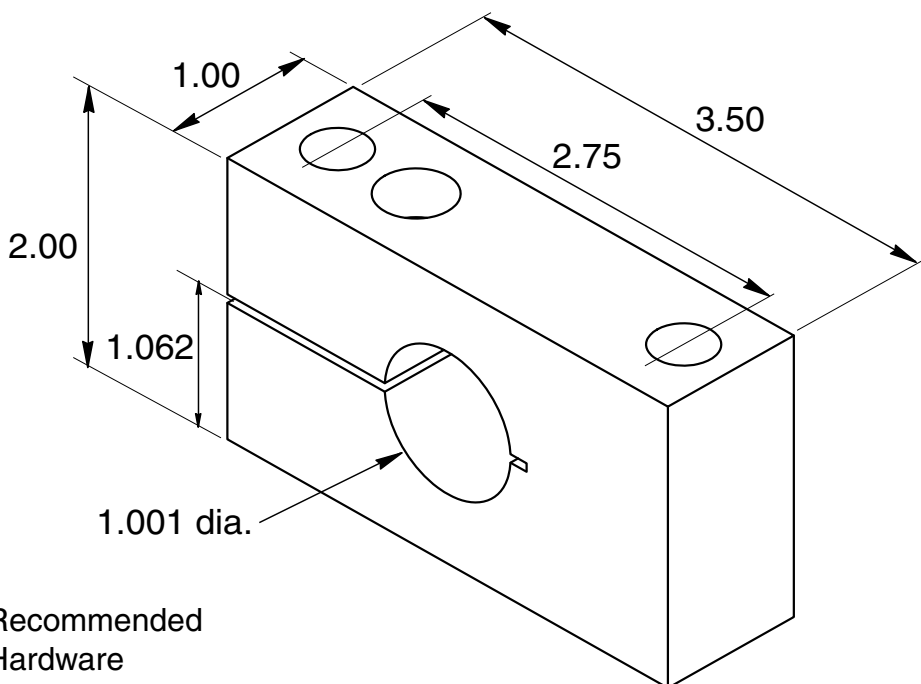


Material - Aluminum
Finish - Clear Anodize

with locking handle
with locking 5/16 SHCS

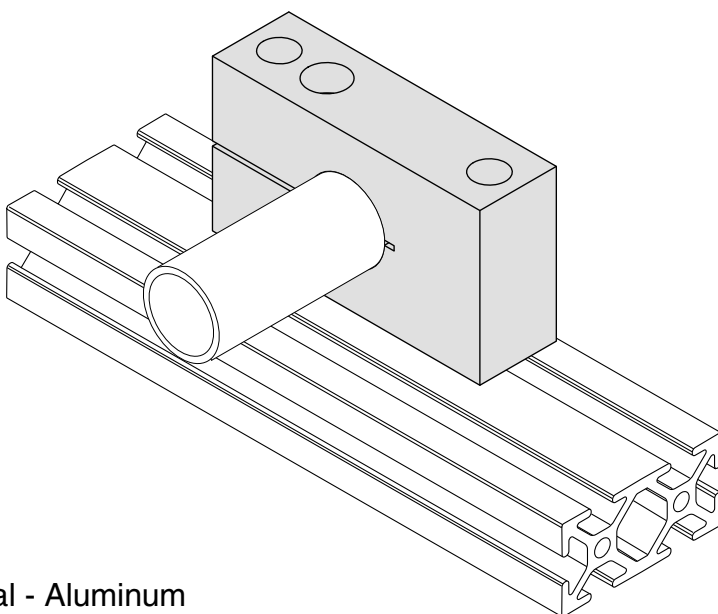
11-510

11-511



**Recommended
Hardware**
 (2) 11-224 SHCS
 (2) 11-205 T-nut

For shafts, see page 503



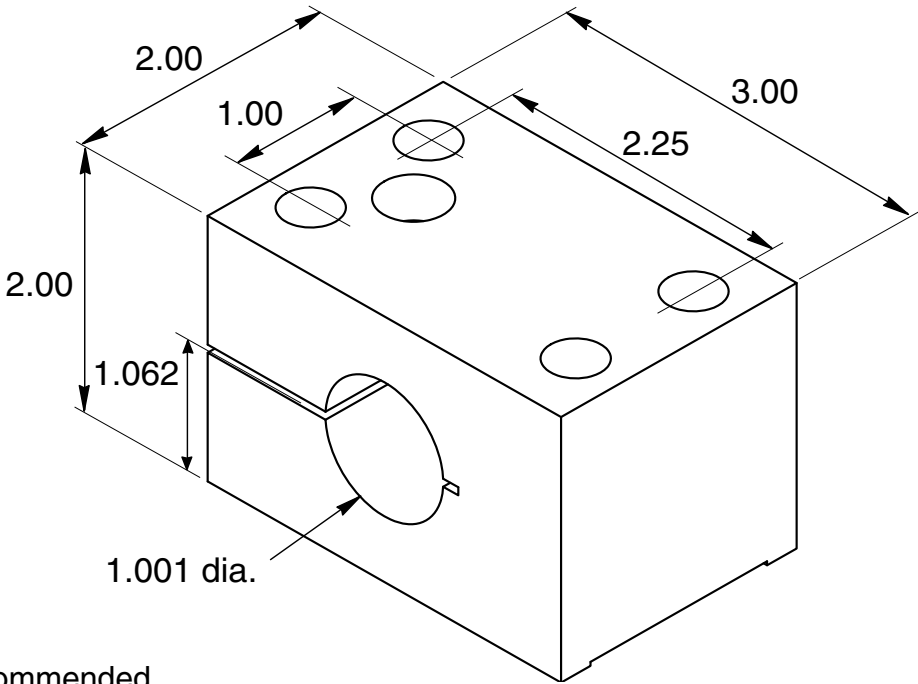
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Single Horizontal Base

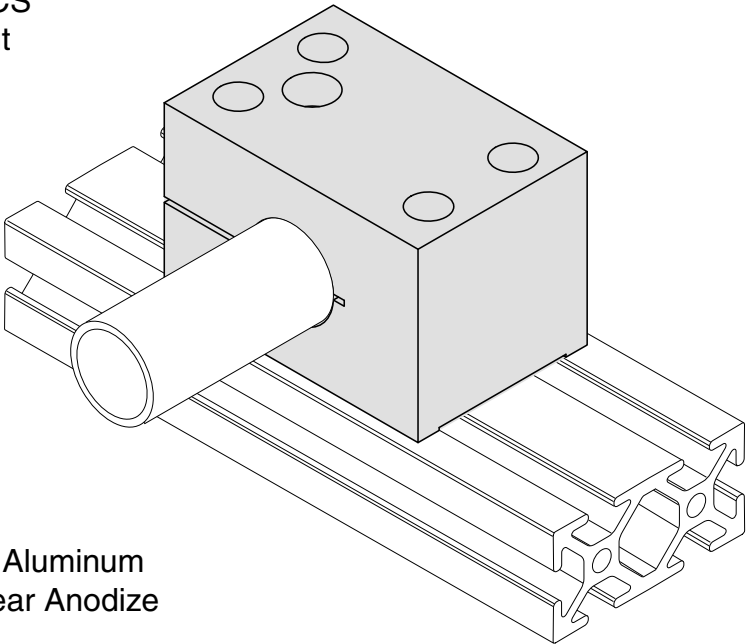


11-512	with locking handle
11-513	with locking 5/16 SHCS



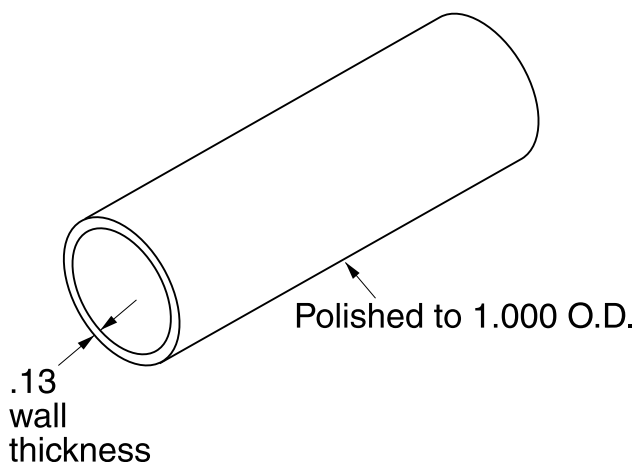
Recommended
Hardware
(4) 11-226 SHCS
(4) 11-205 T-nut

For shafts, see page 503



Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



EB-218 Anodized Aluminum
Stock Length = 71"

EB-219 Polished Steel
Stock Length = 71"

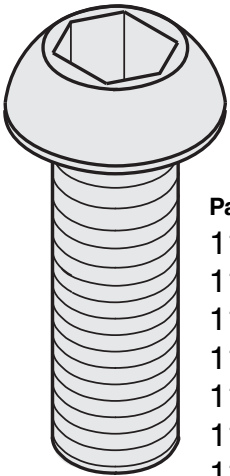
1/4" SLOTS

Note: For any length other than stock length for all of the above, add EM-1 cutting charge

Button Head Cap Screw



11-230
11-231
11-232
11-233
11-234
11-235
11-236
11-237

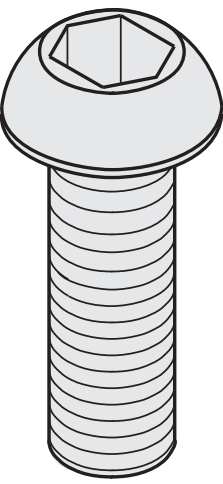


Part No.	
11-230	1/4"-20 thd x 3/8" long
11-231	1/4"-20 thd x 1/2" long
11-232	1/4"-20 thd x 5/8" long
11-233	1/4"-20 thd x 3/4" long
11-234	1/4"-20 thd x 1.0" long
11-235	1/4"-20 thd x 1.25" long
11-236	1/4"-20 thd x 1.5" long
11-237	1/4"-20 thd x 2.0" long

Finish - Black Oxide

11-456 Stainless Steel Button Head Cap Screw

1/4" SLOTS



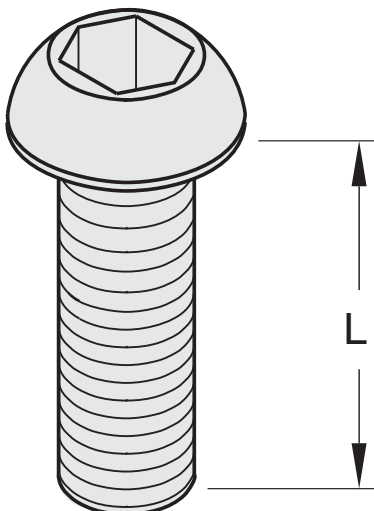
1/4-20 thd
L- inch
11-456 -.38
11-456 -.50
11-456 -.63
11-456 -.75
11-456 -1.0
11-456 -1.25

11-454

m6 x 1.0 thd

Steel	length
11-454-10	10mm
11-454-12	12mm
11-454-14	14mm
11-454-16	16mm
11-454-20	20mm
11-454-25	25mm
11-454-30	30mm
11-454-50	50mm

Stainless Steel	
11-454SS-12	12mm
11-454SS-16	16mm
11-454SS-20	20mm



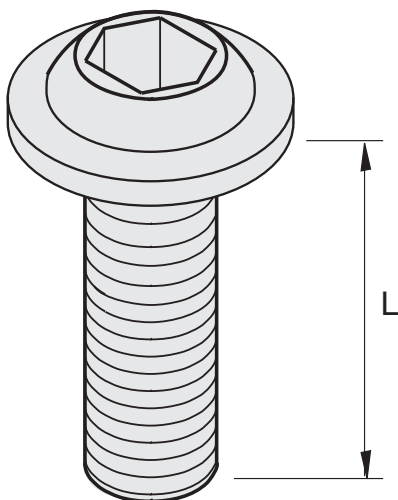
Material - Steel
Finish - Black Oxide

**Flanged Button Head
Cap Screw**

11-350

11-351

11-352



Part No.

11-350	$\frac{1}{4}$ -20 thd x $\frac{3}{8}$ " long
11-351	$\frac{1}{4}$ -20 thd x $\frac{1}{2}$ " long
11-352	$\frac{1}{4}$ -20 thd x $\frac{3}{4}$ " long

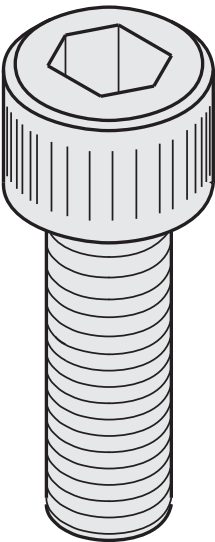
Stainless Steel

11-352-SS	$\frac{1}{4}$ -20 thd x $\frac{3}{4}$ " long
------------------	--

Finish - Black Oxide

1/4" SLOTS

11-220
11-221
11-222
11-223
11-224
11-225
11-226
11-228



Part No.	
11-220	$\frac{1}{4}$ "-20 thd x $\frac{3}{8}$ " long
11-221	$\frac{1}{4}$ "-20 thd x $\frac{1}{2}$ " long
11-222	$\frac{1}{4}$ "-20 thd x $\frac{5}{8}$ " long
11-223	$\frac{1}{4}$ "-20 thd x $\frac{3}{4}$ " long
11-224	$\frac{1}{4}$ "-20 thd x 1.0" long
11-225	$\frac{1}{4}$ "-20 thd x 1.25" long
11-226	$\frac{1}{4}$ "-20 thd x 1.50" long
11-228	$\frac{1}{4}$ "-20 thd x 2.0" long

1/4" SLOTS

Finish - Black Oxide

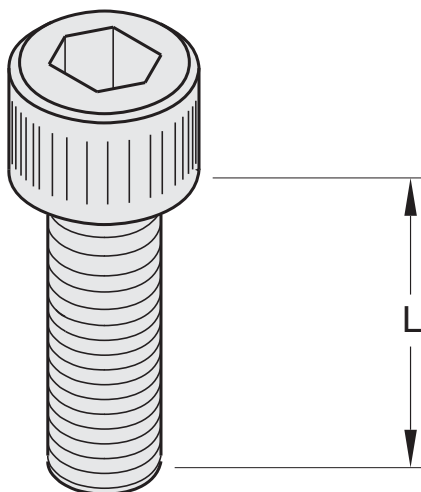
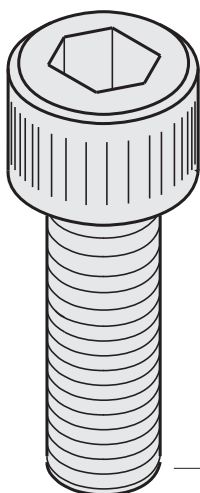
m6 x 1.0 thd

11-450
Steel
length

11-450-10	10mm
11-450-12	12mm
11-450-16	16mm
11-450-20	20mm
11-450-25	25mm
11-450-30	30mm
11-450-35	35mm

Stainless Steel

11-450SS-10	10mm
11-450SS-12	12mm
11-450SS-16	16mm
11-450SS-20	20mm
11-450SS-25	25mm
11-450SS-30	30mm
11-450SS-35	35mm


**Stainless Steel
Socket Head Cap Screw**
11-452


1/4-20 thd

L-inch

11-452 -.5
11-452 -.63
11-452 -.75
11-452 -1.0
11-452 -1.25
11-452 -1.5

1/4" SLOTS

11-220K

Socket Head

Fractional

(1/4 - 20 thd)

Part No Thread Length

11-220K .375

11-221K .50

11-222K .63

11-223K .75

11-224K 1.00

Metric

(M6 x 1.0 thd)

Part No Thread Length

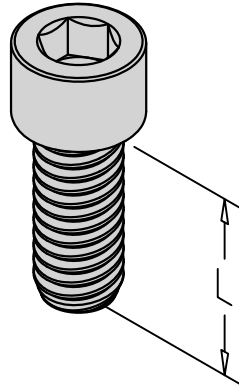
11-450K-10 10

11-450K-12 12

11-450K-16 16

11-450K-20 20

11-450K-25 25



Material - Steel
Finish - Bright Zinc Plated

11-230K

Button Head

Fractional

(1/4 - 20 thd)

Part No Thread Length

11-230K .375

11-231K .50

11-232K .63

11-233K .75

11-234K 1.00

Metric

(M6 x 1.0 thd)

Part No Thread Length

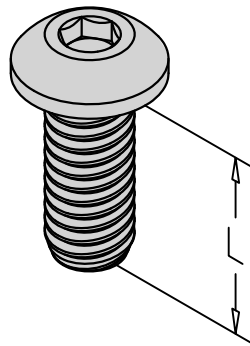
11-454K-10 10

11-454K-12 12

11-454K-16 16

11-454K-20 20

11-454K-25 25



Material - Steel
Finish - Bright Zinc Plated

1/4" SLOTS

11-458

Fractional
(1/4" - 18 thd)

L = inch

11-458-.38

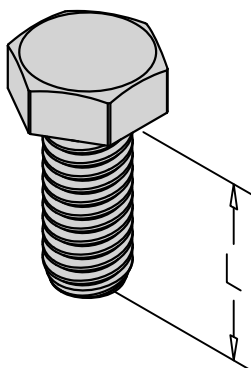
11-458-.50

11-458-.63

11-458-.75

11-458-1.00

11-458-1.25



Metric

(M6 x 1.0 thd)

L = mm

11-458M-12

11-458M-16

11-458M-20

11-458M-25

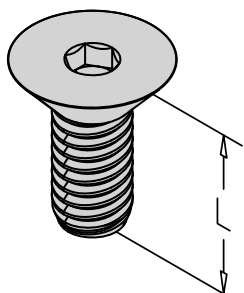
11-458M-30

Material - Steel

Finish - Bright Zinc Plated

Material - Steel

Finish - Yellow Zinc Plated



Flat Head Socket Cap Screws

5/16-18 thd.

EF-156

1/4-20 thd.

EF-157

#10-32 thd.

EF-158

Steel

(1/4" - 20 thd)

L = inch

EF-157-.50

EF-157-.63

EF-157-.75

EF-157-.88

EF-157-1.0

Stainless Steel

(1/4" - 20 thd)

L = inch

EF-157SS-.50

EF-157SS-.63

EF-157SS-.75

EF-157SS-.875

(#10-32 thd)

L = inch

EF-158SS-.38

EF-158SS-.50

EF-158SS-.63

EF-158SS-.75

EF-158SS-1.0

Metric

(m8 x 1.25 thd)

stainless steel

FM8-16-SS

FM8-20-SS

(m6 x 1.0 thd) steel

FM6-12

FM6-14

FM6-16

FM6-20

FM6-25

FM6-30

FM6-40

(m6 x 1.0 thd)

stainless steel

FM6-12-SS

FM6-14-SS

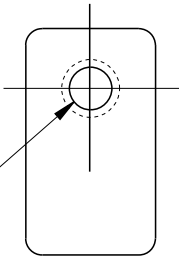
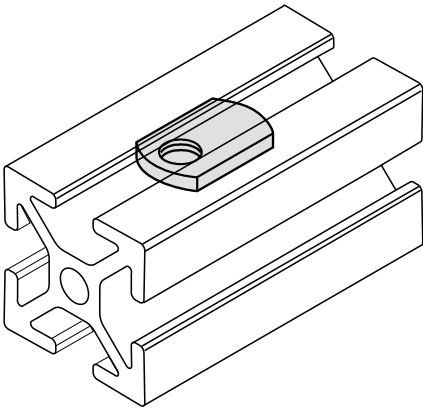
FM6-16-SS

1/4" SLOTS

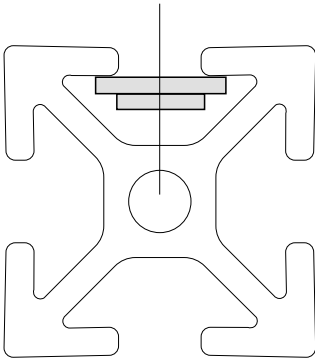
Economy T-Nut (Offset Thread)



11-210
11-211
11-212
11-213
11-214
11-239



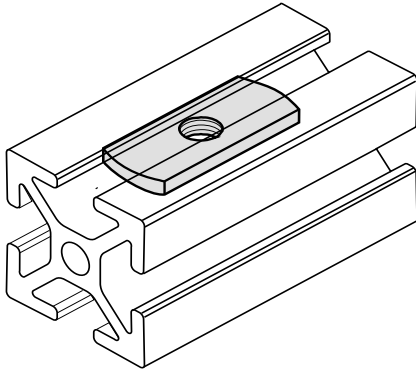
- | | |
|--------|--------------|
| 11-210 | 1/4-20 thd |
| 11-211 | 10-32 thd |
| 11-212 | m6 x 1.0 thd |
| 11-213 | 8-32 thd |
| 11-214 | 6-32 thd |
| 11-239 | m5 x 0.8 thd |



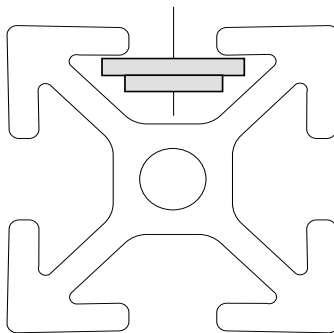
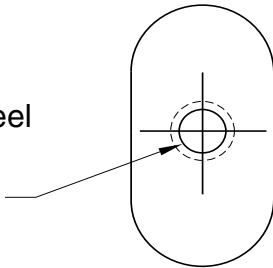
1/4" SLOTS

Material - Steel
Finish - Zinc Plated

11-215
11-215SS
11-216
11-217
11-219



- 11-215** 1/4-20 thd
- 11-215SS** Stainless Steel 1/4-20 thd
- 11-216** 10-32 thd
- 11-217** 8-32 thd
- 11-219** 6-32 thd

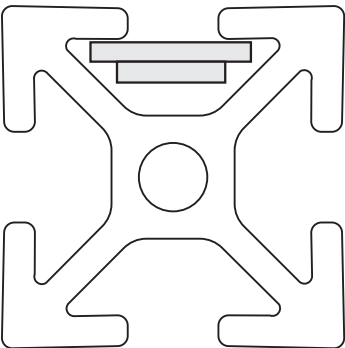
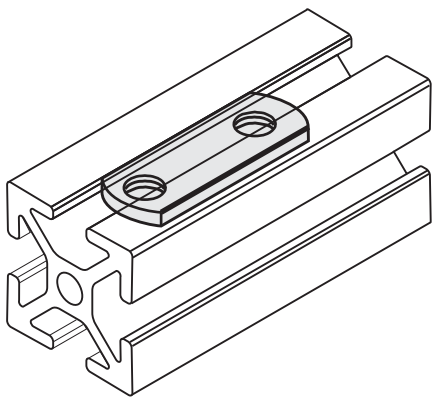
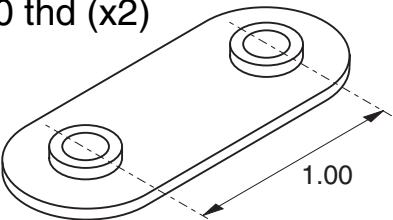


Material - Steel
Finish - Zinc Plated

1/4" SLOTS

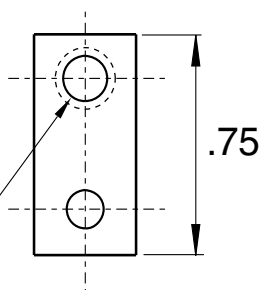
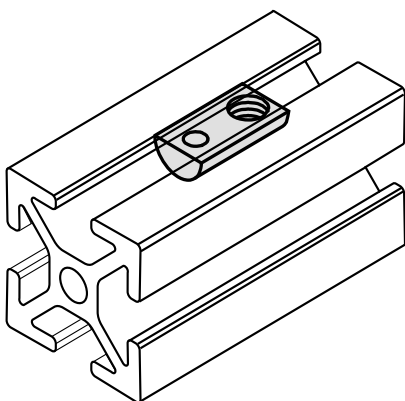
11-360

1/4-20 thd (x2)



1/4" SLOTS

Material - Steel
Finish - Zinc Plated

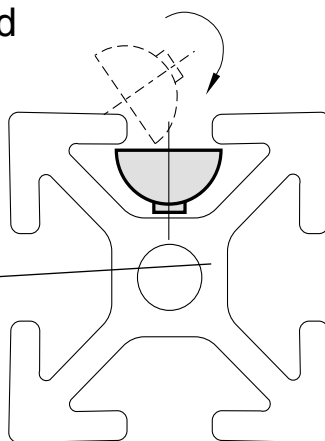
11-201
11-202
11-203
11-227

Part No.
11-201 1/4-20 thd

11-202 10-32 thd

11-203 m6 x 1.0 thd

11-227 8-32 thd

Rubber bumper

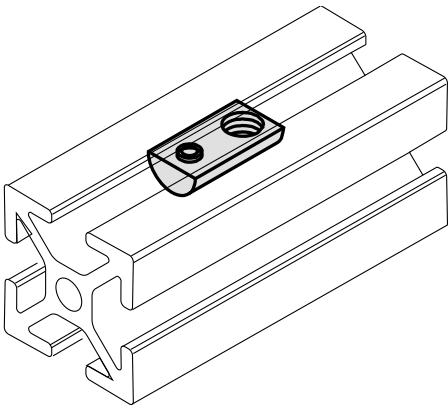

1/4" SLOTS

Material - Steel
Finish - Zinc Plated

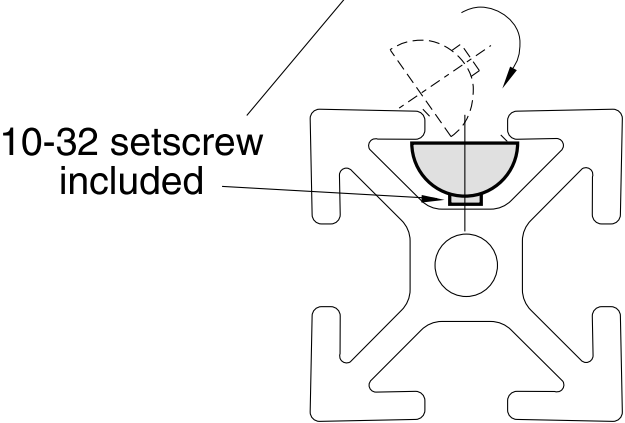
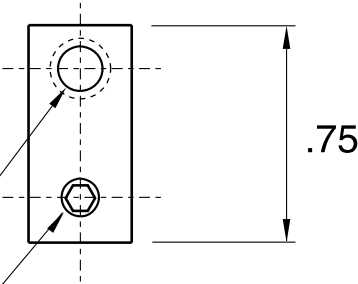
Pivot T-nut with Set Screw



11-340
11-341
11-342

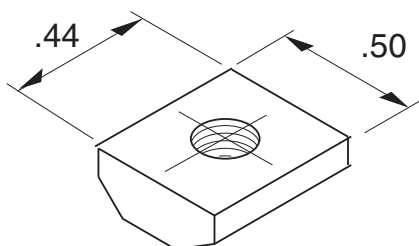


- 11-340** 1/4-20 thd
- 11-341** 10-32 thd
- 11-342** m6 x 1.0 thd

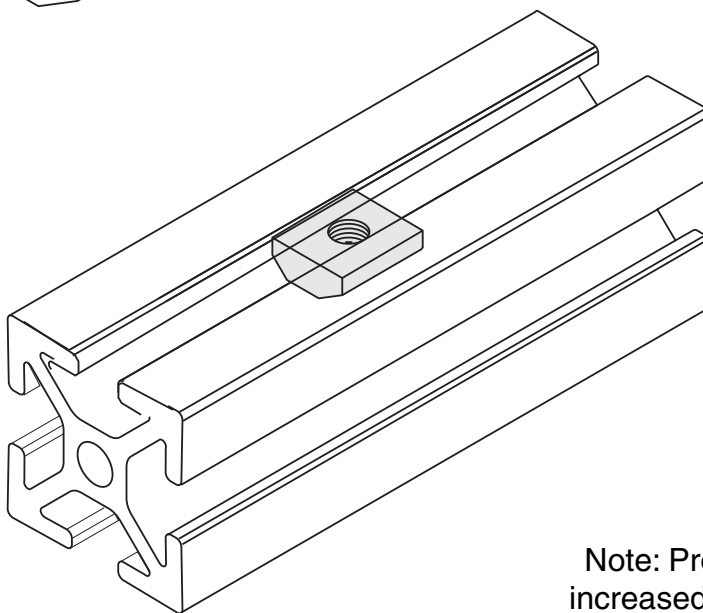


1/4" SLOTS

Material - Steel
Finish - Zinc Plated

11-205
11-206
11-207
11-208
11-209


11-205	1/4-20 thd
11-206	10-32 thd
11-207	m6 x 1.0 thd
11-208	8-32 thd
11-209	6-32 thd



Note: Provides
increased thread
engagement

1/4" SLOTS

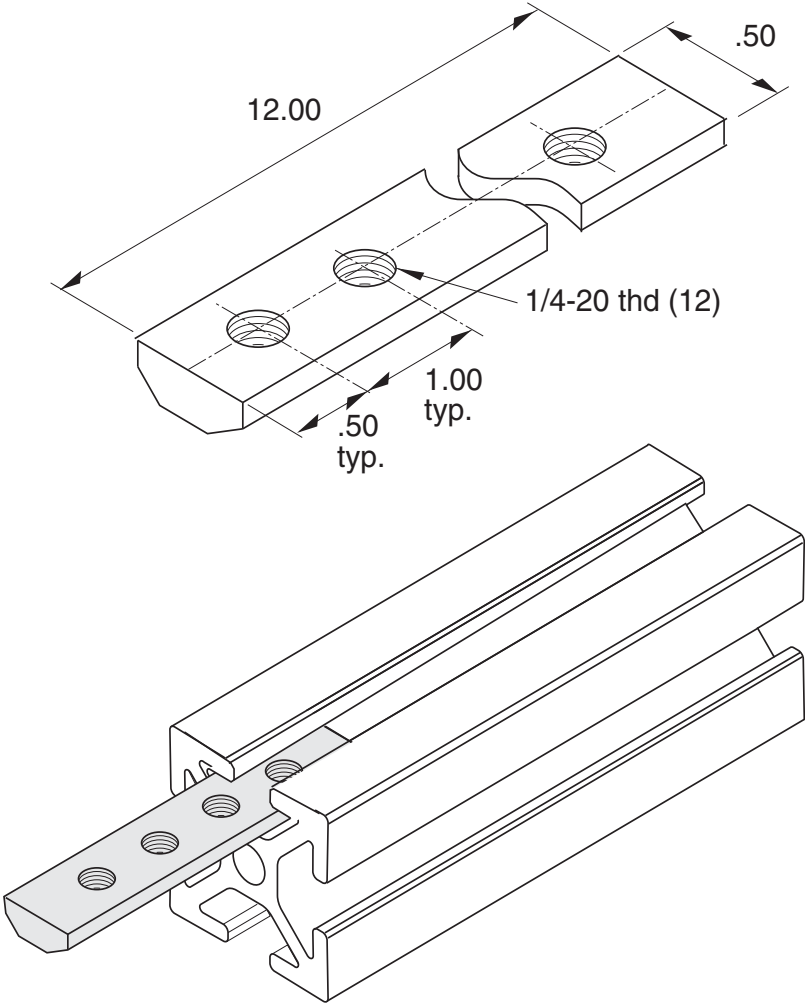
Material - Steel
Finish - Zinc Plated

Continuous T-nut



11-218

.26 slot width

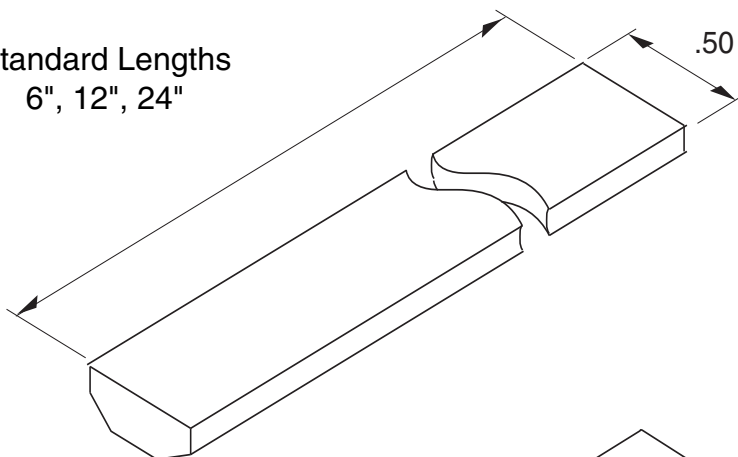


1/4" SLOTS

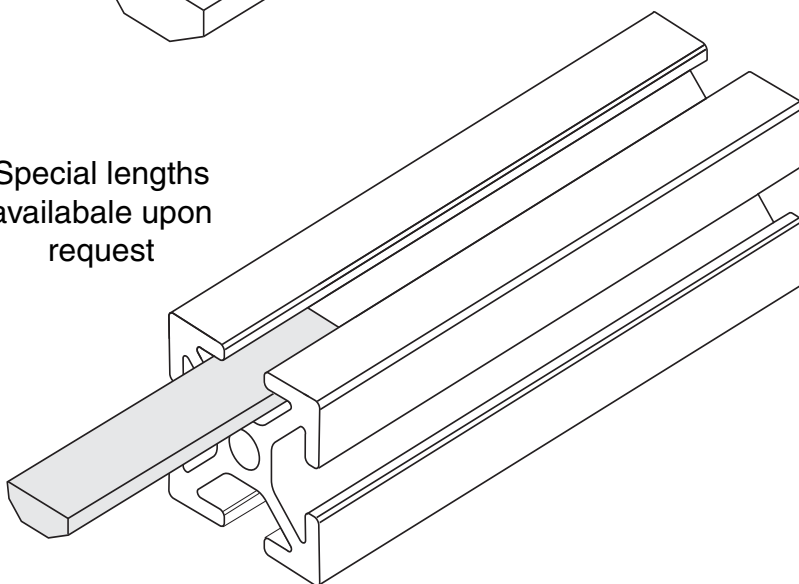
Special Lengths can be provided on request
Material is zinc plated steel

Material - Steel
Finish - Zinc Plated

Standard Lengths
6", 12", 24"



Special lengths
available upon
request



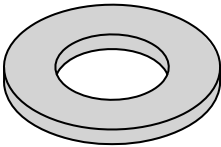
Note: Factory supplied tapped
holes can be supplied per
customer specification

Material - Steel
Finish - Zinc Plated

1/4" SLOTS

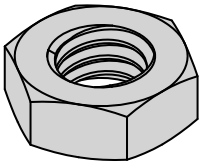
1/4" Washers and Nuts

11-240



- 11-240** Washer Hardened Steel
Heavy Duty (Black Oxide)
- 11-240SS** Washer (Stainless Steel)
- 11-240S** Washer (Zinc Plated)
- 11-240M** M6 Washer

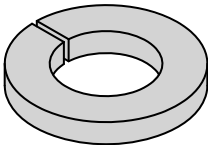
Material - Steel
Finish - Black Oxide



- 11-241** 1/4-20 Hex Nut
- 11-241SS** 1/4-20 Hex Nut
(Stainless Steel)
- 11-241M** M6 x 1.0 Hex Nut
- 11-241M5** M5 x 0.8 Hex Nut

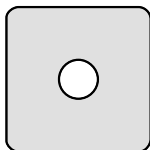
Material - Steel
Finish - Zinc Plated

1/4" SLOTS

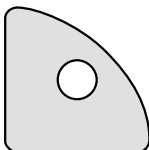


- 11-240L** Locking Washer
- 11-240L-SS** Locking Washer
(Stainless Steel)

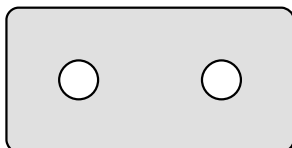
Material - Steel
Finish - Zinc Plated



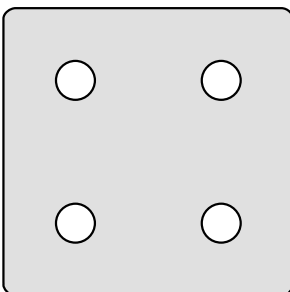
11-250
use with Extrusion EX-11



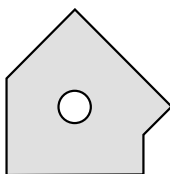
11-277
use with Extrusion EX-14



11-257
use with Extrusion EX-12



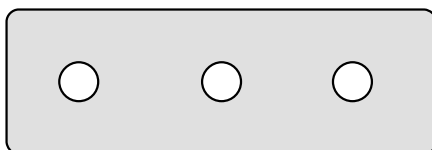
11-258
use with Extrusion EX-22



11-358
use with
Extrusion EX-23



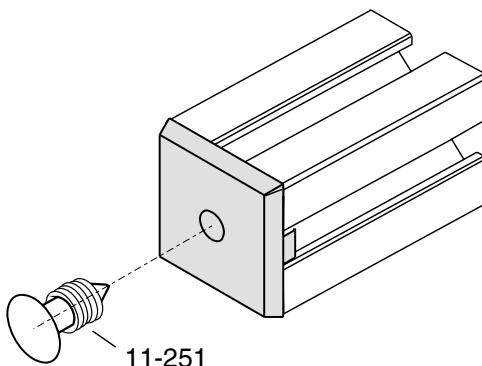
11-359
use with Extrusion EX-28



11-259
use with Extrusion EX-13



11-357
use with Extrusion EX-21



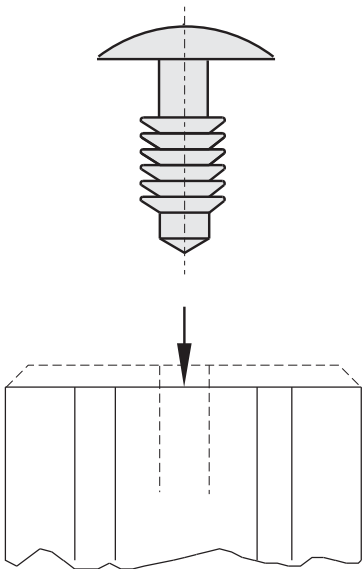
Push Lock Fasteners
Included with each end plate

1/4" SLOTS

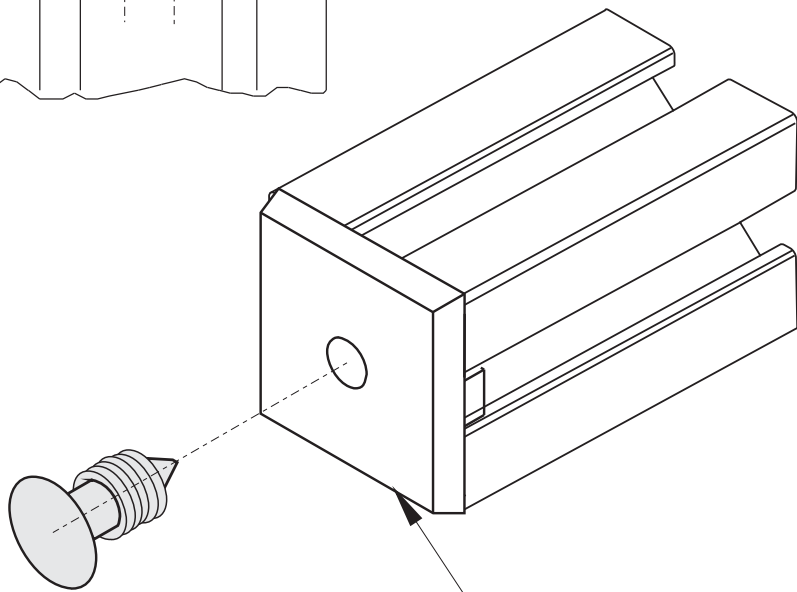
Note: For metal covers,
consult the factory

Material - Black ABS

11-251



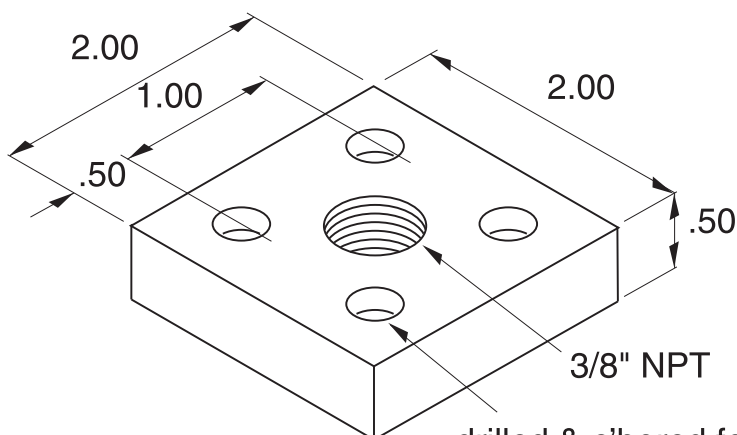
Note: thread bolt hole for permanent installation



To be used with
Plastic End Caps

Material - Nylon

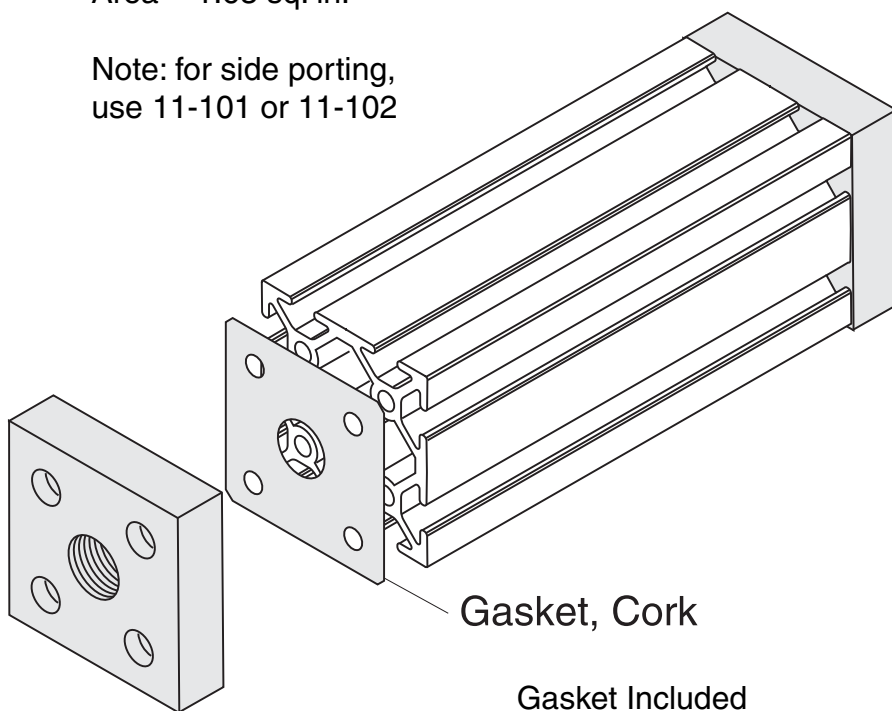
1/4" SLOTS



Cross Sectional
Area = 1.63 sq. in.

drilled & c'bored for
1/4-20 shcs (4)

Note: for side porting,
use 11-101 or 11-102



Gasket, Cork

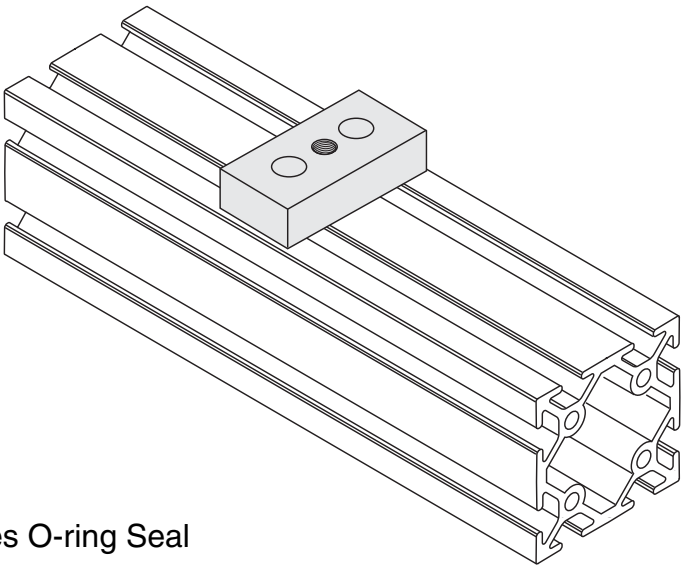
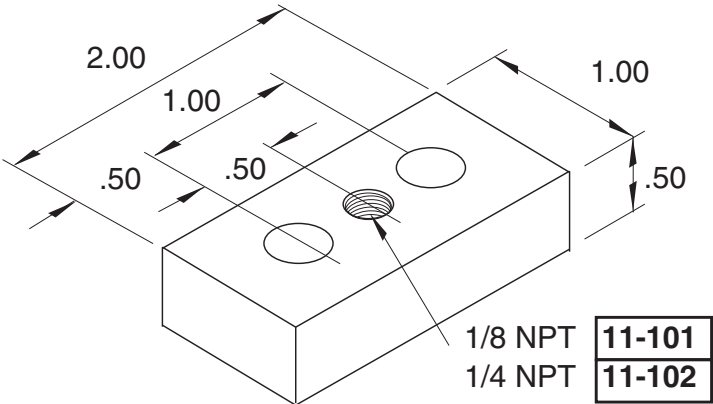
Gasket Included
Requires (4) 11- 224 SHCS

Material - Aluminum
Finish - Clear Anodize

Pressure Manifold Plate



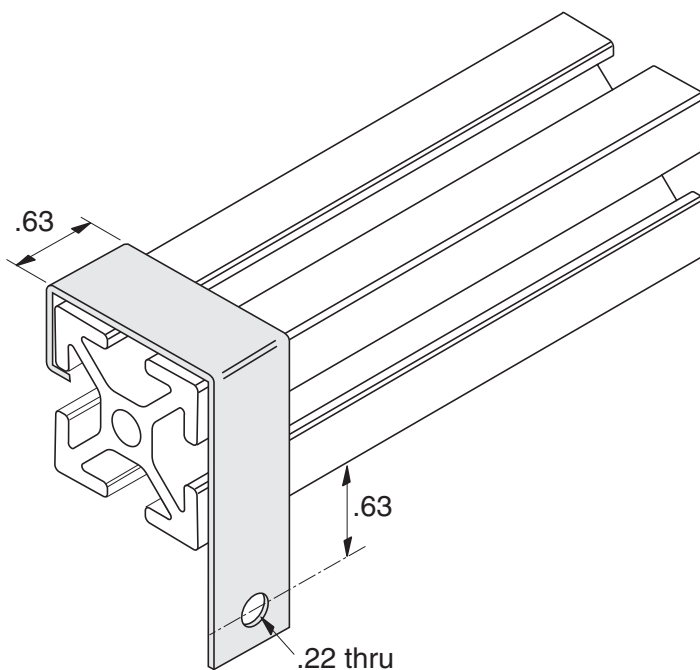
11-101
11-102



Includes O-ring Seal
Requires
(2) 11-221 SHCS
(2) 11-210 T-Nut

O-ring Material - Buna N
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

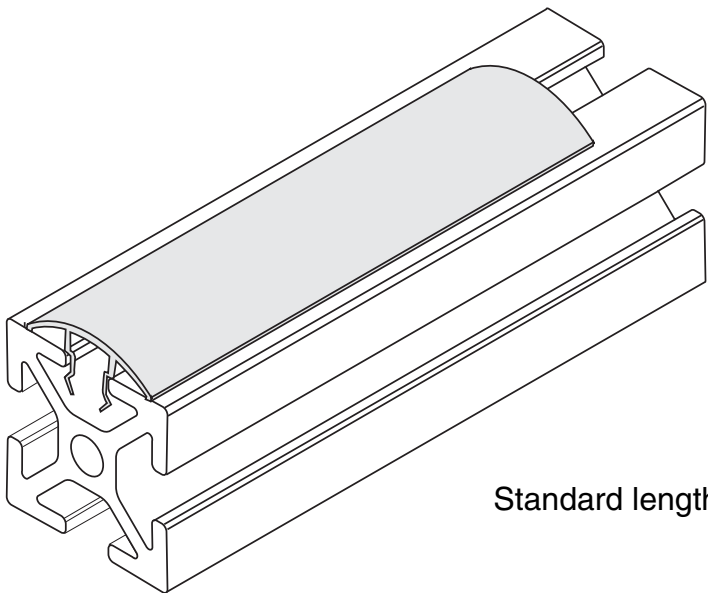


Material Steel
Finish: Zinc Plated

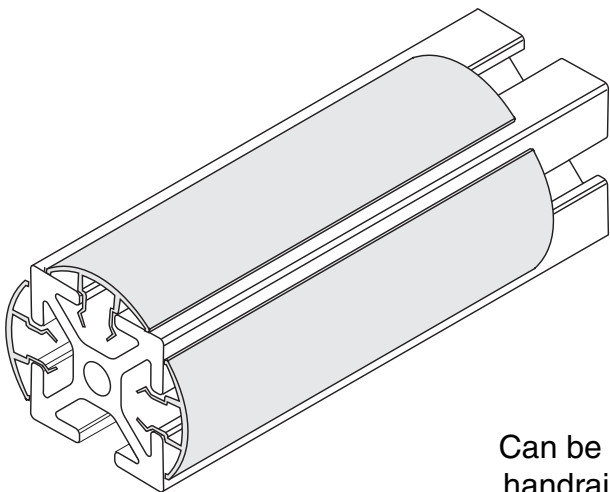
1/4" SLOTS

11-320

use on all 1/4" slot extrusions
with 1.0" sides



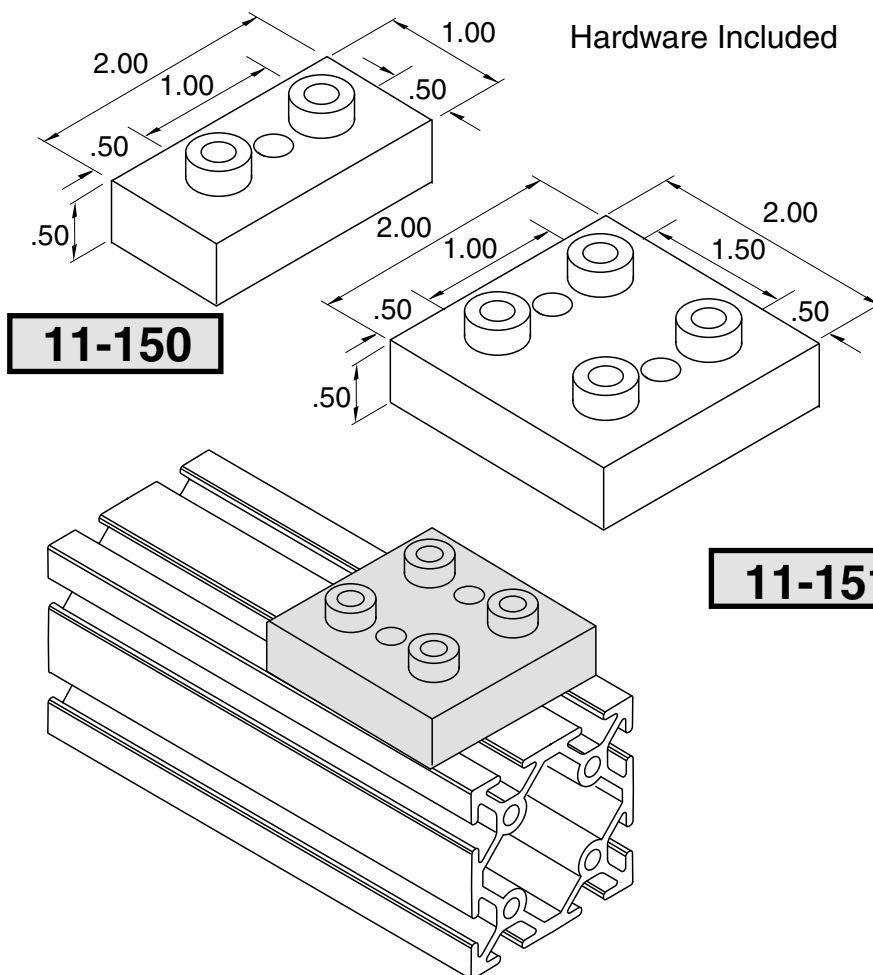
Standard length 72"



Can be used as
handrail covers

Material - Rigid PVC
Color - Black

1/4" SLOTS

11-150
11-151


Use on EX-11, EX-12, EX-13, EX-22 for drilling access holes for universal style corners

Material - Aluminum
Finish - Clear Anodize

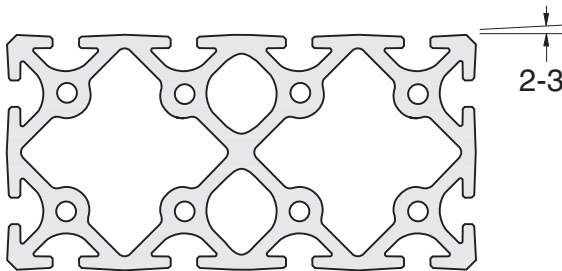
FRAME-WORLD Extruded Aluminum Specifications and Tolerances

- **Flatness:** within .004" per inch of width
- **Twist:** will not exceed .25° per foot with a maximum of 1.5° total in (16) feet.
- **Straightness:** within .0125" per foot and within a maximum of .120 in (16) feet
- **Yield Strength:** 35,000 PSI
- **Tensile Strength:** 38,000 PSI
- **Surface Finish:** Etch and clear anodize standard
Powder Coating in color is also available.

Metric Sizes for FRAME-WORLD Extrusions and Accessories

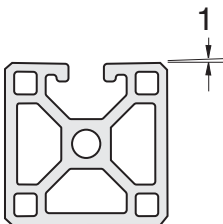
FRAME-WORLD extrusions and accessories are designed using standard American dimensions, and use American dimension fasteners. Metric size fasteners are stocked as catalog items and conversion of extrusion profile to nominal or nearest metric size in whole mm is simple: 1 inch = 25 mm, 1.5 inches = 38 mm, 3 inches = 76 mm.

Self Locking Feature (5/16" wide slots)



Our EX-1, EX-2, EX-26, EX-3 and EX-36 extrusion has a 2-3 degree decline form the extrusion edge to slot centerline.

Self Locking Feature (5/16" wide slots)



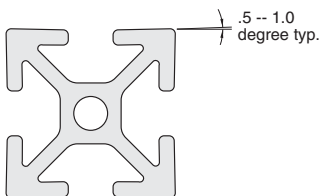
Our EX-6, EX-7, EX-8, EX-52, EX-54, EX-61, EX-63, EX-64, EX-65, EX-66, EX-67, EX-68 and EX-69 extrusions have a 1 degree decline from the extrusion edge.

When fasteners are properly tightened, this feature serves as a lock mechanism to form a shake-proof connection.

Recommended torque on fasteners

5/16-18 or m8 thread - 15 to 20 ft/lbs.

Self Locking Feature (1/4" wide slots)



The FRAME-WORLD EX-11, EX-12, EX-13, EX-14, EX-22, EX-70, EX-71, EX-72, EX-73 and EX-24 extrusions have a .5 – 1.0 degree decline from extrusion edge to slot centerline.

This feature serves as a lock mechanism forming a shake-proof connection to keep all fasteners tight.

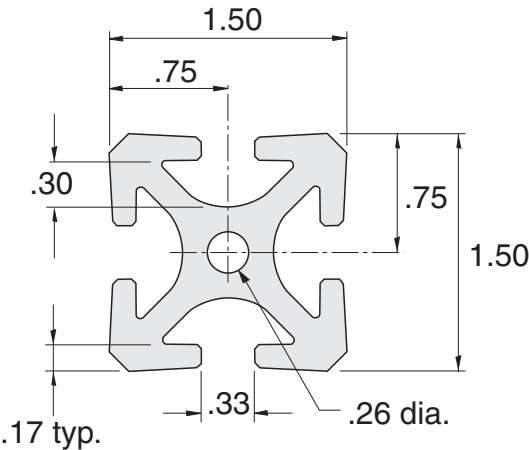
Recommended torque on fasteners

1/4-20 or m6 thread - 12 to 17 ft/lbs.

EX-1
BLX-1

Clear Anodized

Black Anodized

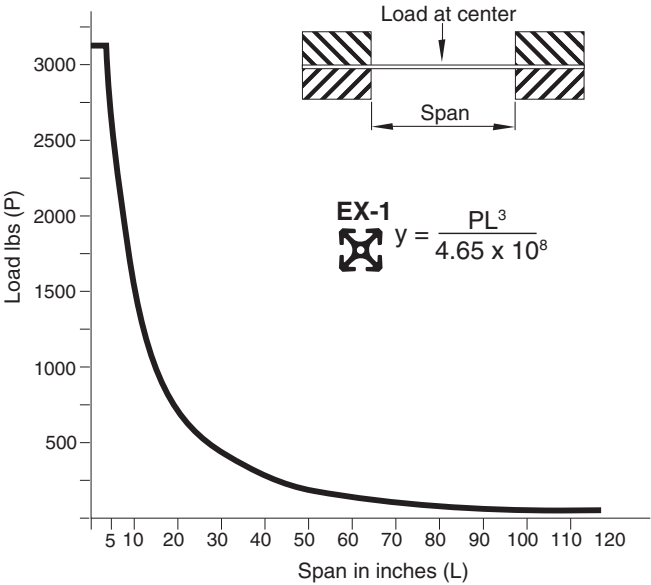


- Material = 6105-T5 Aluminum
- Est. Area = 1.164 Sq. In.
- Weight/ft = 1.4522 lbs.
- 96", 144.25" (clear), 192.63" Lengths standard.

Section Properties:

Moment of Intertia in⁴ .242
Section modulus in³ .323

Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



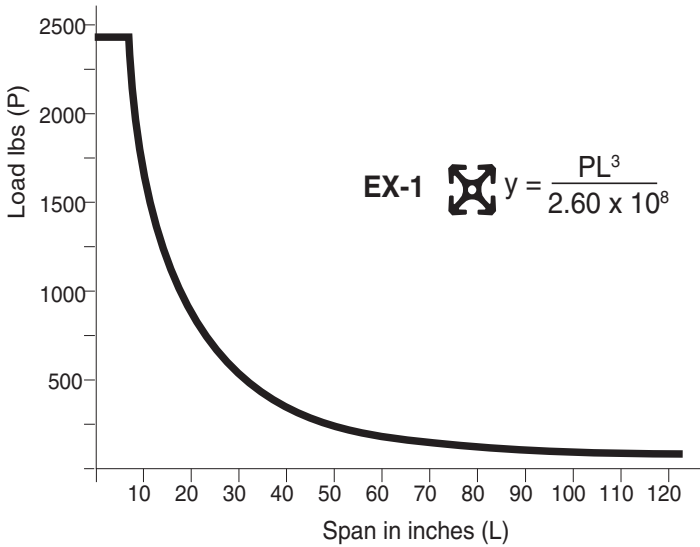
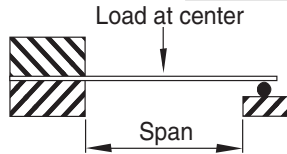
Clear Anodized

EX-1

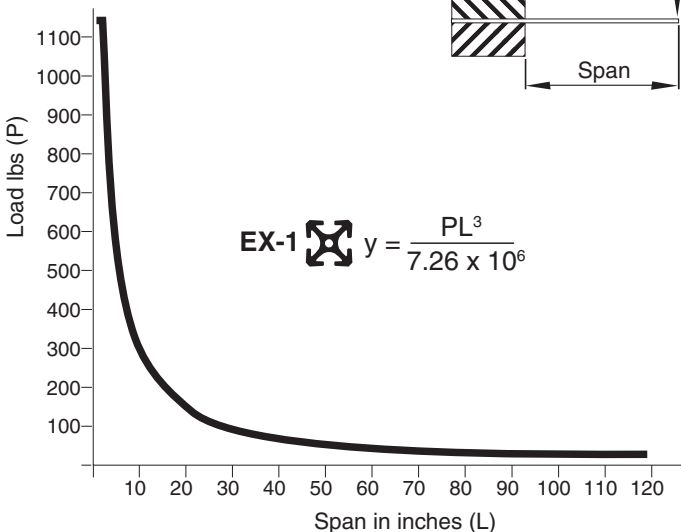
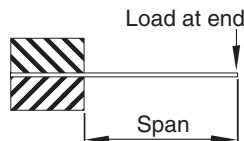
Black Anodized

BLX-1

Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)

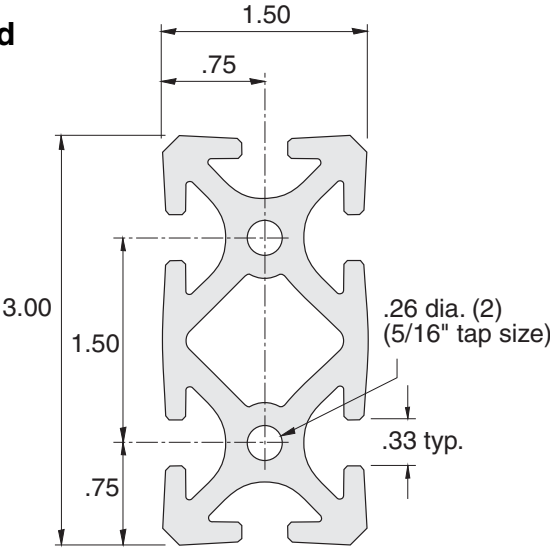


EX-2
BLX-2

Clear Anodized

Black Anodized

- Material = 6105-T5 Aluminum
- Est. Area = 2.051 Sq. In.
- Weight/ft = 2.471 lbs.
- 96", 144.25" (clear), 192.63" Lengths standard.



Section Properties:

Moment of Intertia in⁴

Section modulus in³

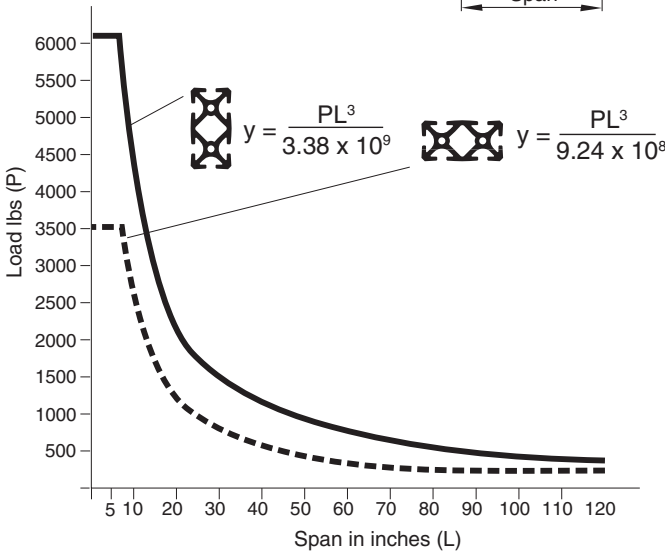
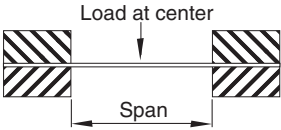
1.76

1.173

.481

.641

Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



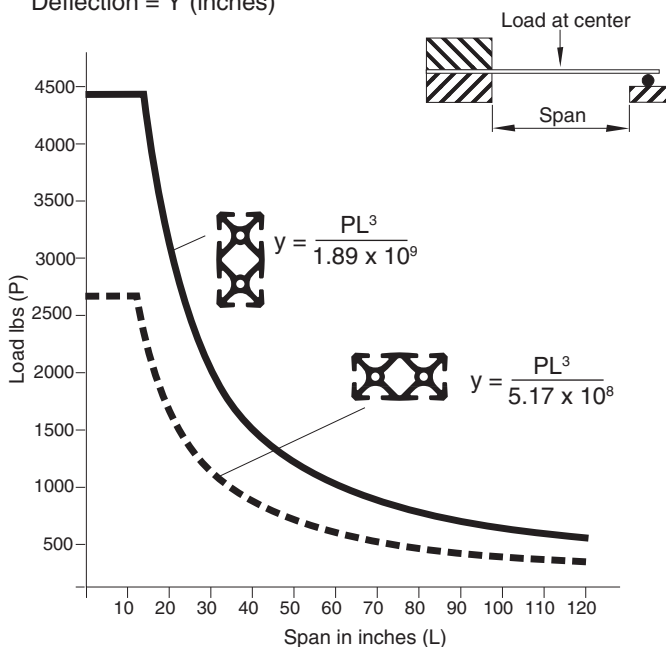
Clear Anodized

EX-2

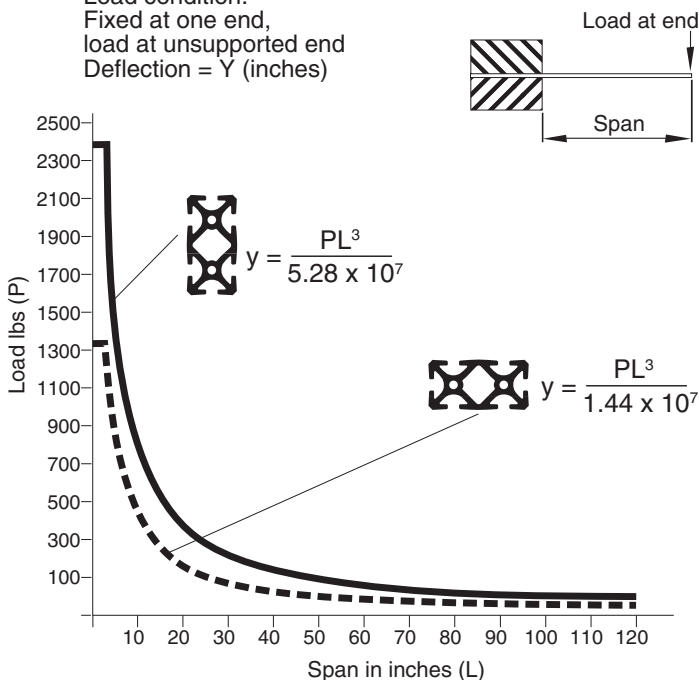
Black Anodized

BLX-2

Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



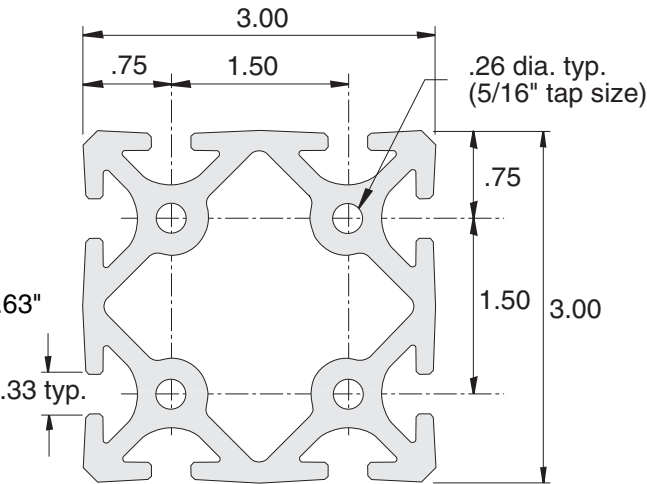
EX-3

Clear Anodized

BLX-3

Black Anodized

- Material = 6105-T5 Aluminum
- Est. Area = 3.188 Sq. In.
- Weight/ft = 4.037 lbs.
- 96", 144.25" (clear), 192.63" Lengths standard.



Section Properties:

Moment of Inertia in⁴

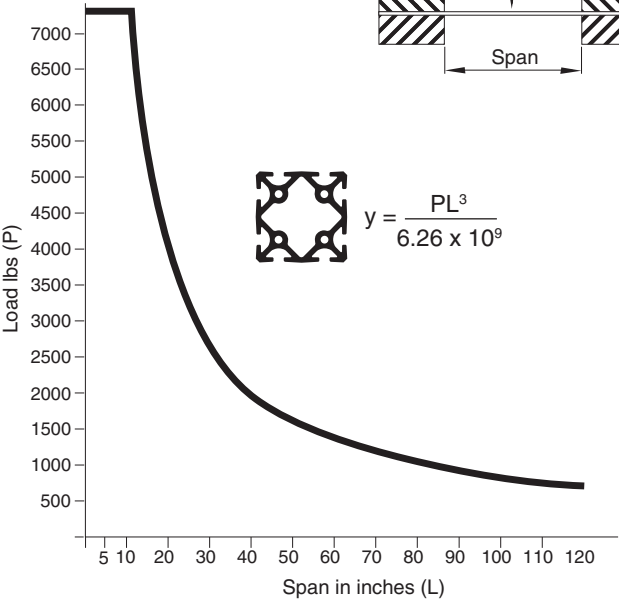
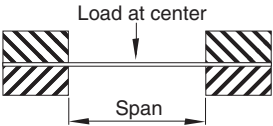


3.26

Section modulus in³

2.173

Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



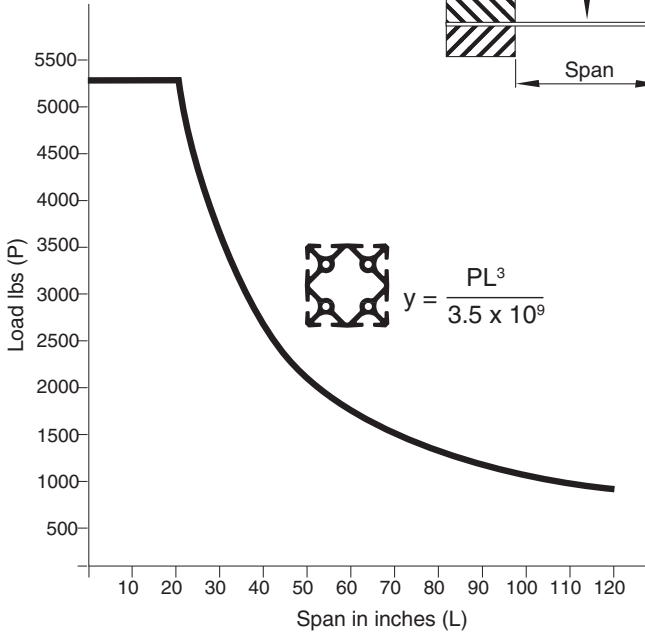
Clear Anodized

EX-3

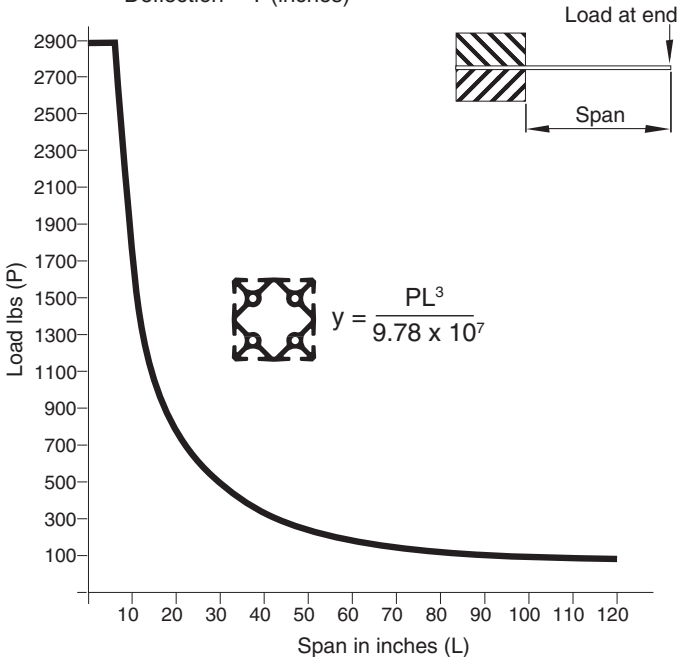
Black Anodized

BLX-3

Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



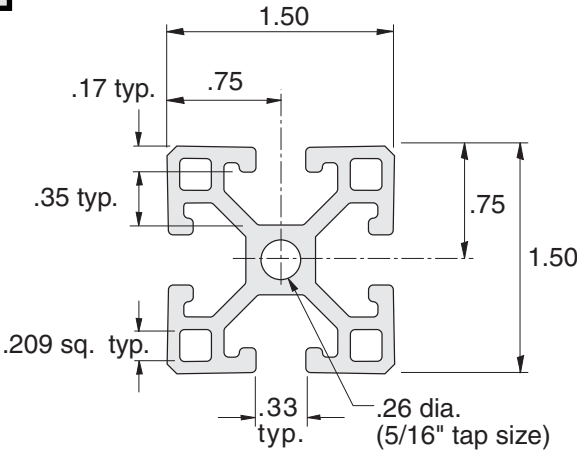
Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-6
BLX-6

Clear Anodized

Black Anodized

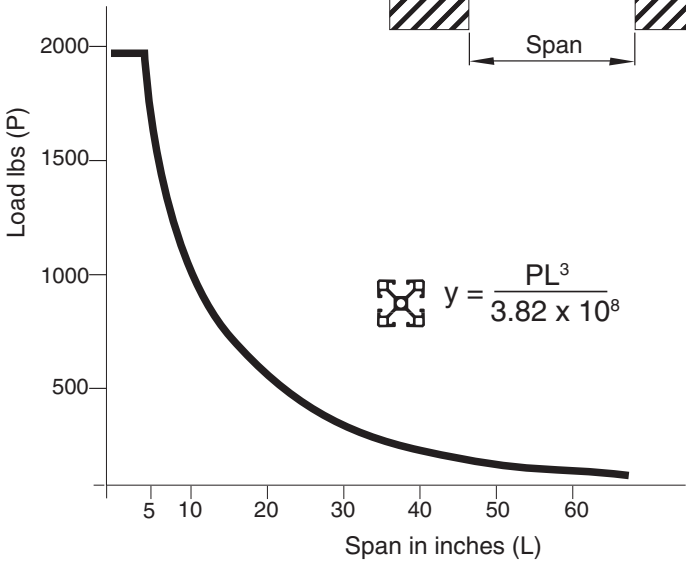
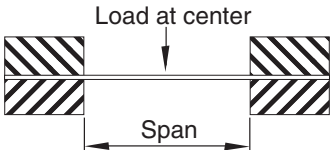


- Material = 6105-T5 Aluminum
- Est. Area = .878 Sq. In.
- Weight/ft = 1.029 lbs.
- 96", 144.25" (clear), 192.63" Lengths standard.

Section Properties:

Moment of Intertia in ⁴	.199
Section modulus in ³	.265

Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



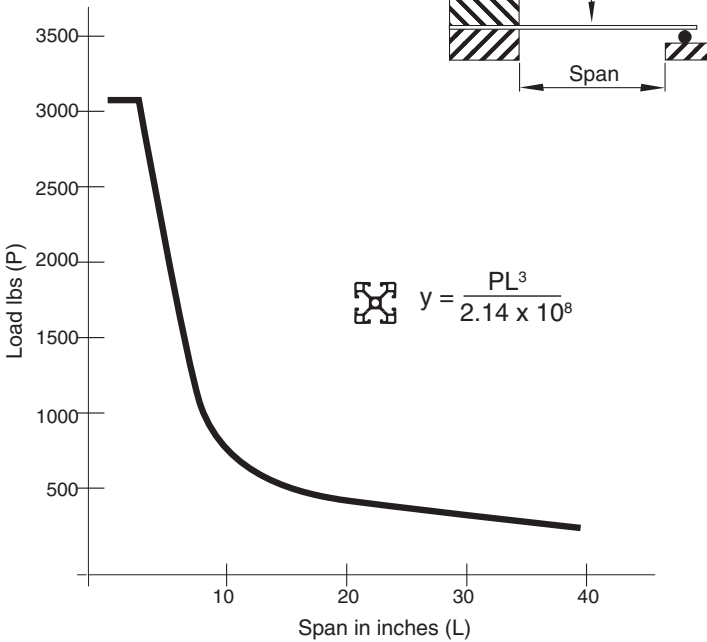
Clear Anodized

EX-6

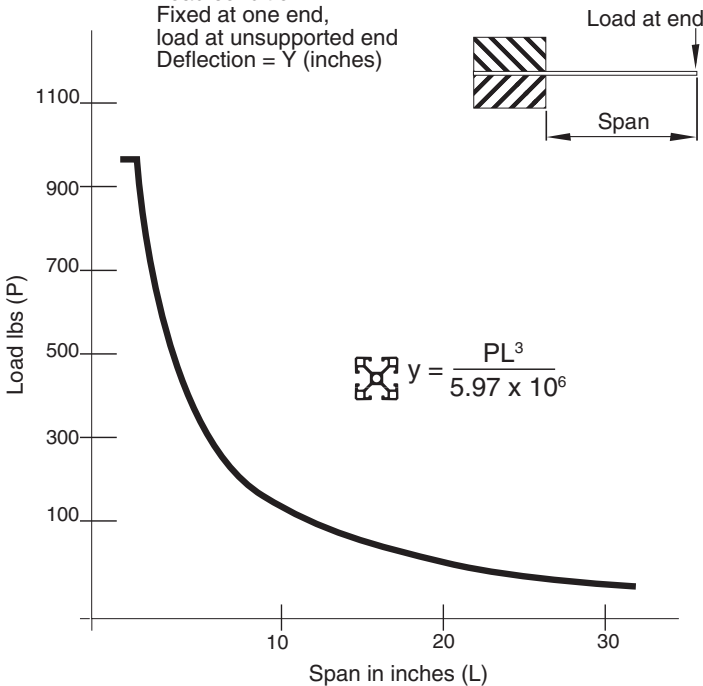
Black Anodized

BLX-6

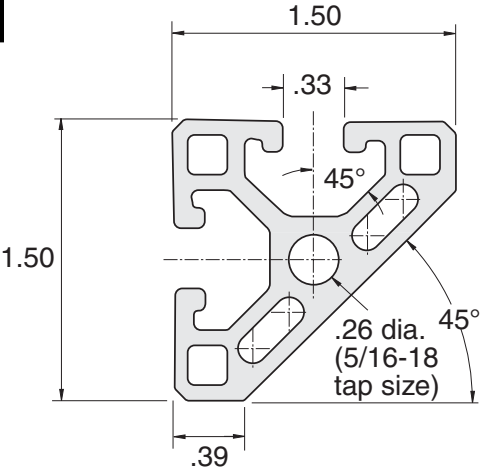
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-7

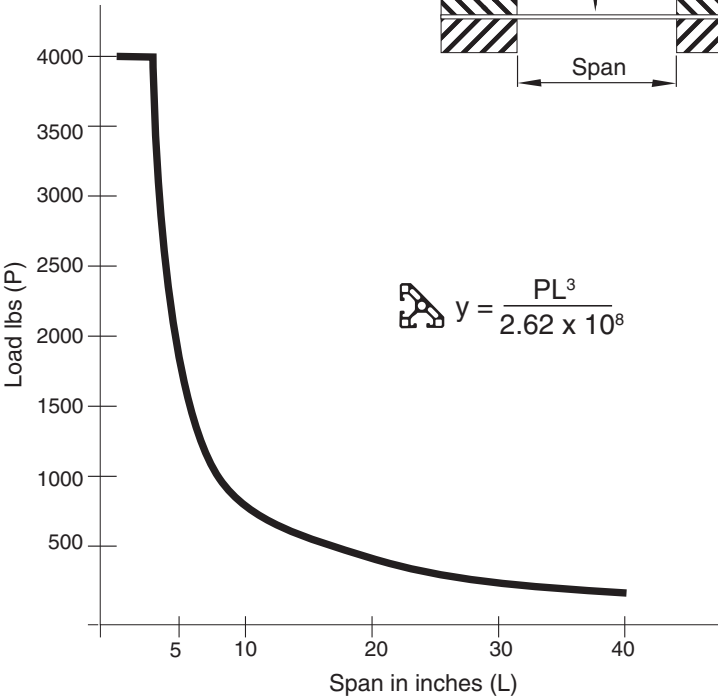
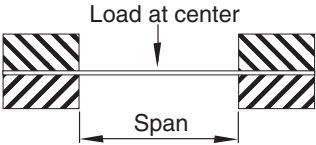


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .729 Sq. In.
- Weight/ft = .854 lbs.
- 96", 192.63" Lengths standard.

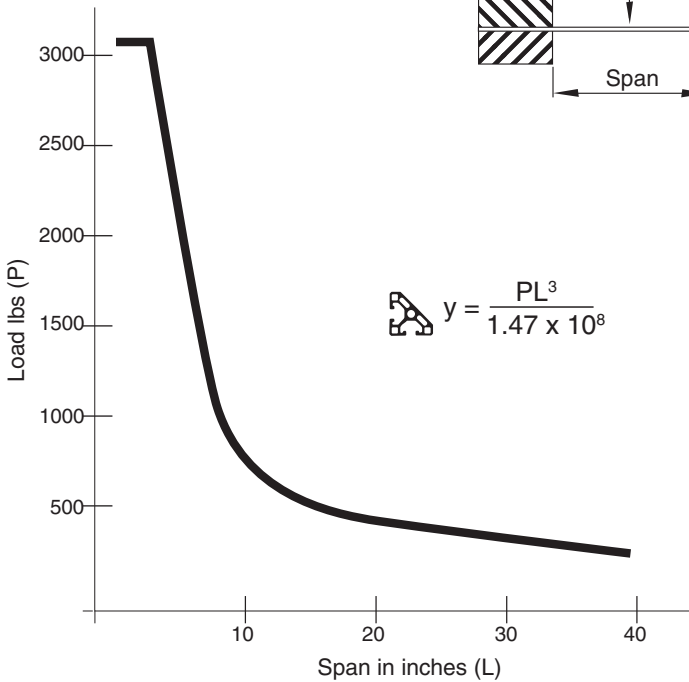
Section Properties:

Moment of Intertia in⁴ .137
Section modulus in³ .195

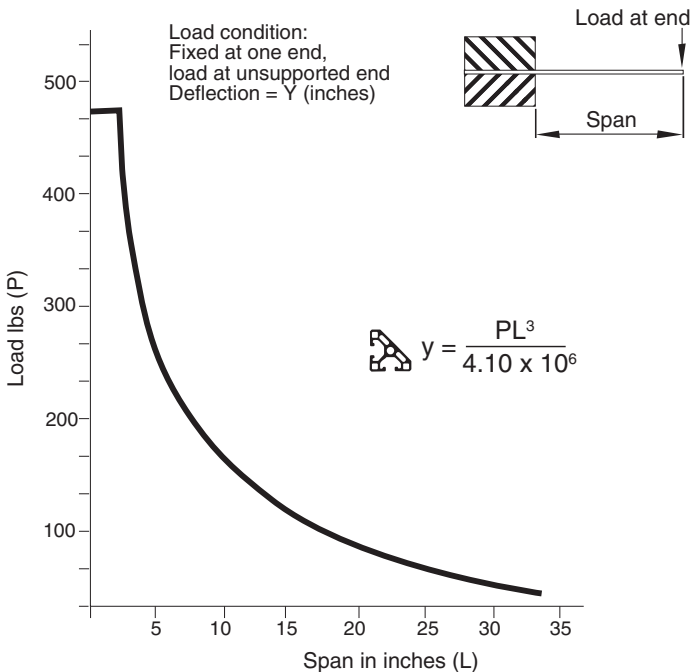
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



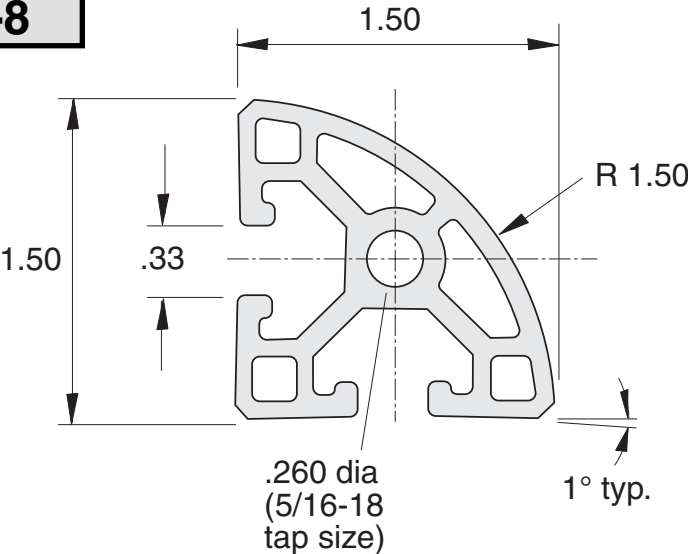
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-8

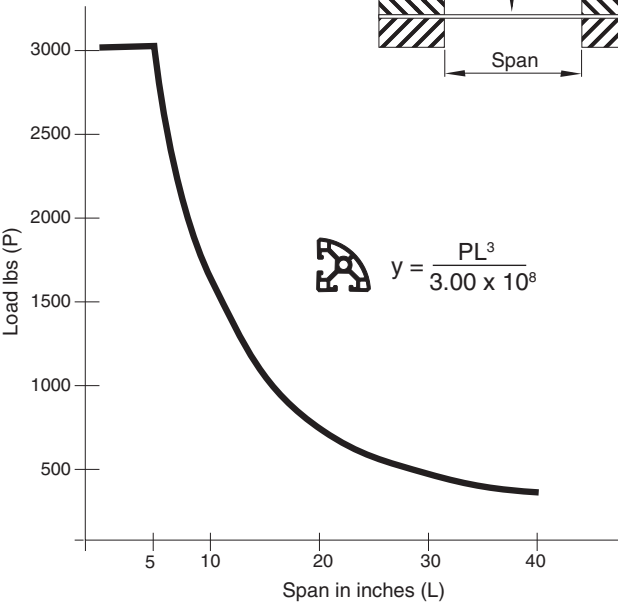
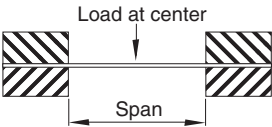


- Finish = Clear anodized
- Material = 6105-T6 Aluminum
- Est. Area = .803 Sq. In.
- Weight/ft = .945 lbs.
- 96", 192.63" Lengths standard.

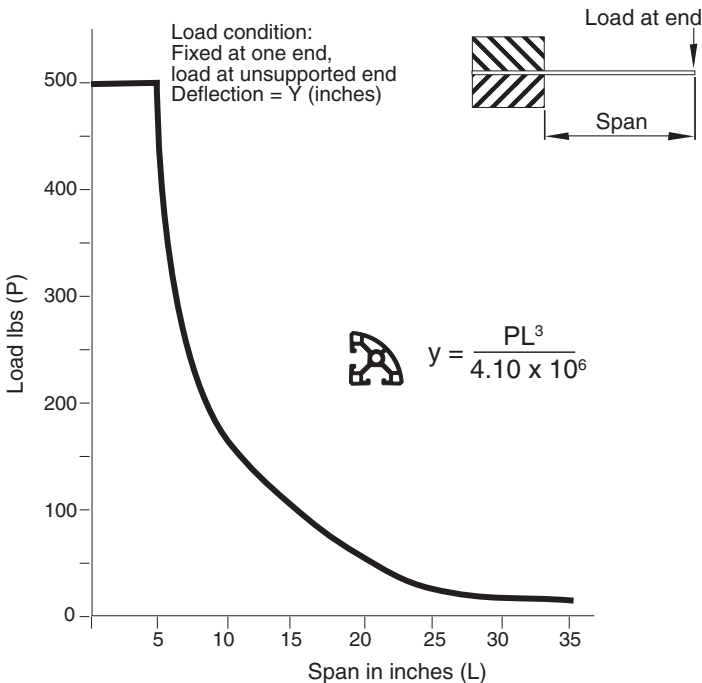
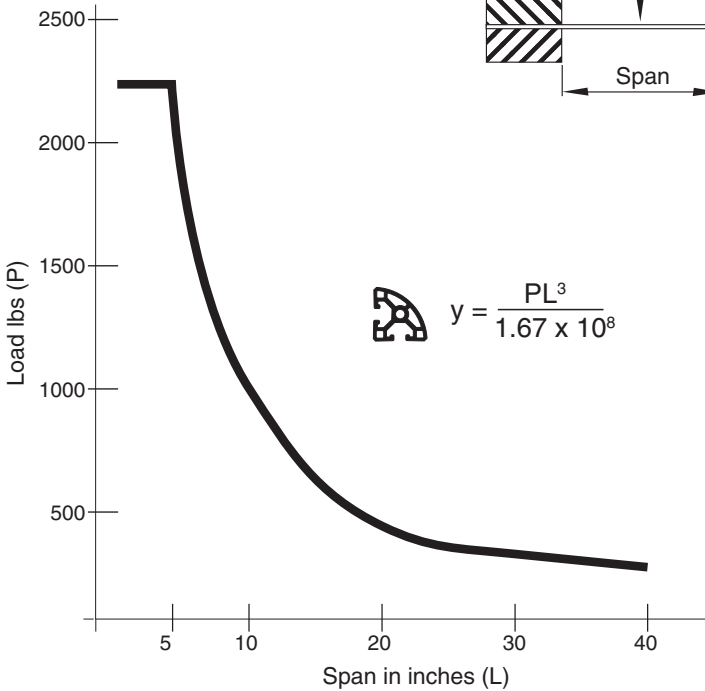
Section Properties:

Moment of Intertia in ⁴	.156
Section modulus in ³	.188

Load condition:
Fixed at both ends, load at center
Deflection = y (inches)

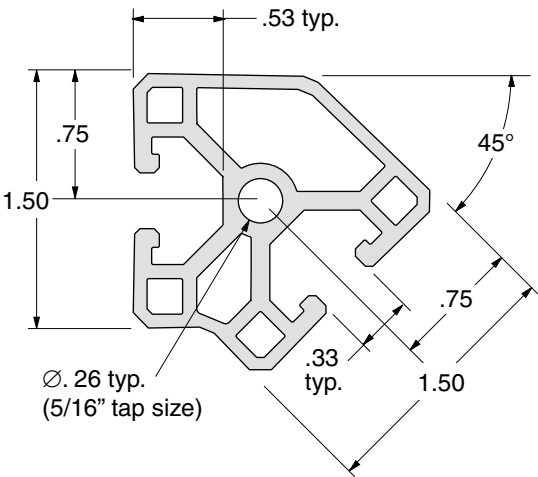


Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



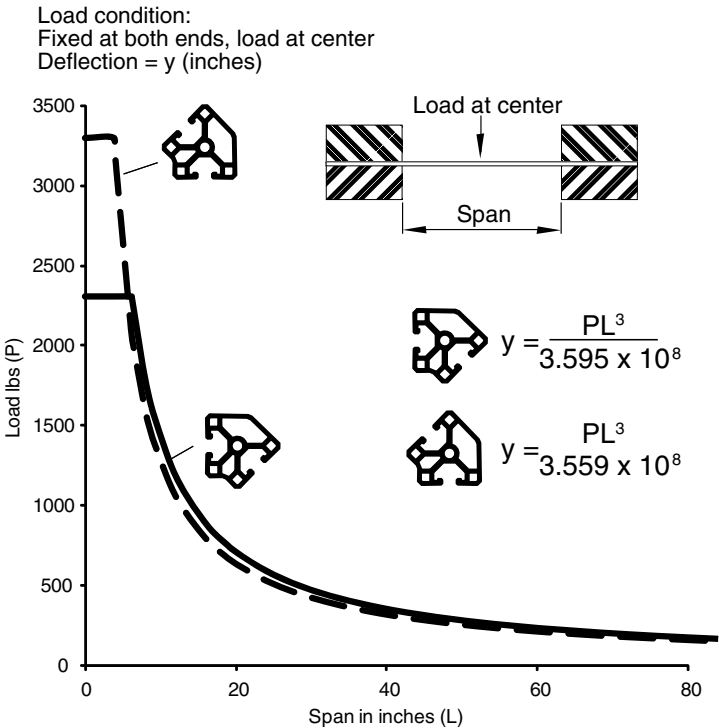
EX-82

- 5/16" Slot Size
- Weight/Ft = 1.02 lbs.
- Est. Area = .85 Sq. In.
- Finish = Clear Anodized
- Material = 6105-T5 Aluminum
- 96", 192.63" Standard Lengths



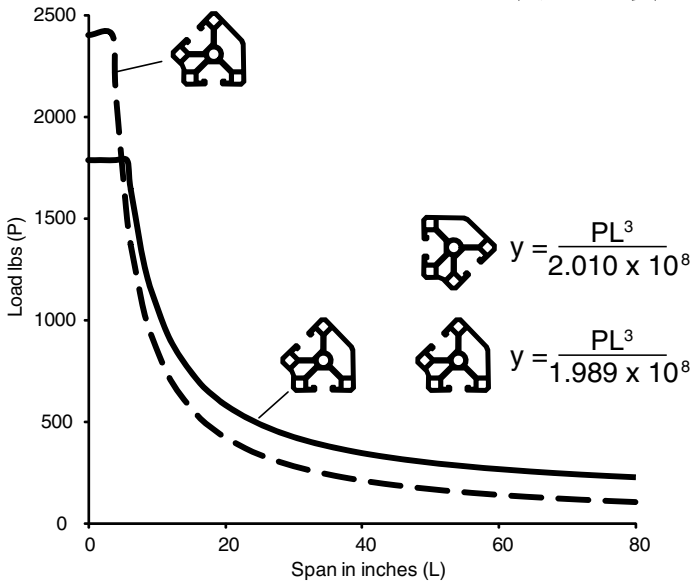
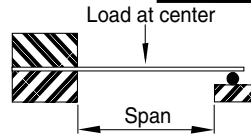
Section Properties:

Moment of Inertia in ⁴	0.1872	0.1854
Section modulus in ³	0.2035	0.1817

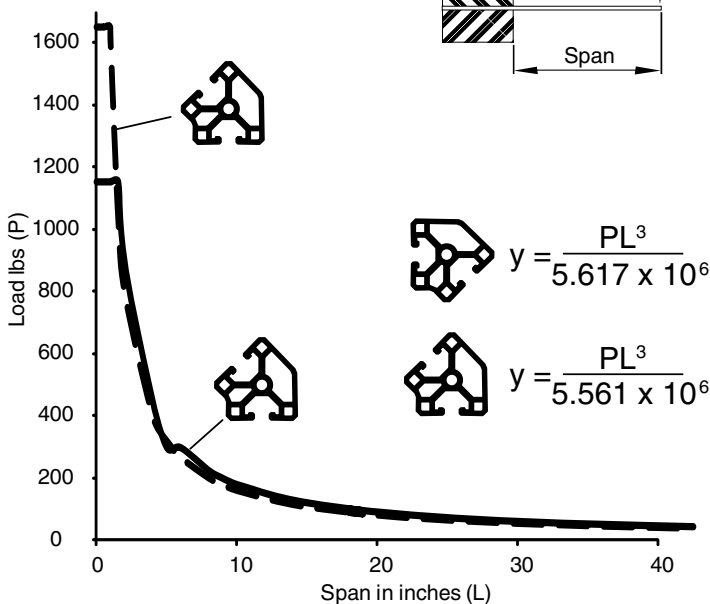
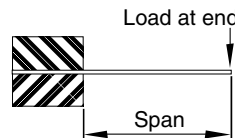


EX-82

Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



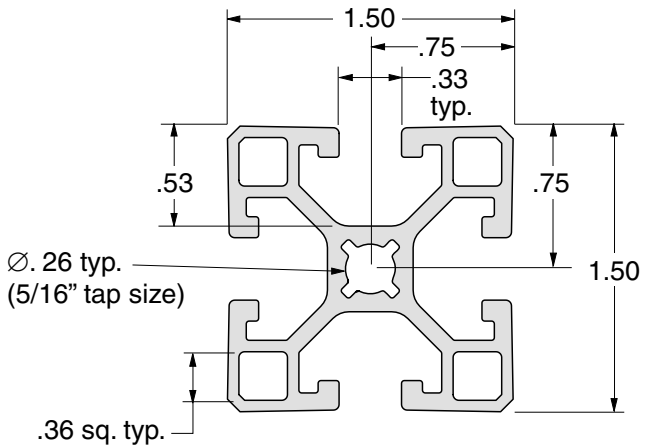
1.5" x 1.5" Ultra-Light Extrusion

EX-9
BLX-9

Clear Anodized

Black Anodized

- 5/16" Slot Size
- Weight/Ft = .85 lbs.
- Est. Area = .73 Sq. In.
- Material = 6105-T5 Aluminum
- 96", 144.25" (clear), 192.63" Standard Lengths

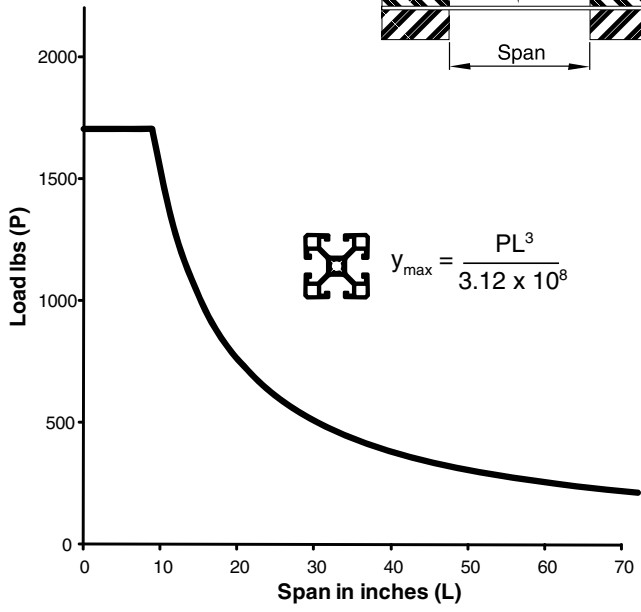
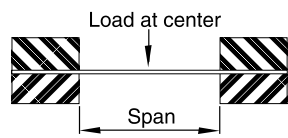


Section Properties:

Moment of Intertia in⁴ .1623

Section modulus in³ .2164

Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



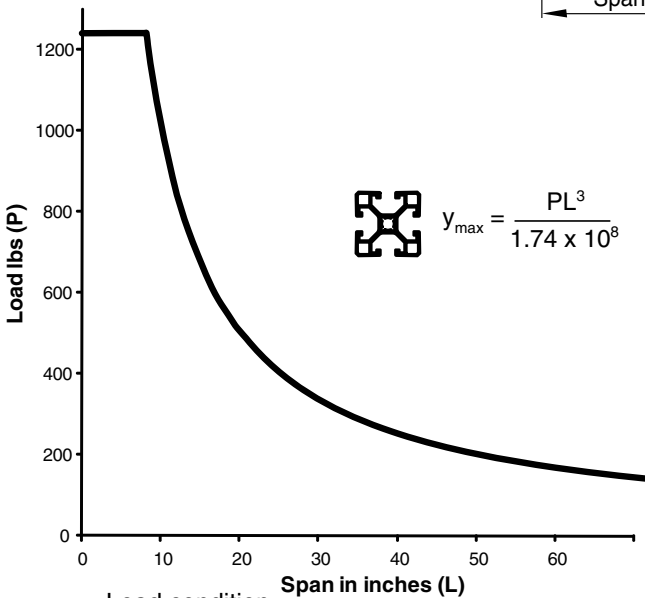
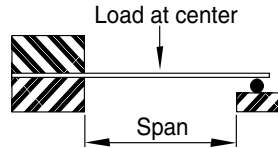
Clear Anodized

EX-9

Black Anodized

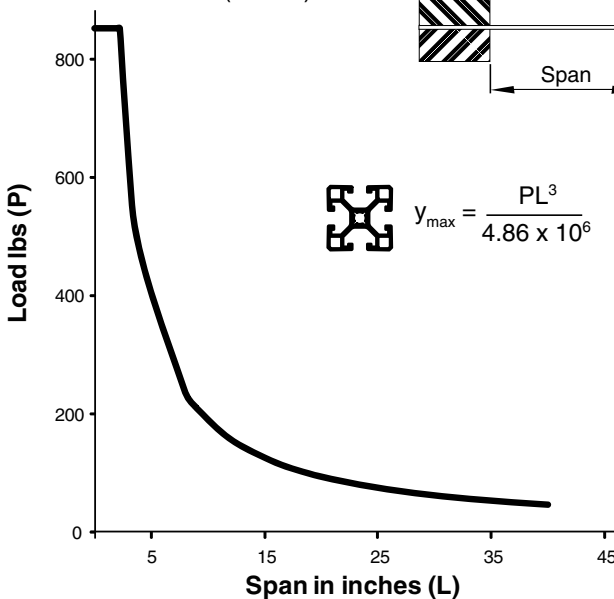
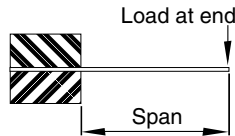
BLX-9

Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



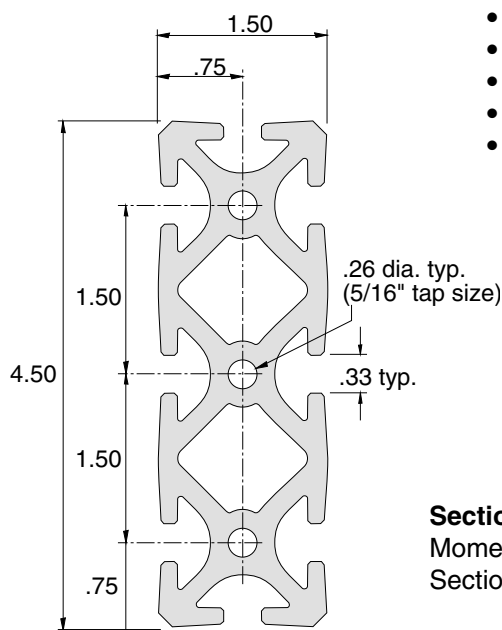
$$y_{\max} = \frac{PL^3}{1.74 \times 10^8}$$

Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



$$y_{\max} = \frac{PL^3}{4.86 \times 10^6}$$

EX-26



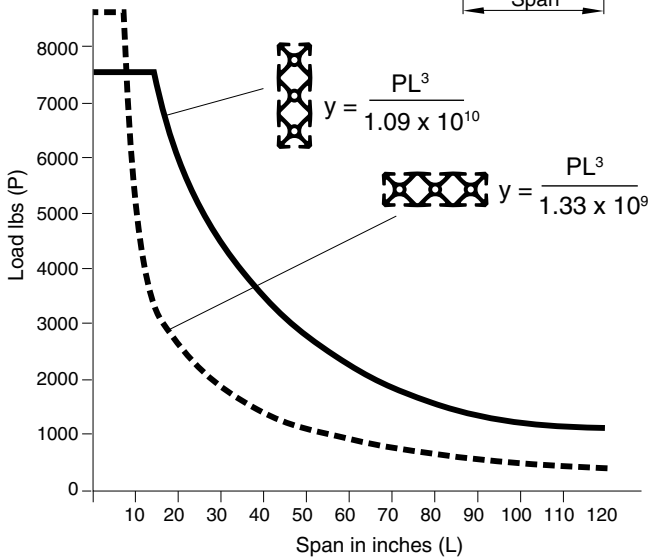
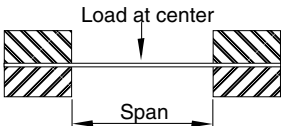
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 3.02 Sq. In.
- Weight/ft = 3.552 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

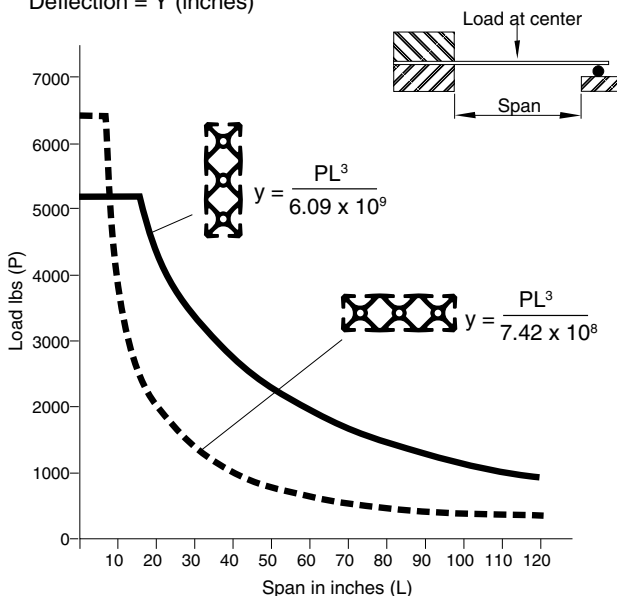
Moment of Intertia in ⁴	5.6781	.6911
Section modulus in ³	2.5236	.9215



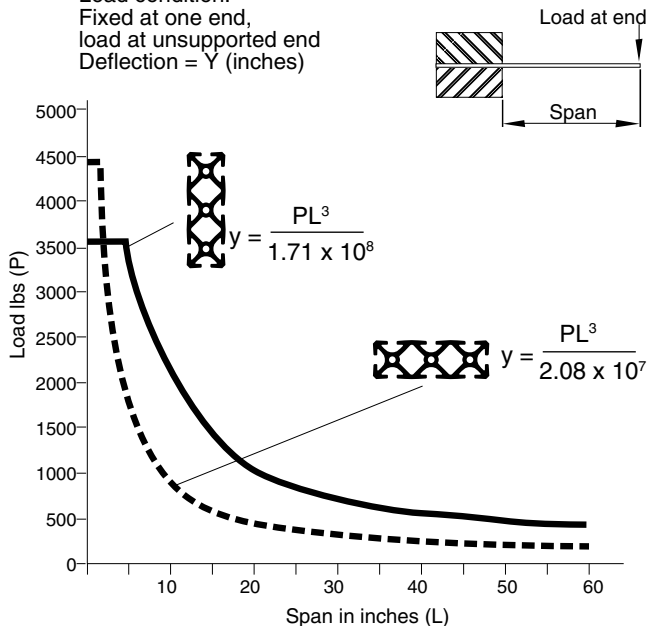
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



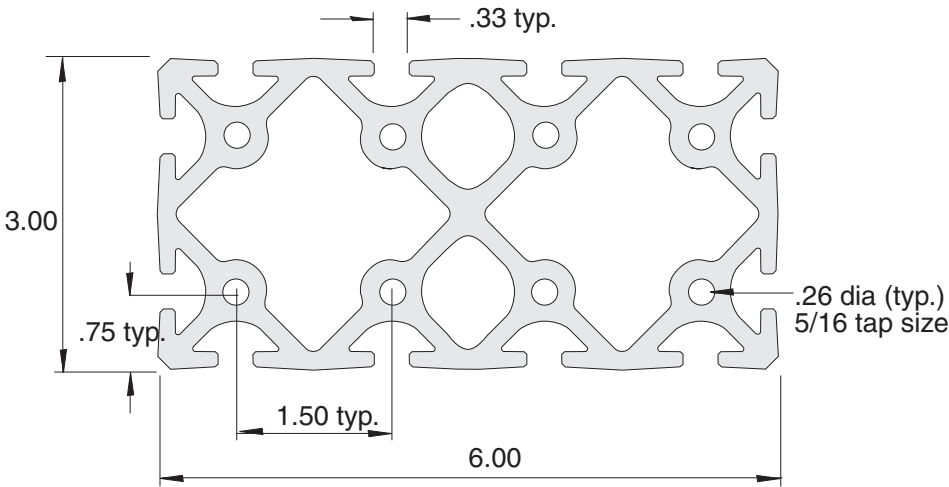
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-36

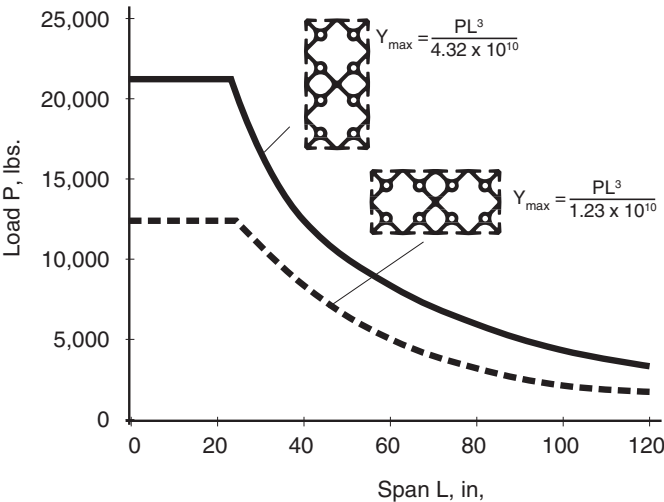
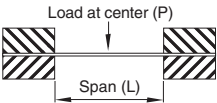


- Finish = Clear anodized
- Material = 6063-T6 Aluminum
- Est. Area = 5.924 Sq. In.
- Weight/ft = 6.967 lbs.
- 96", 192.63" Lengths standard.

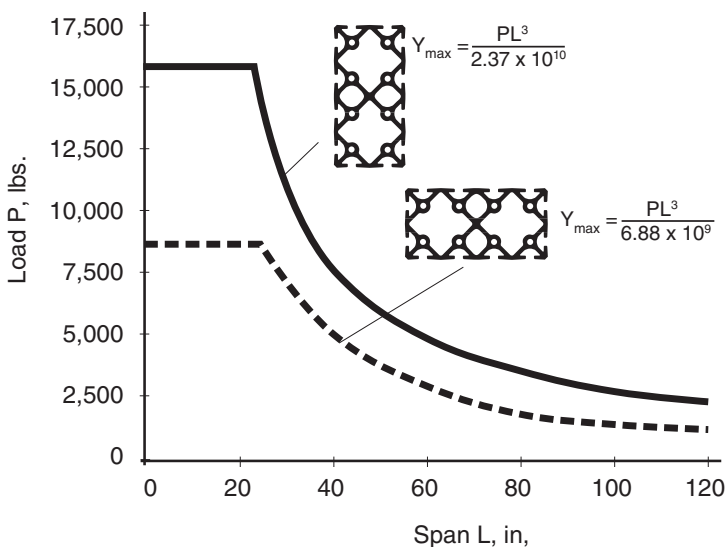
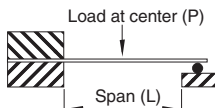
Section Properties:

Moment of Intertia in ⁴	22.05	6.41
Section modulus in ³	7.35	4.28

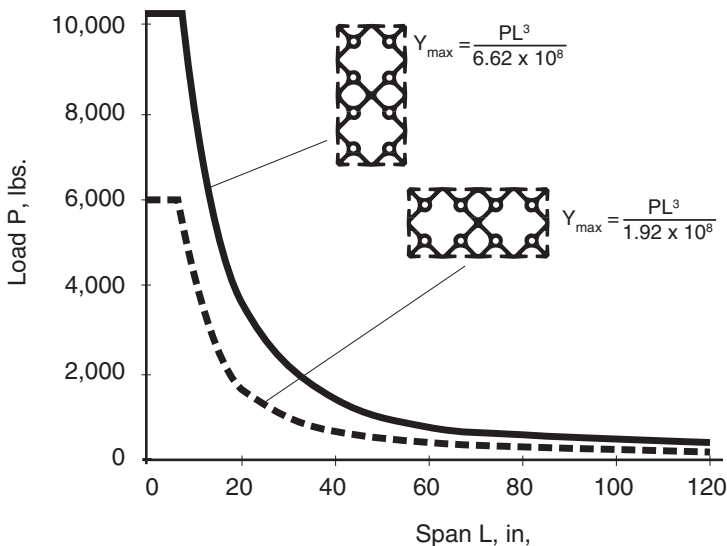
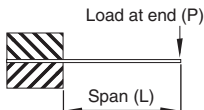
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)

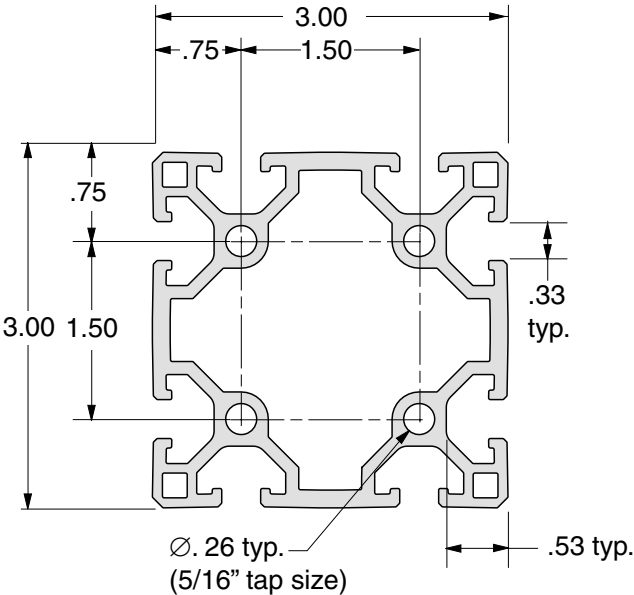


3" x 3" Light Extrusion



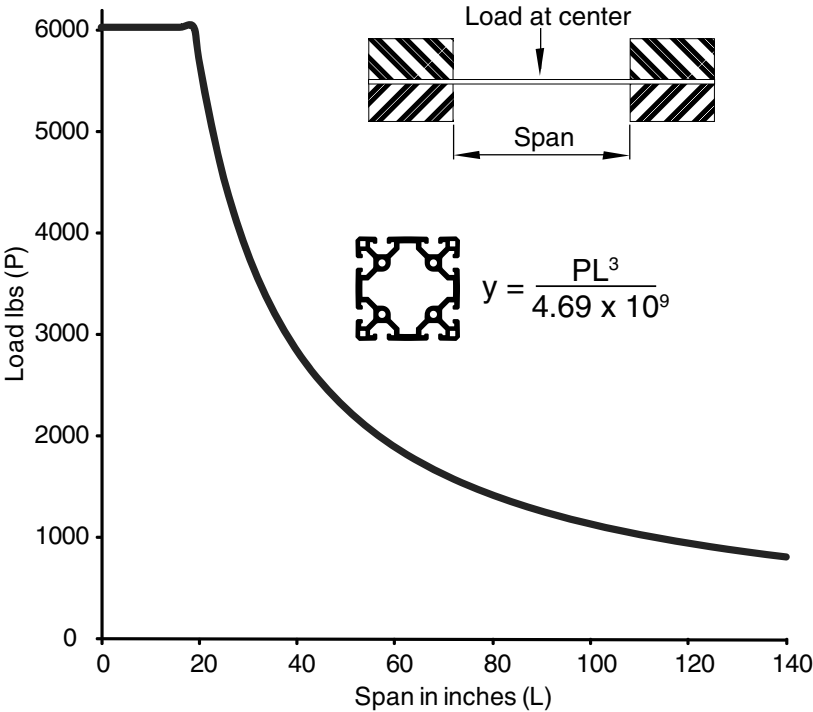
EX-37

- 5/16" Slot Size
- Weight/Ft = 2.81 lbs.
- Est. Area = 2.35 Sq. In.
- Finish = Clear Anodized
- Material = 6105-T5 Aluminum
- 96", 192.63" Standard Lengths

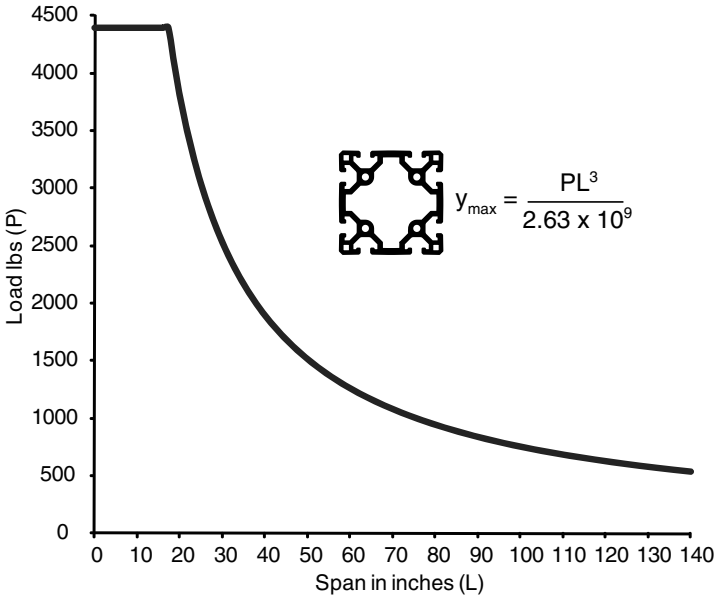
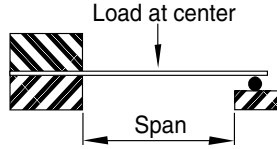


Section Properties:	
Moment of Inertia in ⁴	2.44
Section modulus in ³	1.63

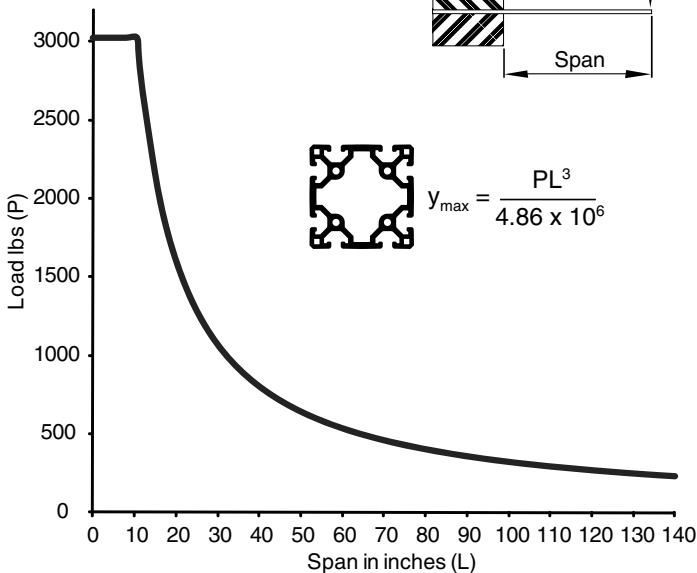
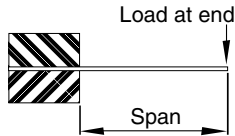
Load condition:
 Fixed at both ends, load at center
 Deflection = y (inches)



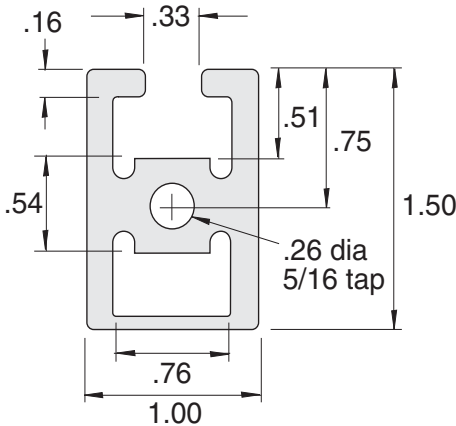
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-52



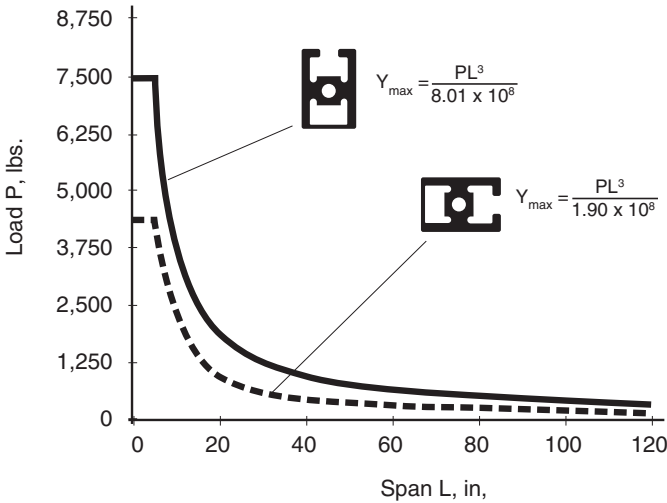
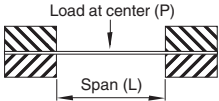
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .818 Sq. In.
- Weight/ft = .954 lbs.
- 96", 192.63" Lengths standard.



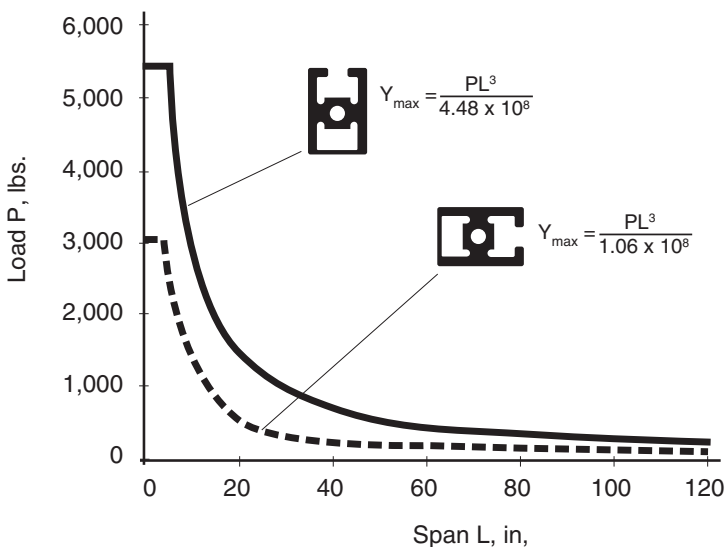
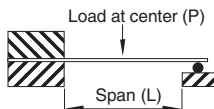
Section Properties:

Moment of Inertia in ⁴	0.417	0.099
Section modulus in ³	0.549	0.198

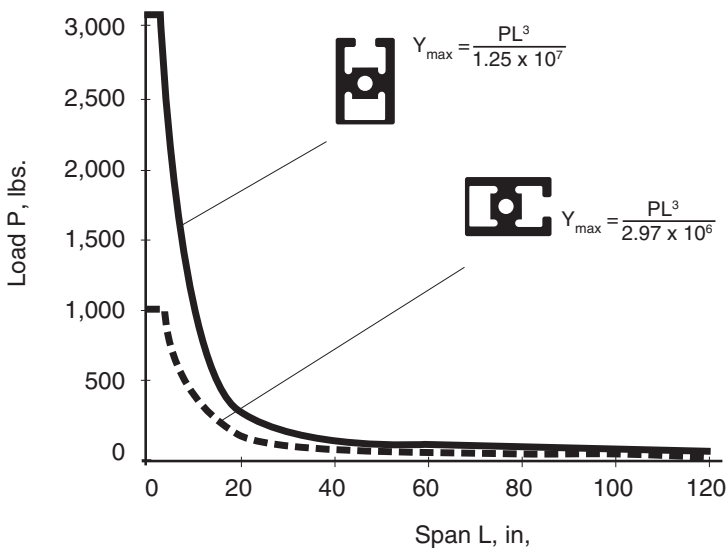
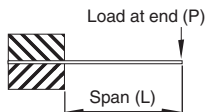
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



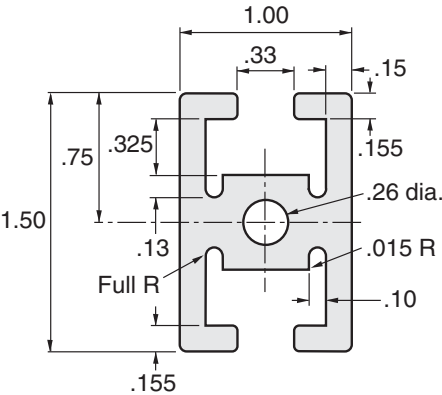
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-54



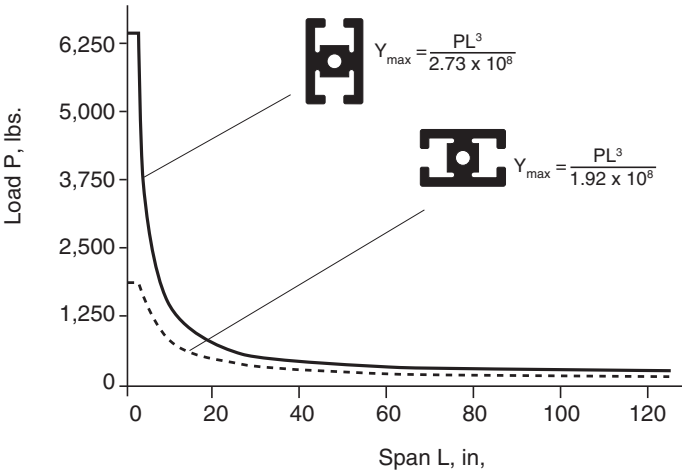
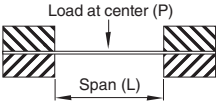
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .840 Sq. In.
- Weight/ft = 1.008 lbs.
- 96", 192.63" Lengths standard.



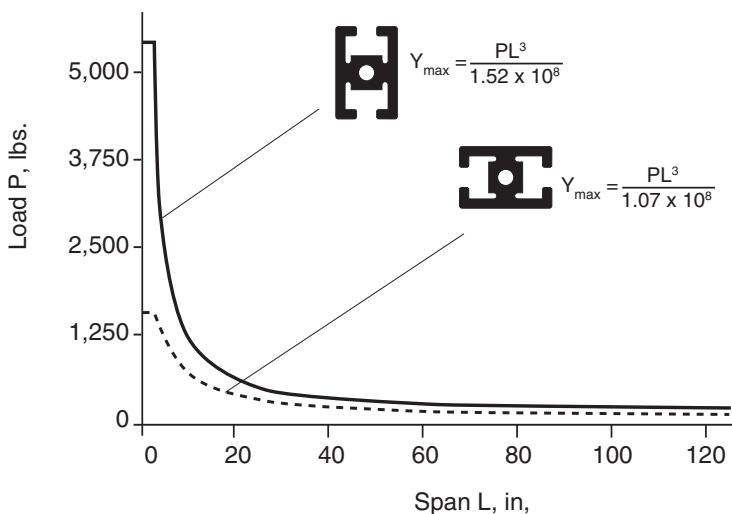
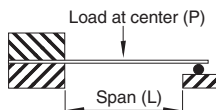
Section Properties:

Moment of Intertia in ⁴	0.142	0.100
Section modulus in ³	0.189	0.200

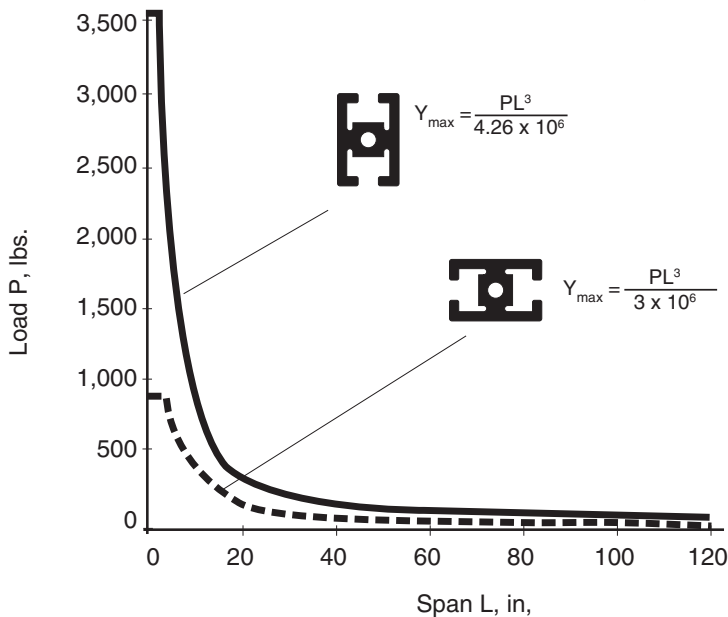
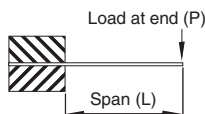
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



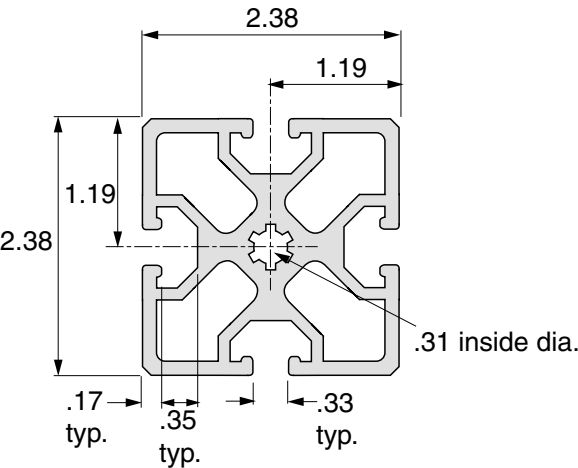
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



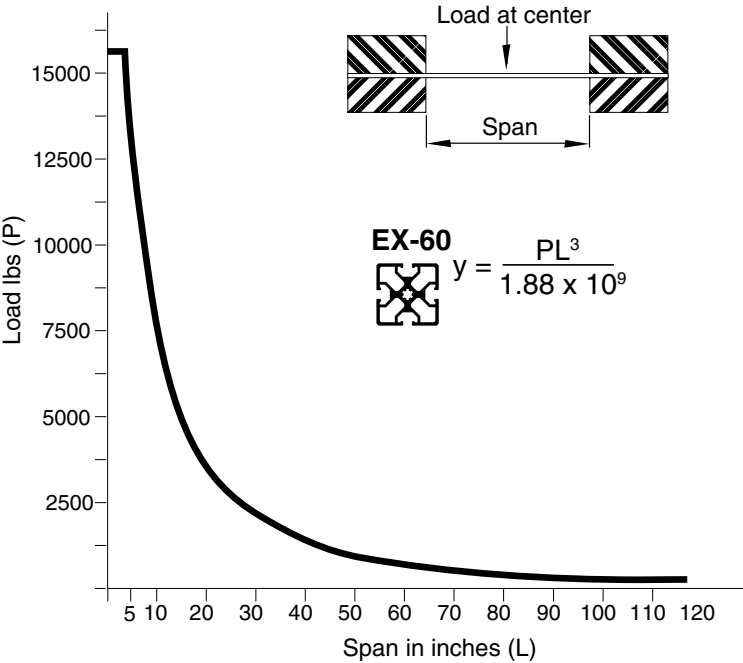
EX-60



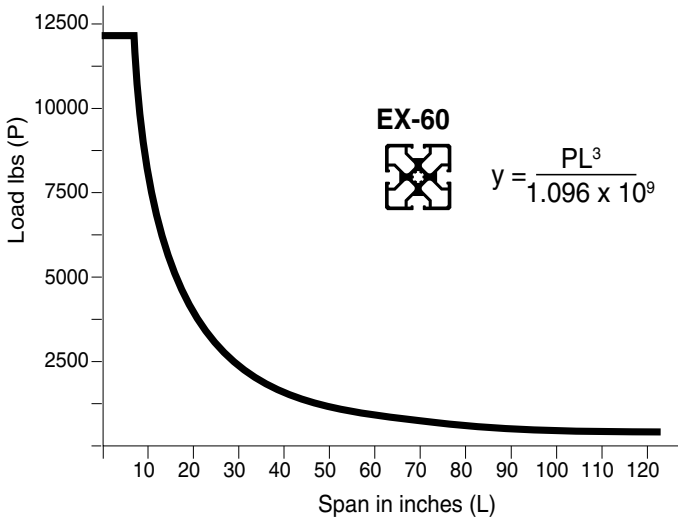
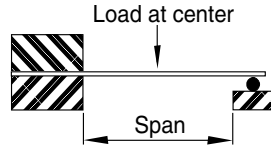
- Finish = Clear anodized
- Material = 6105-T6 Aluminum
- Est. Area = 2.041 Sq. In.
- Weight/ft = 2.400 lbs
- 96", 192.63" Lengths standard.

Section Properties:	
Moment of Intertia in ⁴	1.0211
Section modulus in ³	0.860

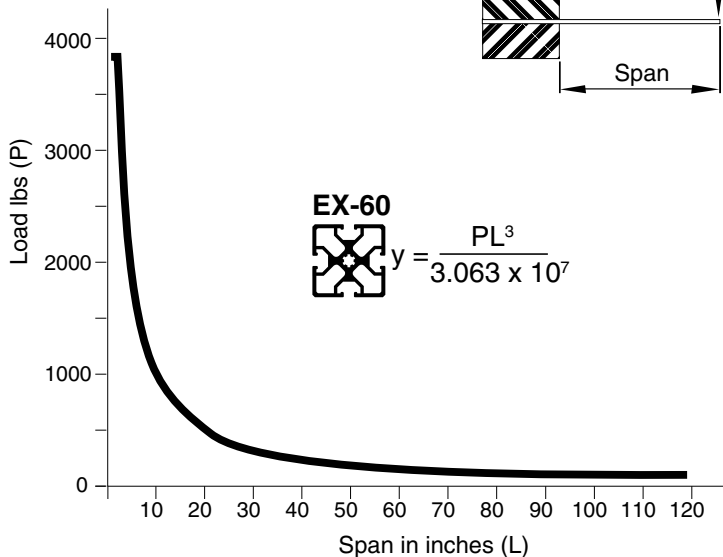
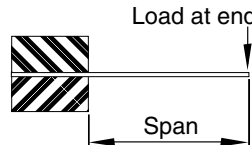
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



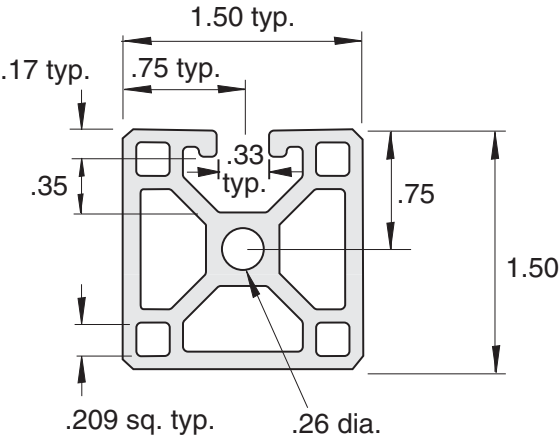
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-61



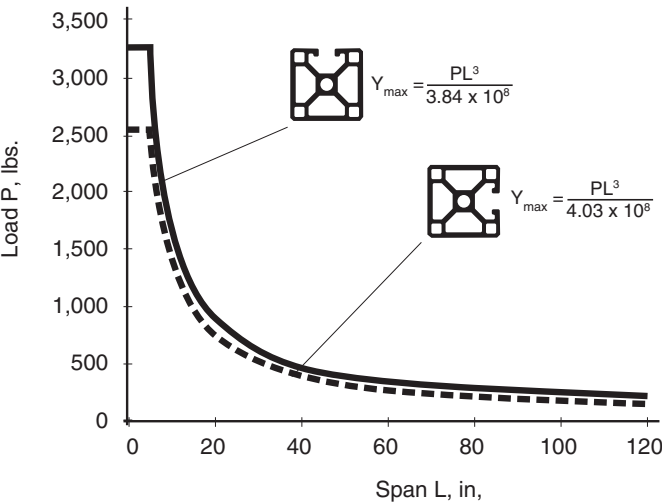
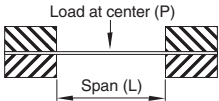
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .866 Sq. In.
- Weight/ft = 1.018 lbs
- 96", 192.63" Lengths standard.

Section Properties:

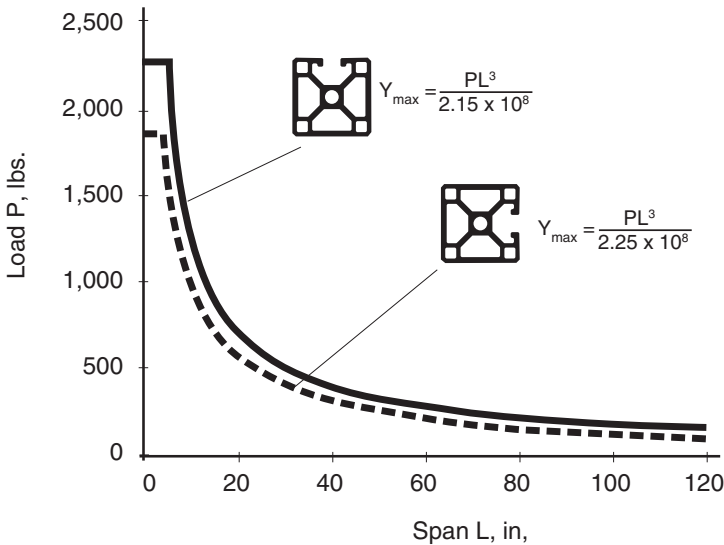
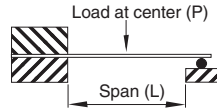
Moment of Intertia in ⁴	0.200	0.210
Section modulus in ³	0.267	0.276



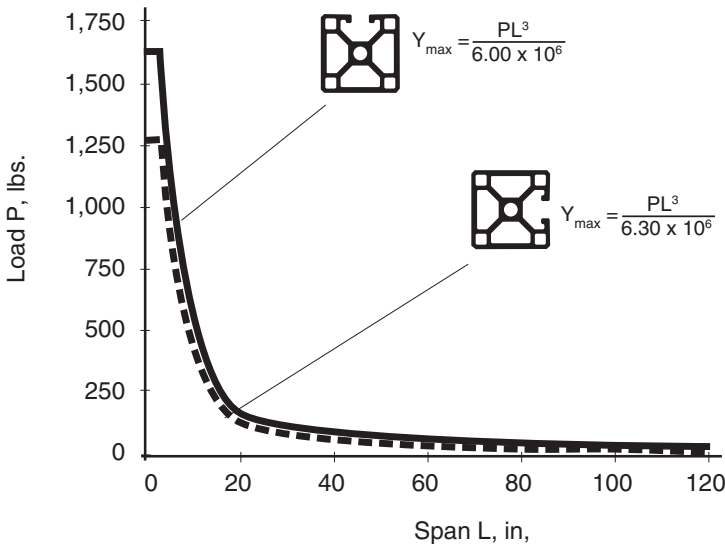
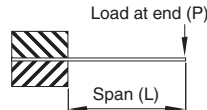
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



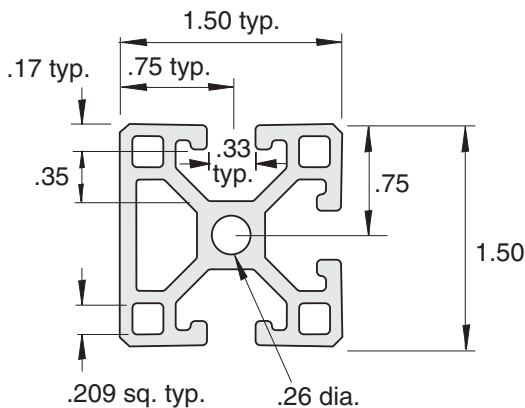
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-63



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .833 Sq. In.
- Weight/ft = .980 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Intertia in⁴

Section modulus in³



0.195

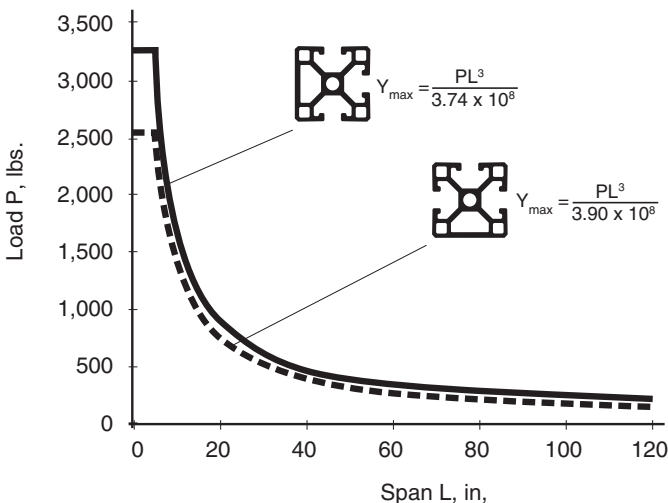
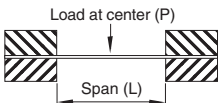
0.260



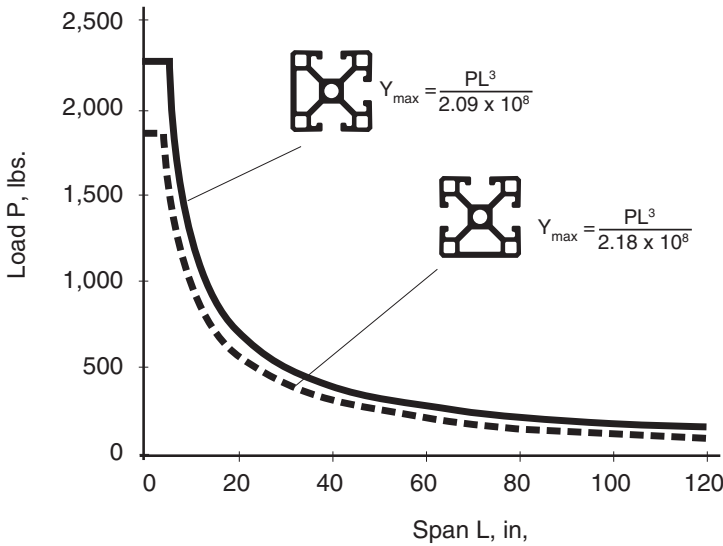
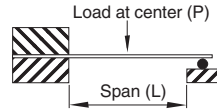
0.203

0.267

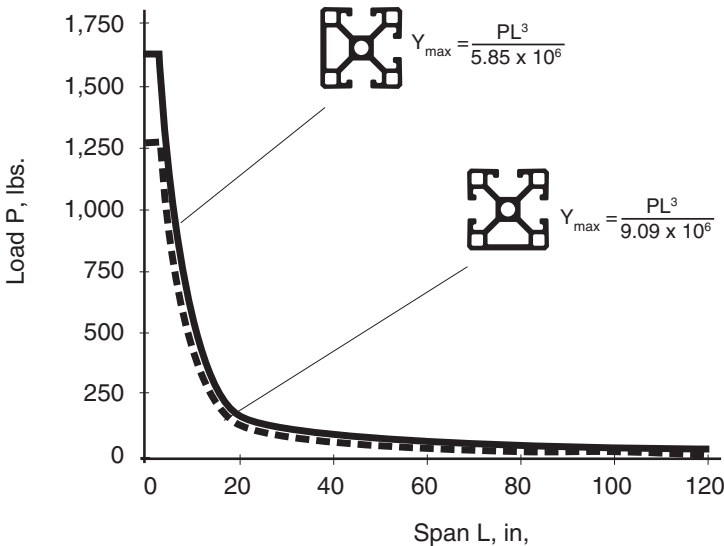
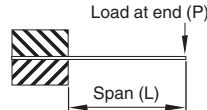
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



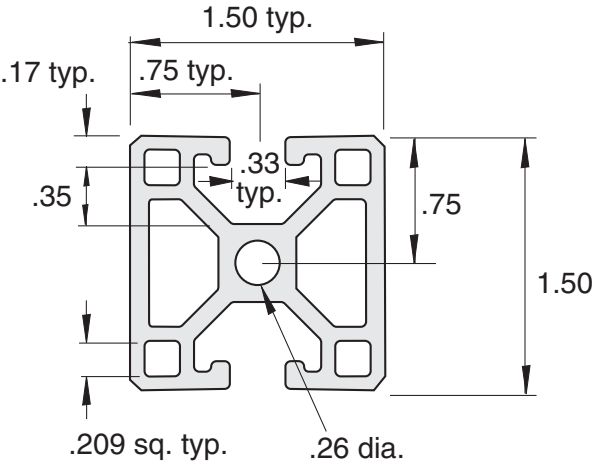
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-64



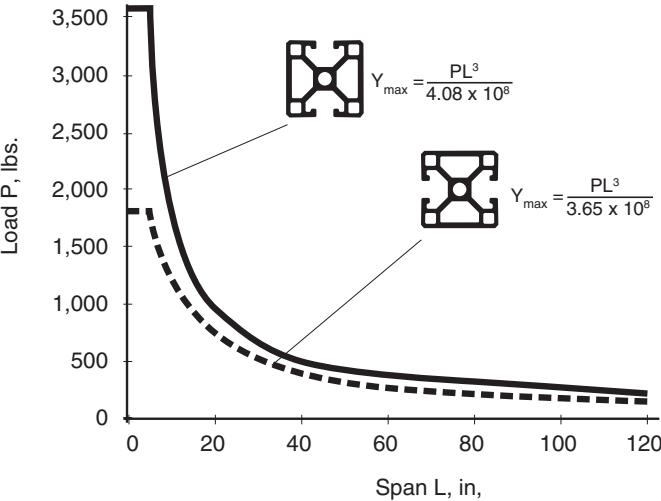
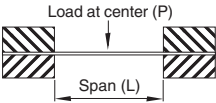
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .849 Sq. In.
- Weight/ft = .998 lbs
- 96", 192.63" Lengths standard.

Section Properties:

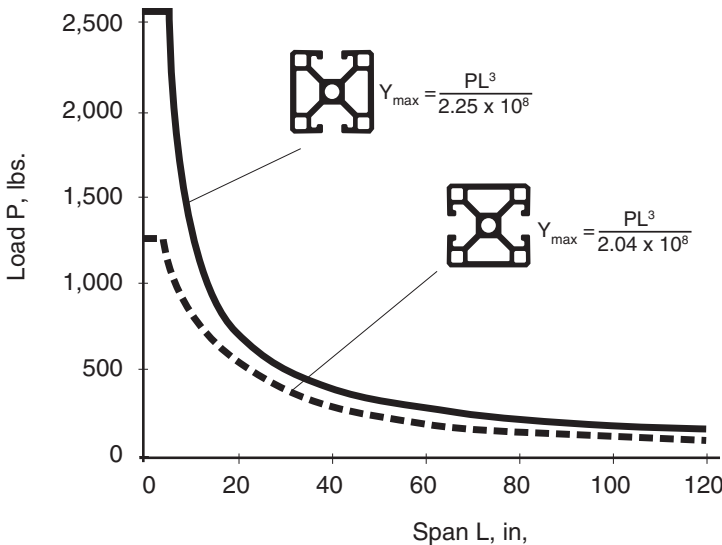
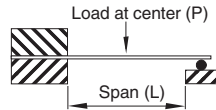
Moment of Inertia in⁴
Section modulus in³

0.190	0.210
0.253	0.280

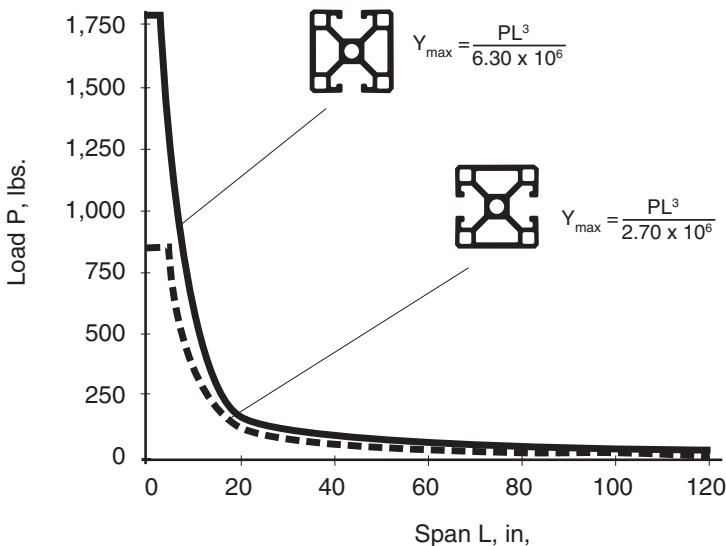
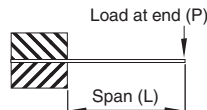
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



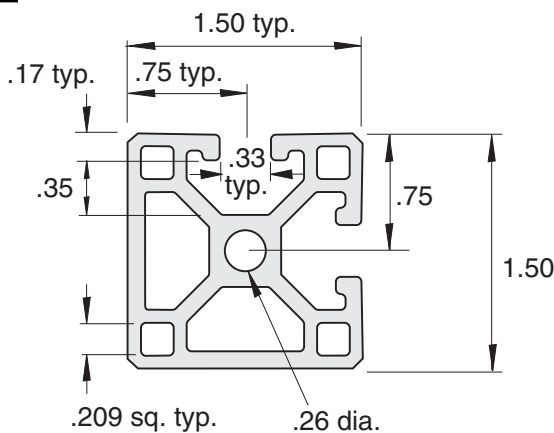
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-65



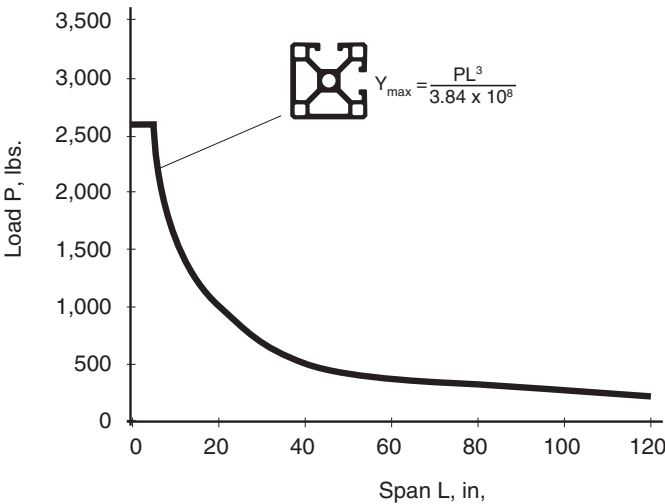
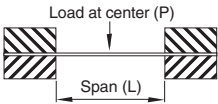
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .849 Sq. In.
- Weight/ft = .998 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

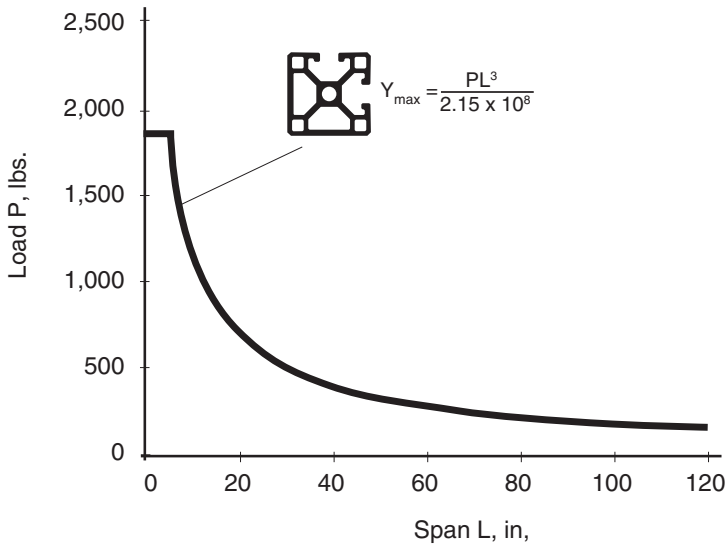
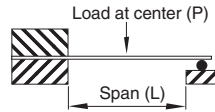
Moment of Intertia in ⁴	0.200
Section modulus in ³	0.267



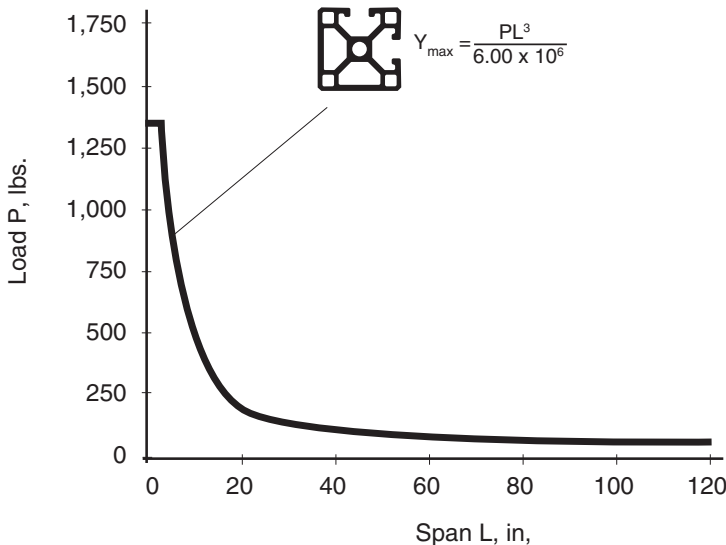
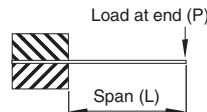
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



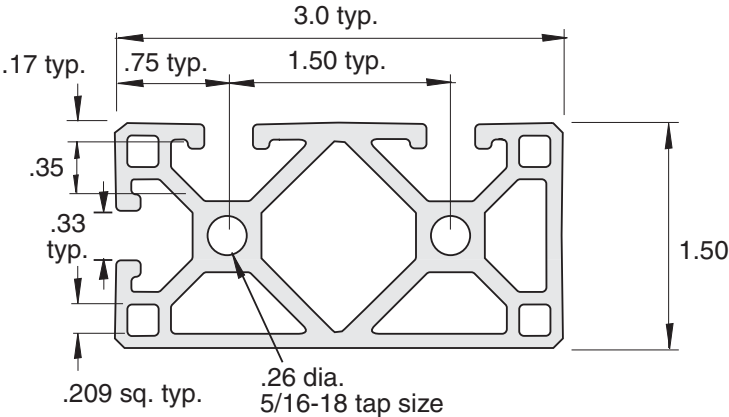
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-66



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.559 Sq. In.
- Weight/ft = 1.833 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Intertia in⁴

Section modulus in³



1.385

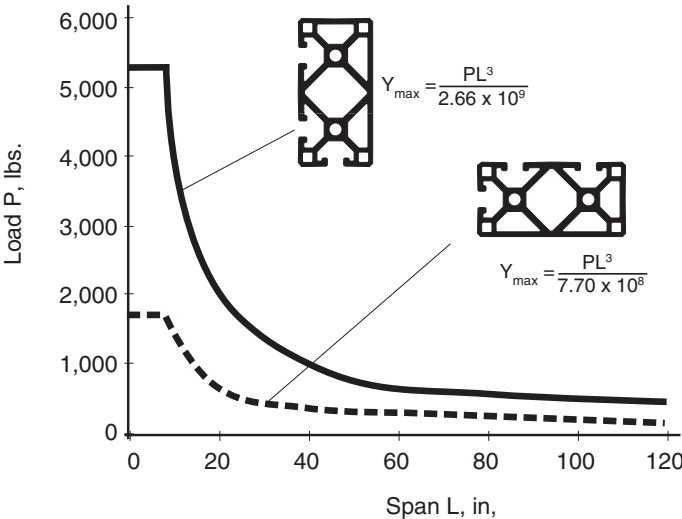
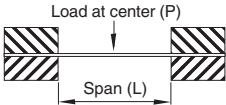
0.923



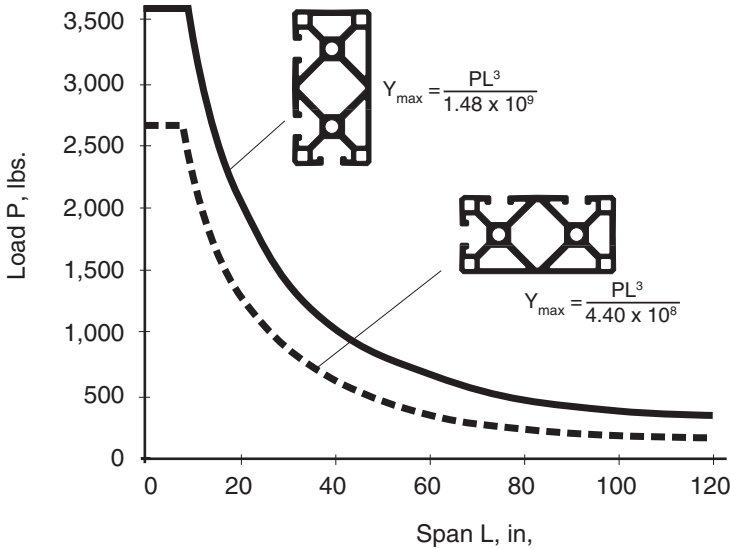
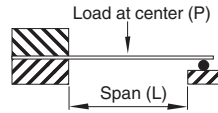
0.401

0.535

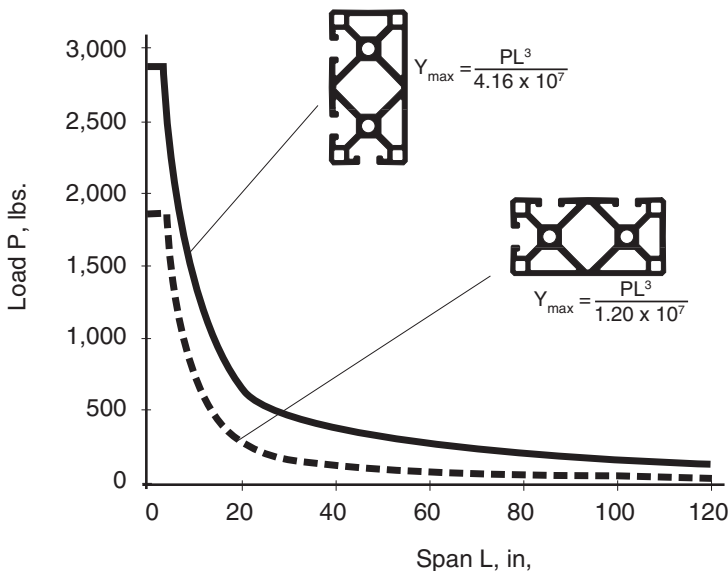
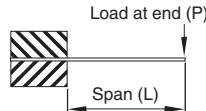
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



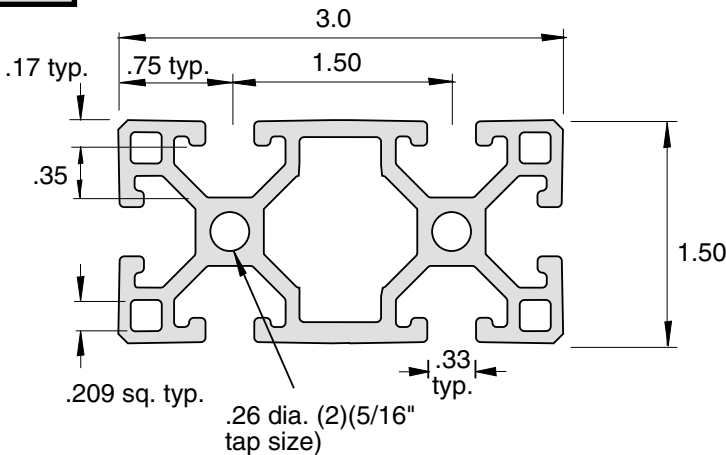
Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-67
BLX-67

Clear Anodized

Black Anodized



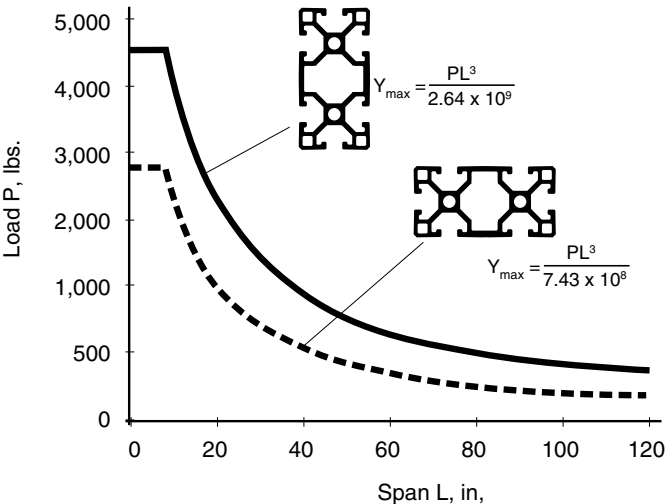
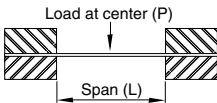
- Material = 6105-T5 Aluminum
- Weight/ft = 1.845 lbs
- Est. Area = 1.569 Sq. In.
- 96", 144.25" (clear), 192.63" Lengths standard.

Section Properties:

Moment of Inertia in⁴
Section modulus in³

		
Moment of Inertia in ⁴	1.376	0.387
Section modulus in ³	0.917	0.516

Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



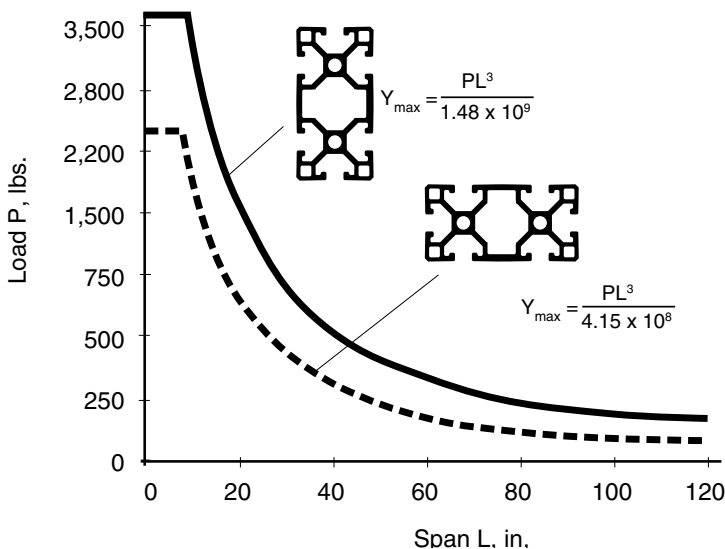
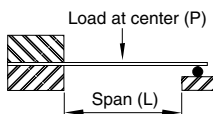
Clear Anodized

EX-67

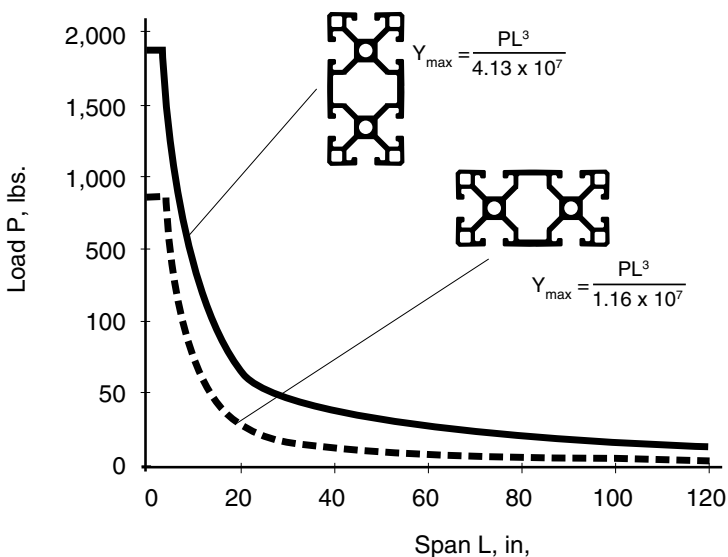
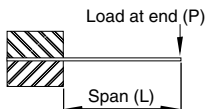
Black Anodized

BLX-67

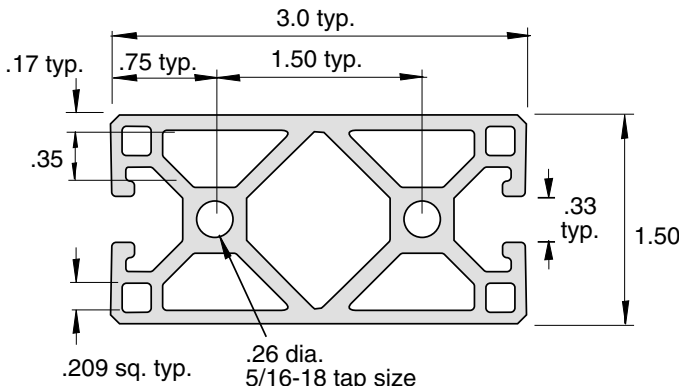
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-68



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.599 Sq. In.
- Weight/ft = 1.880 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Intertia in⁴

Section modulus in³



1.385

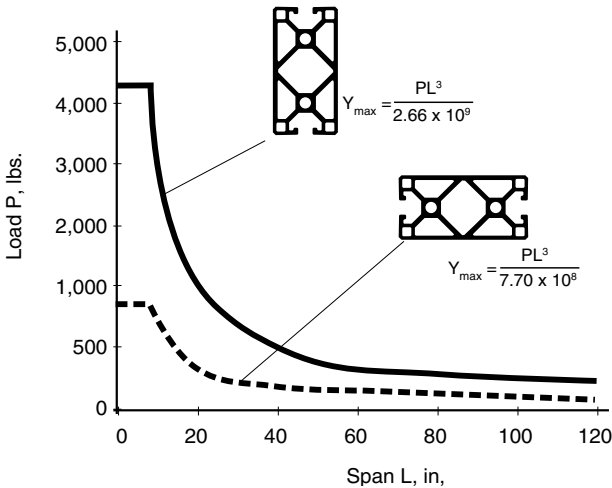
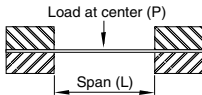
0.923



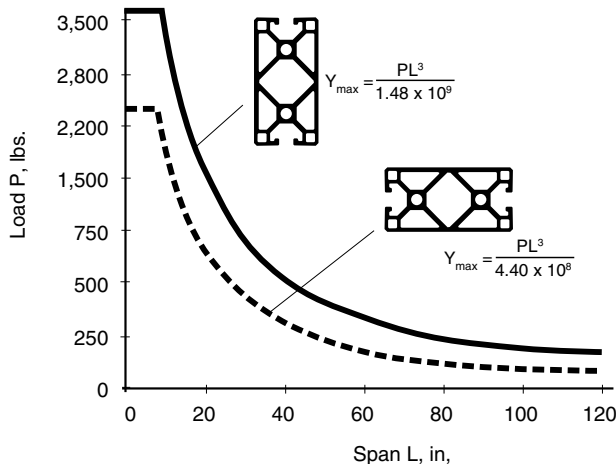
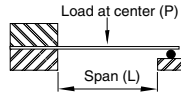
0.401

0.535

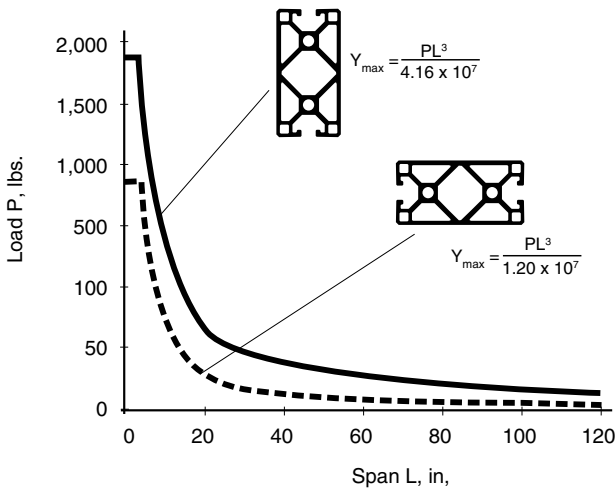
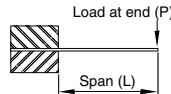
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



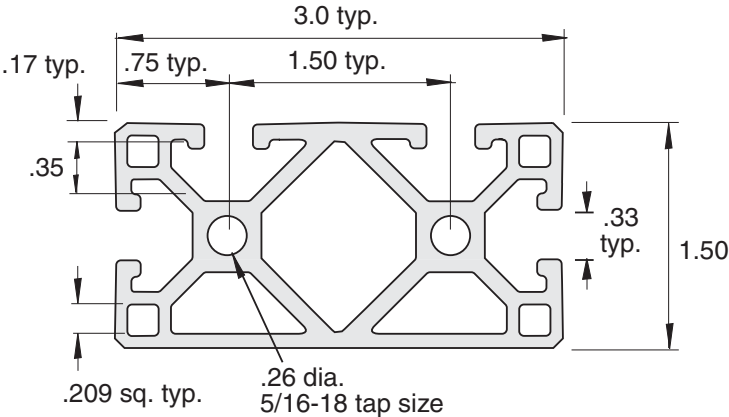
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-69



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.554 Sq. In.
- Weight/ft = 1.828 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Intertia in⁴

Section modulus in³



1.385

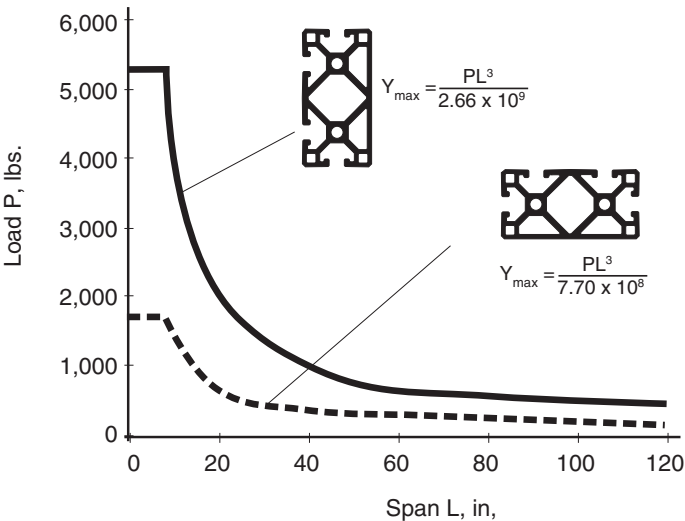
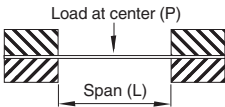
0.923



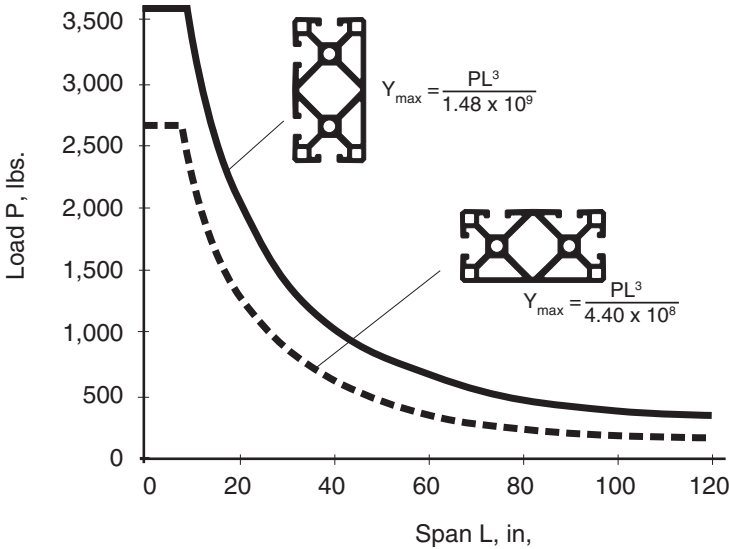
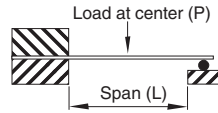
0.401

0.535

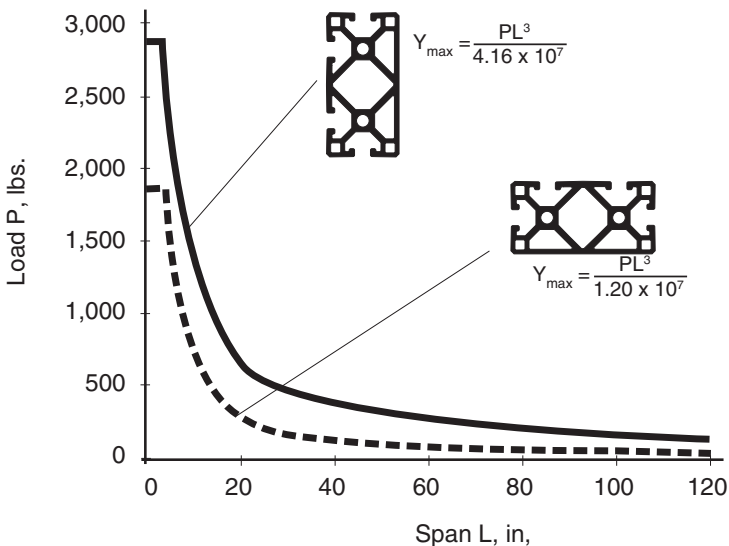
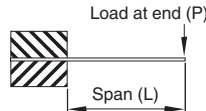
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



Technical drawing of a mechanical part, likely a bracket or connector, showing dimensions and tolerances.

Dimensions and Tolerances:

- Overall Width: 3.00
- Overall Height: 1.50
- Top Flange Width: .75
- Top Flange Thickness: .35 TYP.
- Central Opening Width: 1.50
- Central Opening Height: .33 TYP.
- Bottom Flange Width: .21 SQ. TYP.
- Bottom Flange Thickness: .17 TYP.
- Top Flange Hole Diameter: $\phi .26$ TYP. (5/16" TAP SIZE)

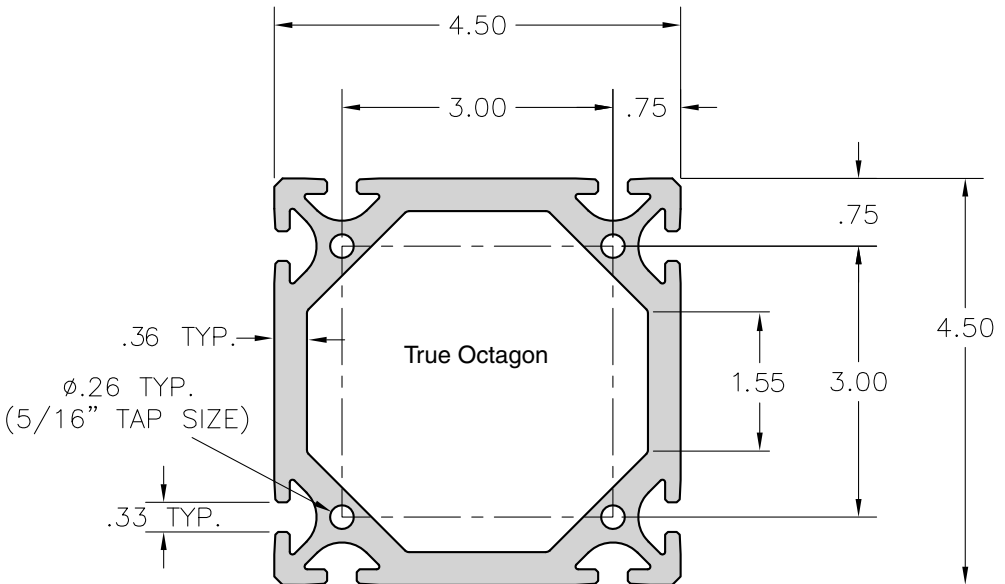
Finish: Clear Anodize
Material: 6105-T6 Aluminum
Est. Area: 1.464 Sq In.
Wt./Ft. 1.722 lbs.
Std. Length: 96", 192.63"



Section Properties:
Moment of Inertia in⁴
Section Modulus in³

1.229
0.779

0.338
0.424



Finish: Mill Finish
 Material: 6105-T6 Aluminum
 Est. Area: 6.330 Sq In.
 Wt./Ft. 7.445 lbs.
 Std. Length: 192.63"
 Special cut charge required for
 non-standard length (EM-1-EX45)

Section Properties:
 Moment of Inertia in⁴
 Section Modulus in³

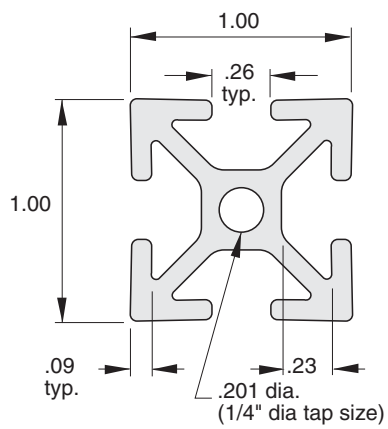


16.4
 6.56

EX-11
BLX-11

Clear Anodized

Black Anodized

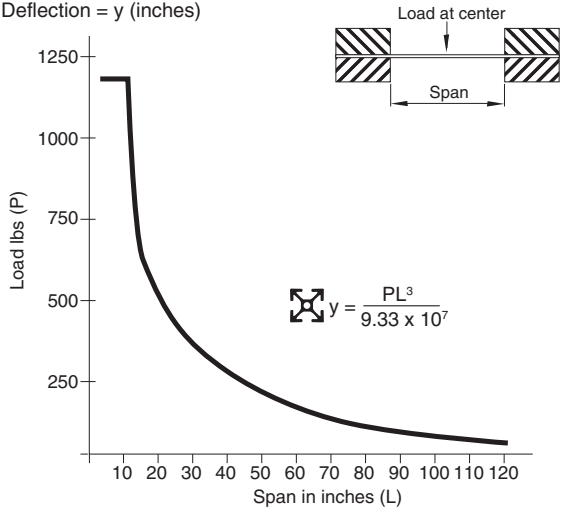


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .530 lbs.
- 96", 144.25" (clear), 192.63" Lengths standard.

Section Properties:

Moment of Intertia in ⁴	.049
Section modulus in ³	.097

Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



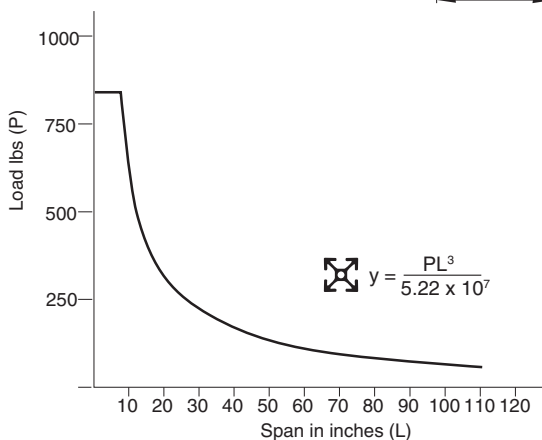
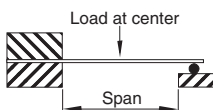
Clear Anodized

EX-11

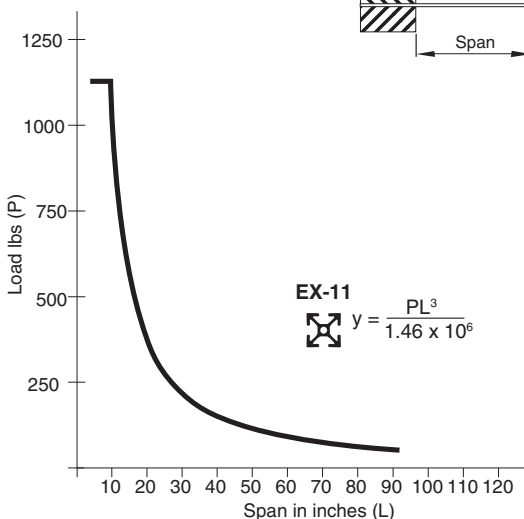
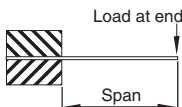
Black Anodized

BLX-11

Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



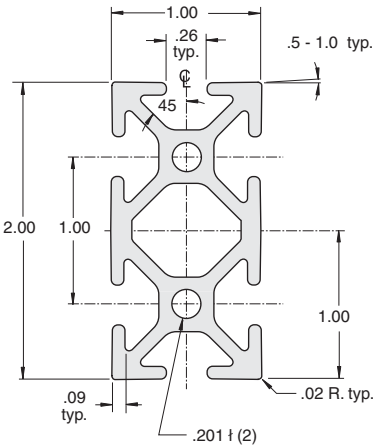
Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-12
BLX-12

Clear Anodized

Black Anodized



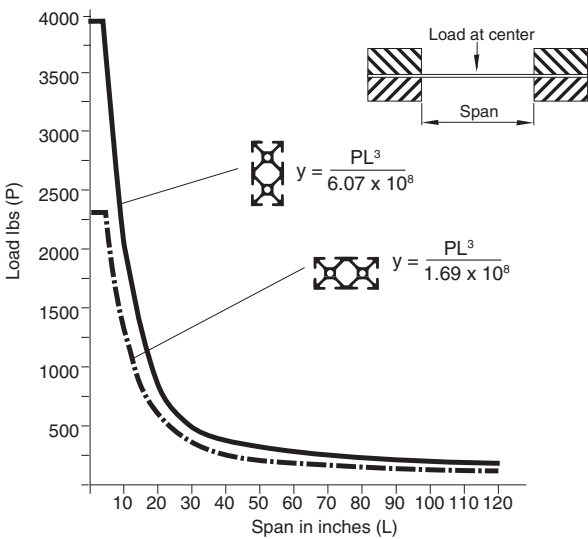
- Material = 6105-T5 Aluminum
- Est. Area = .807 Sq. In.
- Weight/ft = .949 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Intertia in ⁴	.316	.088
Section modulus in ³	.316	.176



Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



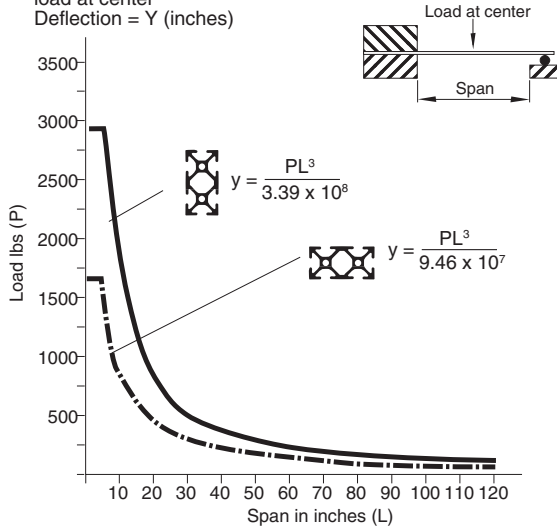
Clear Anodized

EX-12

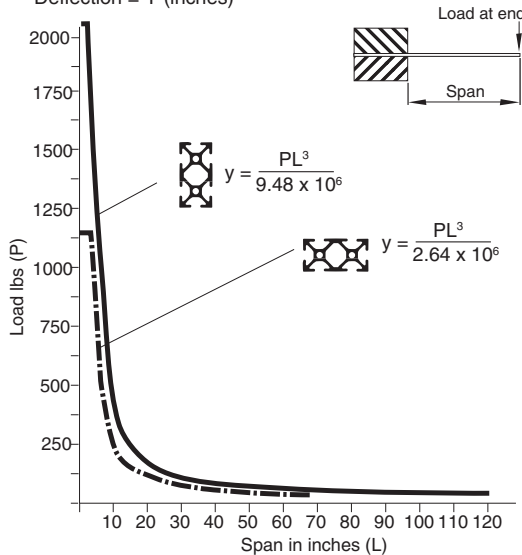
Black Anodized

BLX-12

Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)

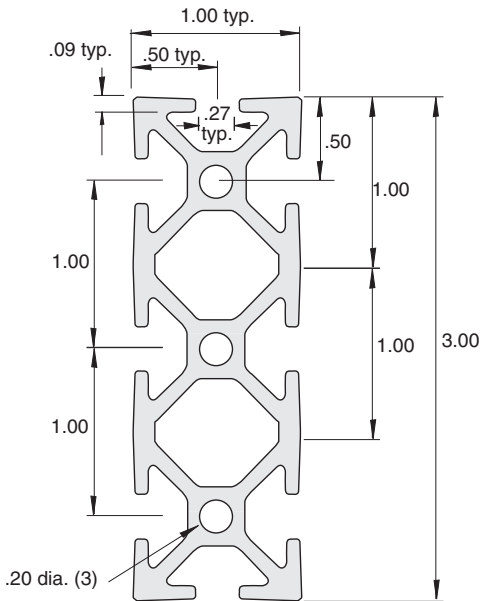


Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-13

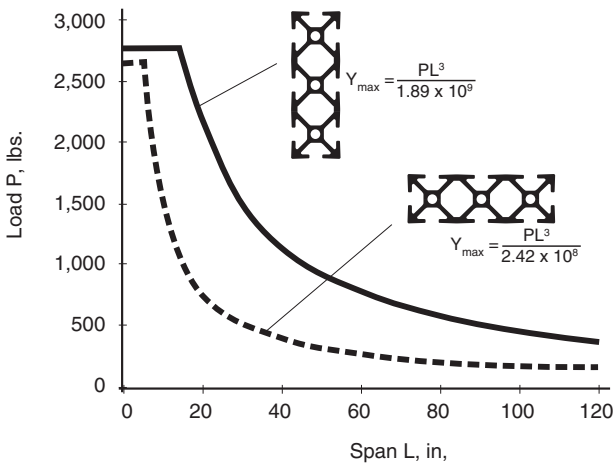
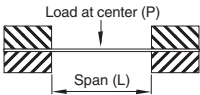
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area =1.162 Sq. In.
- Weight/ft = 1.367 lbs.
- 96", 192.63"Lengths standard.



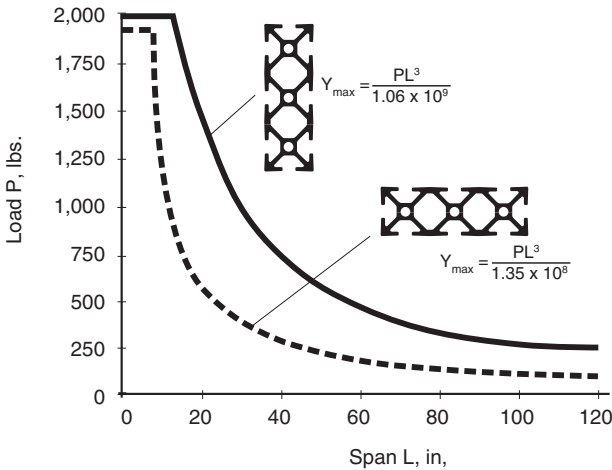
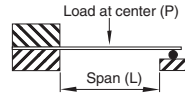
Section Properties:

Moment of Intertia in ⁴	1.376	0.387
Section modulus in ³	0.917	0.516

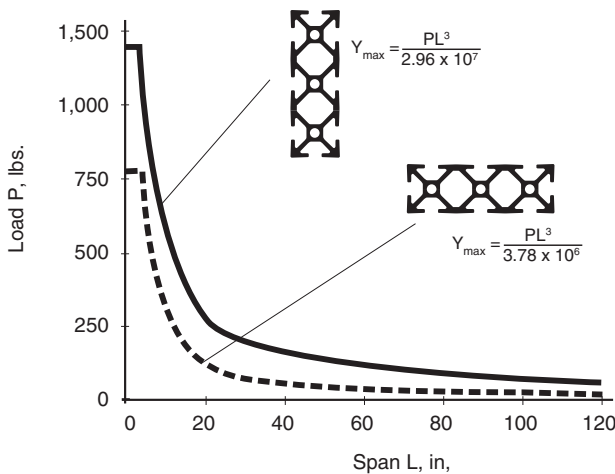
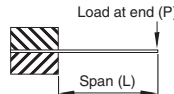
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



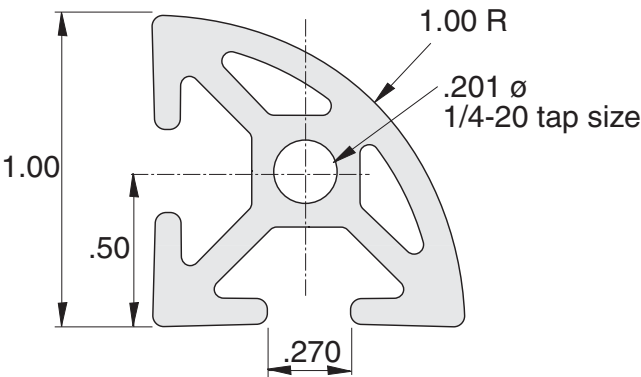
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



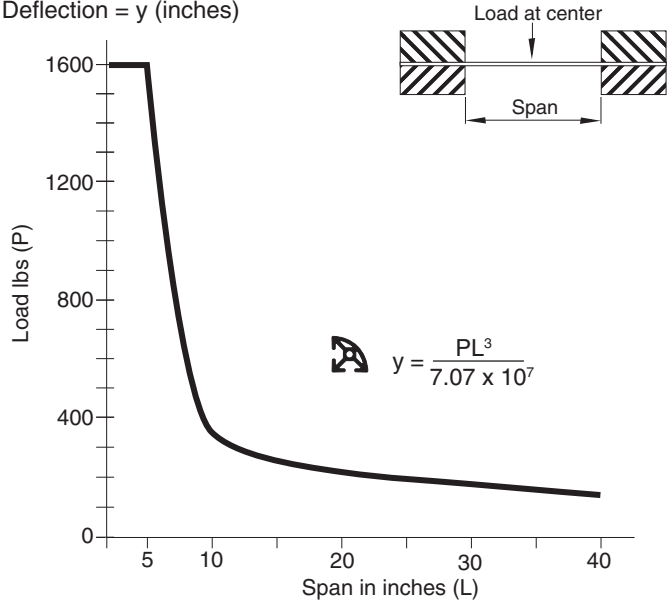
EX-14



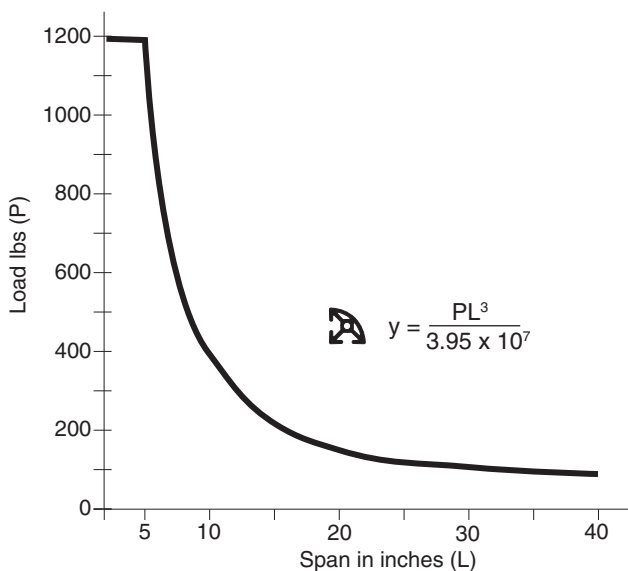
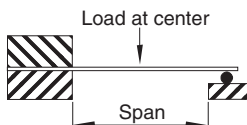
- Finish = Clear anodized
- Material = 6105-T6 Aluminum
- Est. Area = .438 Sq. In.
- Weight/ft = .515 lbs.
- 96", 192.63" Lengths standard.

Section Properties:	
Moment of Intertia in ⁴	.037
Section modulus in ³	.068

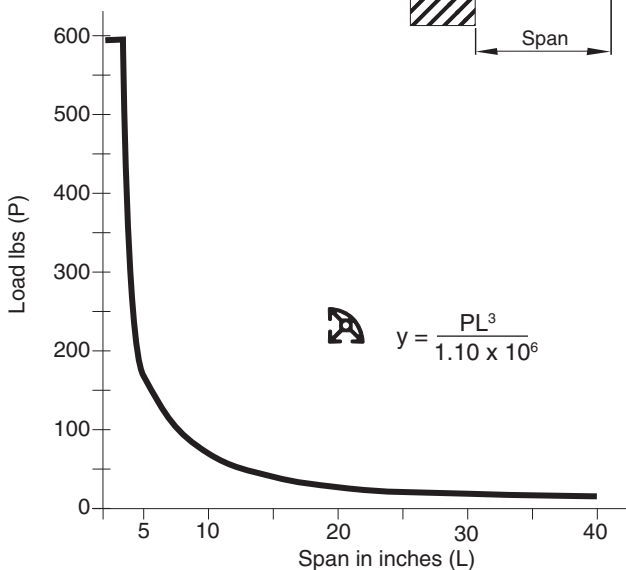
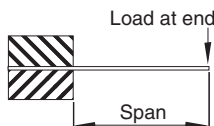
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



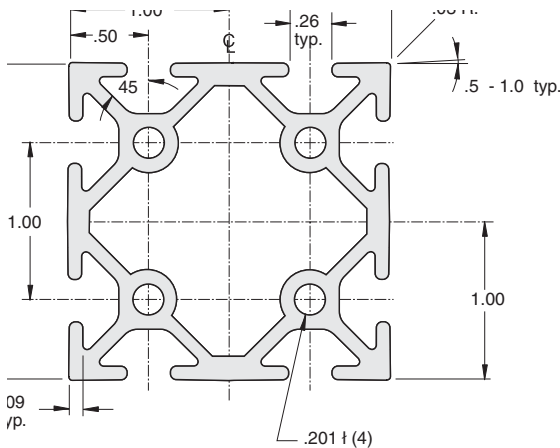
Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-22
BLX-22

Clear Anodized

Black Anodized

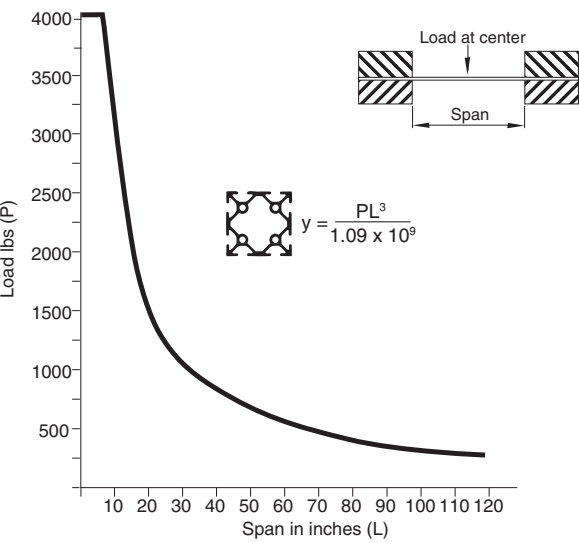


- Material = 6105-T5 Aluminum
- Est. Area = 1.249 Sq. In.
- Weight/ft = 1.468 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Intertia in ⁴	.569
Section modulus in ³	.569

Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



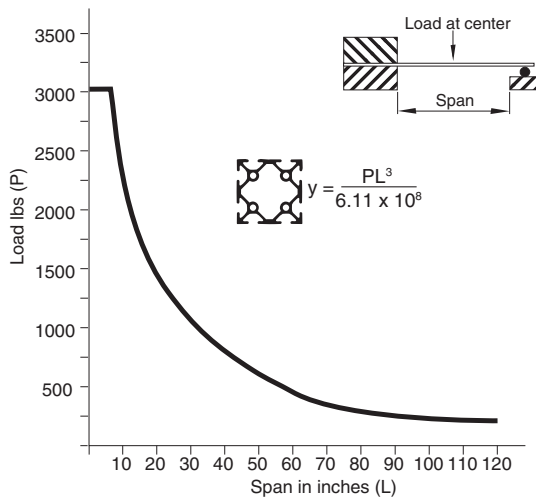
Clear Anodized

EX-22

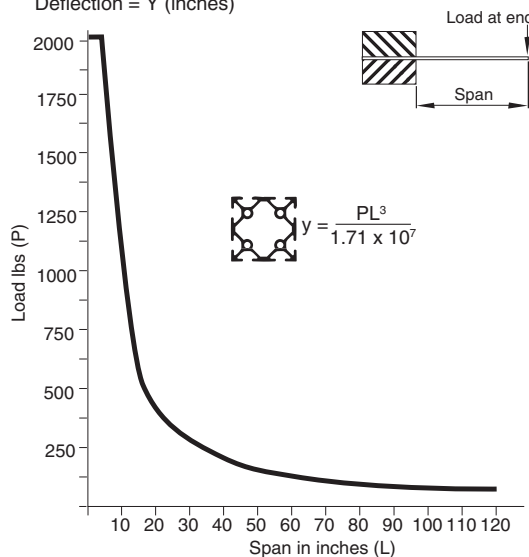
Black Anodized

BLX-22

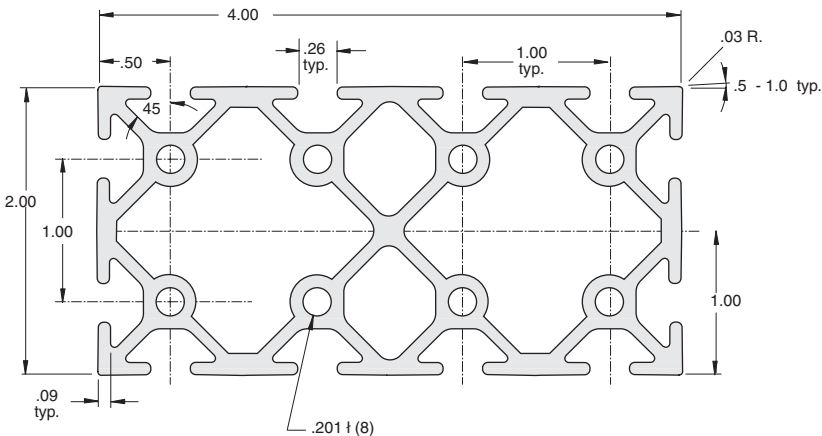
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-24



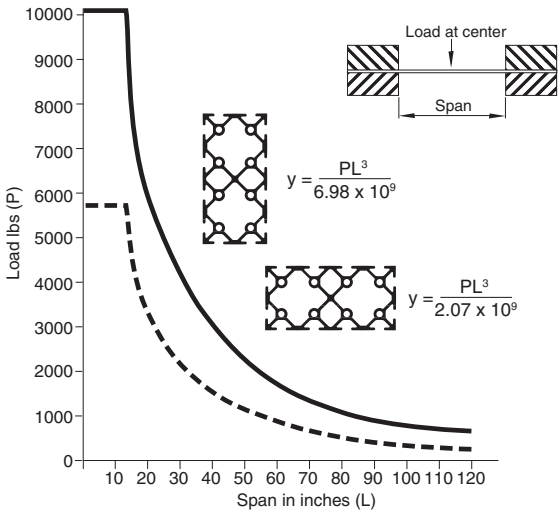
- Finish = Clear anodized
- Material = 6063-T6HT Aluminum
- Est. Area = 2.352 Sq. In.
- Weight/ft = 2.766 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

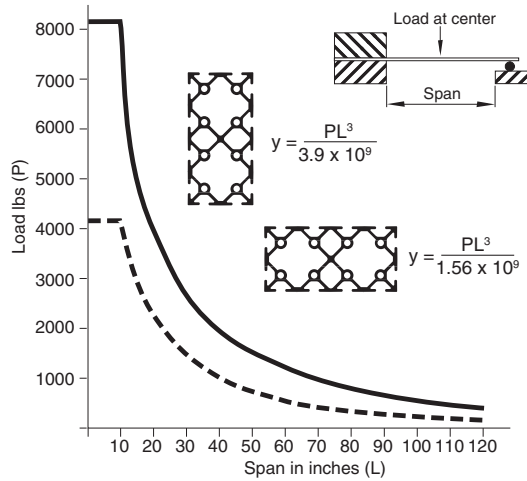
Moment of Inertia in ⁴	3.634	1.078
Section modulus in ³	1.817	1.078



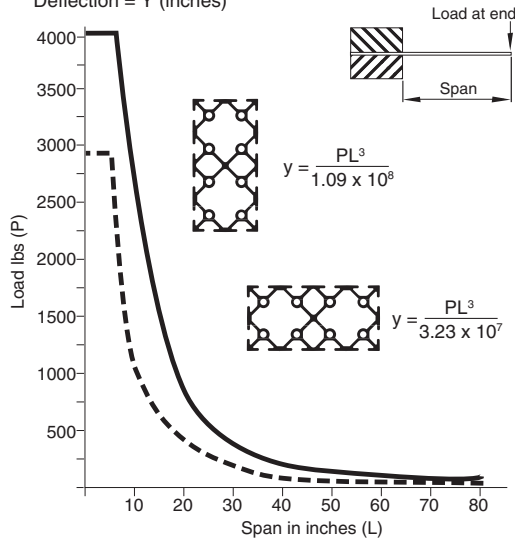
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



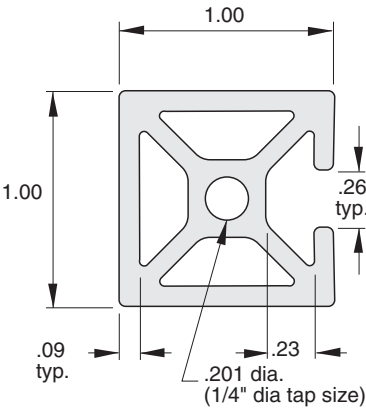
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-70



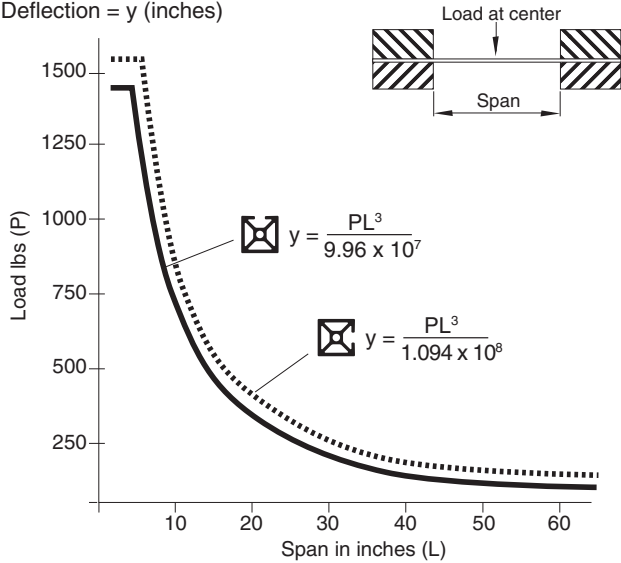
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .576 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

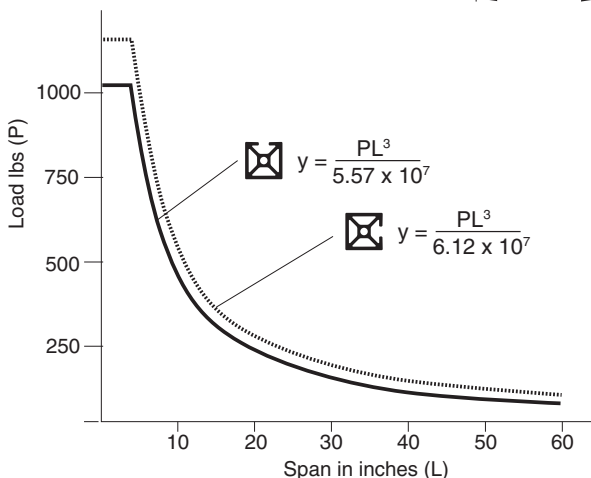
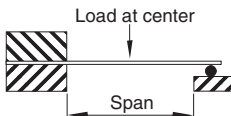
Moment of Intertia in ⁴	.057	.052
Section modulus in ³	.114	.099



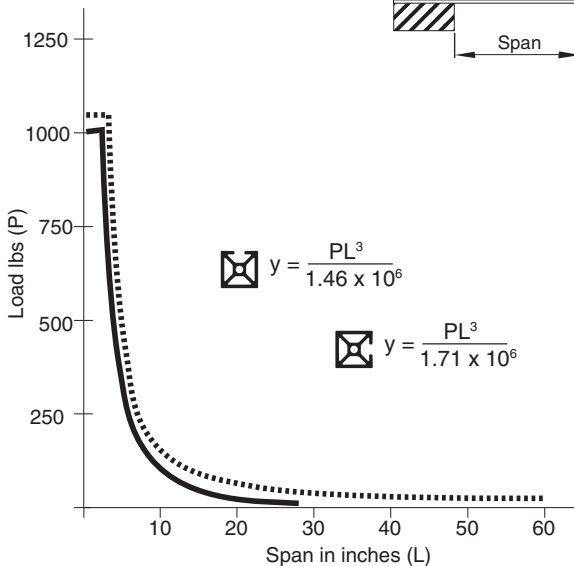
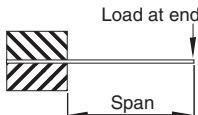
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



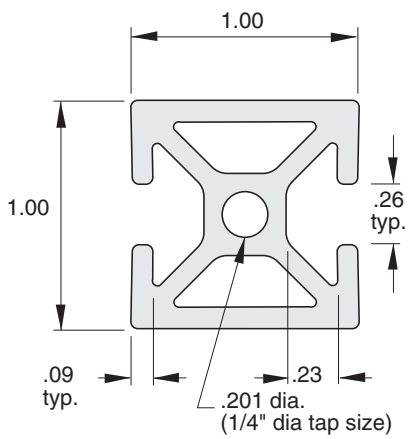
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-71



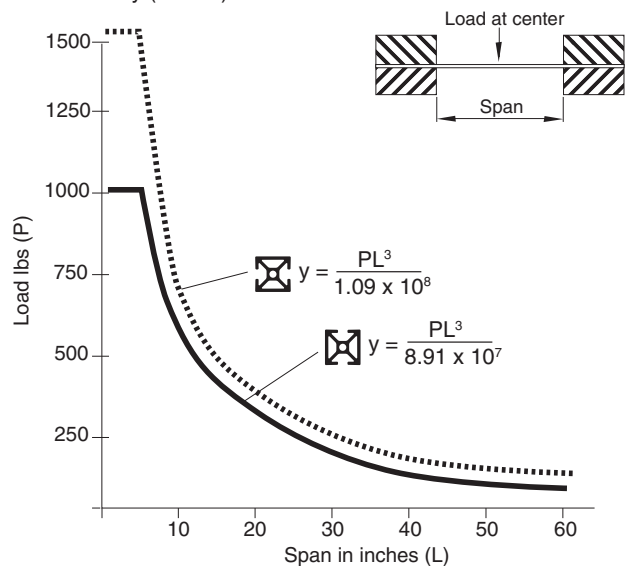
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .550 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

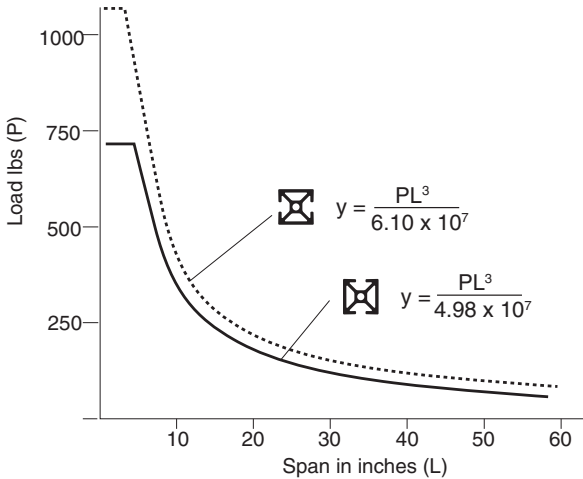
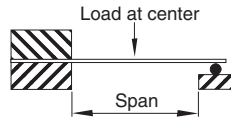
Moment of Intertia in ⁴	.057	.046
Section modulus in ³	.114	.093



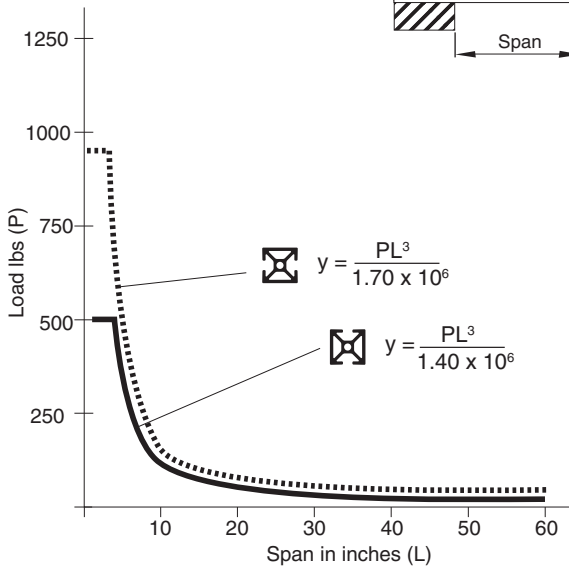
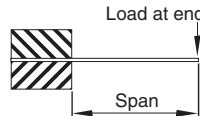
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



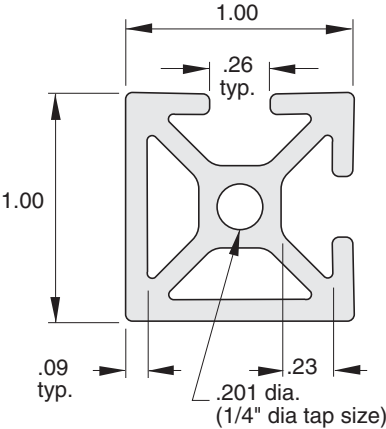
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-72

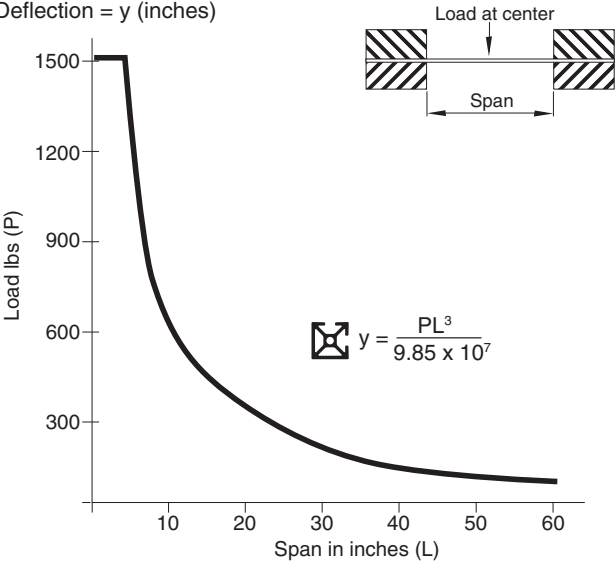


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .546 lbs.
- 96", 192.63" Lengths standard.

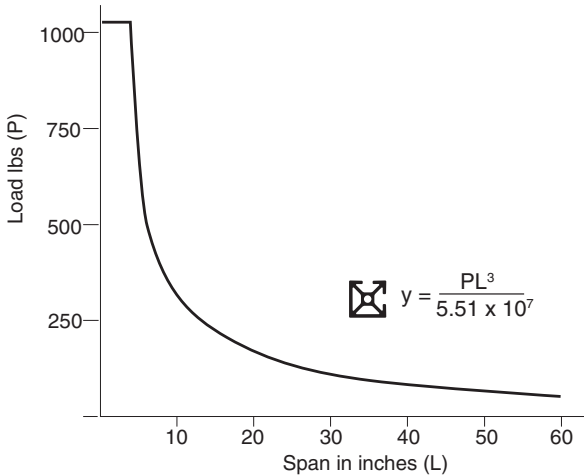
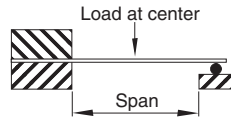
Section Properties:

Moment of Intertia in ⁴	.051
Section modulus in ³	.098

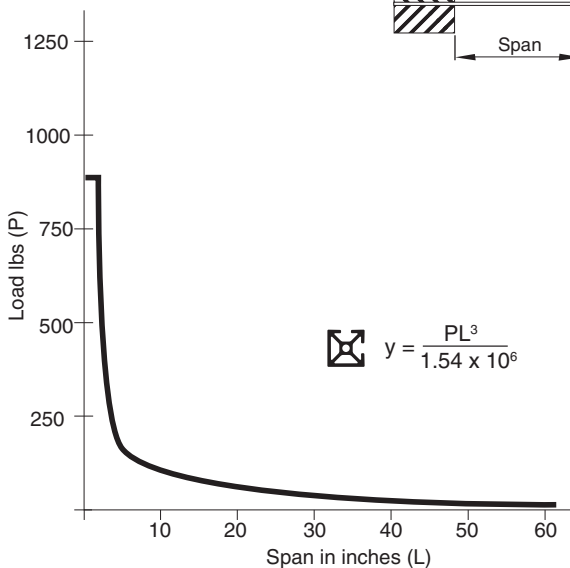
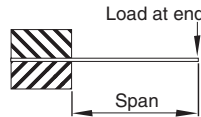
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



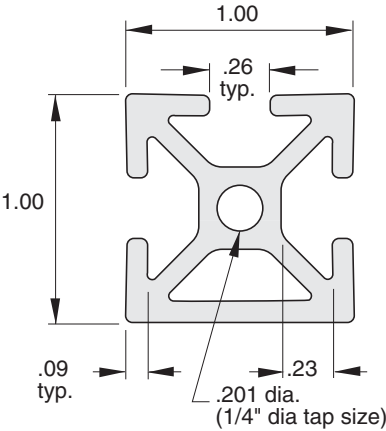
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-73

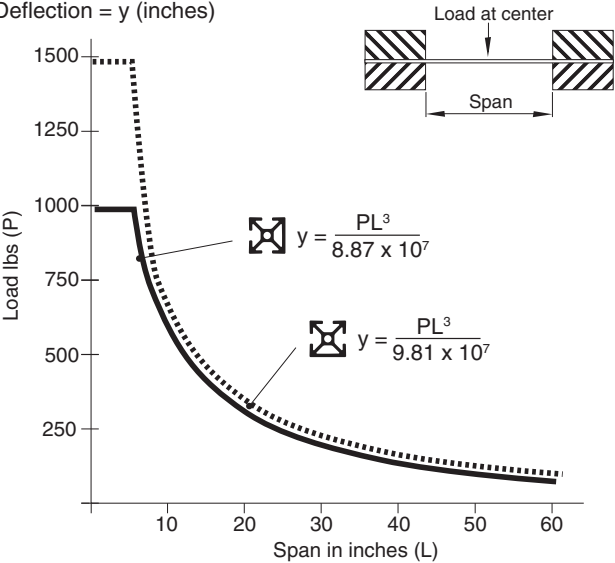


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .523 lbs.
- 96", 192.63" Lengths standard.

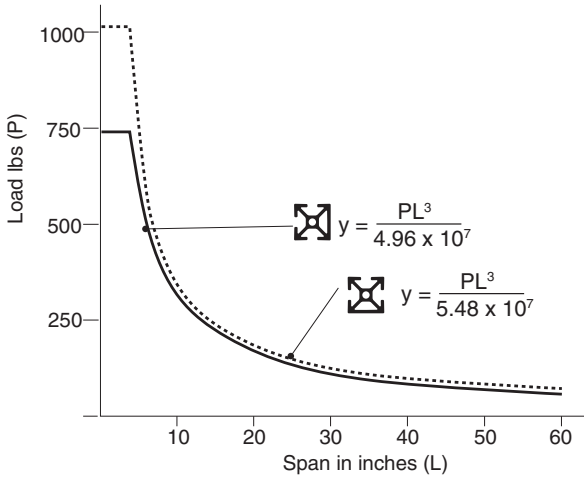
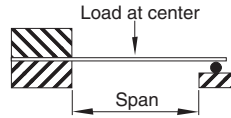
Section Properties:

Moment of Intertia in ⁴	 .051	 .046
Section modulus in ³	.099	.092

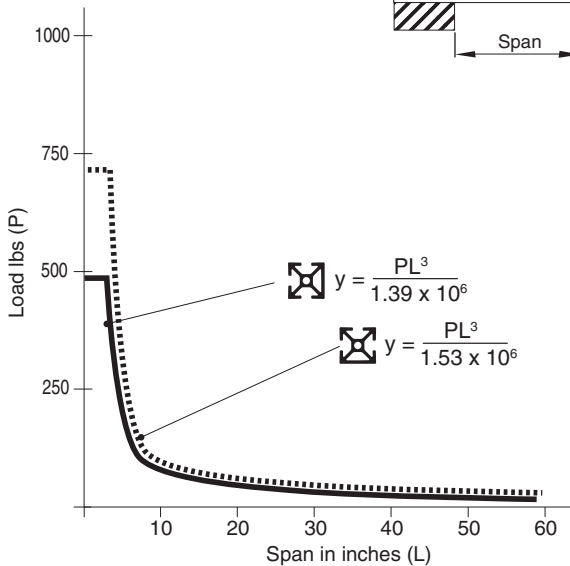
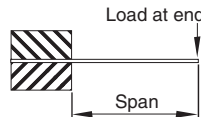
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



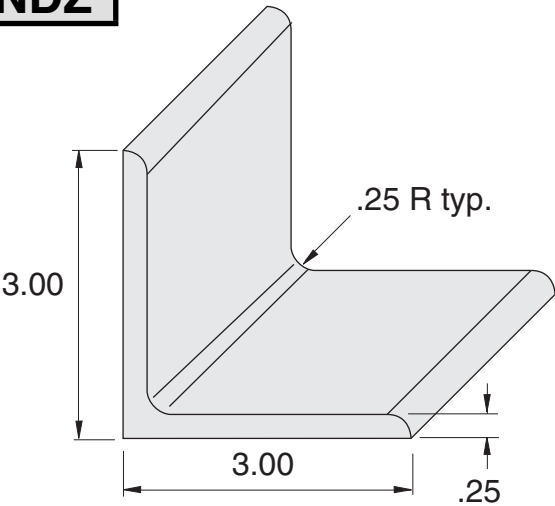
Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



FRAME-WORLD's blank angle bracket profiles are made from aluminum and are provided with a standard mill finish. Clear anodized finish is also available. They are stocked in 8 ft. and 12 ft. lengths.

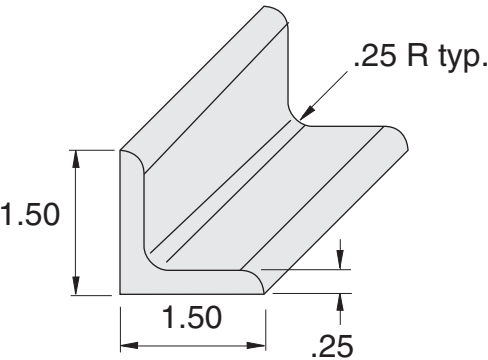
EX-15
EX-15-ANDZ

1.68 lb/ft



EX-16
EX-16-ANDZ

.81 lb/ft



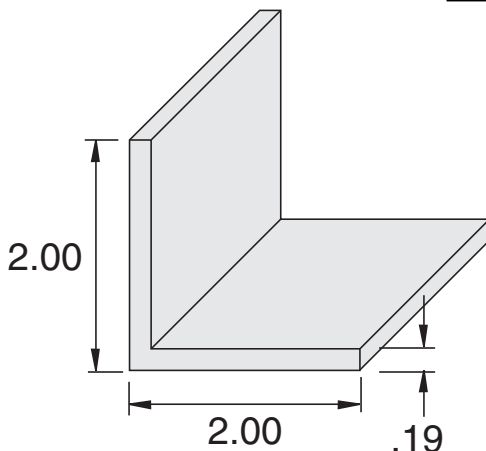
Order by Part No. For Special lengths, consult the factory.

FRAME-WORLD's blank angle bracket profiles are made from aluminum and are provided with a standard mill finish. Clear anodized finish is also available. They are stocked in 8 ft. and 12 ft. lengths.

EX-17

EX-17-ANDZ

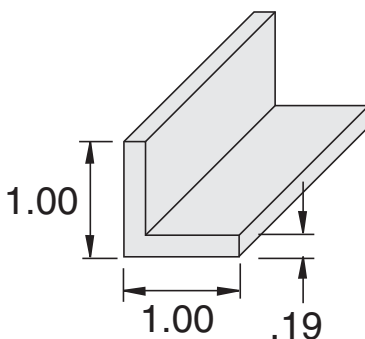
.83 lb/ft



EX-18

EX-18-ANDZ

.40 lb/ft

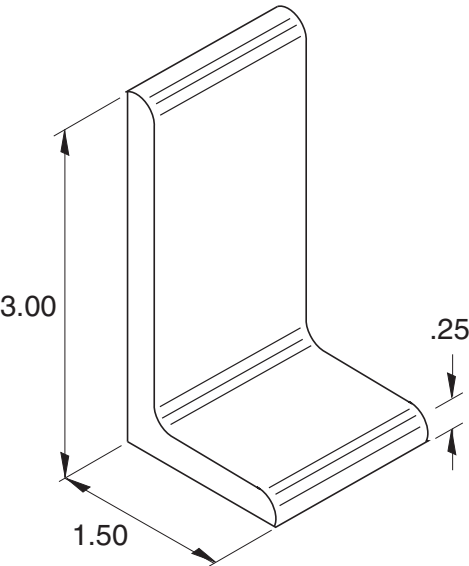


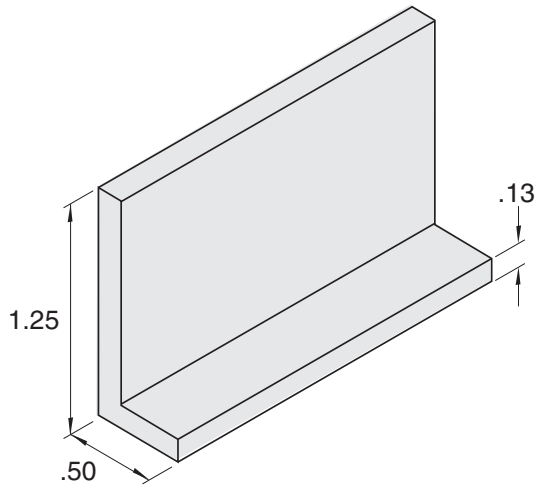
Order by Part No. For Special lengths, consult the factory.

FRAME-WORLD Blank Angle Profiles are made from aluminum and are provided with a standard mill finish. They are stocked in 8 ft. and 12 ft. lengths

EX-34
EX-34-ANDZ

1.25 lb/ft



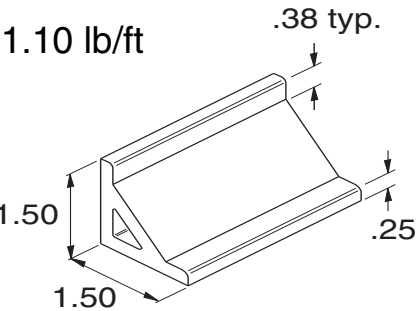
Mill Finish**EX-53****.24 lb/ft****Standard Length 96", 192.63"****Material: Aluminum****Finish: Mill Finish**

Angle Bracket Profiles

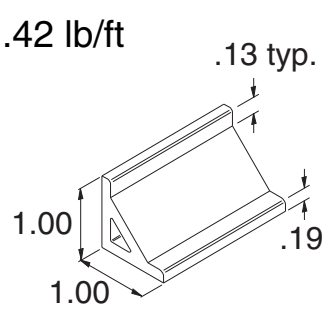


FRAME-WORLD's blank angle bracket profiles are made from aluminum and are provided with a standard mill finish. Clear anodized finish is also available. They are stocked in 8 ft. and 12 ft. lengths.

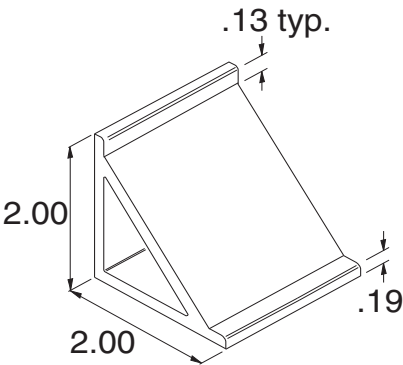
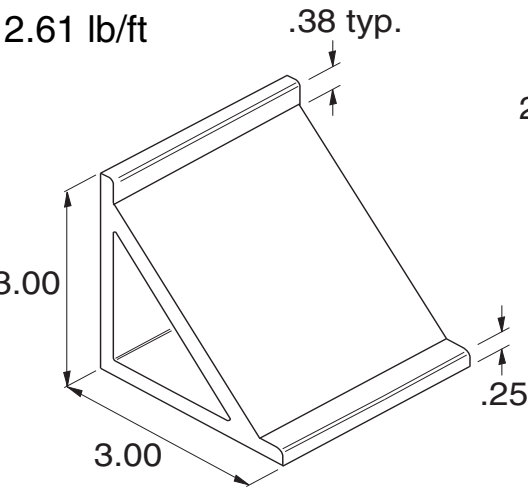
EX-30
EX-30-ANDZ



EX-32
EX-32-ANDZ



EX-31
EX-31-ANDZ



EX-33
EX-33-ANDZ

1.33 lb/ft



FRAME-WORLD can provide you with a kit that is ready to assemble. We will provide machining services such as access holes, taps, cuts and counterbores. We can also provide miter cuts and any special milling, drilling or tapping requirements that you may have.

In addition to the items within this catalog, FRAME-WORLD can also provide panels cut to size. Materials can be Acrylic (Plexiglass®), Polycarbonate (Lexan®) expanded PVC (Sintra®) or ABS (Haircell). This also includes any drilling, tapping or machining required for panel mounting.

Customized packaging is also available, such as kits for multiple quantities of the same item (i.e. frame, fixture, panel, etc.) or labeling individual components of one item.

For all special services and for any parts not shown in this catalog, please contact our Application Group.

Standard Machining Services

1. Cut to length 5/16" or 1/4" slot profiles
 - Any profile shape (except EX-45HD)
 - Length tolerance = +.015"
 - Squareness = .002" per inch

Part No.

EM-1

2. Cut to length EX-45HD
 - Length tolerance = +.030"
 - Squareness = .005" per inch

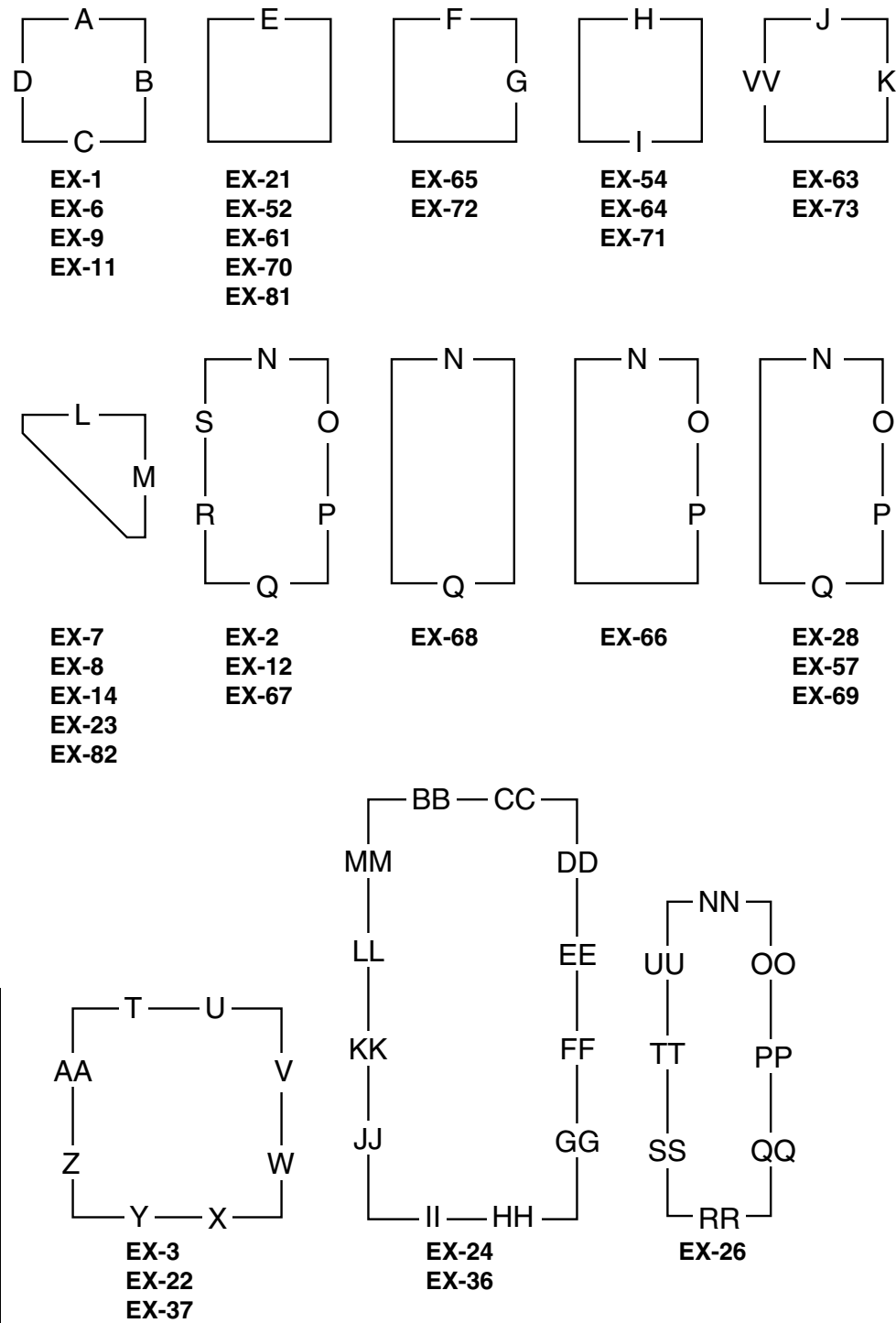
EM-1-EX45

3. End hole tap
 - A. 5/16" slot profiles
 - 5/16"-18 x 1.0 deep thread
 - .260 dia. extruded hole size
 - m8 x 1.25 on request
 - B. 1/4" slot profiles
 - 1/4-20 x .75 deep thread
 - .201 dia. extruded hole size
 - m6 x 1.0 on request

EM-2

EM-2

4. T-slot identification



5. Access Hole Drill

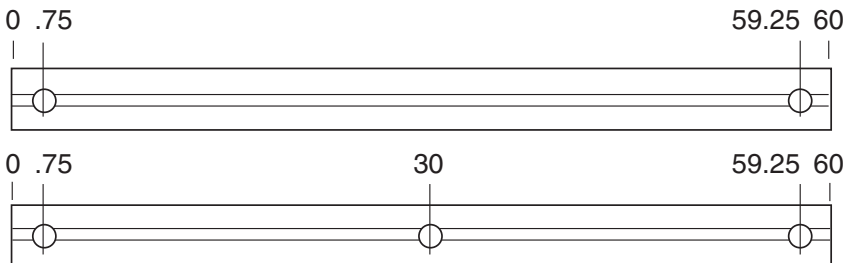
- A. For 5/16" wide slot profiles
the drill dia. = .31"
all the way through
- B. For 1/4" wide slot profiles
the drill dia. = .25"
all the way through.

EM-3

EM-3

Example:

(2) pcs EX-1 x 60.0" with EM-3's on A & B at .75 from each end and on B at 30.0"



Total EM-1 cuts =2

Total EM-3 Drills = 10

6. C'bore or C'sink Hole Drill

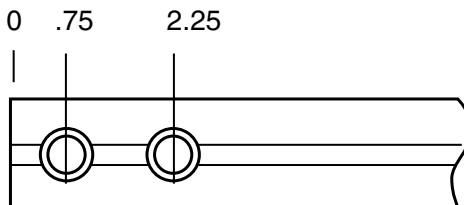
EM-3C

Specify type and location for a countersink hole in a panel or extrusion.

Example:

For a panel: Drill and C'sink for 5/16-18 FHCS per dwg (must submit sketch of panel)

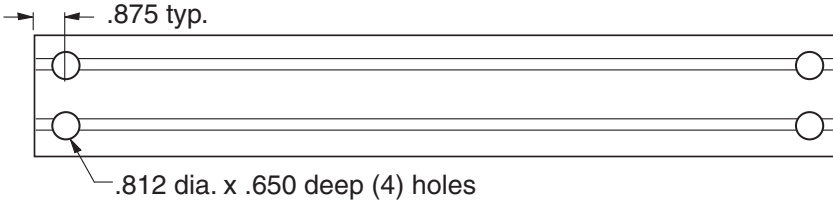
For an extrusion: Drill and C'bore for 5/16-18 SHCS slot [A] @ 0.75, 2.25 from end.



7. Anchor Fastener Counter Bores

- A. For 5/16" slot profiles the counterbore
dia. = .812 x .650 deep
location is .875 from the end

EM-5



Example

(2) EX-2 x 30.0" with EM-5's at O & P both ends

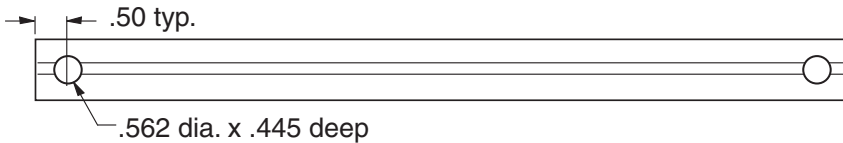
Total EM-1 cuts = 2

Total EM-5 counterbores = 8

Total EF-62 anchor fasteners = 8

- B. For 1/4" slot profiles the counterbore
dia. = .562 x .445 deep
location is .500 from the end

EM-7



Example

(2) EX-12 x 50.0" with EM-7's at N & Q both ends

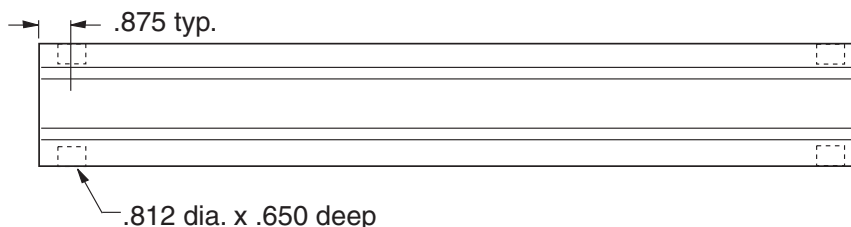
Total EM-1 cuts = 2

Total EM-7 counterbores = 8

Total 11-242 anchor fasteners = 8

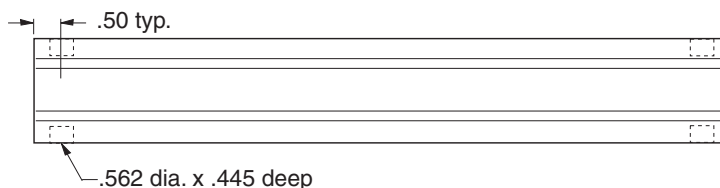
Part No.
EM-5

- C. For 5/16" slot profiles using double anchor fasteners EF-63 & EF-64
the counterbore dia. = .812 x .650
location is .875 from the end


Example

- (2) EX-2 x 30.0" with EM-5's at N & Q both ends
Total EM-1 cuts = 2
Total EM-5 counterbores = 8
Total EF-64 anchor fasteners = 4

- D. For 1/4" slot profiles using double anchor fasteners 11-248 & 11-249,
the counterbore dia. = .562 x .445 deep
location is .500 from the end

EM-7

Example

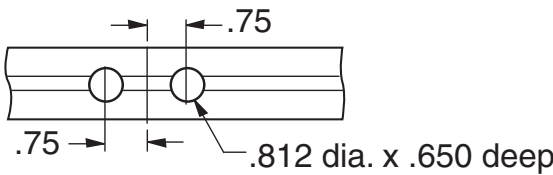
- (2) EX-12 x 20.0" with EM-7's at N & Q both ends
Total EM-1 cuts = 2
Total EM-7 counterbores = 8
Total 11-249 anchor fasteners = 4

Part No.

EM-8

8. Anchor Butt Fastener Counterbores

- A. For 5/16" wide slot profiles the counterbore dia. = .812 x .650 deep. Location is .75 from the end



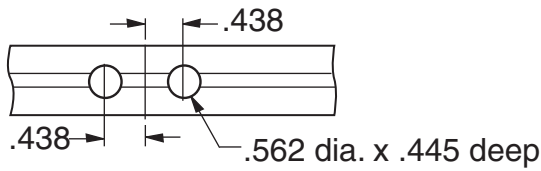
Example: (for a 300" long piece)



- (2) EX-1 x 150.0
- (2) EM-1
- (4) EM-8
- (2) EF-61

- B. For 1/4" wide slot profiles the counterbore dia. = .562 x .445 deep. Location is .438 from the end

EM-9



Example: (for a 200" long piece)



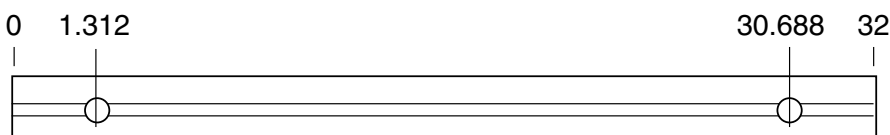
- (2) EX-11 x 100.0
- (2) EM-1
- (4) EM-9
- (2) 11-243

Part No.
EM-13
9. Set Screw Anchor Fastener Counterbore

For 5/16" wide slot profiles using and EF-49 fastener,
an EM-13 counterbore dia = .625 dia x 1.00 deep
at a distance of 1.312" from the end of the extrusion.

Example:

EX-65 ; 32.000" ; EM-13 [F] @ 1.312, 30.688


10. Wire Mesh and Plastic Panels Cut to Size

Panels any side ≤ 48.0 "

Panels any side > 48.0 "

EM-4S
EM-4L
A. Wire Mesh and Plastic Panels

are sold by the number of square feet

B. To calculate square feet,

multiply the length by width (in inches)
and then divide by 144.

Round up to nearest square foot.

C. Example:

(1) EB-38-1 that is 24" x 47"

Order:

(8) sq ft EB-38-1 (1) @ 24" x 47"

(1) EM-4S

Total Sq. Ft. = $\frac{47.0 \times 24.0}{144.0} = (8)$ sq. ft. EB-38-1

11. Clearance Hole in a Panel

EM-3P

For clearance holes drilled into panel material, include an EM-3P. Please provide a sketch.

12. Notch in Panel or Mesh

EM-4N

For notches in panels or mesh, include an EM-4N for each notch. Please provide a sketch.

13. Extrusion Mitre Cuts & Counter Bores

Miter cut per end

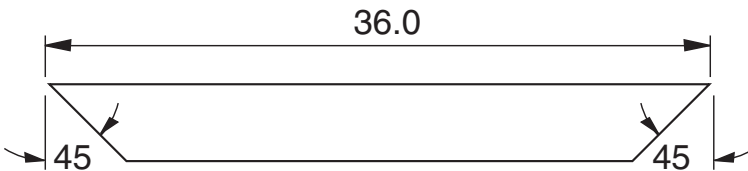
EM-6

Counter bore & hardware per end

EM-10

(1) EM-6/Cut Piece

Example:



Order:

(1) EX-1 x 36.0

(2) EM-6

(2) EM-10 (times (2) for double slot, i.e. EX-2)

Note: for custom angles, consult the factory.

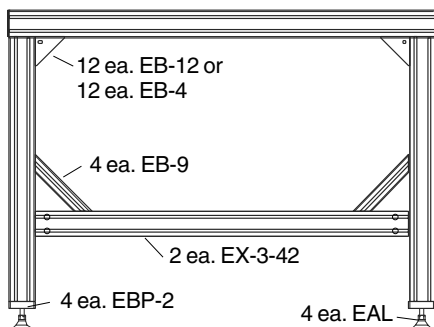
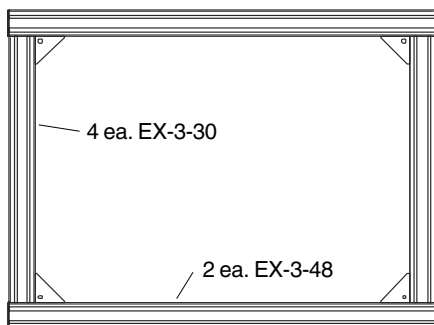
When comparing all costs in the fabrication of a typical machine or table frame using FRAME-WORLD components versus steel weldments, most users realize a 15 to 25% savings. Here are the reasons, or extra steps and equipment in weldment structures:

- Welding fixtures and clamps
- Welding time
- Grinding equipment and grinding of welds
- Clean and degrease
- Drill, tapping or reaming mounting holes
- Deburr
- Primer
- Paint frame and touch up after mounting

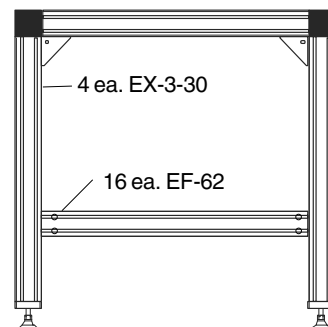
It's easy to see the savings and esthetic effect of FRAME-WORLD.

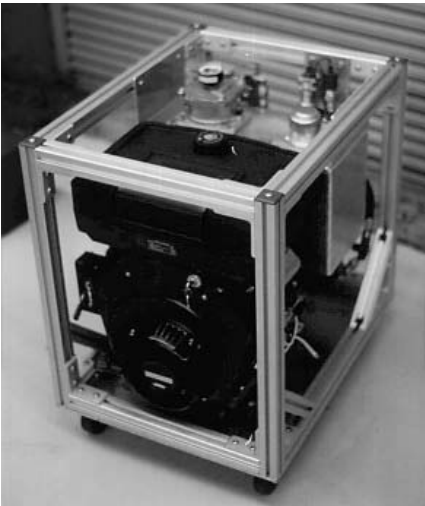
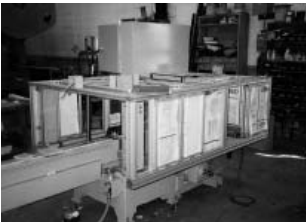
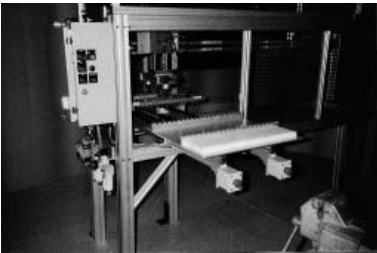
Parts List

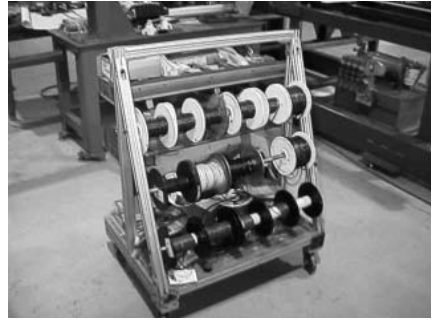
- 8 - EX-3-30 Extrusion
- 2 - EX-3-48 Extrusion
- 2 - EX-3-42 Extrusion
- 4 - EB-9 Angle Bracket
- 12 - EB-12 Angle Bracket
- 4 - EBP-2 Leveling Plate
- 4 - EAL Adjustable Leg
- 4 - EF-19-C Plastic End Plate
- 16 - EF-62 Anchor Fastener

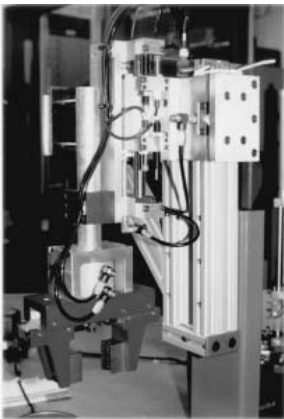
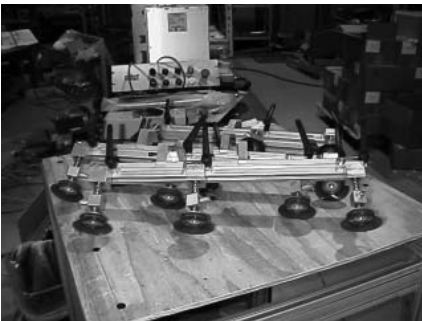
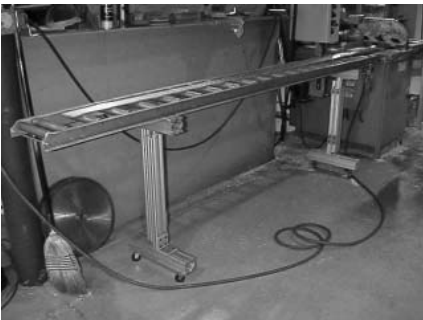
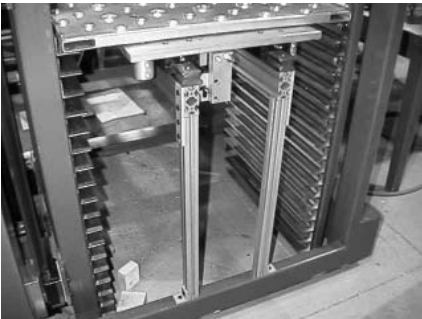


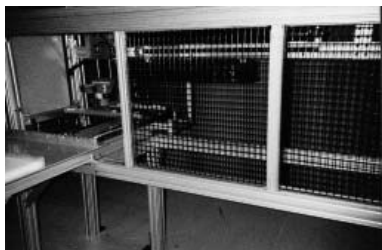
4 ea. EF-19-C

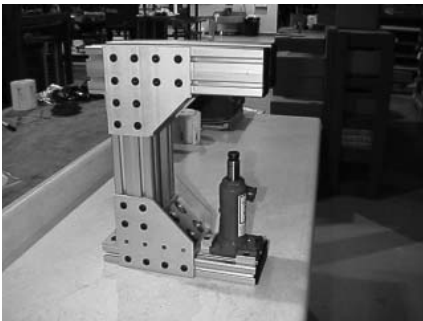
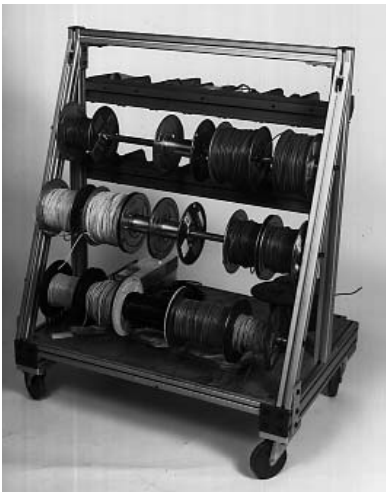












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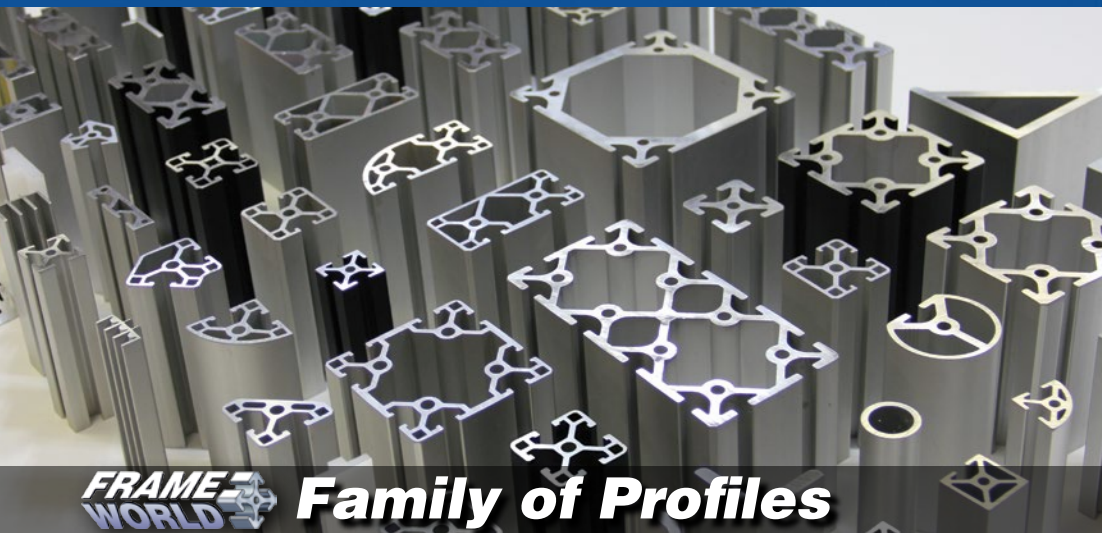
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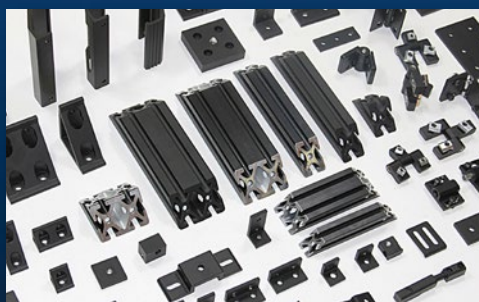
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