

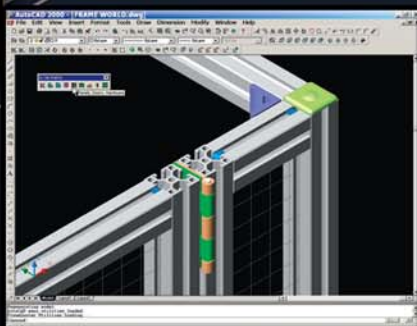
FRAME WORLD

Aluminum Structural Framing Components

NEW FastFrames Modules

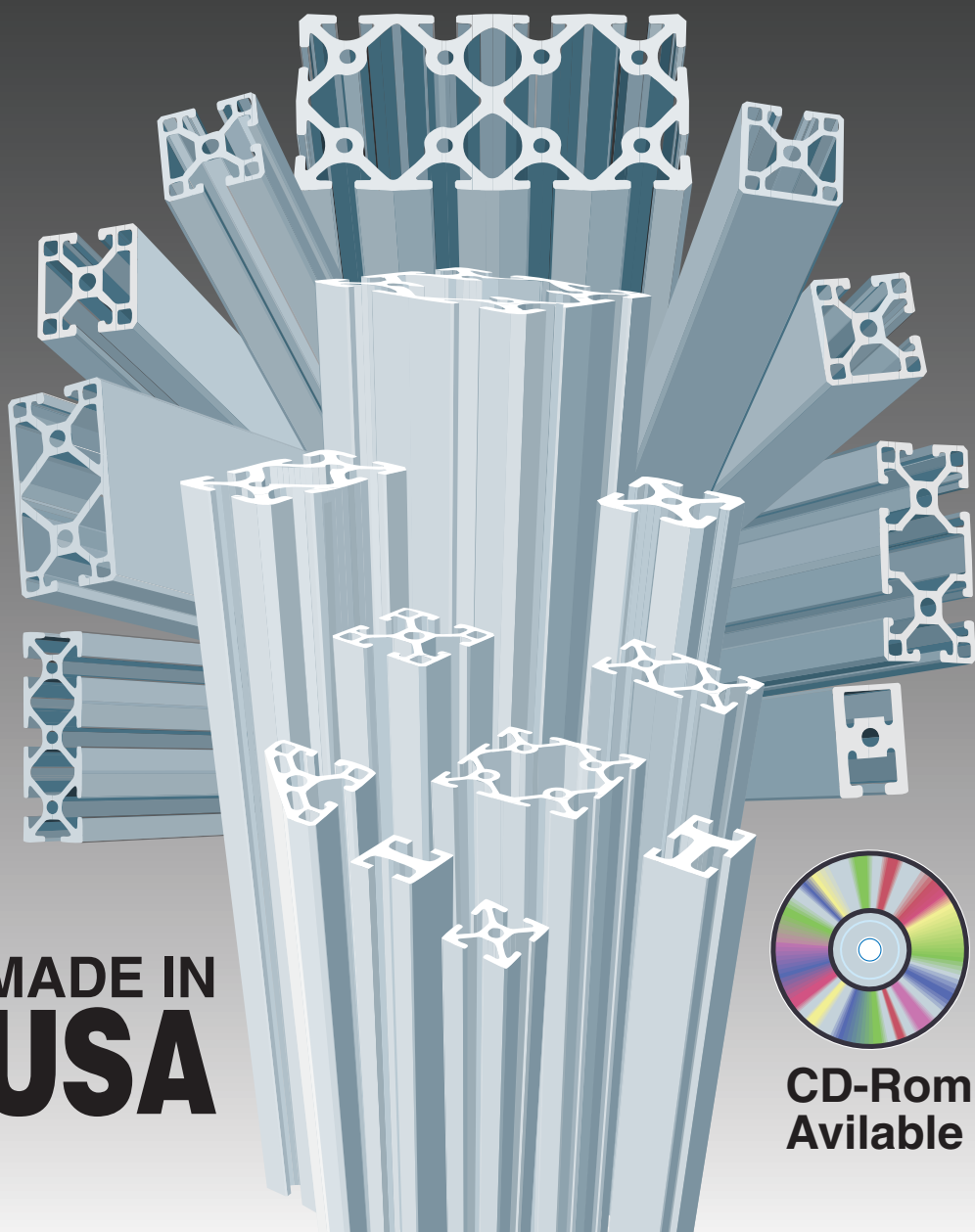


NEW SMOOTH-Series Extrusions



NEW FrameQuoter Design Software

FRAME- **WORLD**



**MADE IN
USA**



**CD-Rom
Available**



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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

Aluminum vs. Steel Weldment

as the last extrusion is in place, that part of the project is ready for use. The T-slot concept easily accommodates 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.

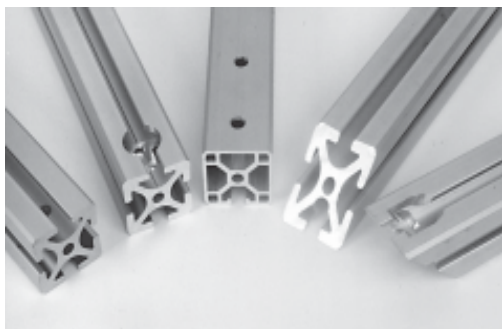
No welding or painting is required. All joint connections are screwed together to provide extensive flexibility and allow for conversions, extensions and are separable.

ALWAYS WEAR SAFETY GLASSES



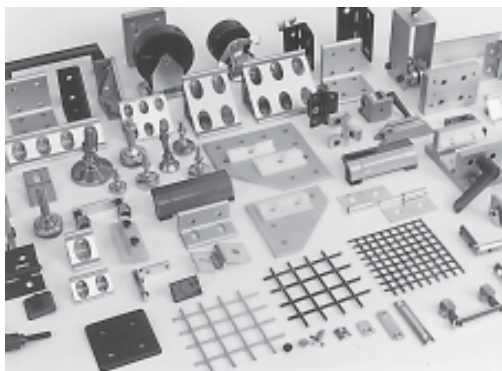
Bulk Profiles

- Standard 96", 144.75", 193.5" lengths. (other lengths can be furnished in quantity)
- Available in standard and **SMOOTH-Series** (slotless) designs
- 1/4" and 5/16" slot sizes
- Optional anodized or powder coat finishes
- Skidded, wrapped, padded and banded for shipping



Cut/Machined Profiles

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

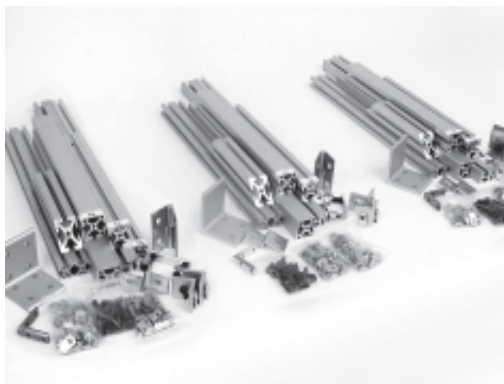


Components & Accessories

- 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



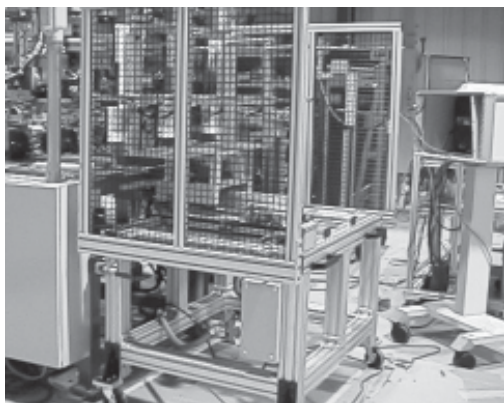
FAST-FRAME Pre-engineered Modules and Sub Assemblies

- Includes panels, doors, bases, carts, conveyor section, etc.
- All necessary hardware is included
- Available assembled or in kit form
- Greatly simplifies designing & ordering of guards, frames, etc.
- 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



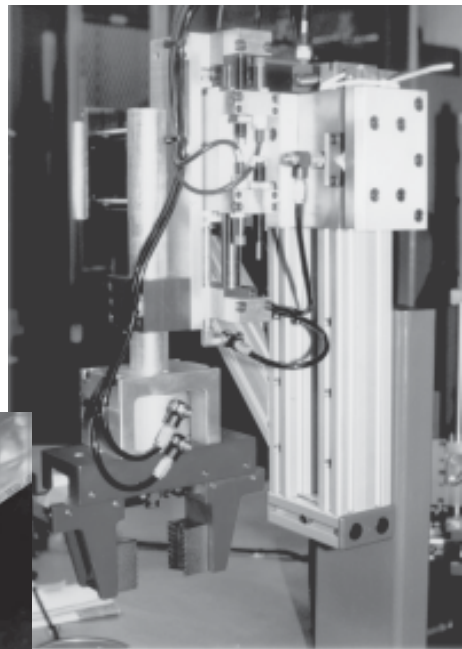
FRAME-WORLD's Aluminum Extrusions can be used in any industrial setting, for any purpose!



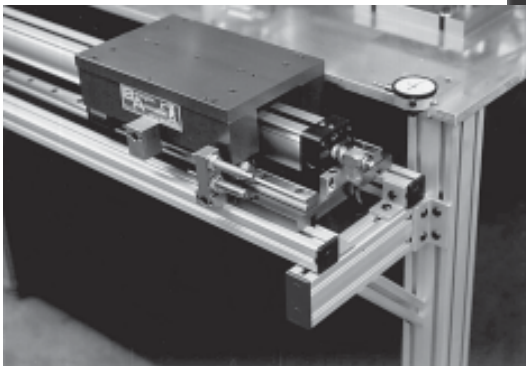
Machining & parts



Show displays



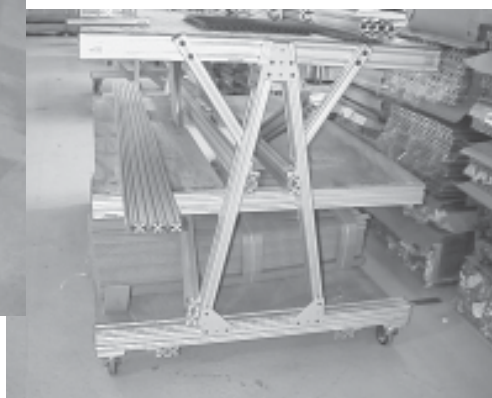
Machine Fixturing



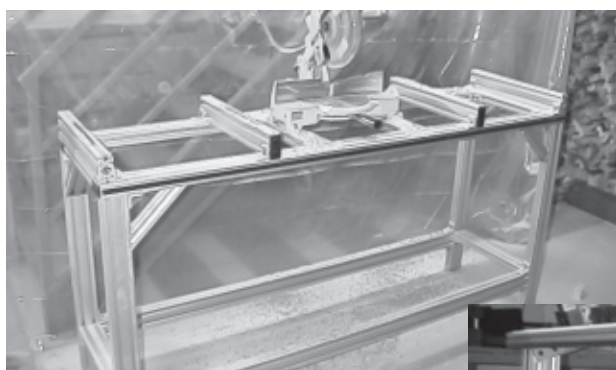
Slide Mount



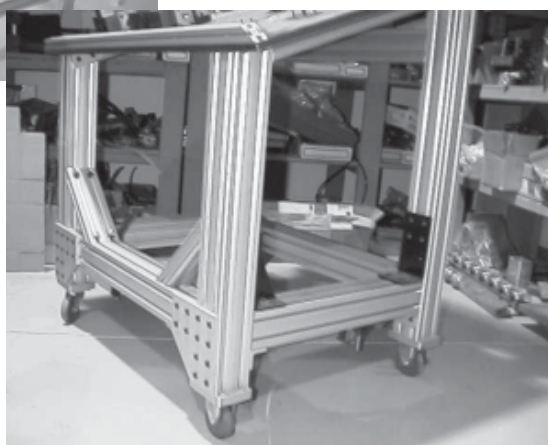
as carts



as racks



work stations



stands



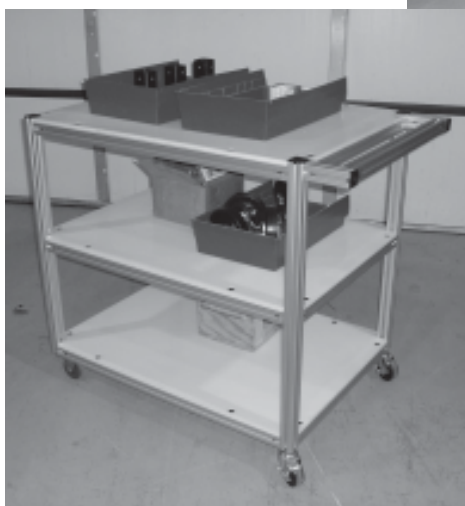
Support brackets

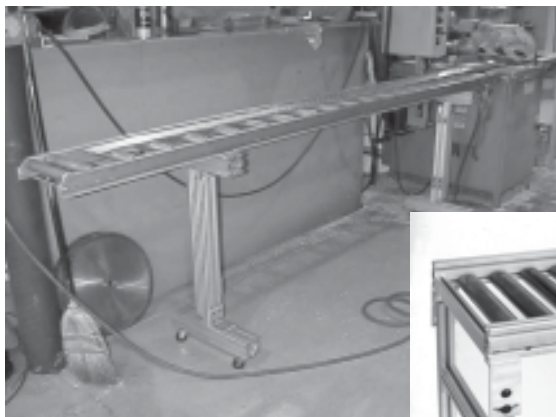


Enclosures

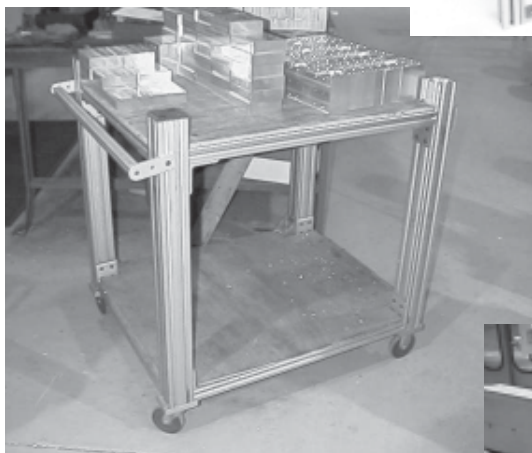


Staging carts





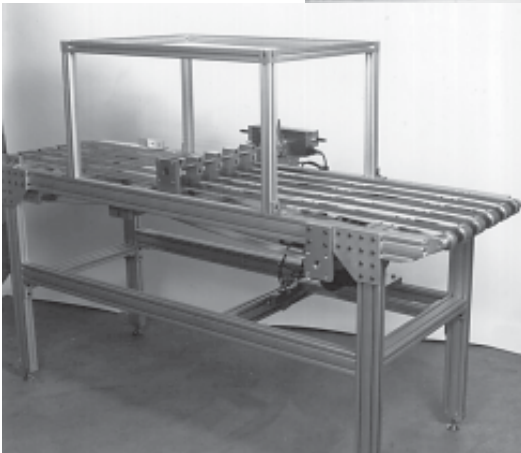
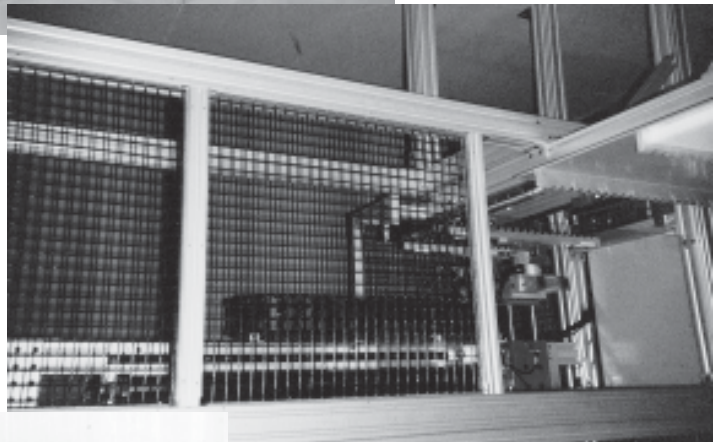
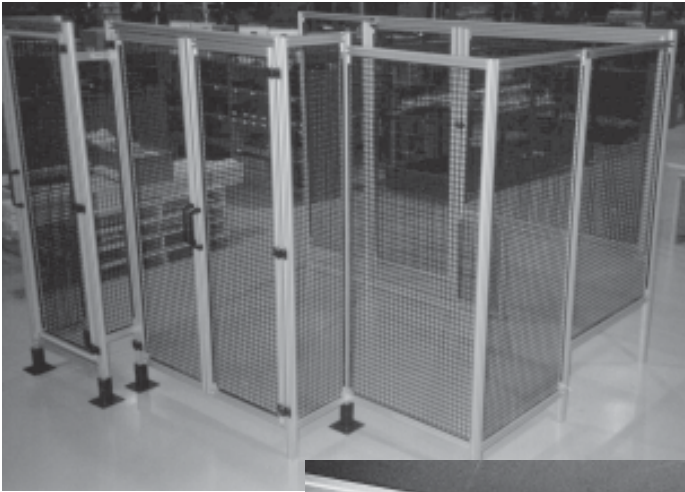
Conveyors



Production Staging



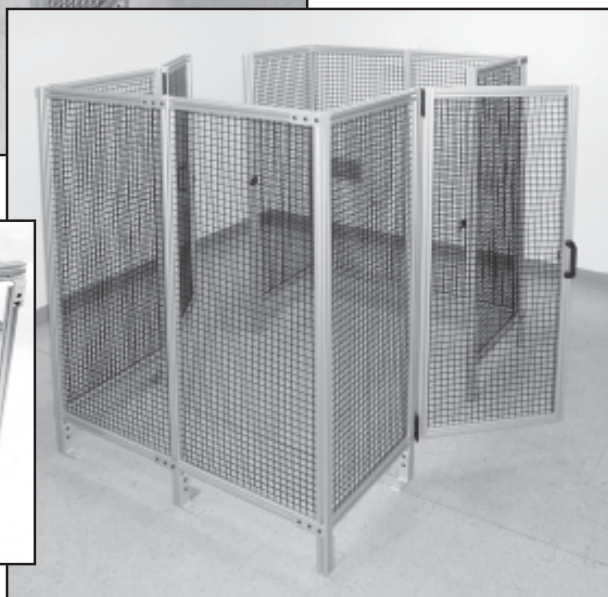
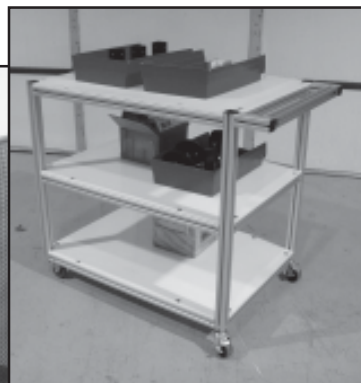
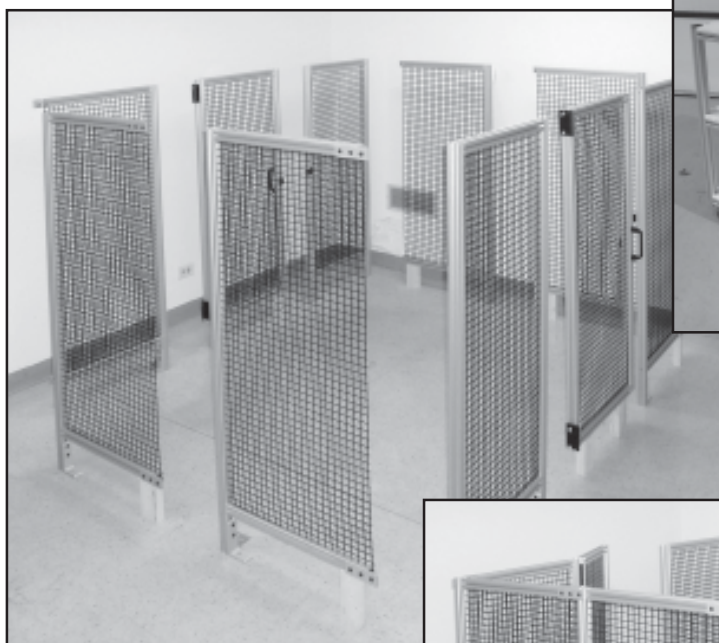
But most importantly, FRAME-WORLD's extrusions are a cost effective, low maintenance way to make machine safety guards.



FastFrames

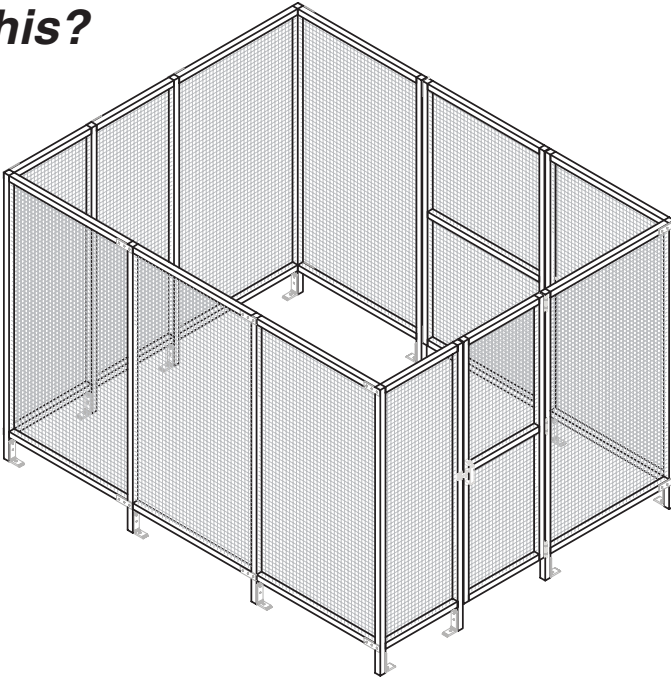
The fastest and easiest way to develop frames, machine guards, enclosures, carts and conveyor systems.

- 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

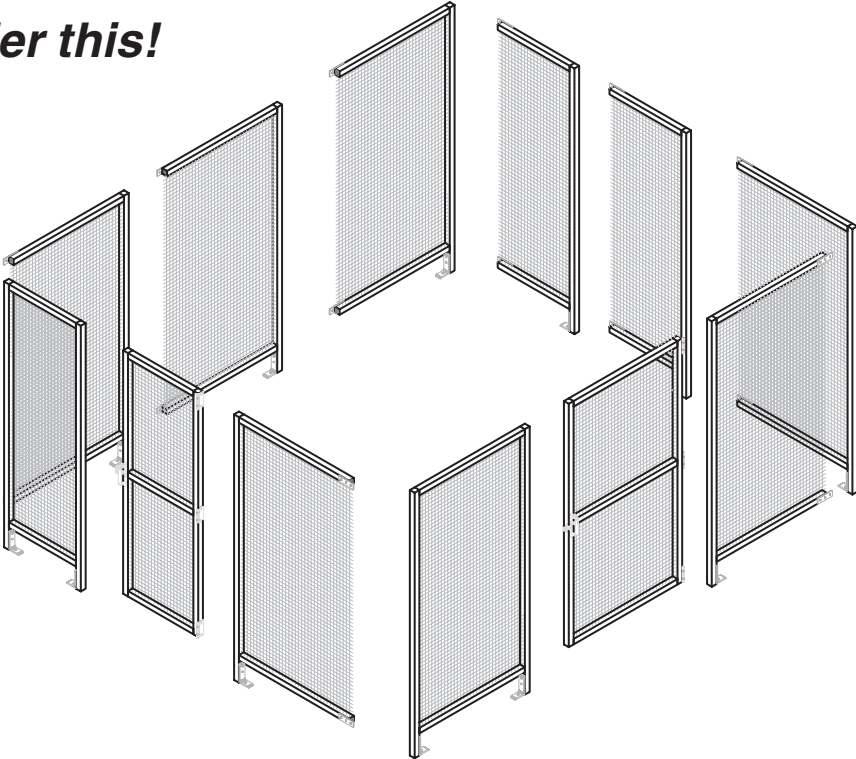


FastFrames

Want this?



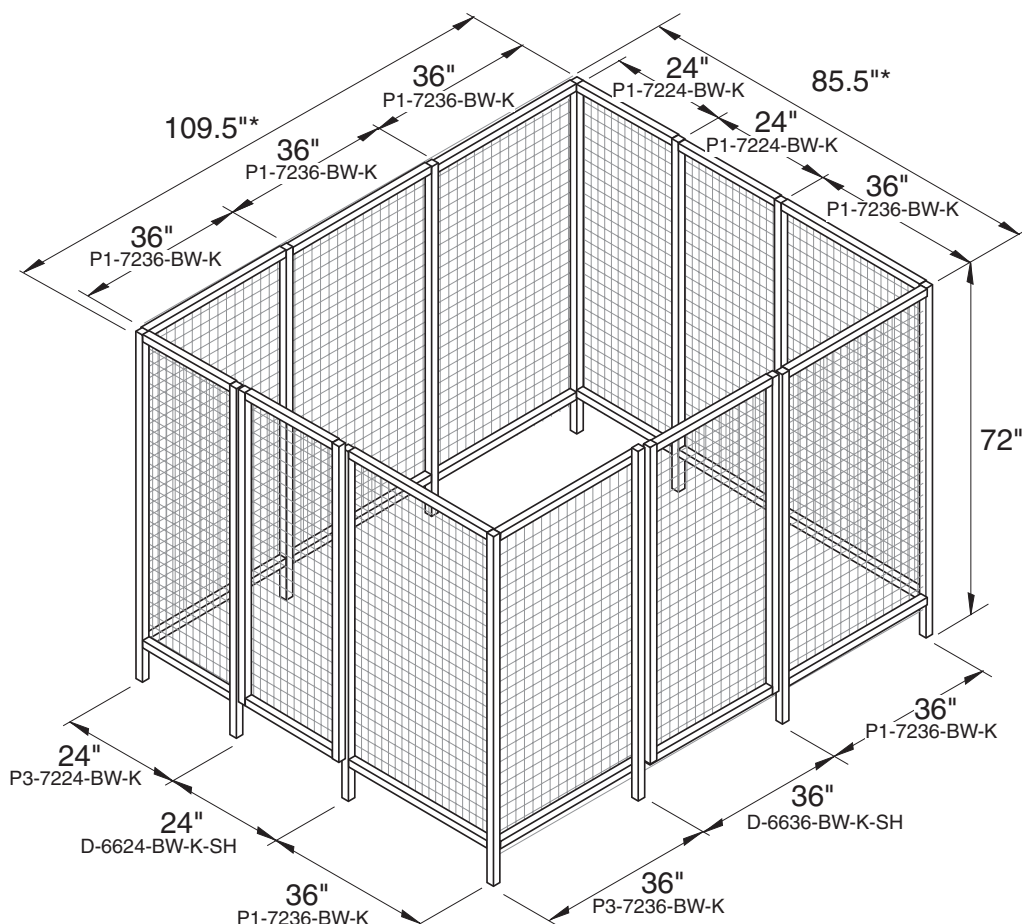
Order this!



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 height to do so.

Please contact your distributor or the factory for custom sizes.

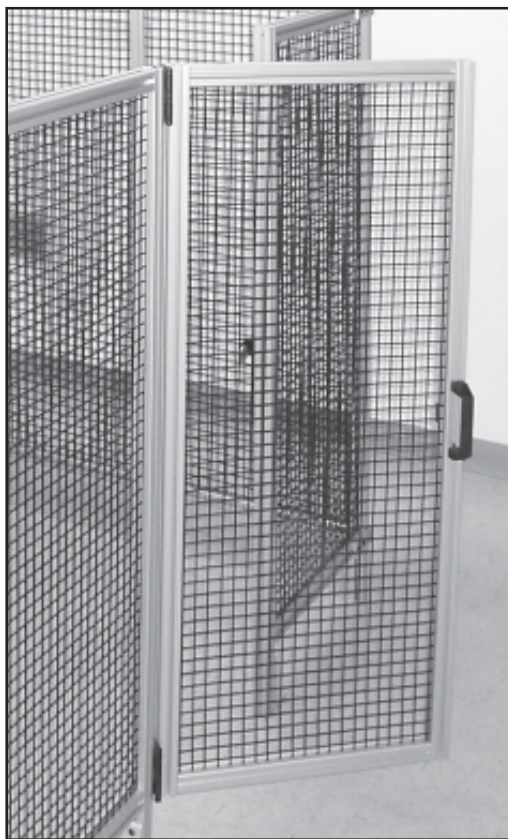
Standard Enclosure Panels

- **FastFrame** standard enclosure panels can be purchased pre-assembled or in kit form.
- Frame construction:
 - Panels**
 - Extrusion frame is EX-6 (page 33) .
 - Corner connectors are EF-29A universal fasteners (page 105).
 - Floor mounting brackets are EB-15AL (page 164).
- Inside panel construction options:
 - 1" x 1" black PVC coated wire mesh is EB-38-1 (page 169).
 - 1" x 1" yellow PVC coated wire mesh is EB-38-1Y (page 169).
 - 1/4" thick Lexan is EB-160 (page 175).
 - Wire mesh brackets are EB-49B/EB49Y (page 172).
 - Lexan Gasket is EB-40A (page 185).
- Standard panel widths are 18", 24" & 36".
- Standard panel heights are 40", 60", 72" & 84".
- Panel to panel connecting brackets and hardware are included.
- Floor anchors are furnished and installed by customer.
- Custom sizes available

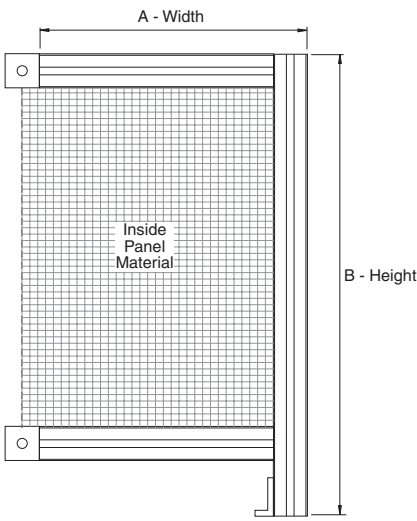


Standard Enclosure Doors

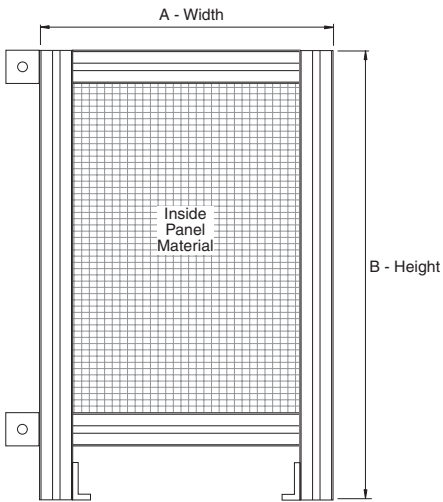
- **FastFrame** standard doors can be purchased pre-assembled or in kit form.
- Frame construction:
 - Doors**
 - Extrusion frame is EX-6 (page 33).
 - Corner connectors are EF-29A (page 105).
 - Hinges are EF-70 (page 203).
 - Handle is EF-15B (page 210).
- Inside panel construction options:
 - 1" x 1" black PVC coated wire mesh is EB-38-1 (page 169).
 - 1" x 1" yellow PVC coated wire mesh is EB-38-1Y (page 169).
 - 1/4" thick Lexan is EB-160 (page 175).
 - Wire mesh brackets are EB-49B/EB49Y (page 172).
 - Lexan Gasket is EB-40A (page 185).
- Standard door widths are 24" opening & 36" opening.
- Standard door heights are 34", 54", 66", & 78".
- Custom sizes available



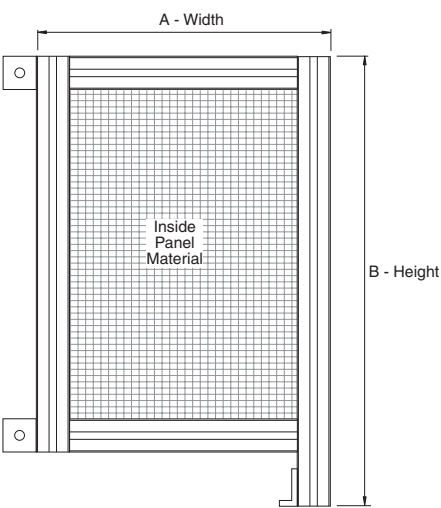
Standard Enclosure Panels



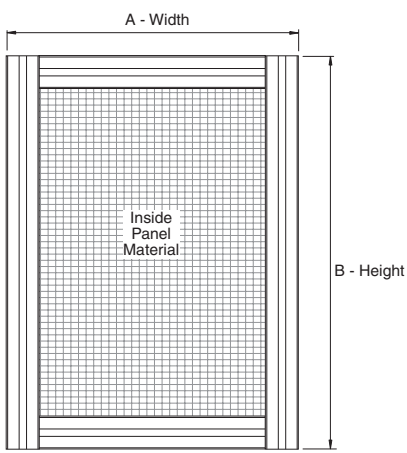
**Standard (1) Leg Panel
Model P1**



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



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



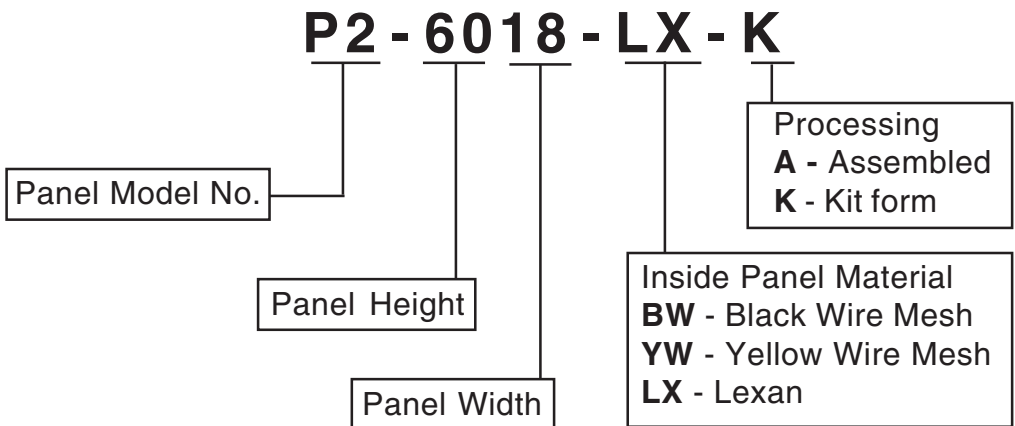
**Standard Basic Panel
Model P4**

Note: Mounting Hardware Not Included

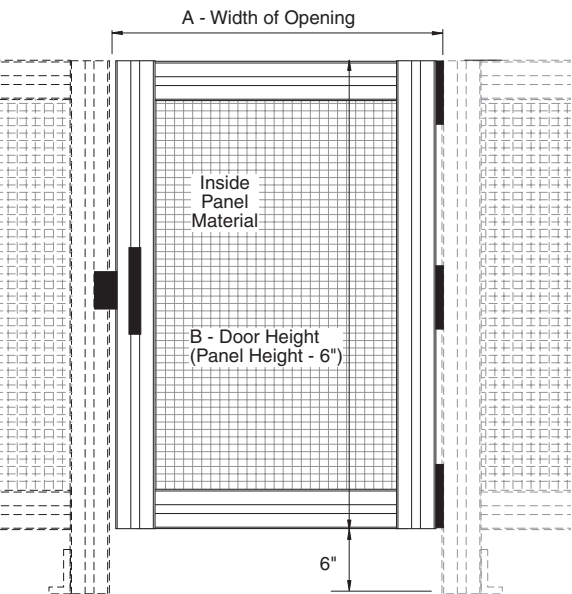
Standard Enclosure Panels

- Standard panel heights are 40", 60", 72" & 84".
- Standard panel widths are 18", 24" & 36".
- Custom sizes available - consult the factory

Panel Ordering Example



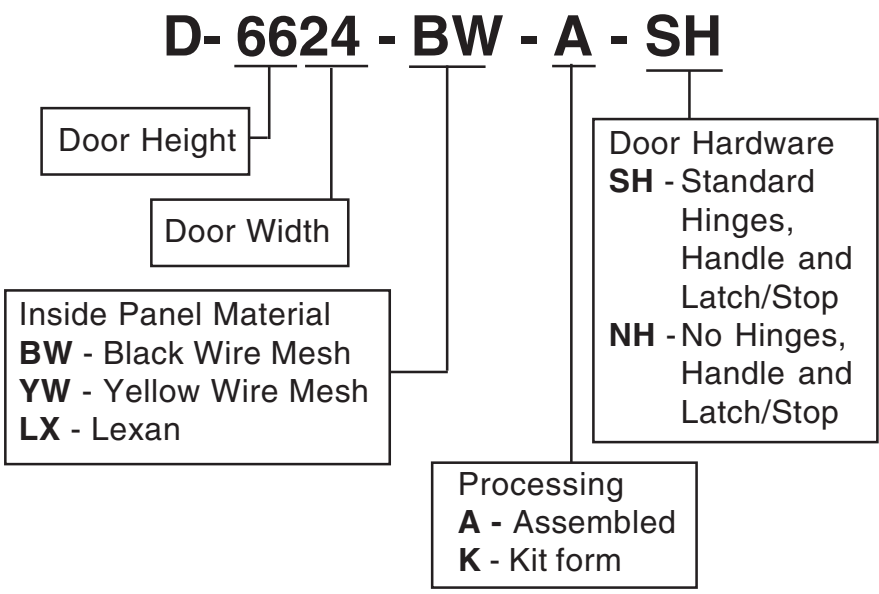
Standard Enclosure Doors



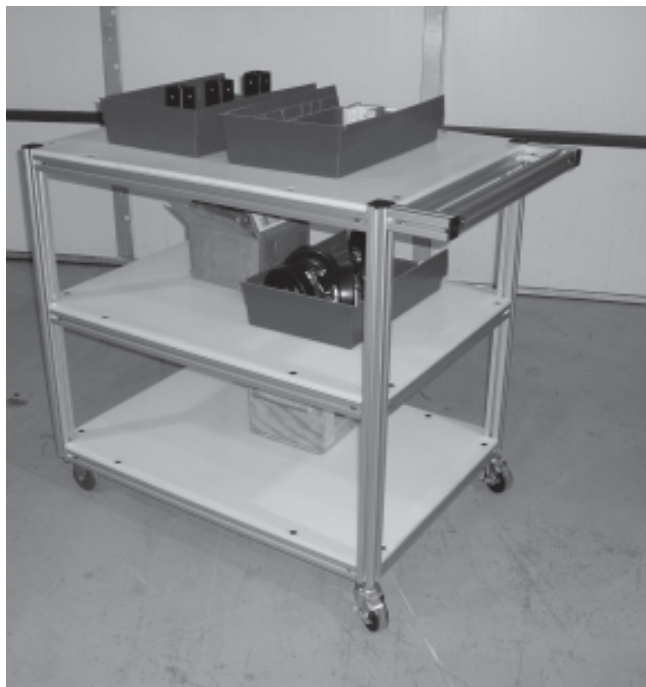
- Standard door heights are 34", 54", 66", & 78".
- Standard door widths are 24" opening & 36" opening.
- Custom sizes are available - consult the factory

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

Door Ordering Example

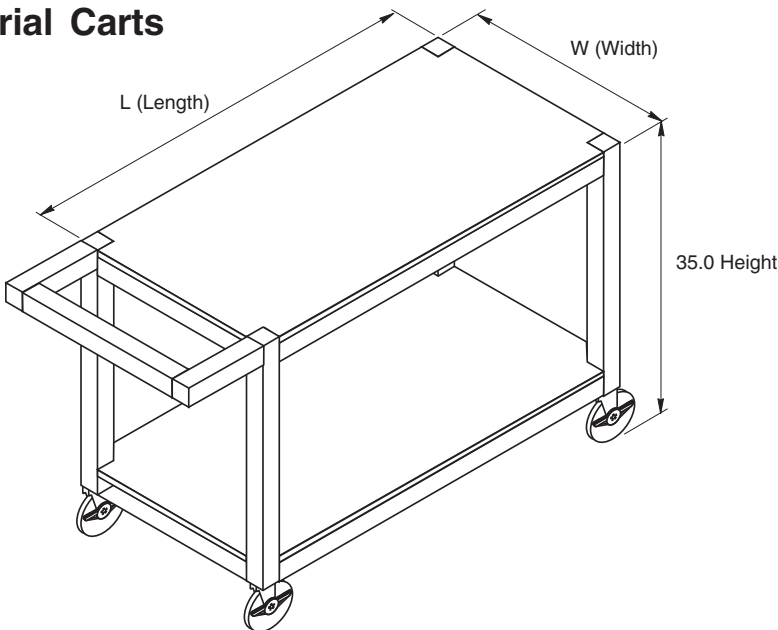


Standard Material Carts



- 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



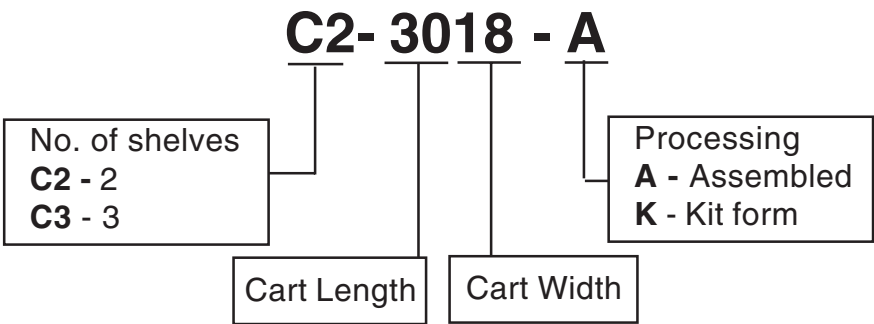
Model C2 Shelf Cart - (2) shelves

| 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

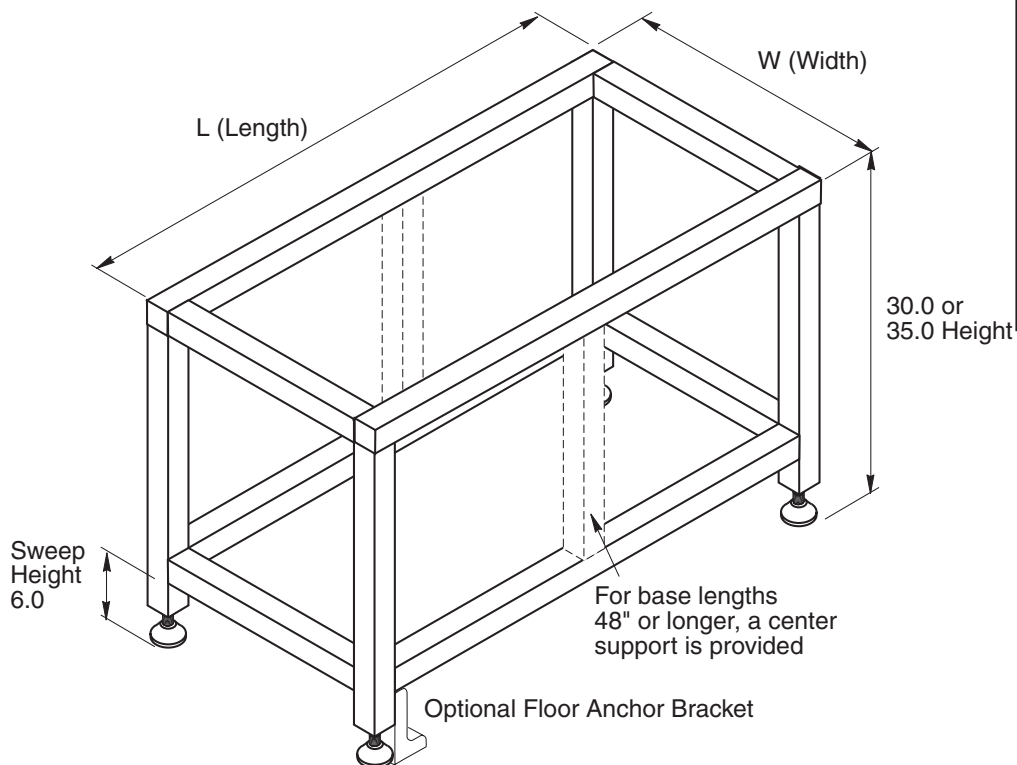
| Length (L) | 18" | 22" | 26" | 30" |
|---------------|---------|---------|---------|---------|
| 30 | C3-3018 | C3-3022 | C3-3026 | C3-3030 |
| 36 | C3-3618 | C3-3622 | C3-3626 | C3-3630 |

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"
- Custom sizes available
- Light Duty is EX-1
- Standard Duty is EX-2
- Heavy Duty is EX-3

Model L Light Duty

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

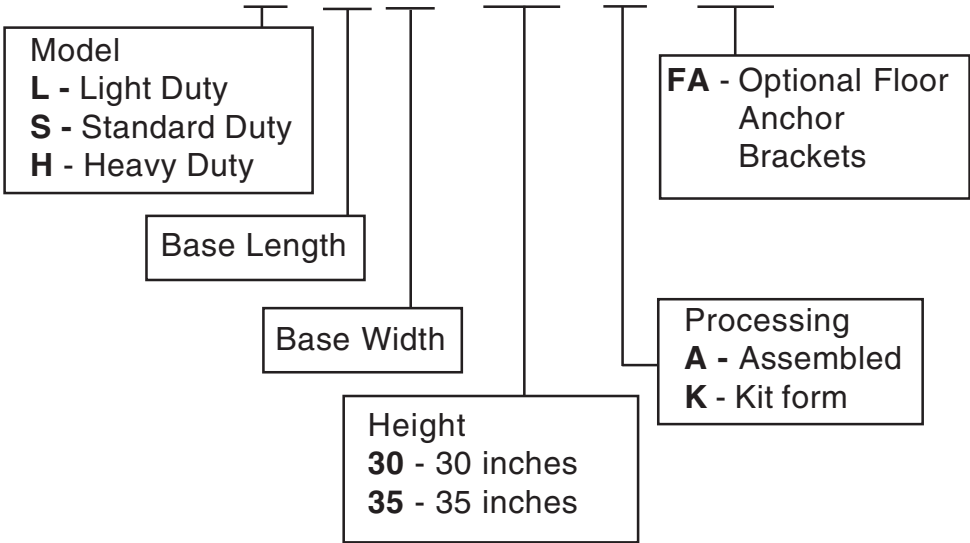
Model H Heavy Duty

| 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 |

Custom sizes are available - consult the factory

Standard Base Ordering Example

S- 4824 - 30 - A - FA

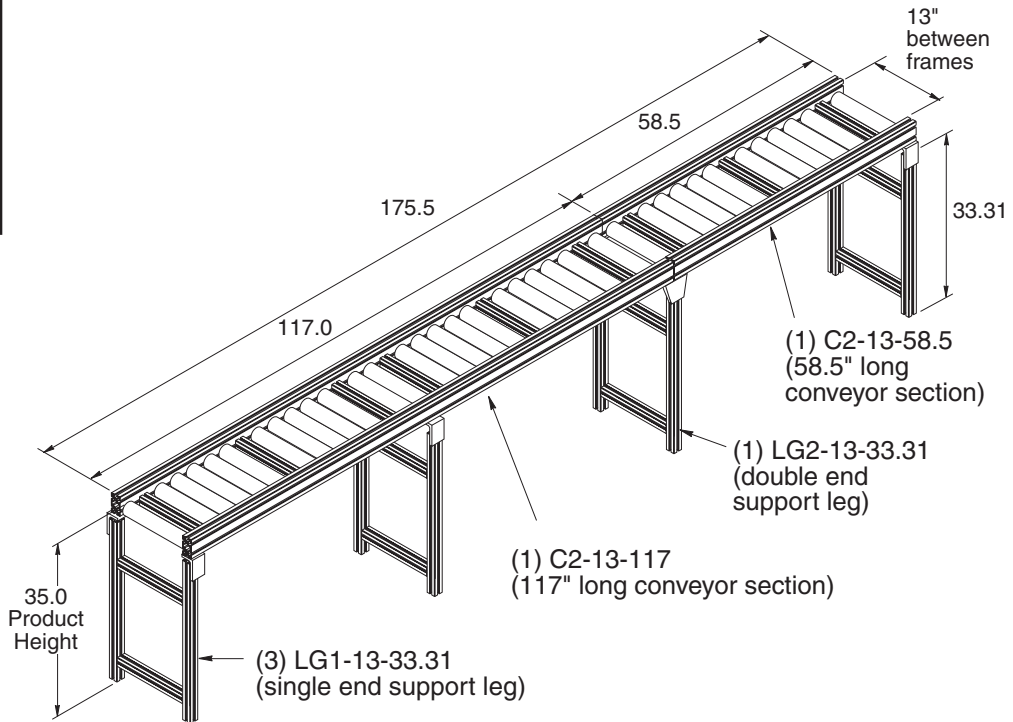


Standard Conveyors

- 1 1/2" x 1 1/2" and 1 1/2" x 3" frame profiles
- 1.9" dia., Steel or PVC. Rollers on 4.50" centers.
- Standard Conveyor Lengths of 58.5" and 117.0"
- Maximum total load per 58.5" conveyor section length is 600 lbs. for steel rollers and 350 lbs for plastic (PVC) rollers (with leg support at each end)
- Minimum conveyor leg height is 18.0"
Maximum conveyor leg height is 42.0"
- Conveyor sections sold separately from leg kits
- Leg kits sold as single end support or double end support
- Between frame widths of 13", 19" and 25" with corresponding outside widths of 16", 22" and 28"
- Roller surface either above frame (style CV1) or with side guides (Style CV2)
- Legs have 1.50" height adjustment
- Floor Anchor Brackets Included



Standard Conveyors Example



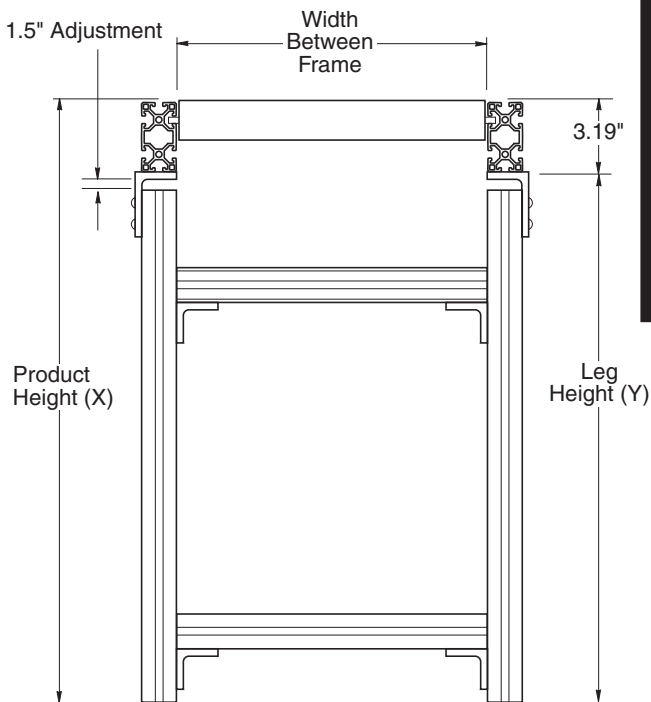
Bill of Material

| | |
|-------------------|------------------------|
| (1) CV2-13-58.5-S | 58.5" Conveyor Section |
| (1) CV2-13-117-S | 117" Conveyor Section |
| (3) LG1-13-33.31 | Single End Support Leg |
| (1) LG2-13-33.31 | Double End Support Leg |

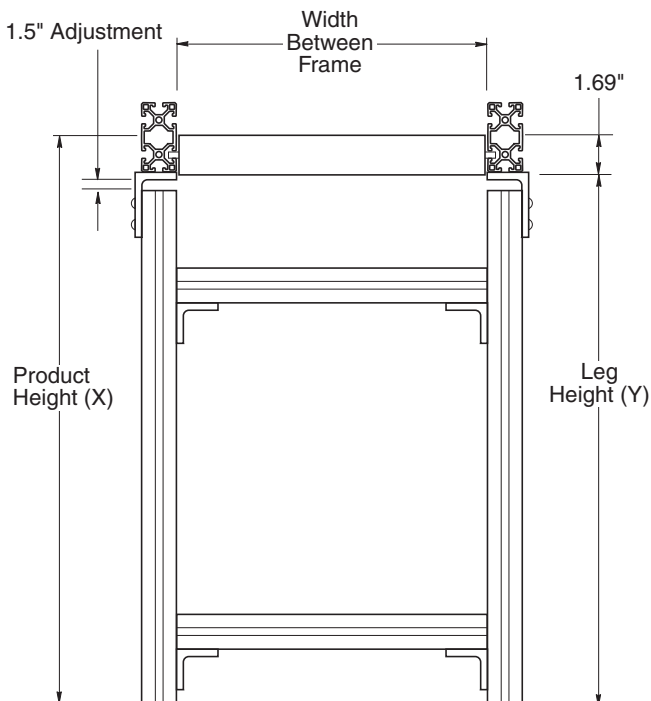
**6 items
instead of
over 500!**

Standard Conveyors

Style CV1 (roller above frame)



Style CV2 (roller below frame)



Conveyor Section Ordering Example

CV2 - 13 - 117 - S

Conveyor Style
CV1 - Roller Above Frame
CV2 - Roller Below Frame

Inches Between Frame
13 - 13 inches
19 - 19 inches
25 - 25 inches

Roller Material
S - Steel
P - Plastic (PVC)

Conveyor Standard Length
58.5 - 58.5 inches
117 - 117 inches

Conveyor Support Leg Ordering Example

LG2 - 13 - 33.31

Leg Style
LG1 - Single End Support
LG2 - Double End Support

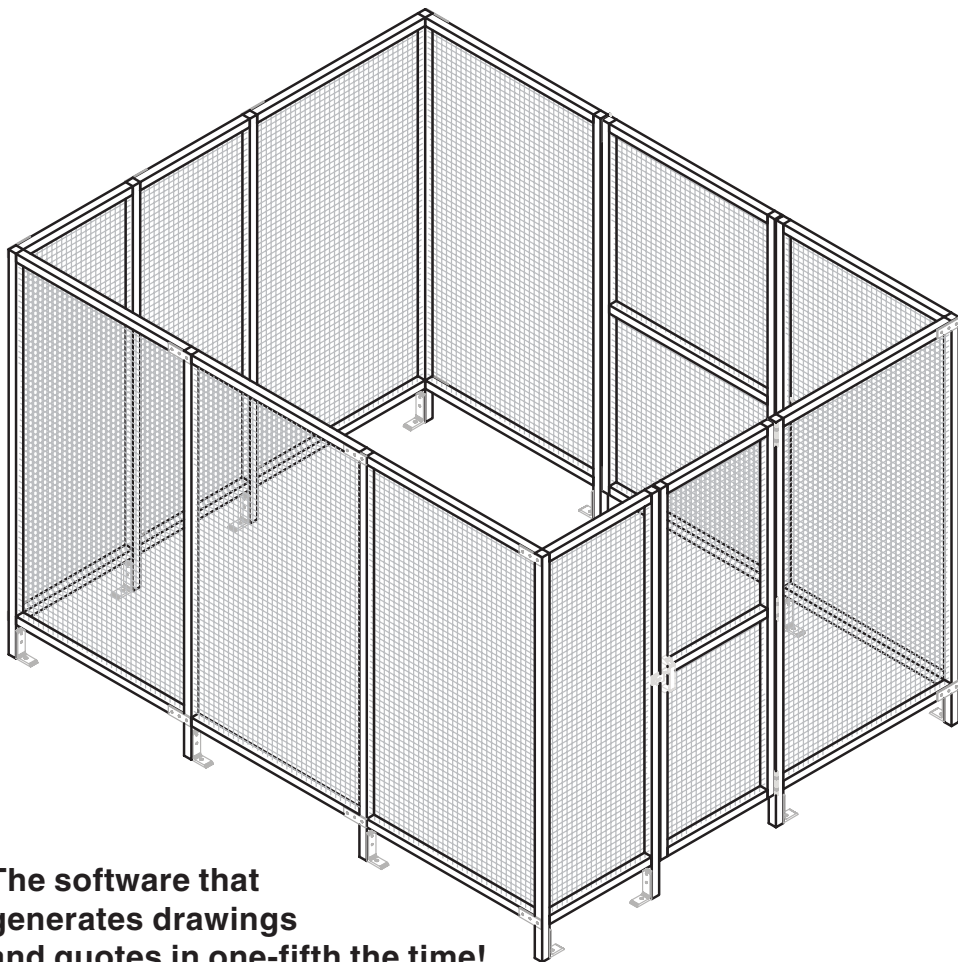
Inches Between Frame
13 - 13 inches
19 - 19 inches
25 - 25 inches

Leg Height

New **FrameQuoter**

Aluminum Extrusion Design Software

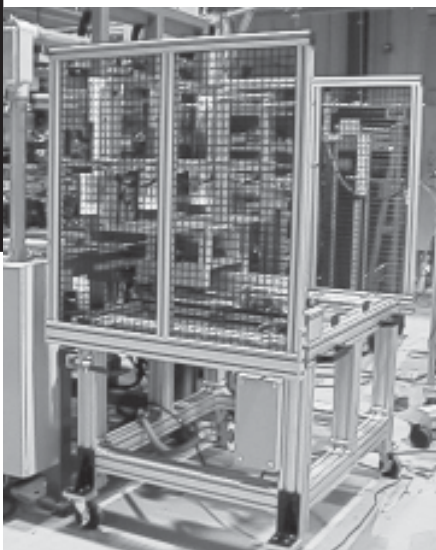
FrameQuoter



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

Our new **FrameQuoter** software has finally arrived, and it certainly was worth the wait. **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.

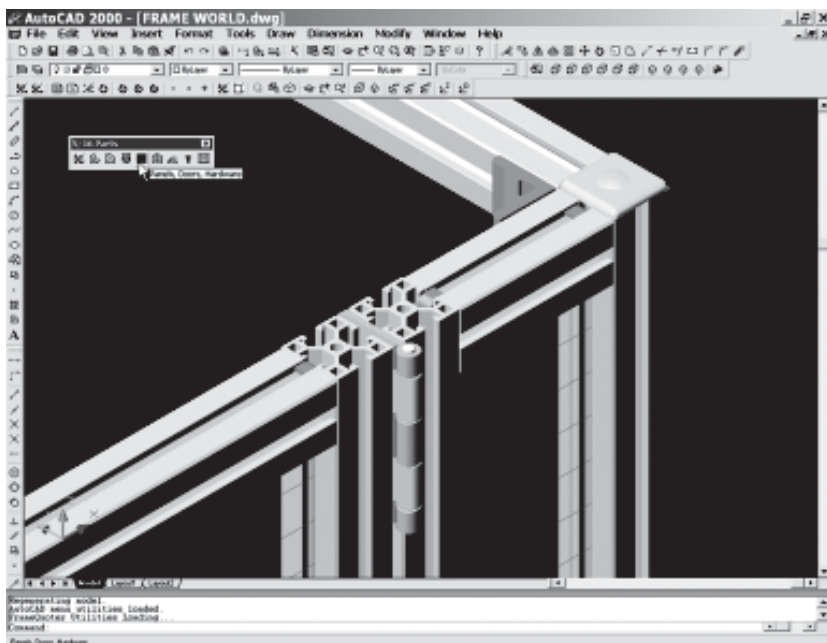
Designing a machine guard, frame or enclosure can be a very time-consuming and frustrating experience. Any errors, omissions or miscalculations can result in a structure which is cumbersome to use, doesn't fit the application, or is totally useless. Our new **FrameQuoter** design software eliminates 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 new **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 2000, 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.



Actual Screen Shot:

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!

Metric Sizes for *Frame World* T-slot Extrusions and Accessories

| Part No. | Extrusion Size | | Fastener Size | |
|----------|----------------|----------------|---------------|--------|
| | Inches | Nearest Metric | Inches | Metric |
| EX-1 | 1.5" x 1.5" | 38 x 38 mm | 5/16-18 | m8 |
| EX-2 | 1.5" x 3" | 38 x 76 mm | 5/16-18 | m8 |
| EX-3 | 3" x 3" | 76 x 76 mm | 5/16-18 | m8 |
| EX-4 | 1" x 1" | 25 x 25 mm | 5/16-18 | m8 |
| EX-5 | 1" x 1.5" | 25 x 38 mm | 5/16-18 | m8 |
| EX-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-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-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-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-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-11 | 1" x 1" | 25 x 25 mm | 1/4-20 | m6 |
| EX-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 | 2" x 2" | 50 x 50 mm | 1/4-20 | m6 |
| 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-1
1.5" x 1.5"



EX-6
1.5" x 1.5"



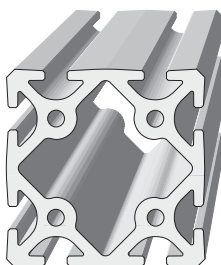
EX-2
1.5" x 3.0"



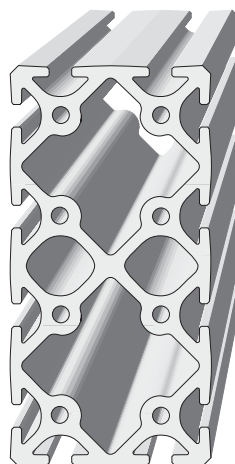
EX-67
1.5" x 3.0"



EX-26
1.5" x 4.5"



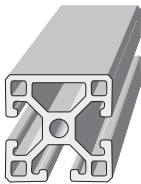
EX-3
3.0" x 3.0"



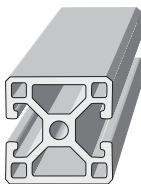
EX-36
3.0" x 6.0"

5/16" SLOTS

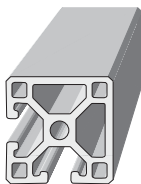
SMOOTH-Series



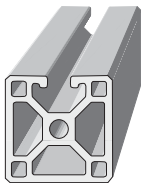
EX-63
1.5" x 1.5"



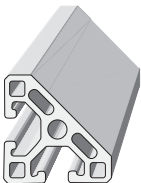
EX-64
1.5" x 1.5"



EX-65
1.5" x 1.5"



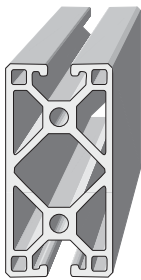
EX-61
1.5" x 1.5"



EX-7
1.5" x 1.5"



EX-8
1.5" x 1.5"



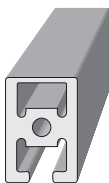
EX-68
1.5" x 3.0"



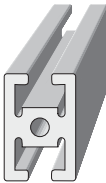
EX-4
1.0" x 1.0"



EX-5
1.0" x 1.5"



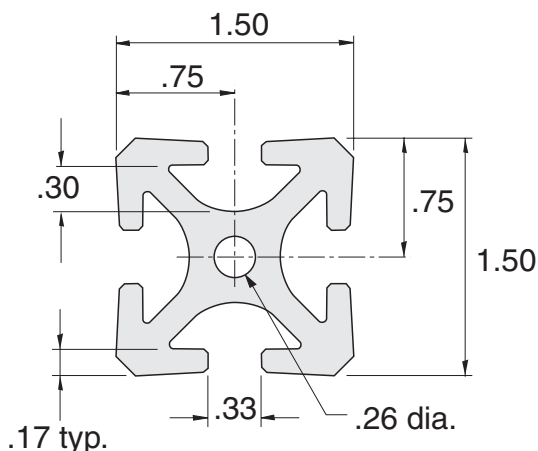
EX-52
1.0" x 1.5"



EX-54
1.0" x 1.5"

5/16" SLOTS

EX-1



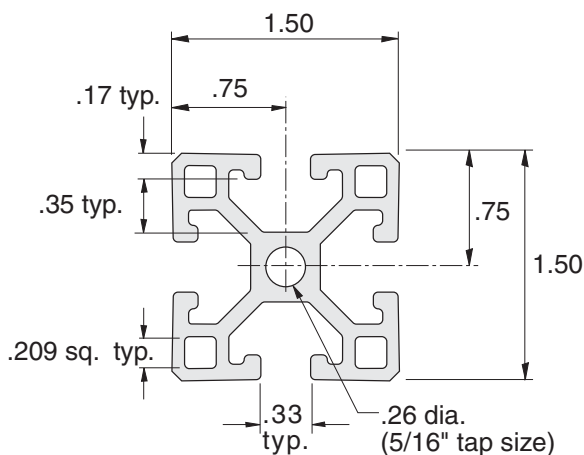
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.164 Sq. In.
- Weight/ft = 1.4522 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

| | |
|------------------------------------|------|
| Moment of Intertia in ⁴ | .242 |
| Section modulus in ³ | .323 |

5/16" SLOTS

EX-6

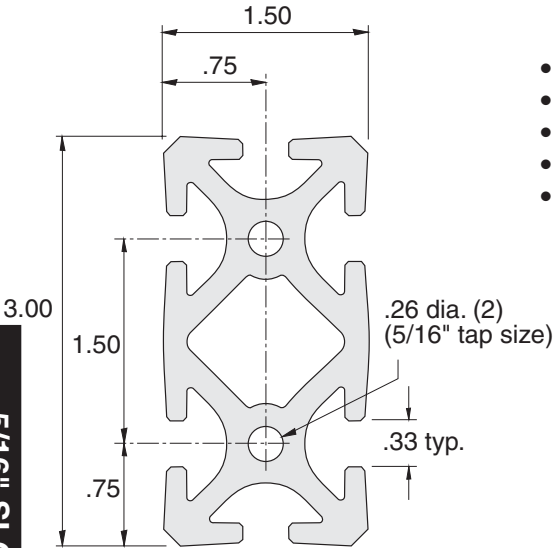


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .878 Sq. In.
- Weight/ft = 1.029 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

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

EX-2



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 2.051 Sq. In.
- Weight/ft = 2.471 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

Moment of Intertia in⁴

Section modulus in³



1.76

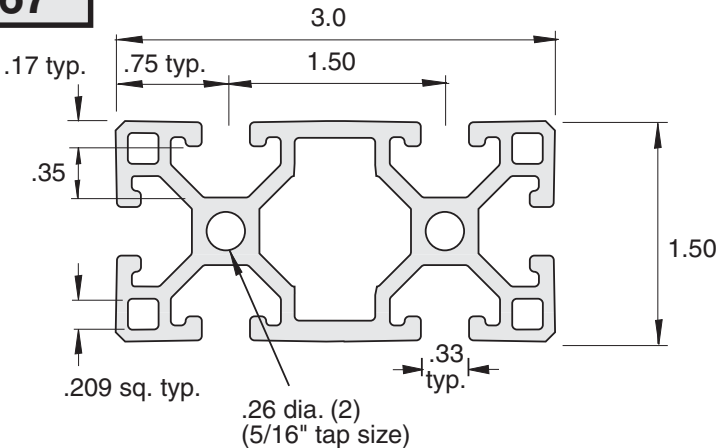
1.173



.481

.641

EX-67



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.569 Sq. In.
- Weight/ft = 1.845 lbs
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

Moment of Intertia in⁴

Section modulus in³



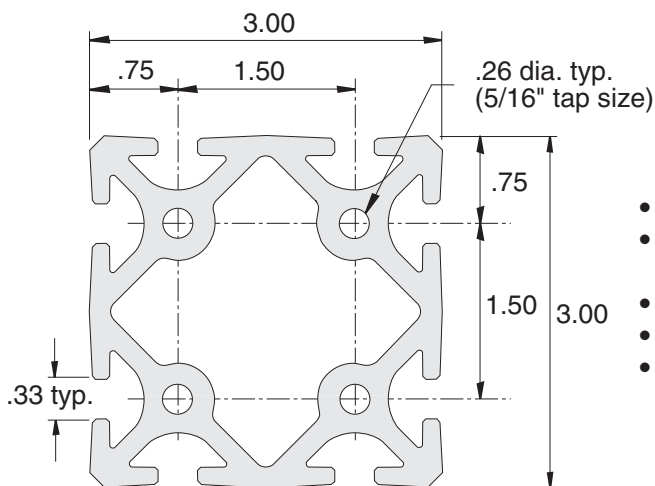
1.376

0.917



0.387

0.516



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 3.188 Sq. In.
- Weight/ft = 4.037 lbs.
- 96", 144.75", 193.5" Lengths standard.

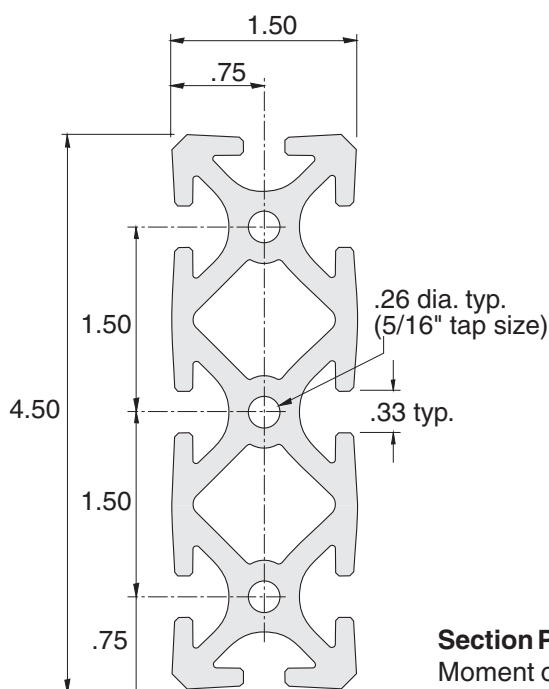
Section Properties:

| | |
|------------------------------------|-------|
| Moment of Intertia in ⁴ | 3.26 |
| Section modulus in ³ | 2.173 |



5/16" SLOTS

EX-26



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 3.02 Sq. In.
- Weight/ft = 3.552 lbs.
- 96", 144.75", 193.5" Lengths standard.

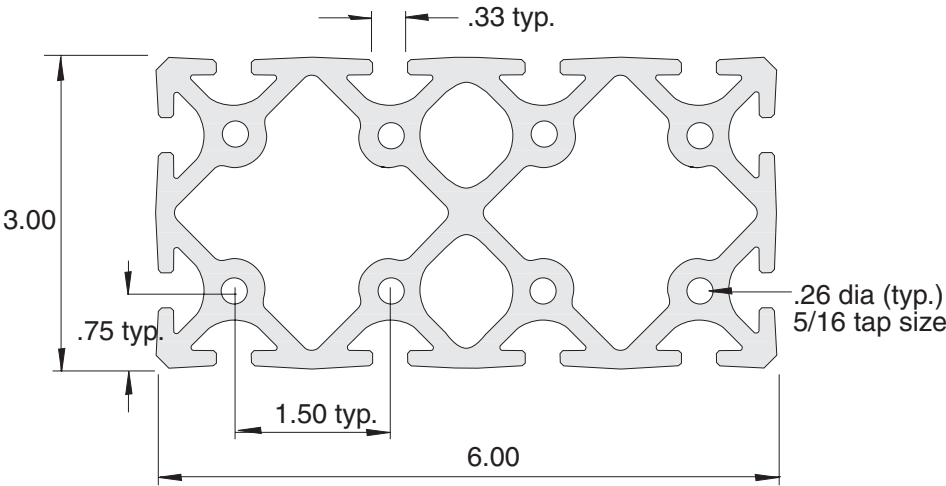
Section Properties:

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



EX-36

5/16" SLOTS



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 5.924 Sq. In.
- Weight/ft = 6.967 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

Moment of Intertia in⁴
Section modulus in³

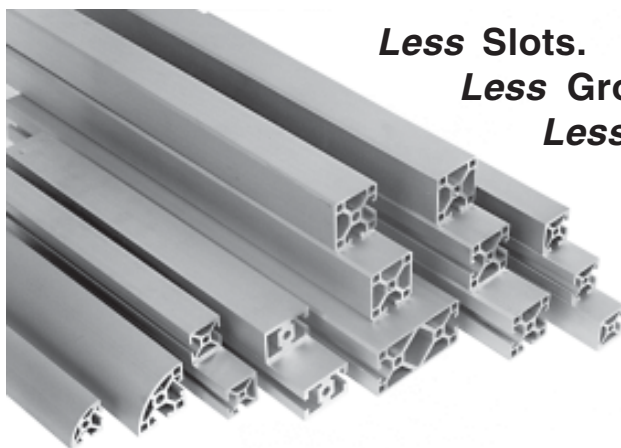


22.05
7.35



6.41
4.28

SMOOTH-Series Aluminum Profiles Give You *Less*:



Less Slots.

Less Grooves.

Less Dirt.

Less Germs.

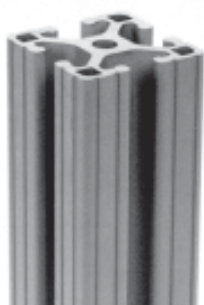
Less Maintenance.

***And Less
Headaches.***

For Less Money.

5/16" SLOTS

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 new **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

5/16" SLOTS

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

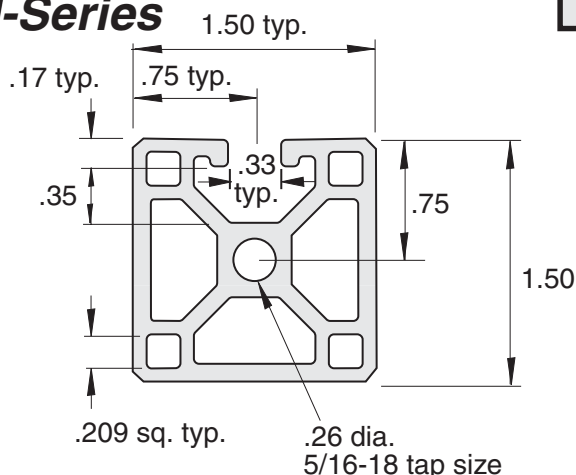
The same *SMOOTH-Series* profiles can also withstand harsh industrial environments where dirt, oil, grease and chemicals are a daily fact of life.

In stock and available for immediate delivery.

This is the only full range of truly smooth profiles in U.S. fractional sizes on the market. 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.).

SMOOTH-Series

EX-61



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .866 Sq. In.
- Weight/ft = 1.018 lbs
- 96", 144.75", 193.5" Lengths standard.

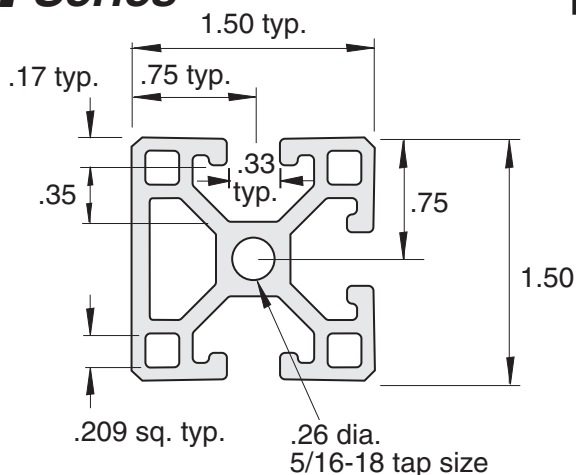
Section Properties:

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



SMOOTH-Series

EX-63



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .833 Sq. In.
- Weight/ft = .980 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

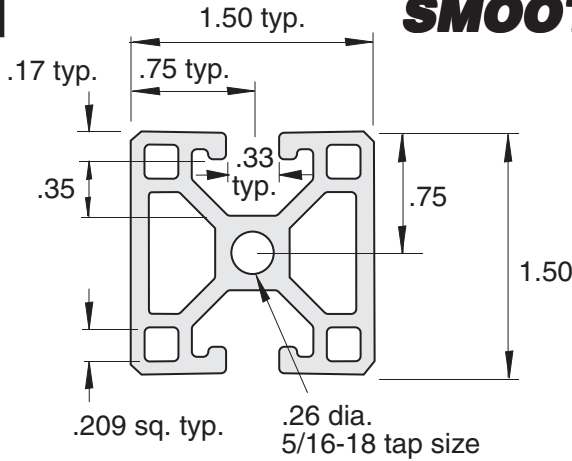
| | | |
|------------------------------------|-------|-------|
| Moment of Intertia in ⁴ | 0.195 | 0.203 |
| Section modulus in ³ | 0.260 | 0.267 |



5/16" SLOTS

EX-64

SMOOTH-Series



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .849 Sq. In.
- Weight/ft = .998 lbs
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

Moment of Intertia in⁴

Section modulus in³



0.190

0.253

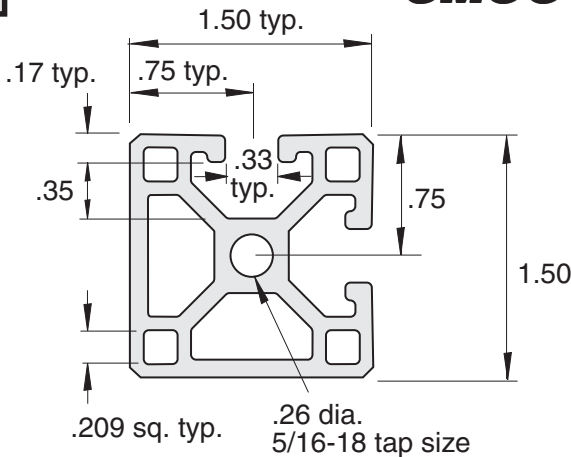


0.210

0.280

EX-65

SMOOTH-Series



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .849 Sq. In.
- Weight/ft = .998 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

Moment of Intertia in⁴

Section modulus in³

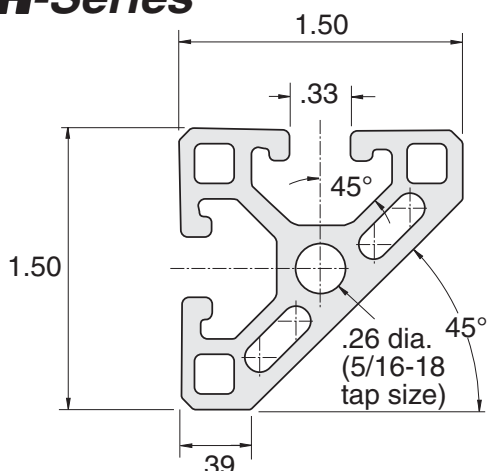


0.200

0.267

SMOOTH-Series

EX-7



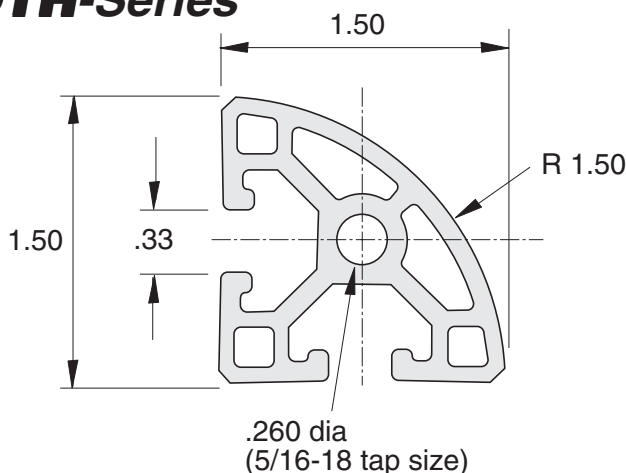
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .729 Sq. In.
- Weight/ft = .854 lbs.
- 96", 193.5" Lengths standard.

Section Properties:

| | |
|------------------------------------|------|
| Moment of Intertia in ⁴ | .137 |
| Section modulus in ³ | .195 |

SMOOTH-Series

EX-8



- Finish = Clear anodized
- Material = 6105-T6 Aluminum
- Est. Area = .803 Sq. In.
- Weight/ft = .945 lbs.
- 96", 193.5" Lengths standard.

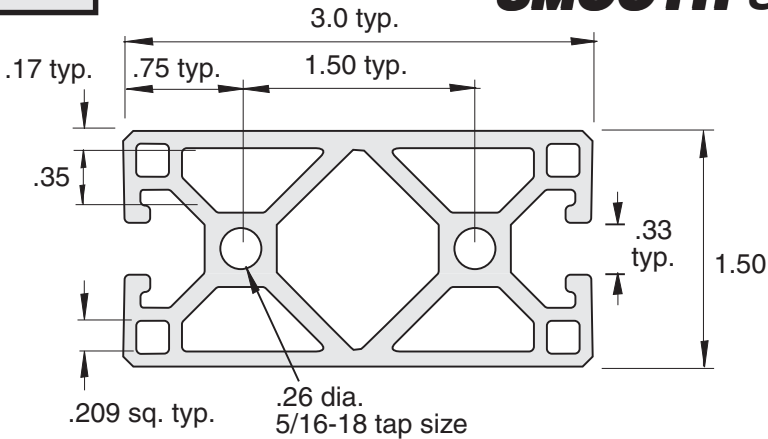
Section Properties:

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

5/16" SLOTS

EX-68

SMOOTH-Series



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.599 Sq. In.

- Weight/ft = 1.880 lbs.
- 96", 144.75", 193.5" Lengths standard.



Section Properties:

Moment of Intertia in⁴
Section modulus in³

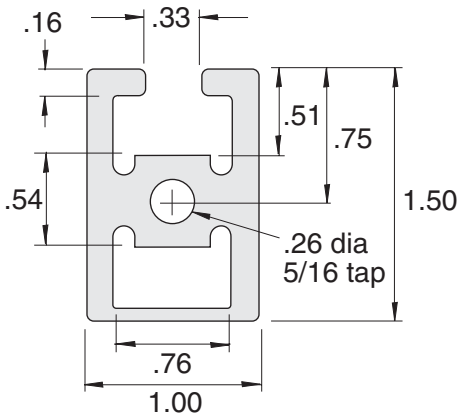
1.385
0.923

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", 144.75", 193.5" Lengths standard.



Section Properties:

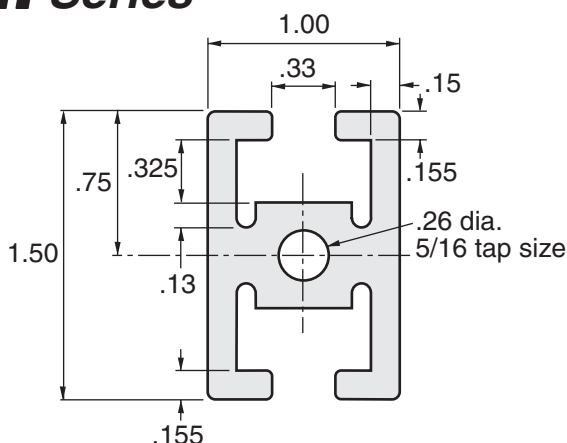
Moment of Intertia in⁴
Section modulus in³

0.417
0.549

0.099
0.198

SMOOTH-Series

EX-54



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .840 Sq. In.
- Weight/ft = 1.008 lbs.
- 96", 144.75", 193.5" Lengths standard.



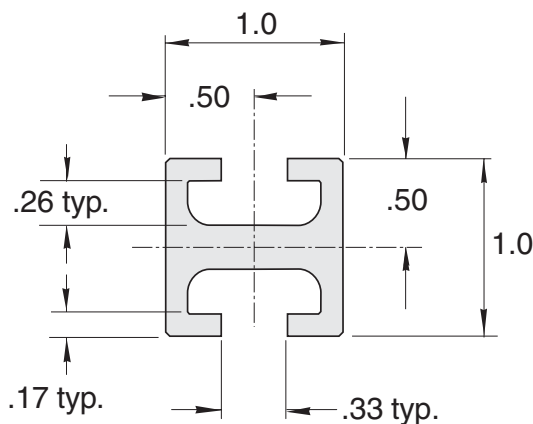
Section Properties:

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

5/16" SLOTS

SMOOTH-Series

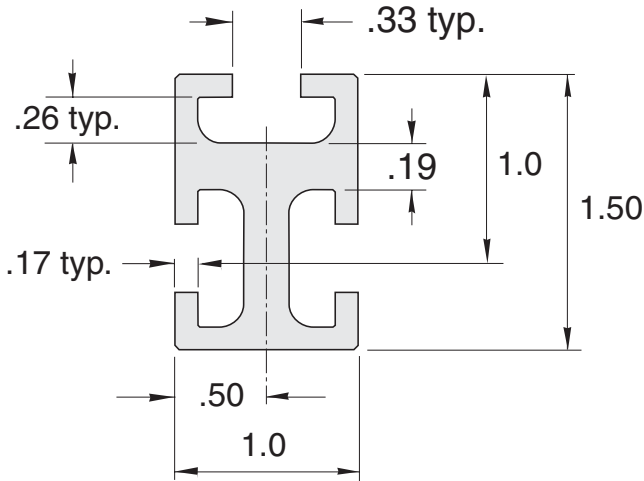
EX-4



- Finish = Clear anodized
- Material = 6061-T6 Aluminum
- Est. Area = .496 Sq. In.
- Weight/ft = .596 lbs.
- 96" Lengths standard.

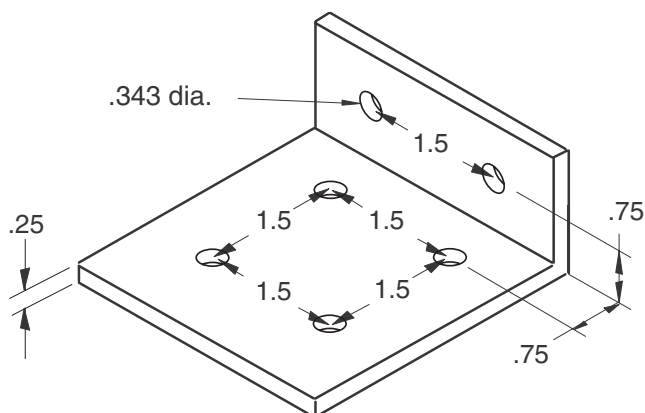
EX-5

SMOOTH-Series



- Finish = Clear anodized
- Material = 6061-T6 Aluminum
- Est. Area = .746 Sq. In.
- Weight/ft = .895 lbs
- 96" Lengths standard.

5/16" SLOTS



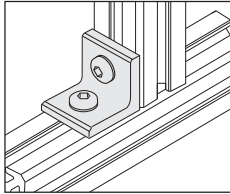
Mounting and connecting brackets have clearance holes for 5/16" (8 mm) dia. connecting screws which are all on .75" and 1.5" centers, available in extruded, cast and steel material..

Frame World designed fastener brackets, extrusions, hardware and accessories provide an unlimited system for structural design and assembly.

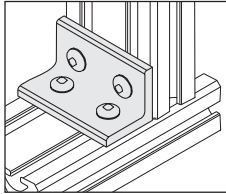
**Recommended torque for 5/16-18 or m8 fasteners
is 15 to 20 ft lbs**

Section C.1

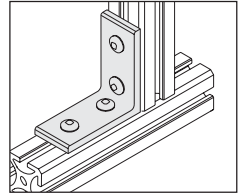
Corner Angle Brackets



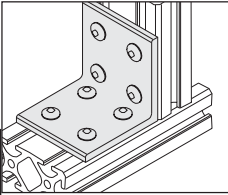
page 58



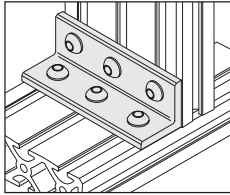
page 59



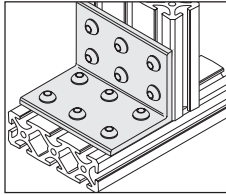
page 60



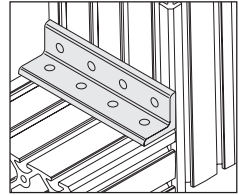
page 61



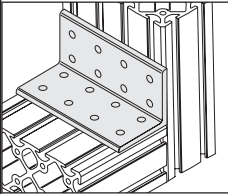
page 62



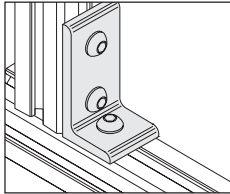
page 63



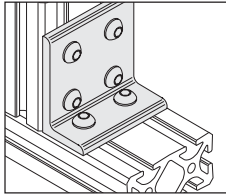
page 64



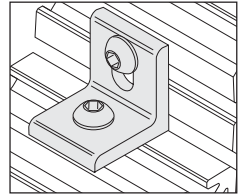
page 65



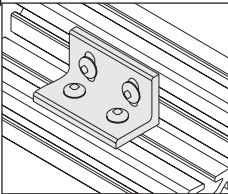
page 66



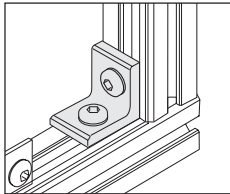
page 67



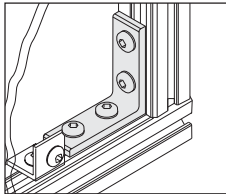
page 68



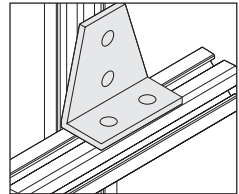
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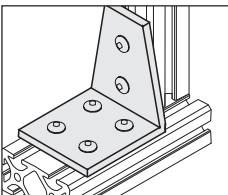
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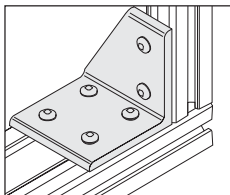
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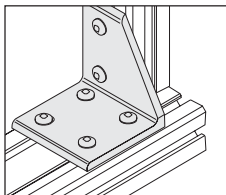
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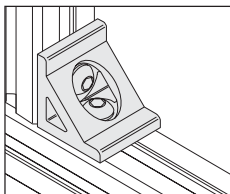
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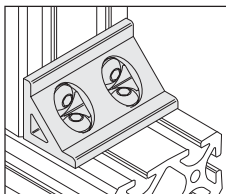
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Section C.2

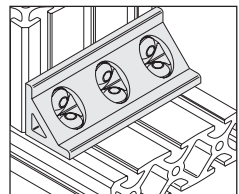
Gusseted Corner Angle Brackets



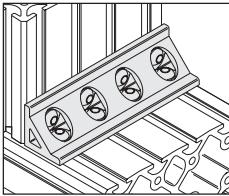
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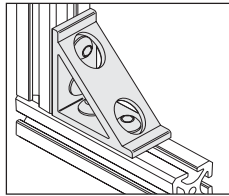
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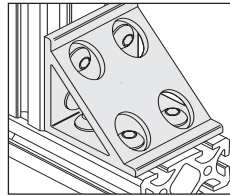
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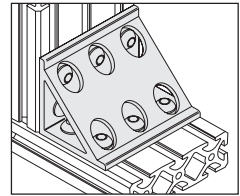
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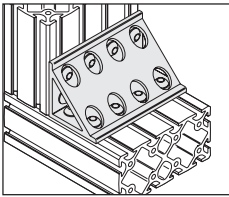
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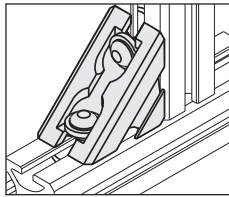
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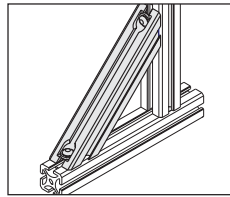
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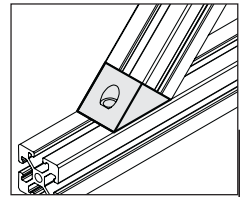
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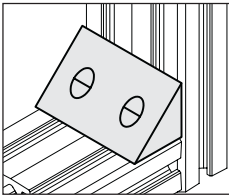
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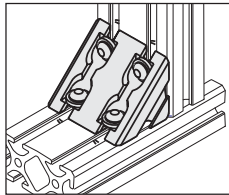
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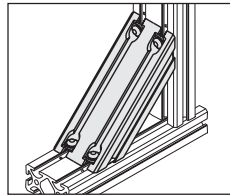
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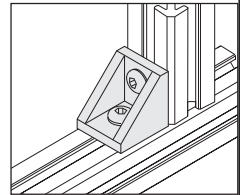
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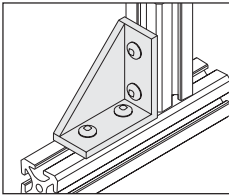
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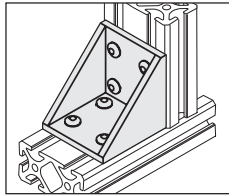
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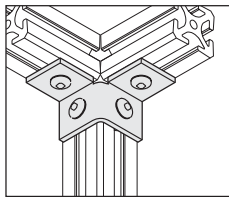
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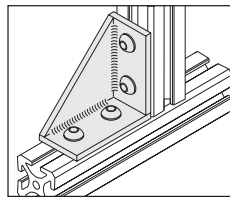
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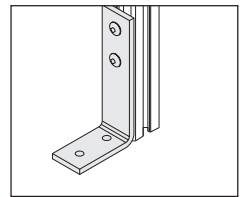
Steel Corner Angle Brackets



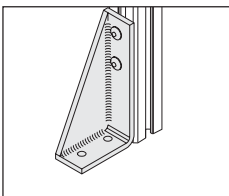
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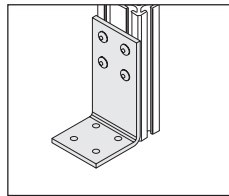
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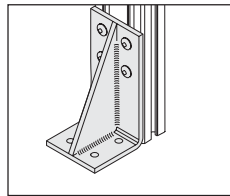
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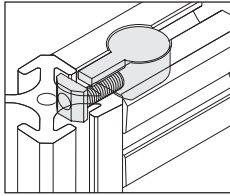
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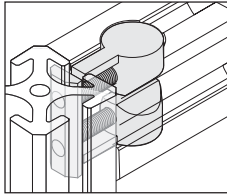
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Section C.4

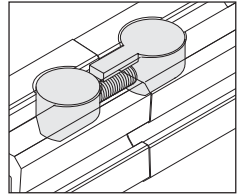
Internal & Adjustable Corner Brackets



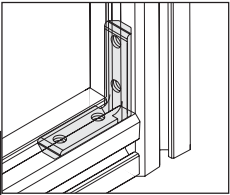
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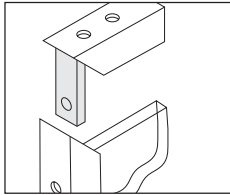
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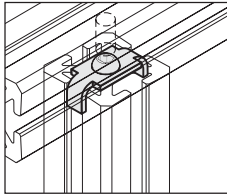
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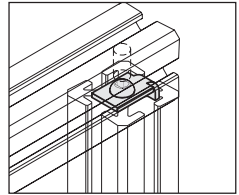
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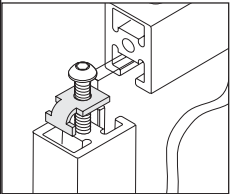
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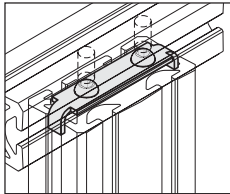
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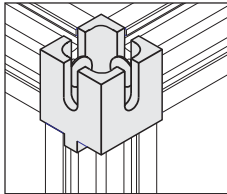
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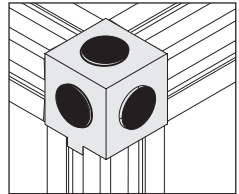
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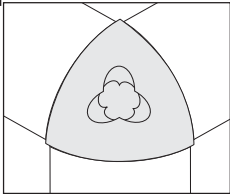
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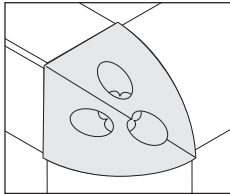
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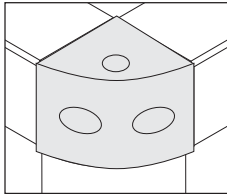
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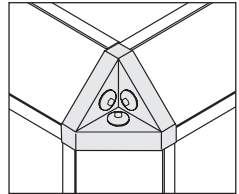
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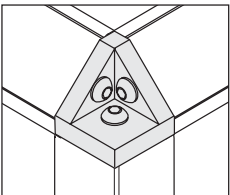
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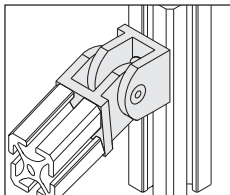
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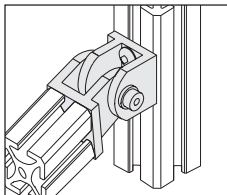
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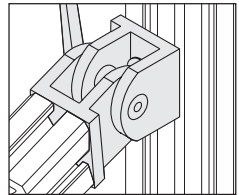
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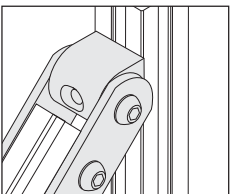
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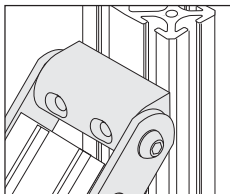
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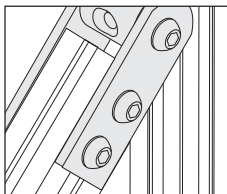
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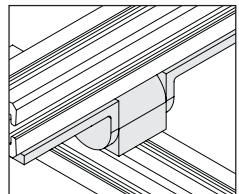
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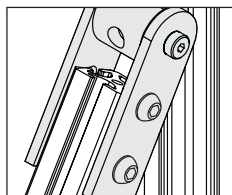
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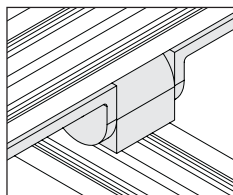
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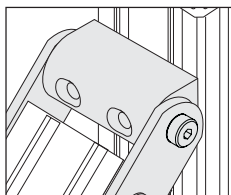
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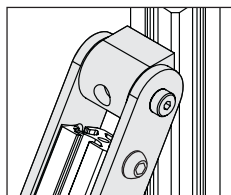
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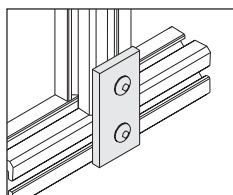
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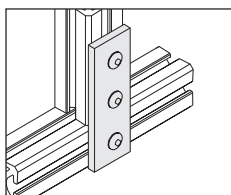
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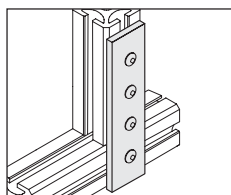
Joining Plates



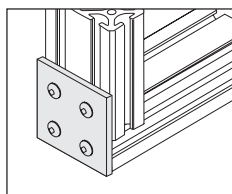
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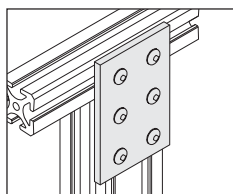
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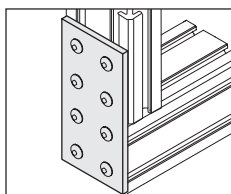
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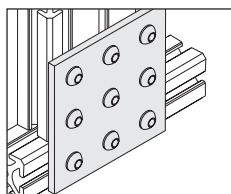
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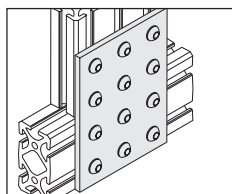
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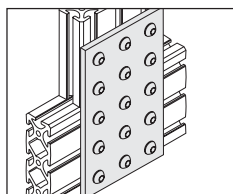
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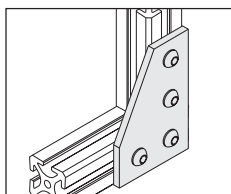
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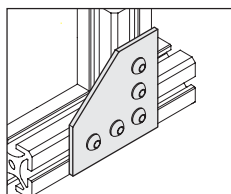
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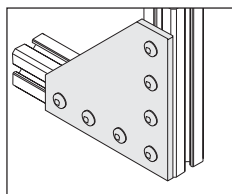
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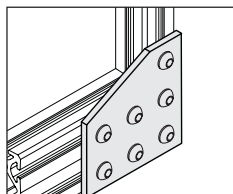
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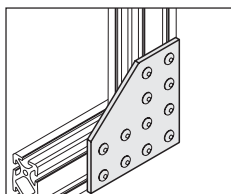
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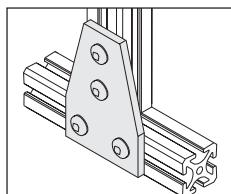
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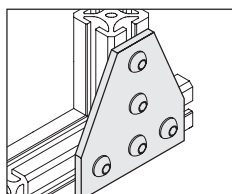
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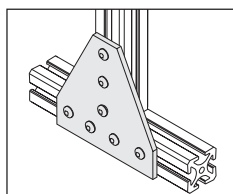
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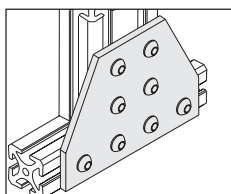
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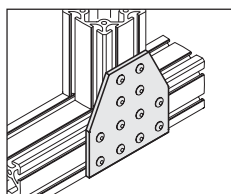
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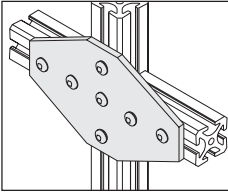


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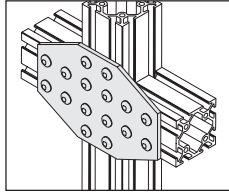
5/16" SLOTS

Section C.6

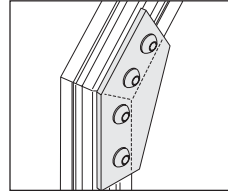
Floor Mounts, Casters and Adjustable Feet



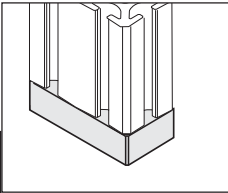
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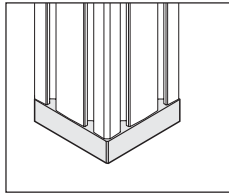
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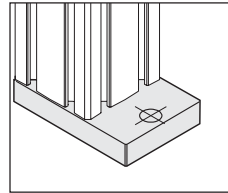
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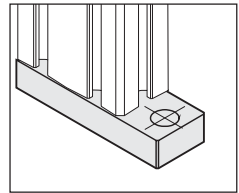
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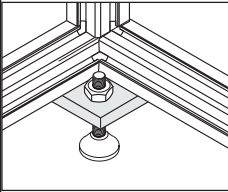
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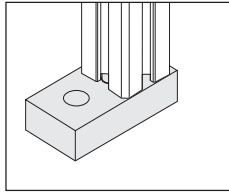
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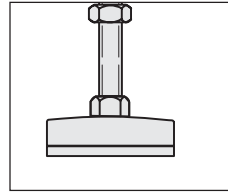
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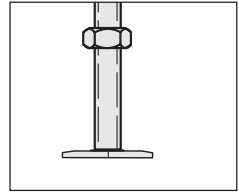
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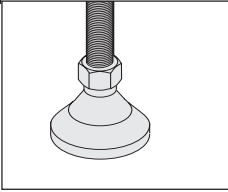
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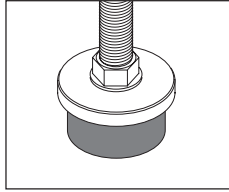
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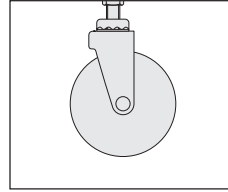
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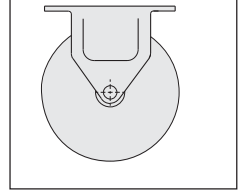
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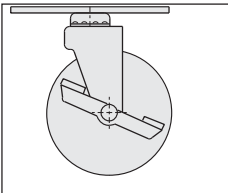
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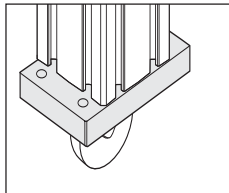
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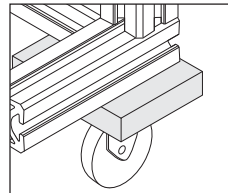
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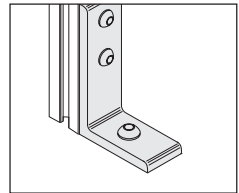
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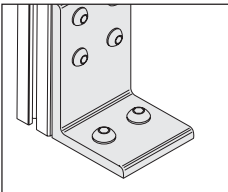
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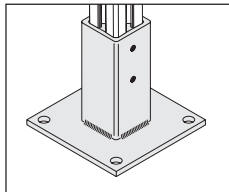
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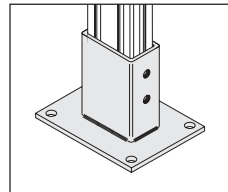
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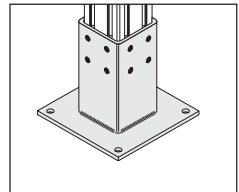
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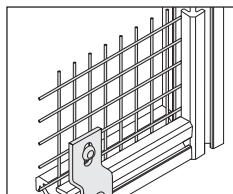
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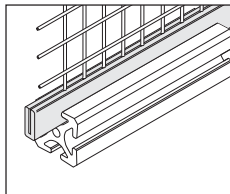
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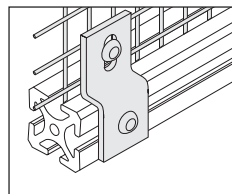
Panels, Doors and Hardware



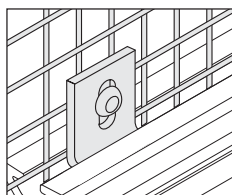
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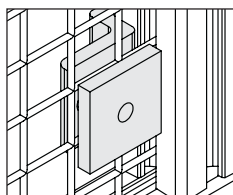
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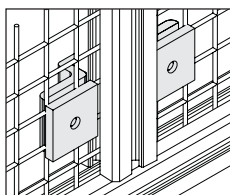
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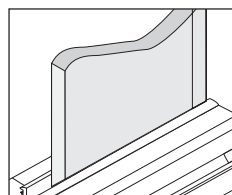
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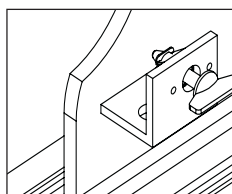
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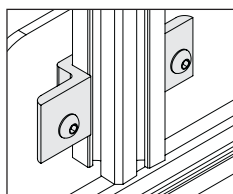
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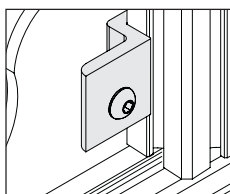
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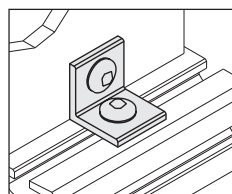
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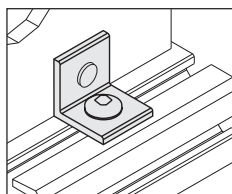
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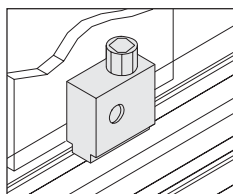
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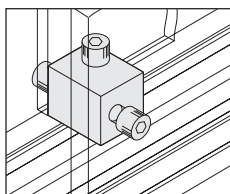
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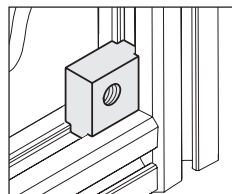
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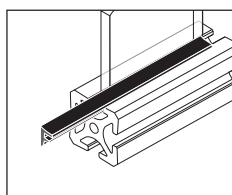
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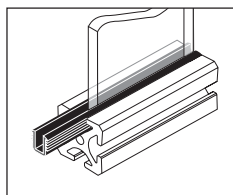
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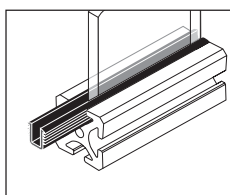
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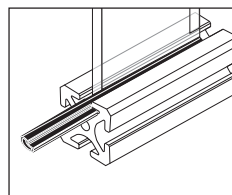
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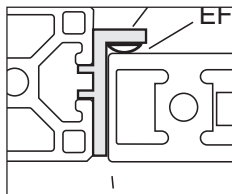
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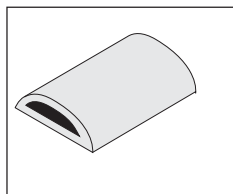
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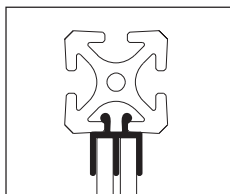
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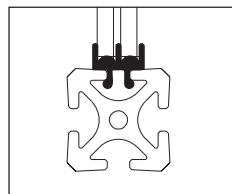
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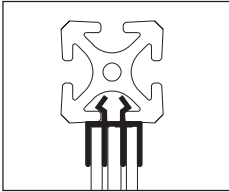


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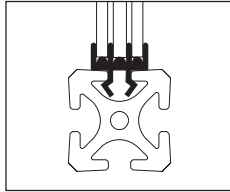


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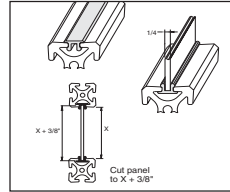
5/16" SLOTS



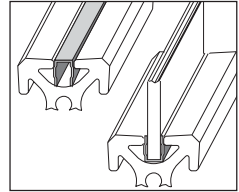
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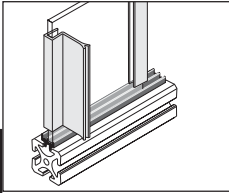
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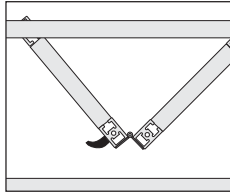
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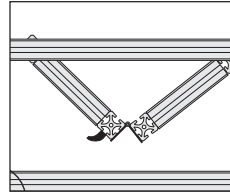
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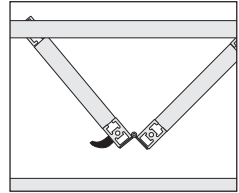
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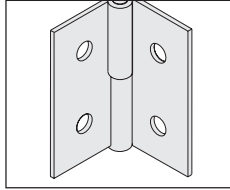
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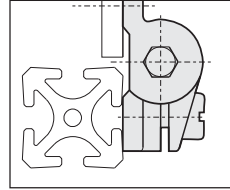
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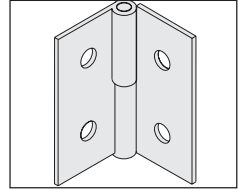
Hinges, Handles and Latches



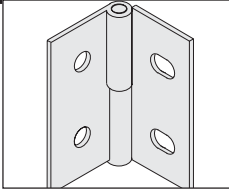
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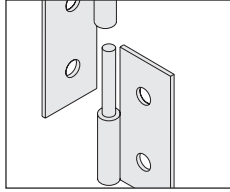
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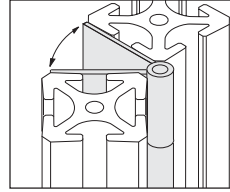
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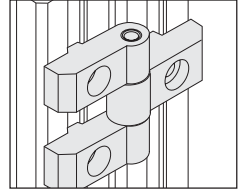
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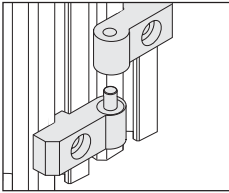
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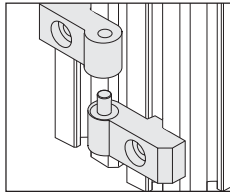
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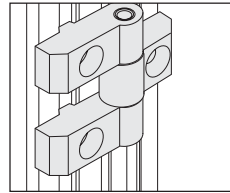
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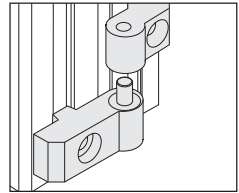
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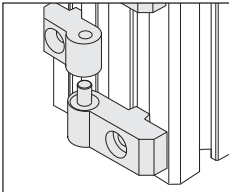
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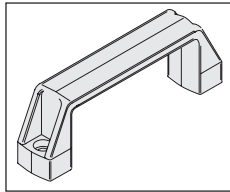
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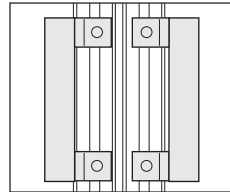
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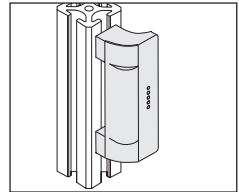
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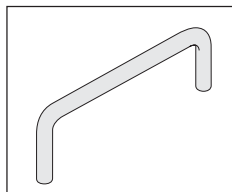
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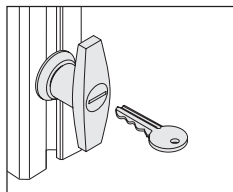
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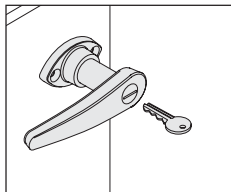
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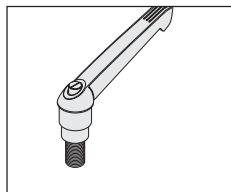
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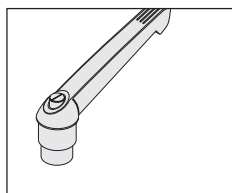
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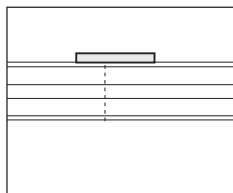
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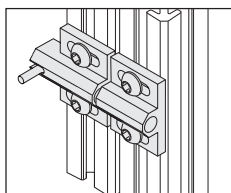
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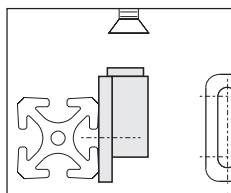
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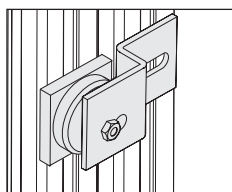
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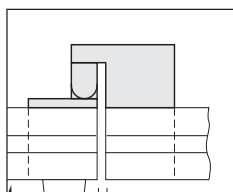
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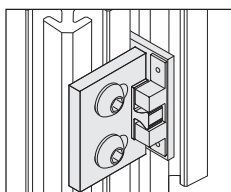
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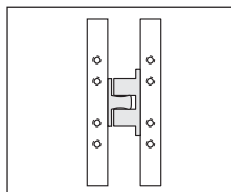
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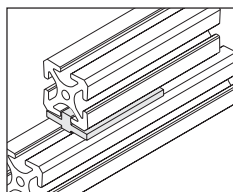
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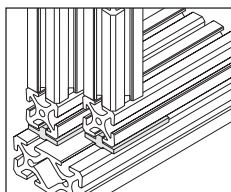
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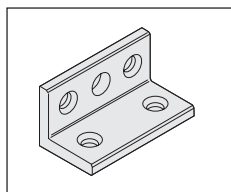
Sliding Components and Bearings



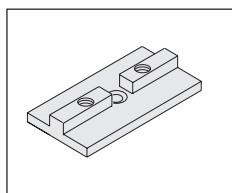
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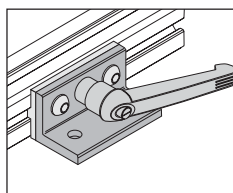
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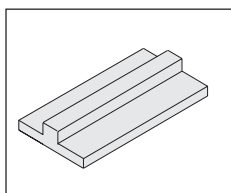
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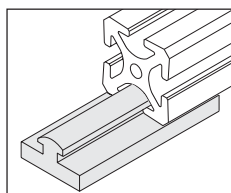
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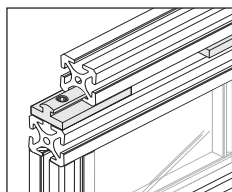
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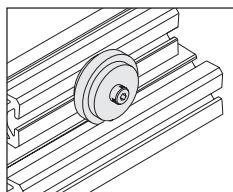
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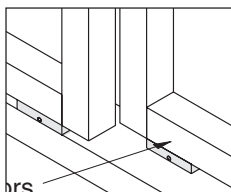
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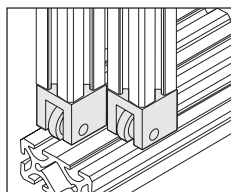
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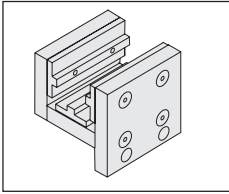
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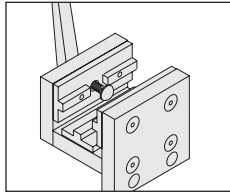
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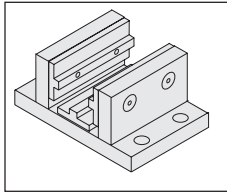
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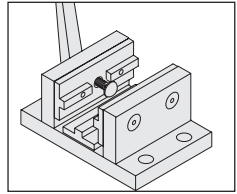
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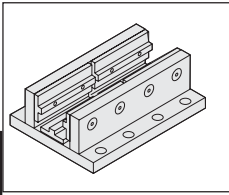
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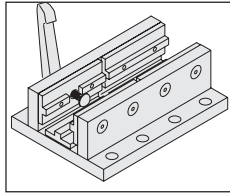
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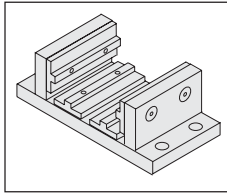
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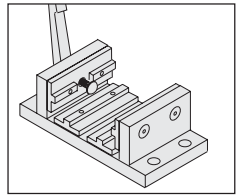
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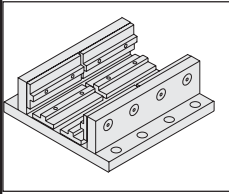
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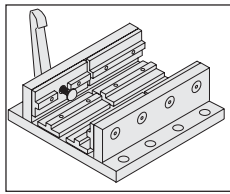
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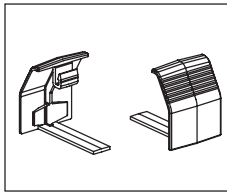
5/16" SLOTS

Section C.10

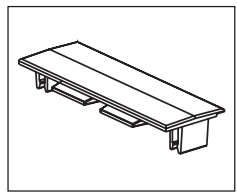
Cable & Tubing Raceways



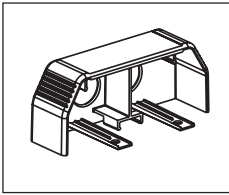
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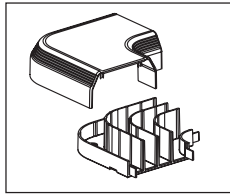
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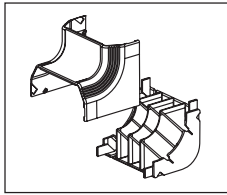
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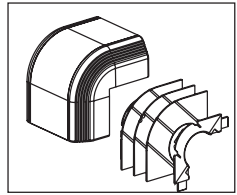
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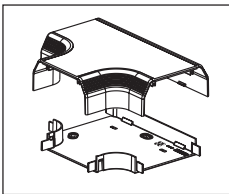
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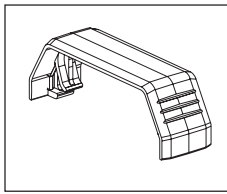
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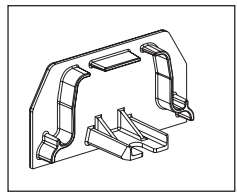
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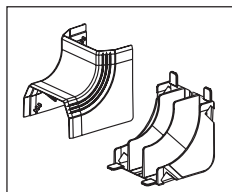
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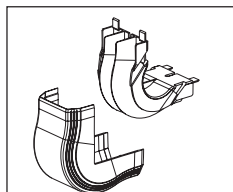
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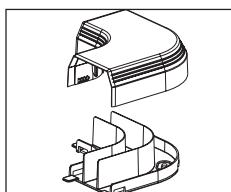
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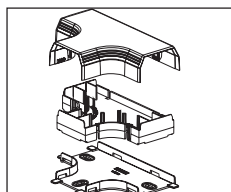
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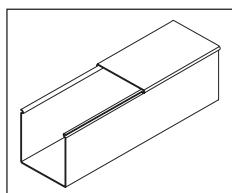
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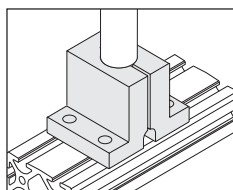


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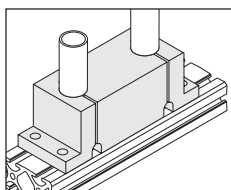


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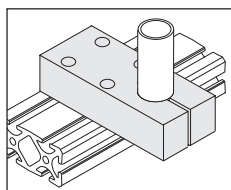
Section C.11 Stanchions



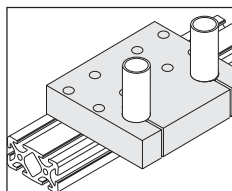
page 253



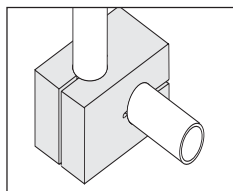
page 254



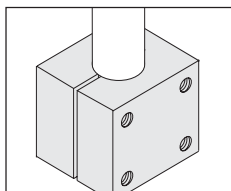
page 255



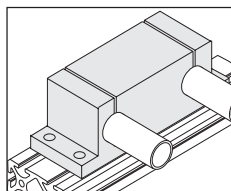
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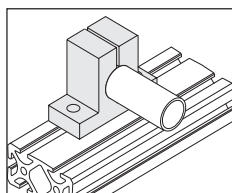
page 257



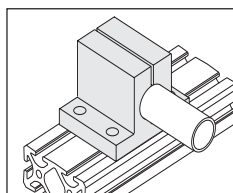
page 258



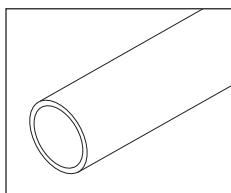
page 259



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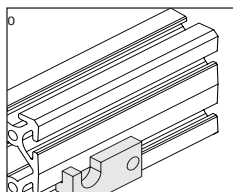


page 261

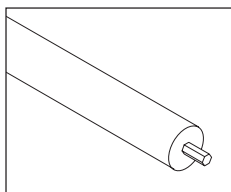


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Section C.12 Conveyor



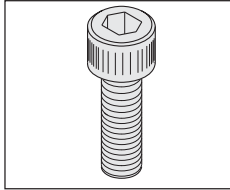
page 263



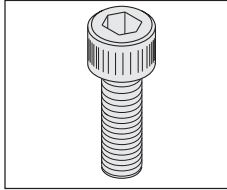
page 264

Section C.13

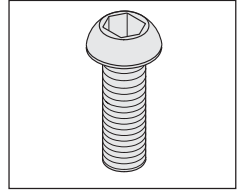
Screws, Nuts & Fasteners



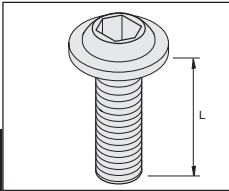
page 265



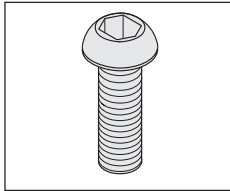
page 266



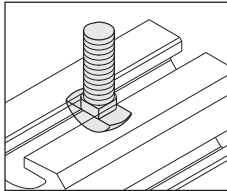
page 267



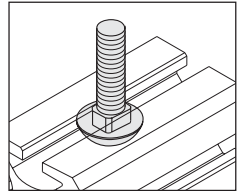
page 267



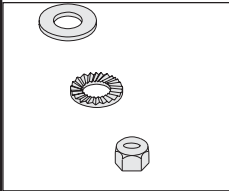
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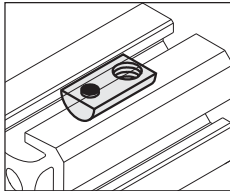
page 269



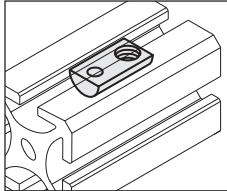
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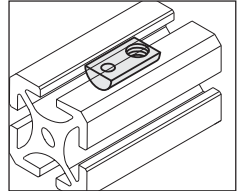
page 271



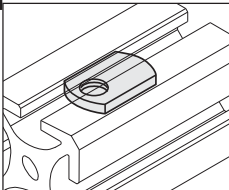
page 272



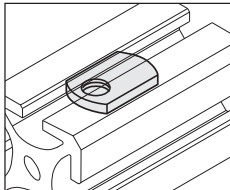
page 273



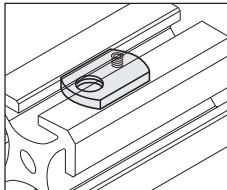
page 274



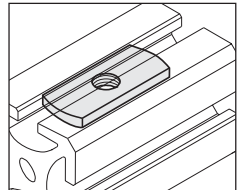
page 275



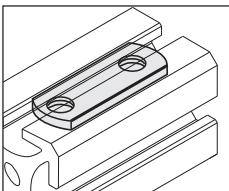
page 276



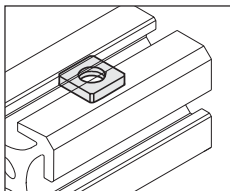
page 277



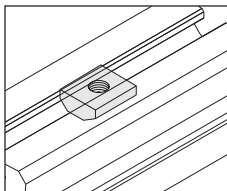
page 278



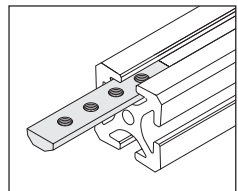
page 279



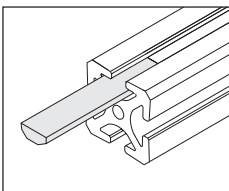
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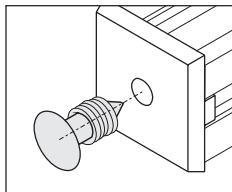


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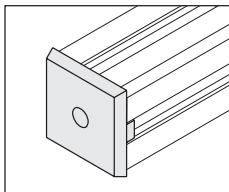
5/16" SLOTS

Section C.14

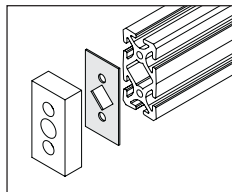
Miscellaneous Components



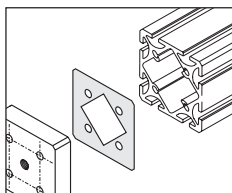
page 284



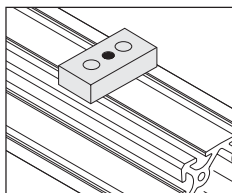
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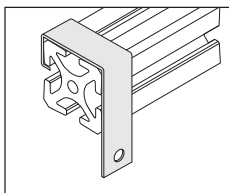
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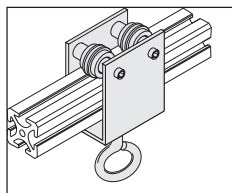
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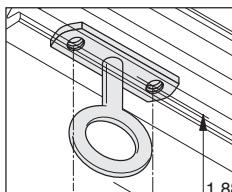
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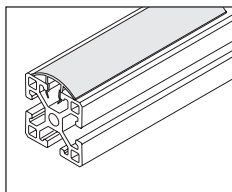
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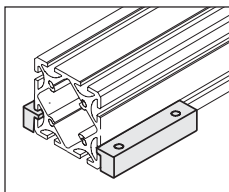
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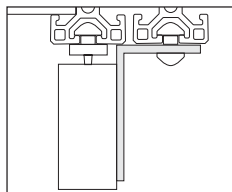
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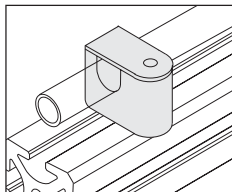
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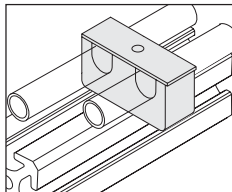
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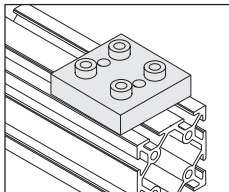
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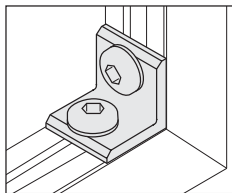
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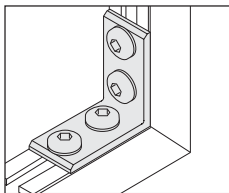
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Section D

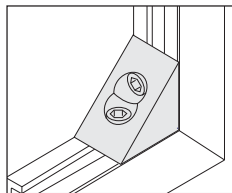
5/16" Slot 1" wide Braketry



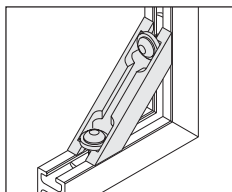
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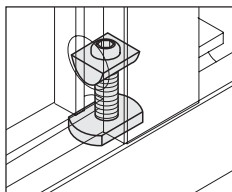
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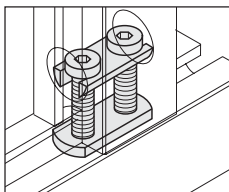
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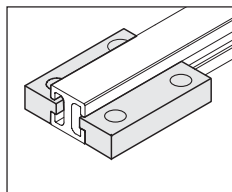
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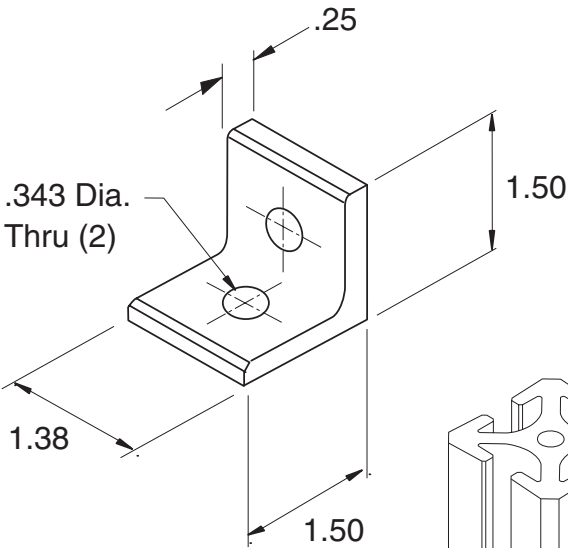
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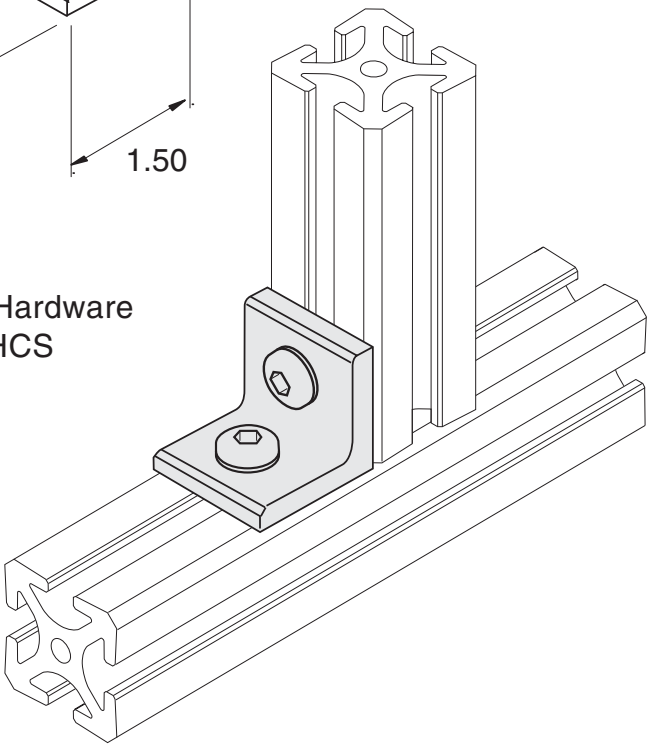
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EB-1

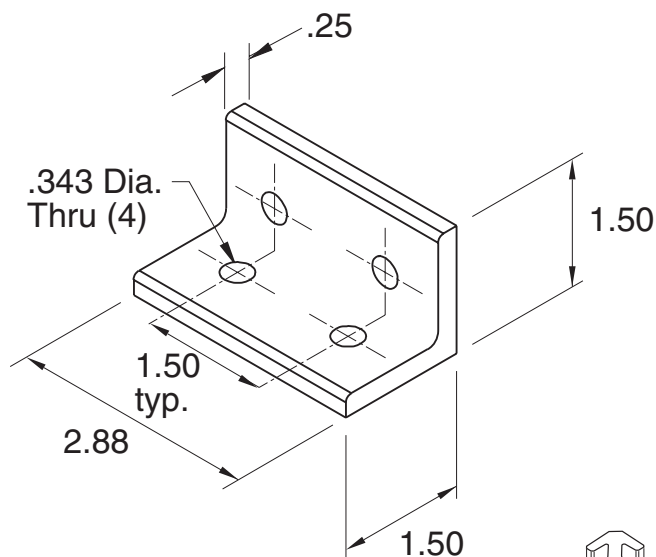
5/16" SLOTS



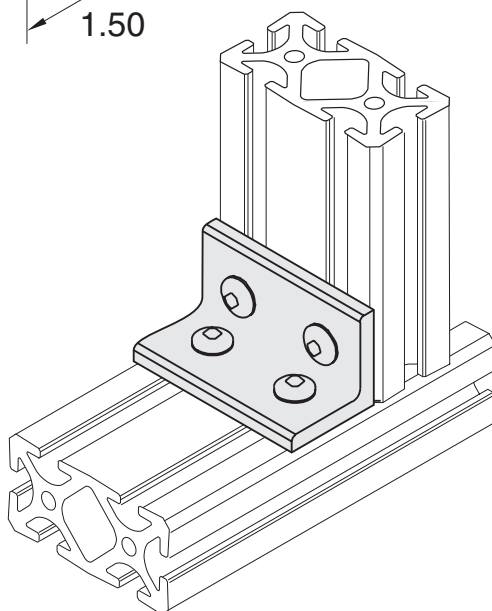
Recommended Hardware
(2) EF-12-.63 BHCS
(2) EF-2 T-nut



Material - Aluminum
Finish - Clear Anodize



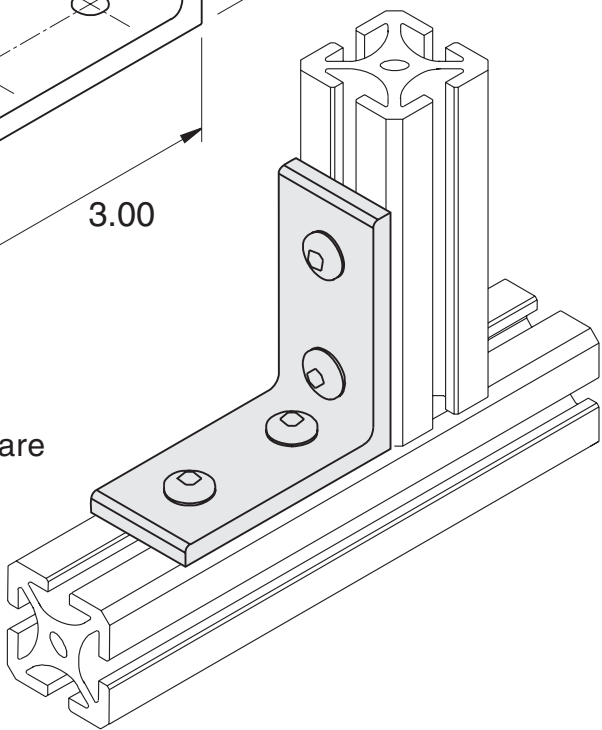
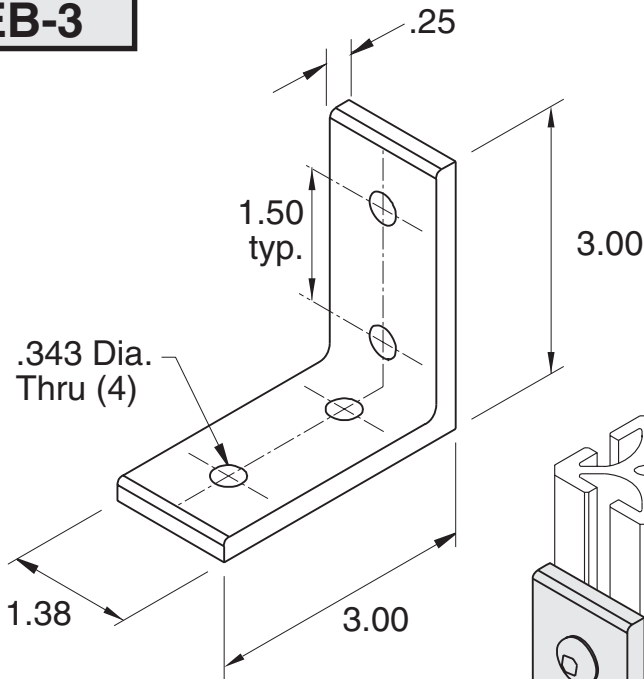
Recommended Hardware
 (4) EF-12-.63 BHCS
 (4) EF-2 T-nut



Material - Aluminum
 Finish - Clear Anodize

5/16" SLOTS

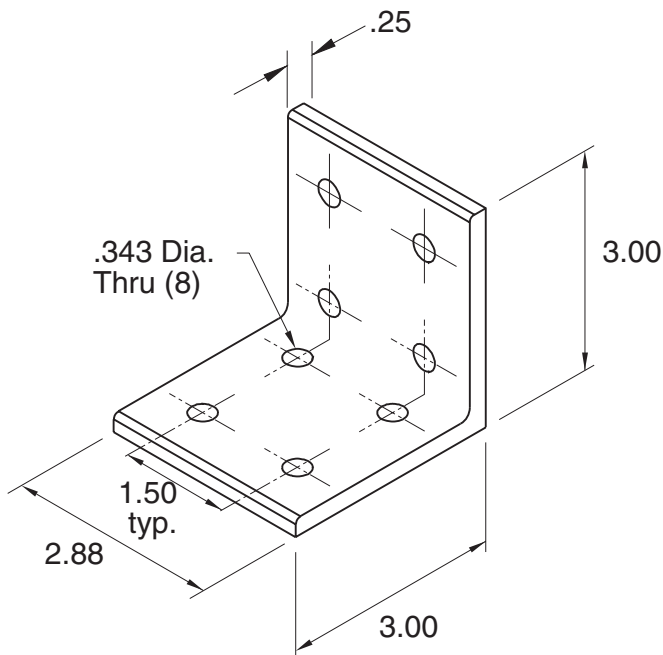
EB-3



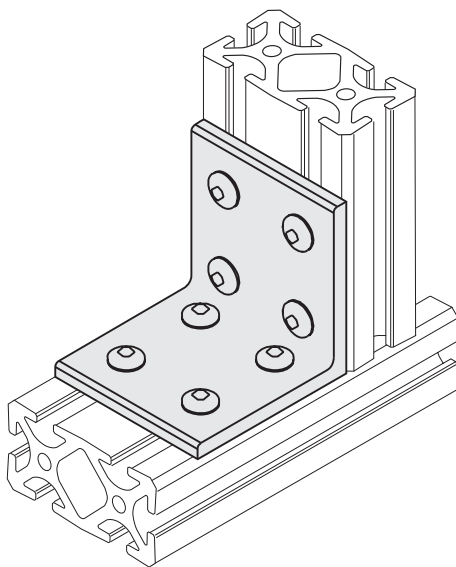
Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS



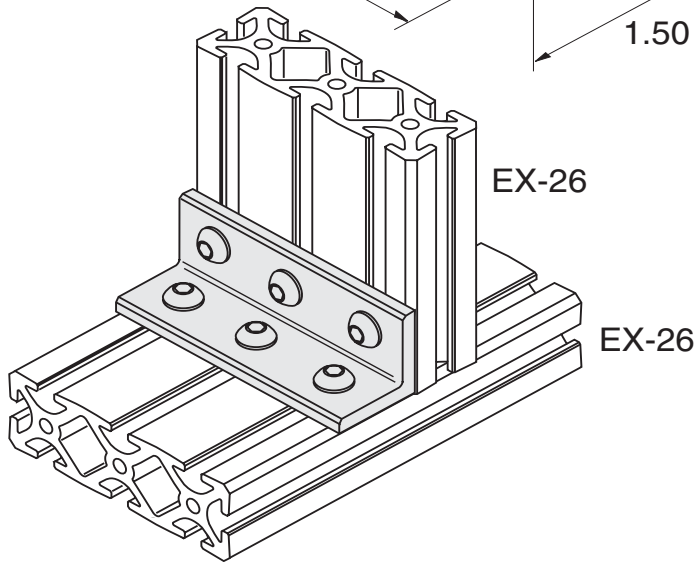
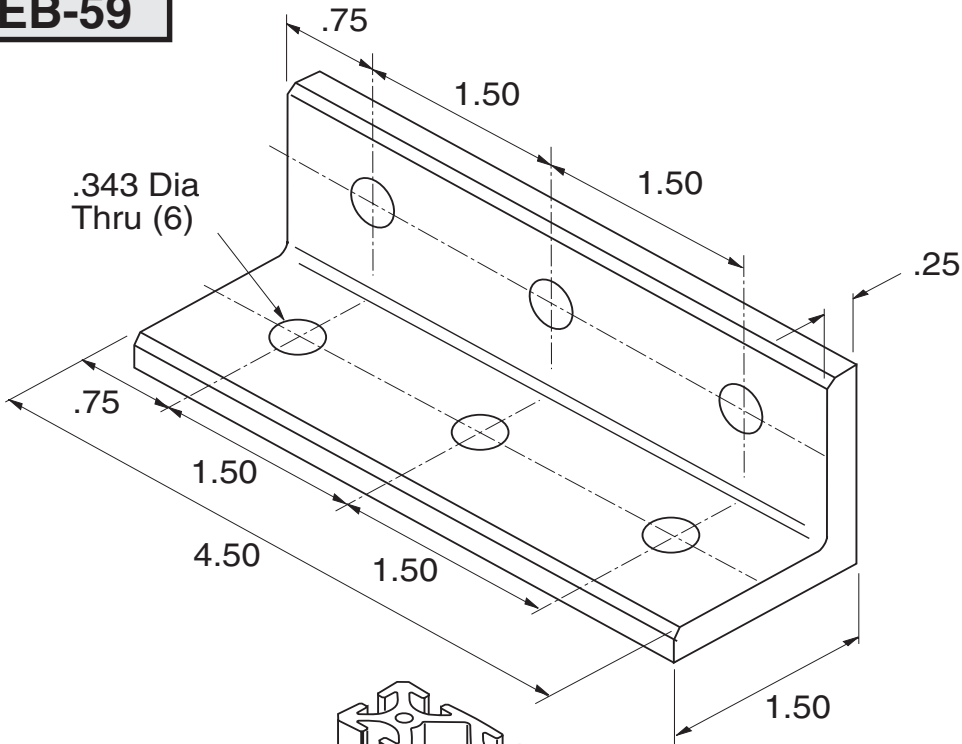
Recommended Hardware
 (8) EF-12-.63 BHCS
 (8) EF-2 T-nut



5/16" SLOTS

Material - Aluminum
Finish - Clear Anodize

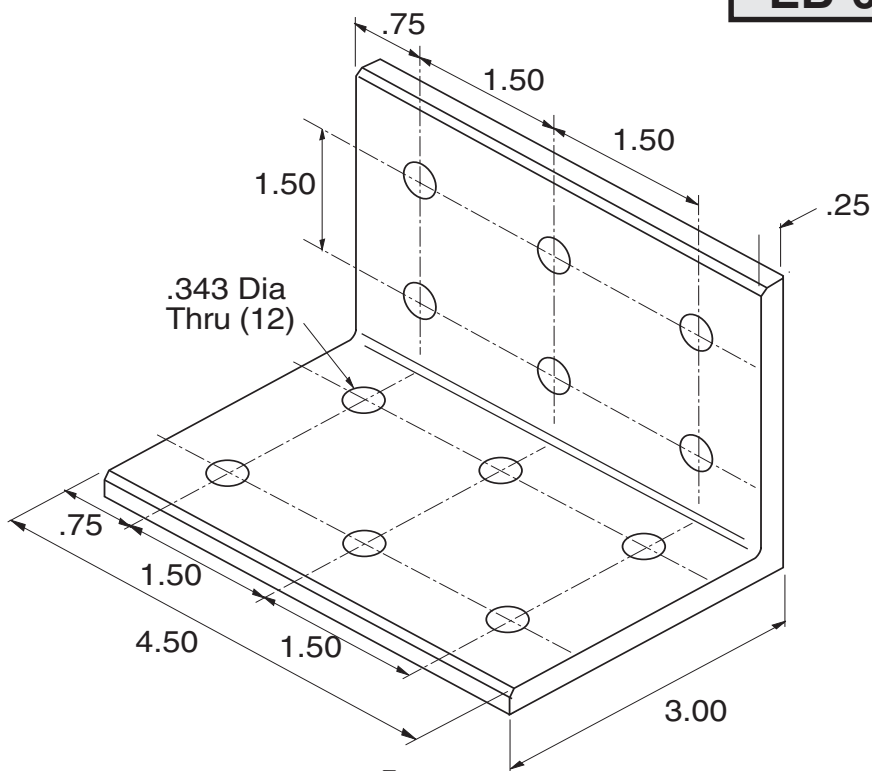
EB-59



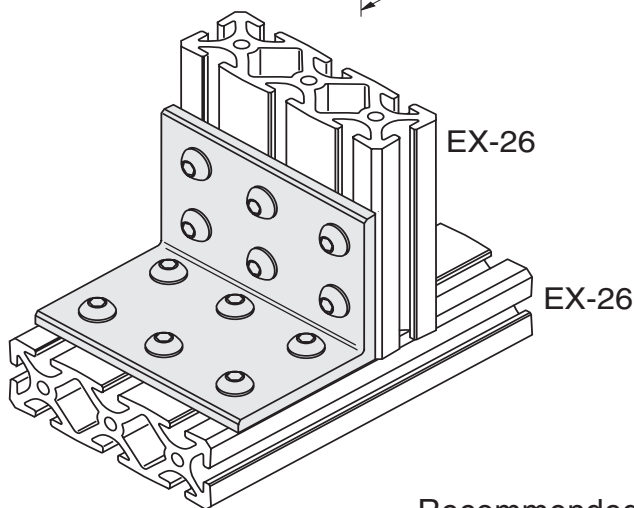
Recommended Hardware
(6) EF-12-.63 BHCS
(6) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS



5/16" SLOTS

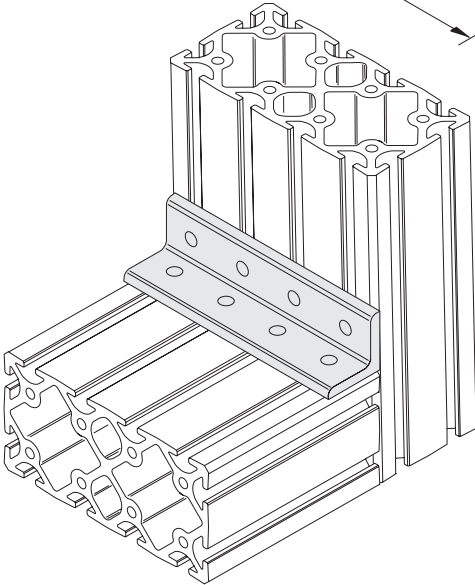
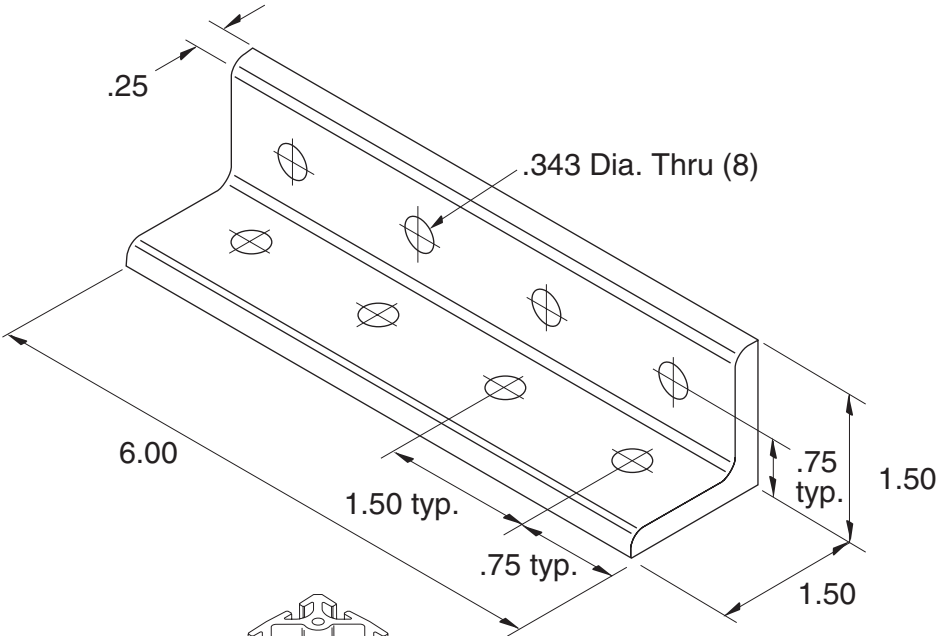


Recommended Hardware
 (12) EF-12-.63 BHCS
 (12) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

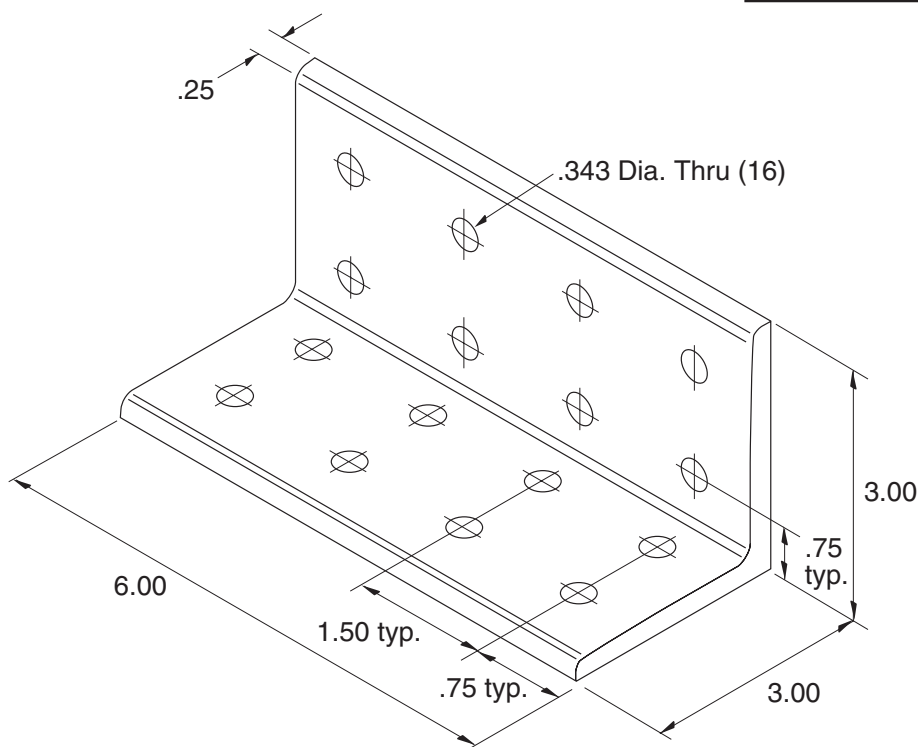
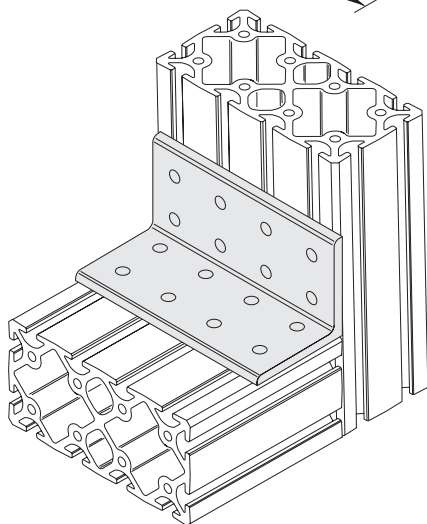
EB-55

5/16" SLOTS



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

Material - Aluminum
Finish - Clear Anodize

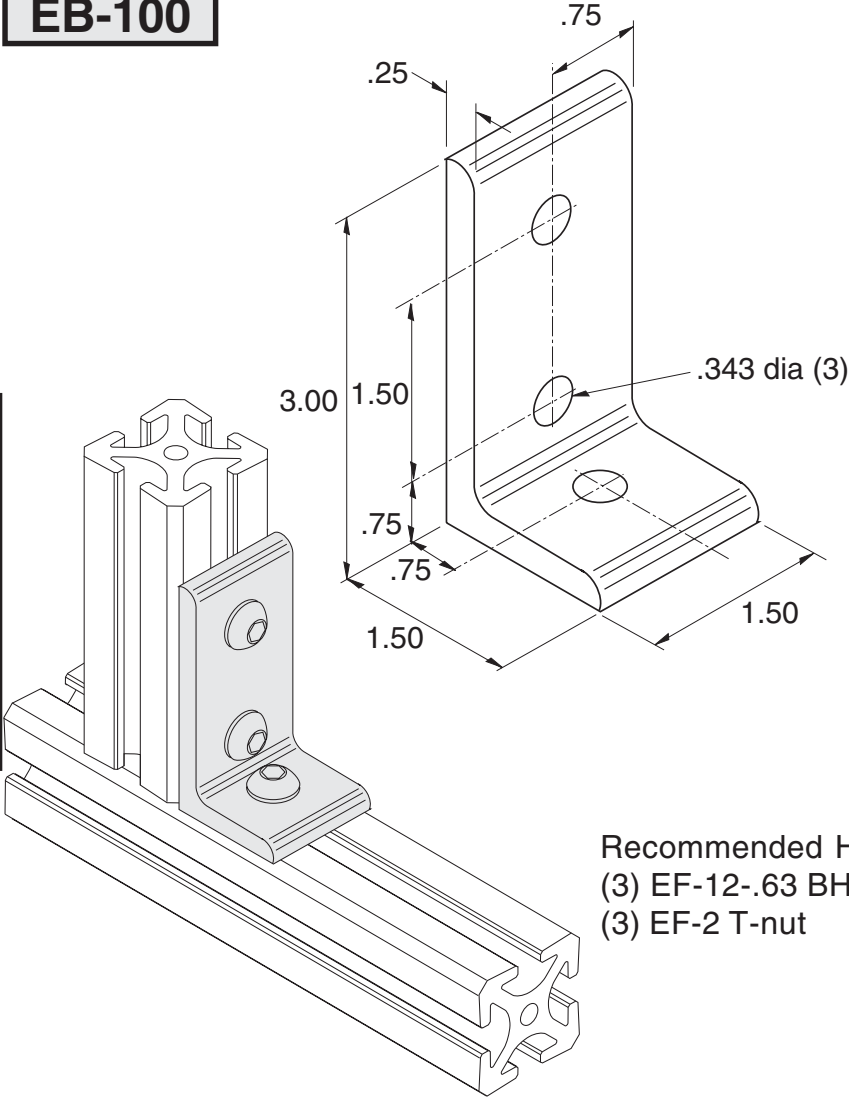

5/16" SLOTS


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

Material - Aluminum
Finish - Clear Anodize

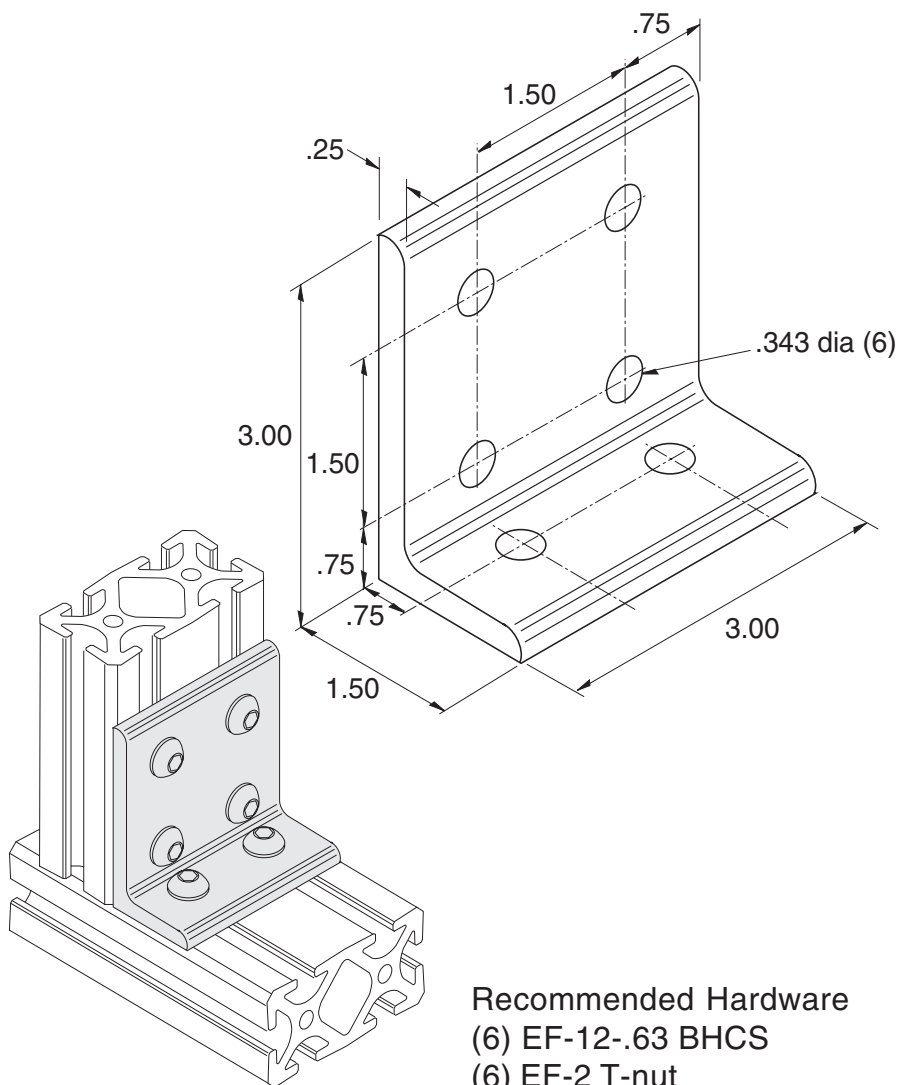
EB-100

5/16" SLOTS



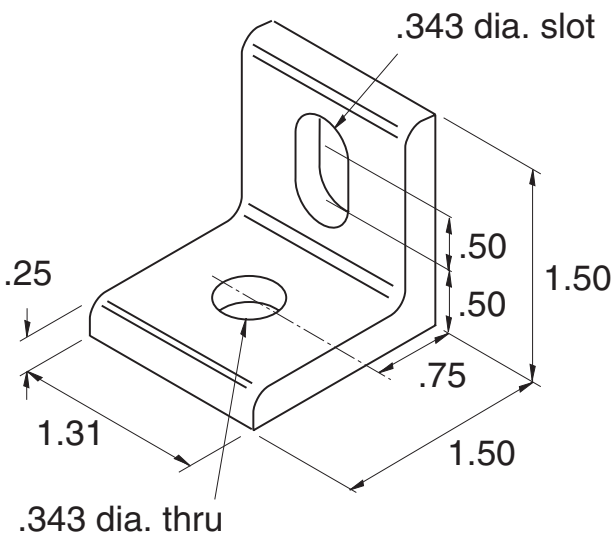
Recommended Hardware
(3) EF-12-.63 BHCS
(3) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

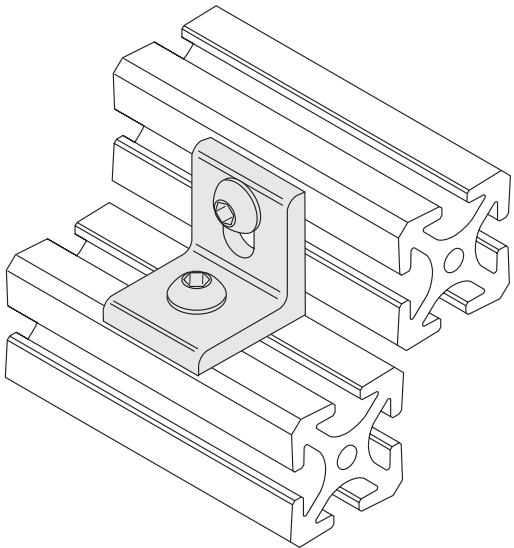


Material - Aluminum
 Finish - Clear Anodize

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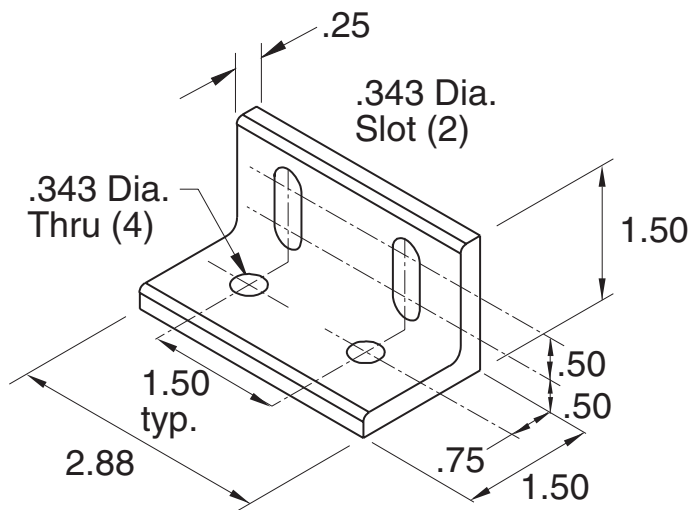


Recommended Hardware
(2) EF-12-.63 BHCS
(2) EF-2 T-nut

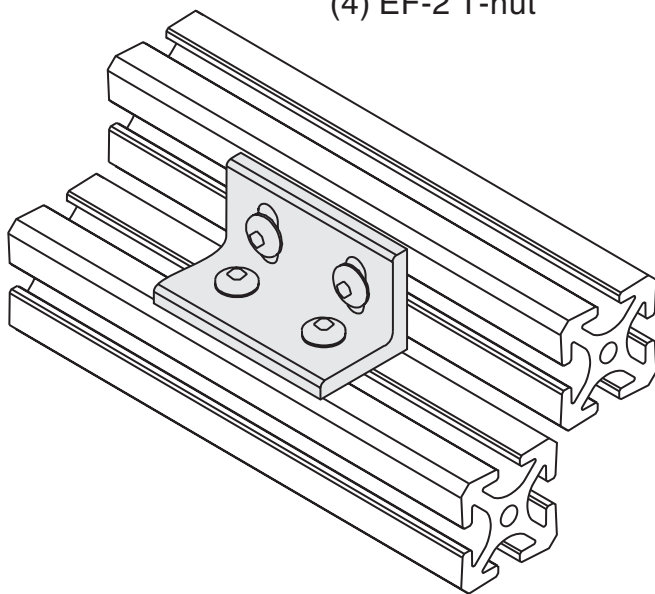


Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS



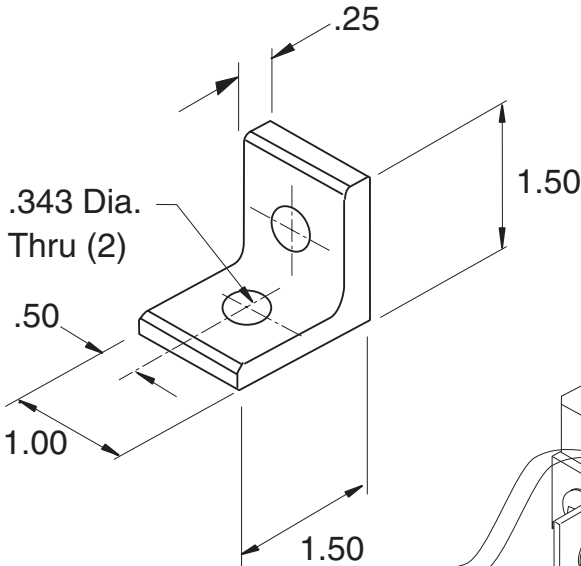
Recommended Hardware
 (4) EF-12-.63 BHCS
 (4) EF-2 T-nut



Material - Aluminum
 Finish - Clear Anodize

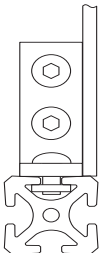
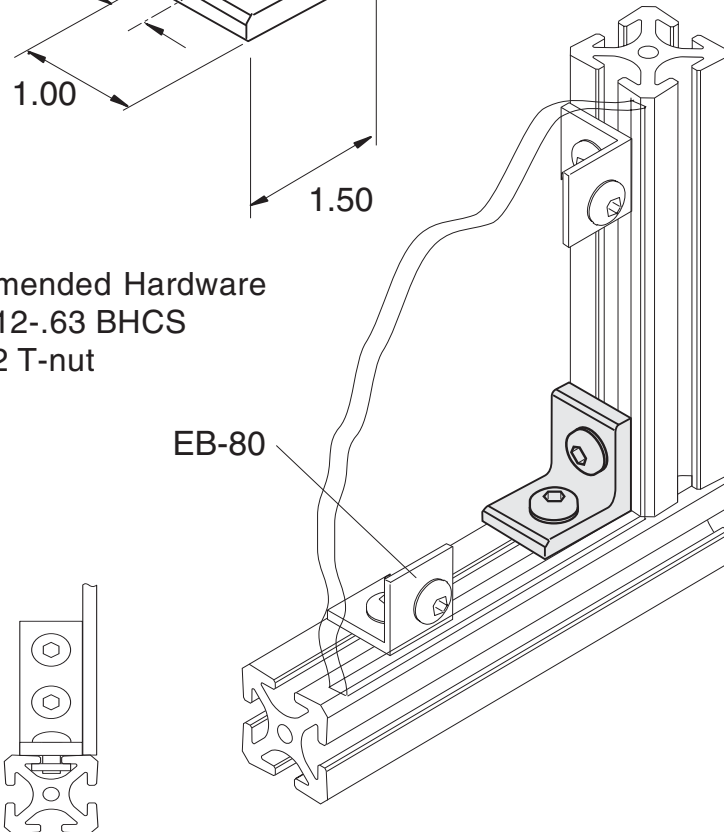
EB-81

5/16" SLOTS

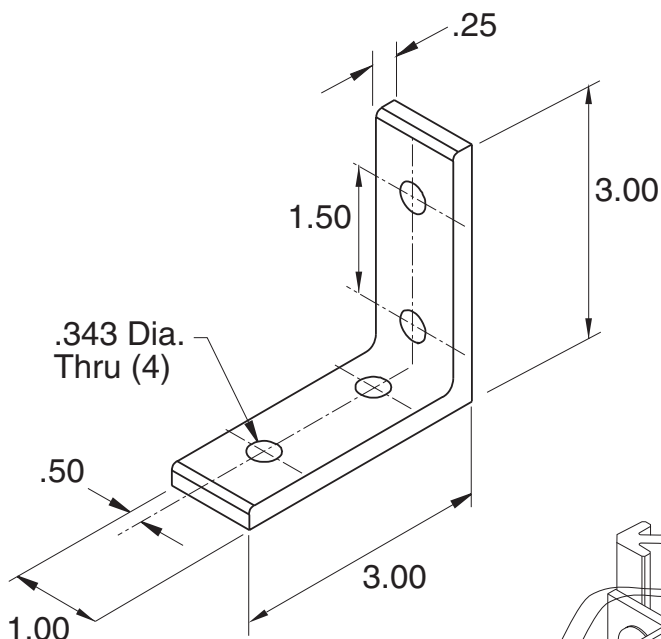


Recommended Hardware
(2) EF-12-.63 BHCS
(2) EF-2 T-nut

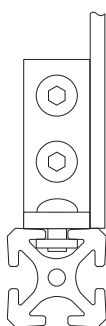
EB-80



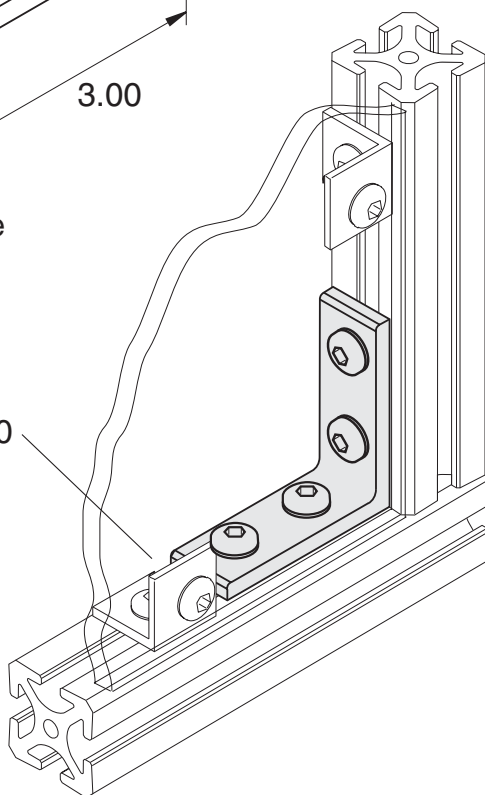
Material - Aluminum
Finish - Clear Anodize



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



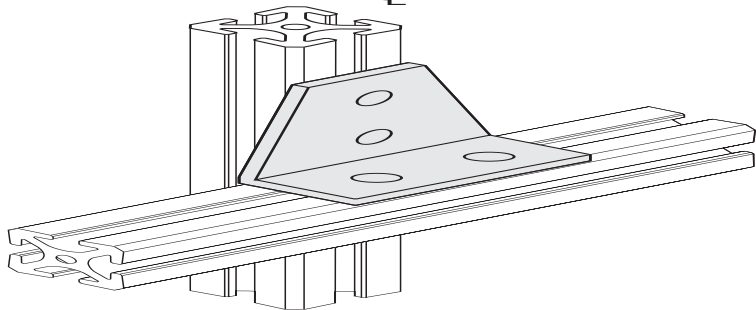
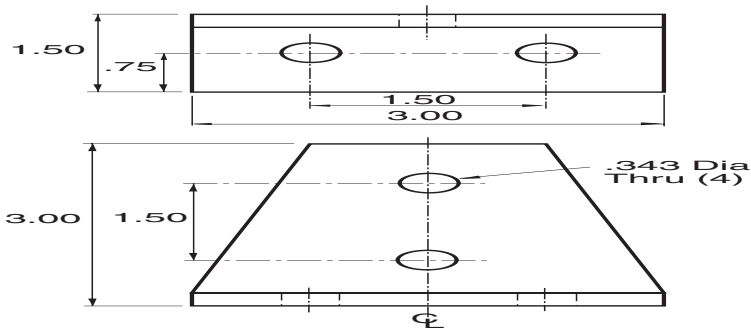
EB-80



5/16" SLOTS

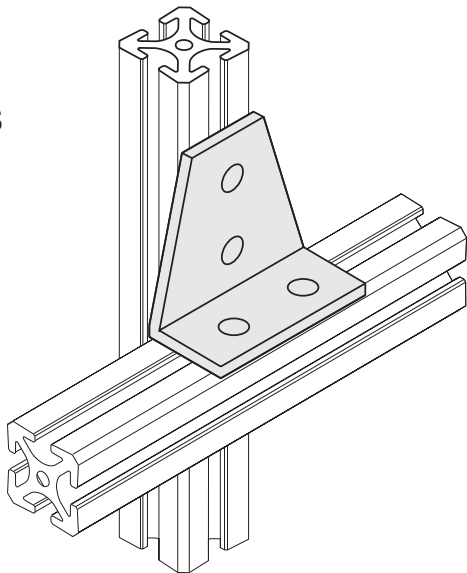
Material - Aluminum
Finish - Clear Anodize

EB-30

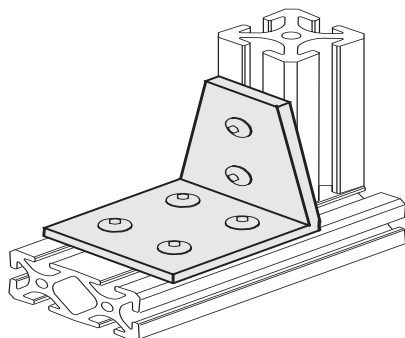
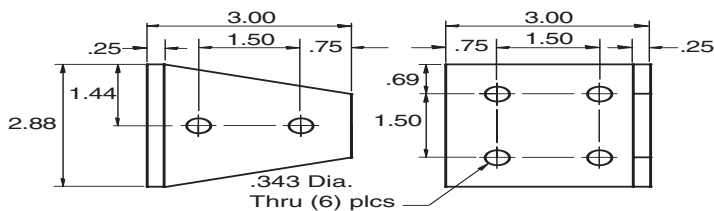


5/16" SLOTS

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

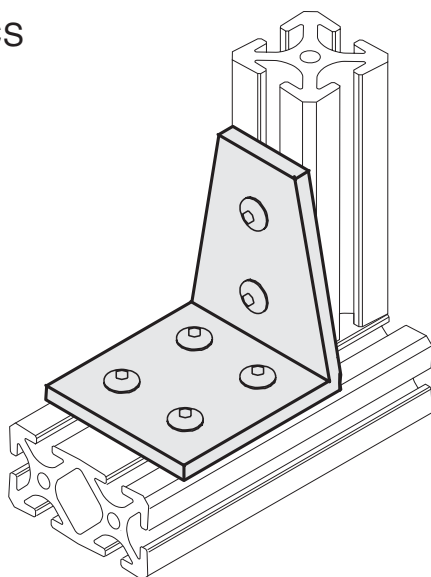


Material - Aluminum
Finish - Clear Anodize



Recommended Hardware

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

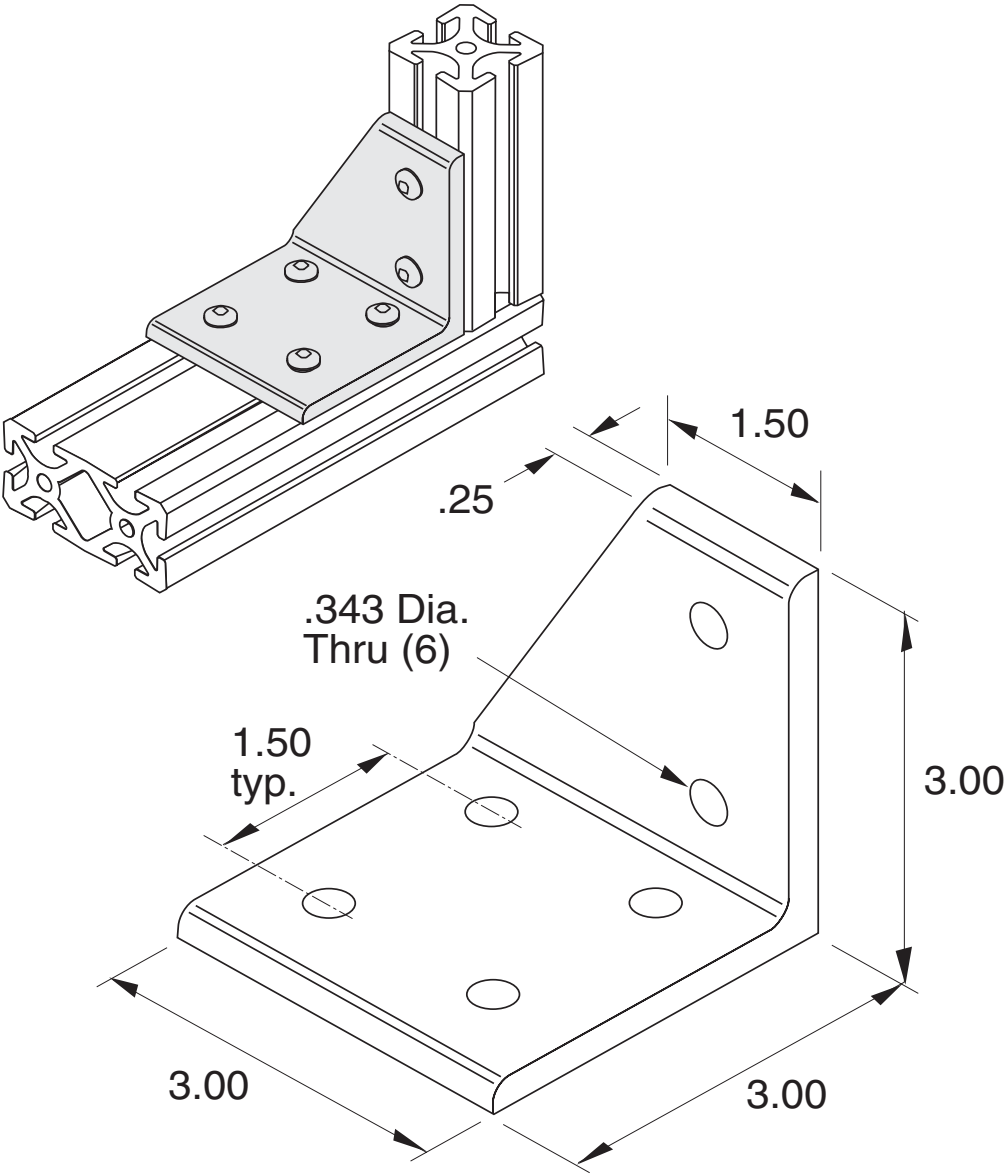


Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

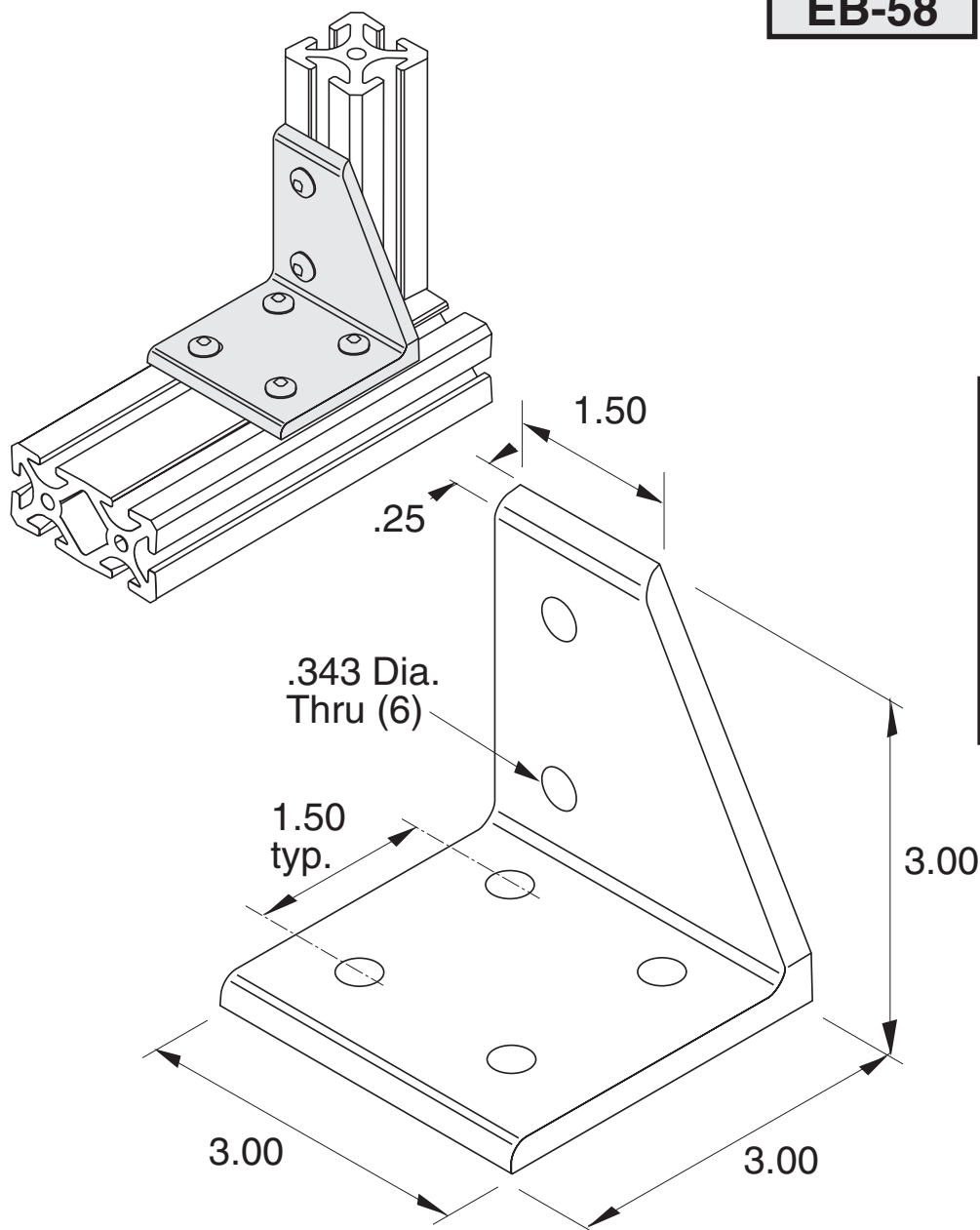
EB-57

5/16" SLOTS



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

Material - Aluminum
Finish - Clear Anodize

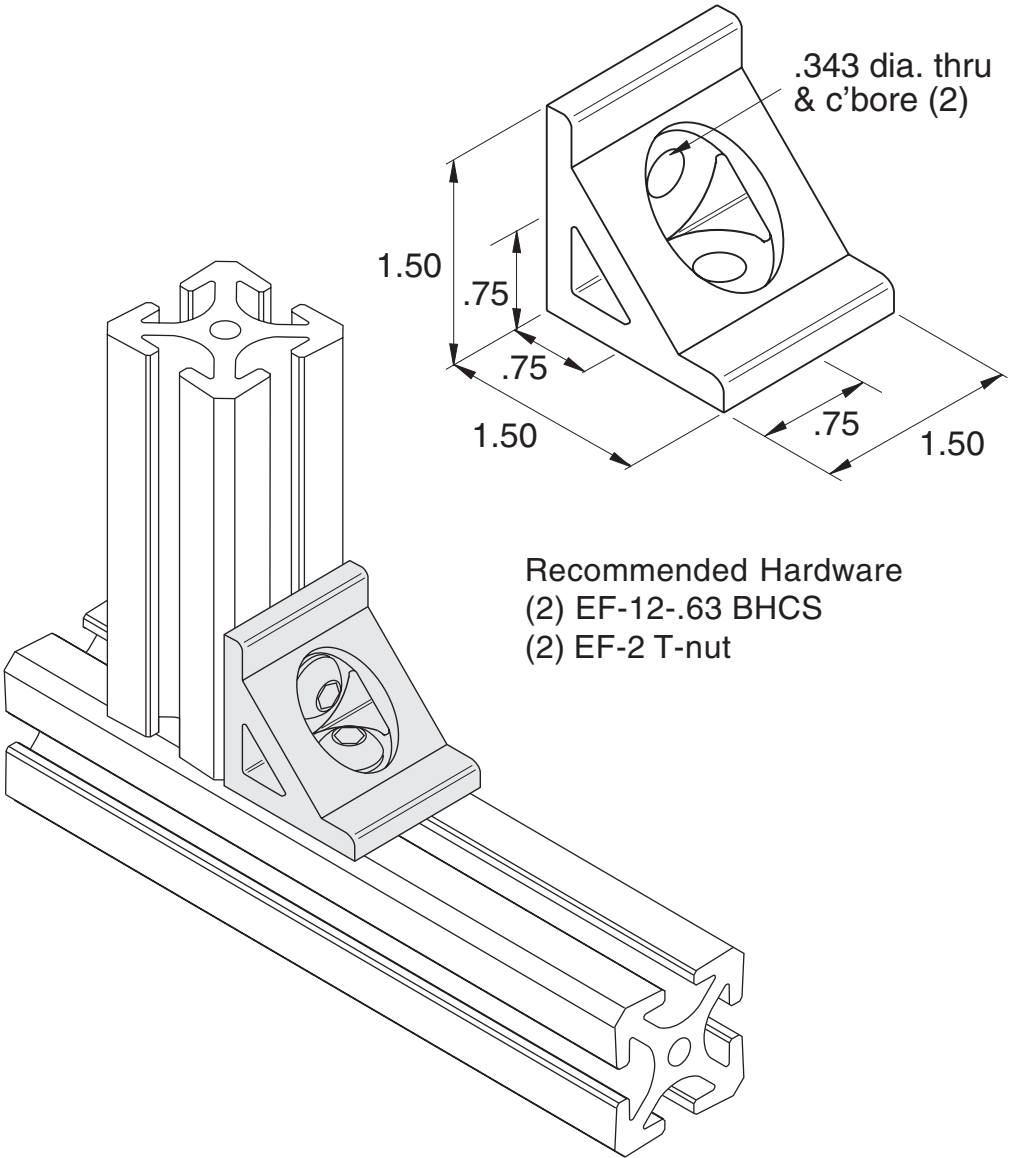


Recommended Hardware
 (6) EF-12-.63 BHCS
 (6) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

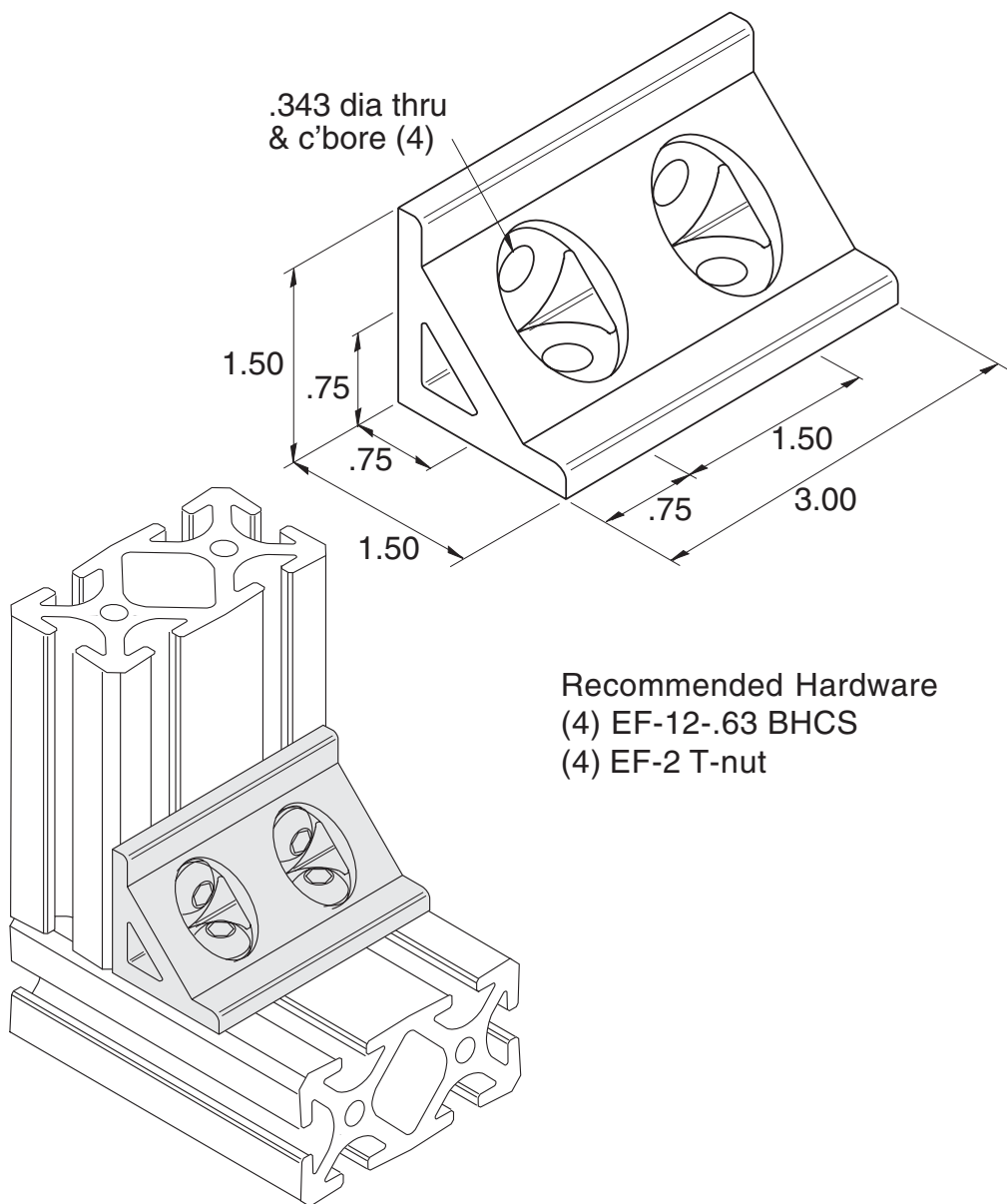
EB-111

5/16" SLOTS



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

Material - Aluminum
Finish - Clear Anodize

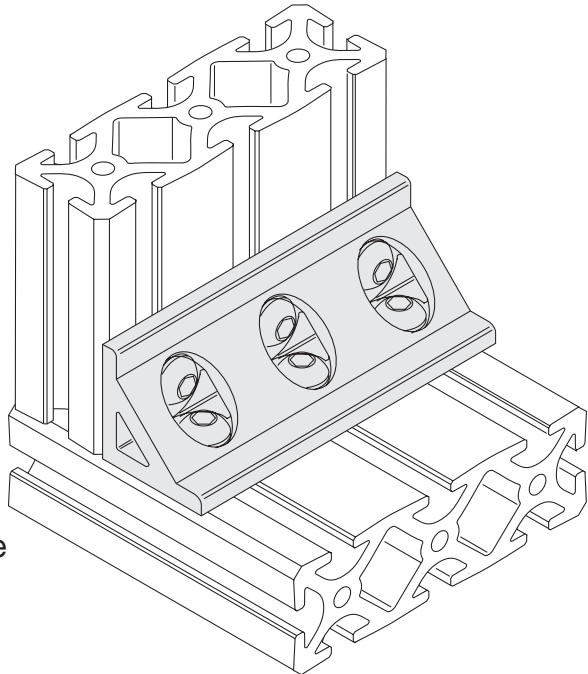
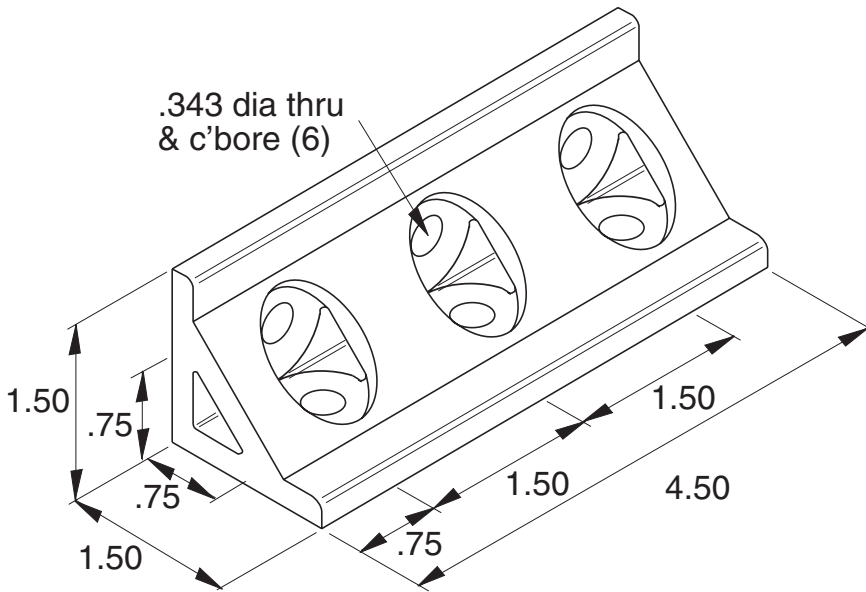


Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

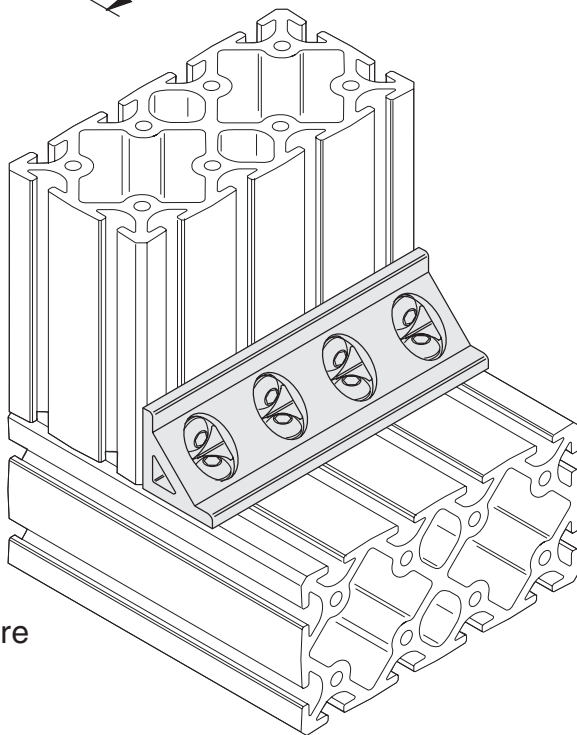
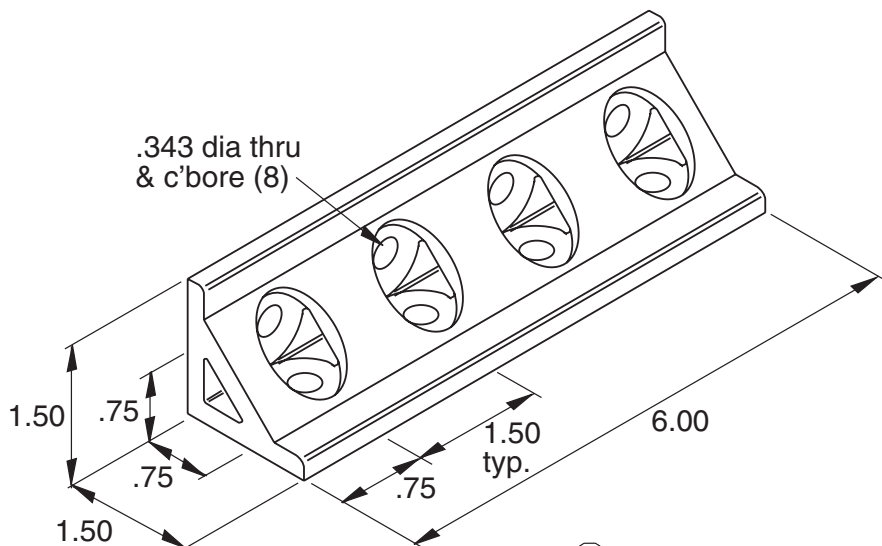
EB-113

5/16" SLOTS



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

Material - Aluminum
Finish - Clear Anodize



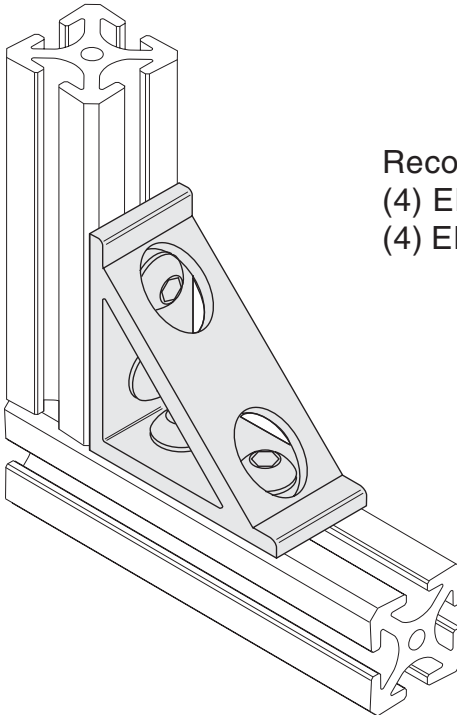
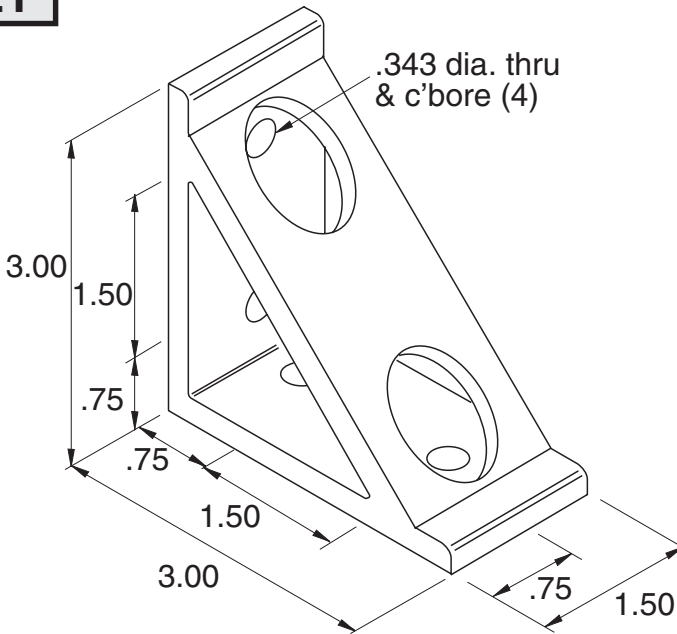
Recommended Hardware
 (8) EF-12-.63 BHCS
 (8) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

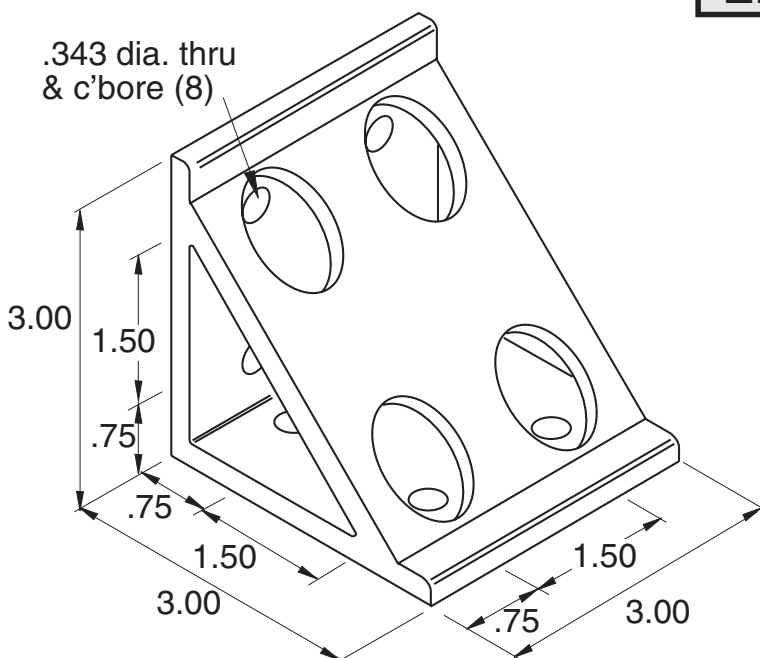
EB-121

5/16" SLOTS



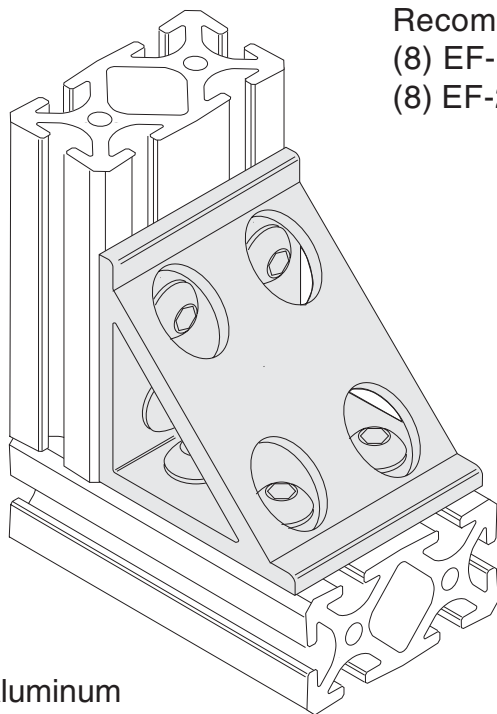
Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS

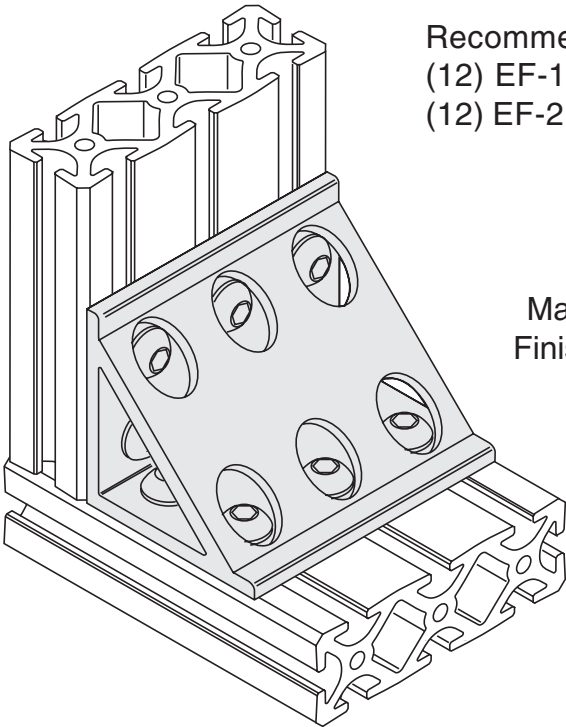
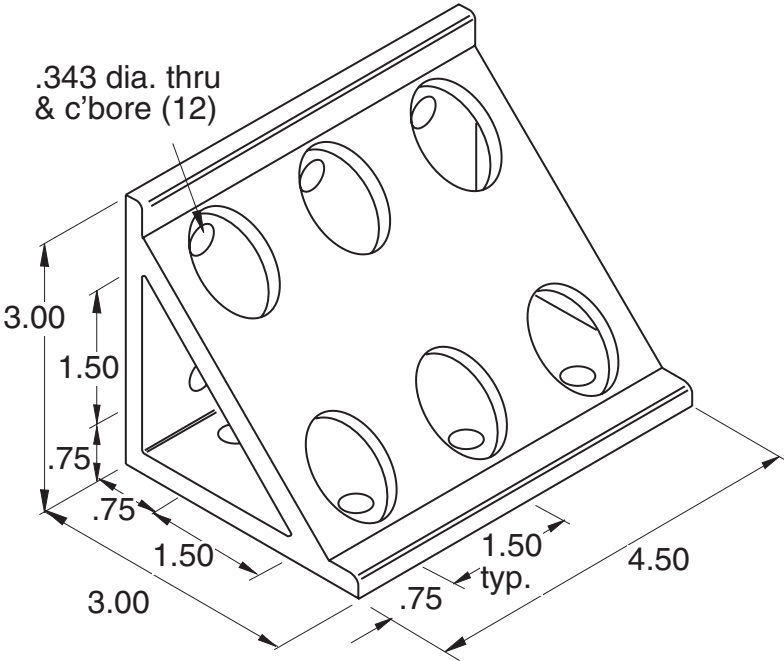
Recommended Hardware
 (8) EF-12-.63 BHCS
 (8) EF-2 T-nut



Material - Aluminum
Finish - Clear Anodize

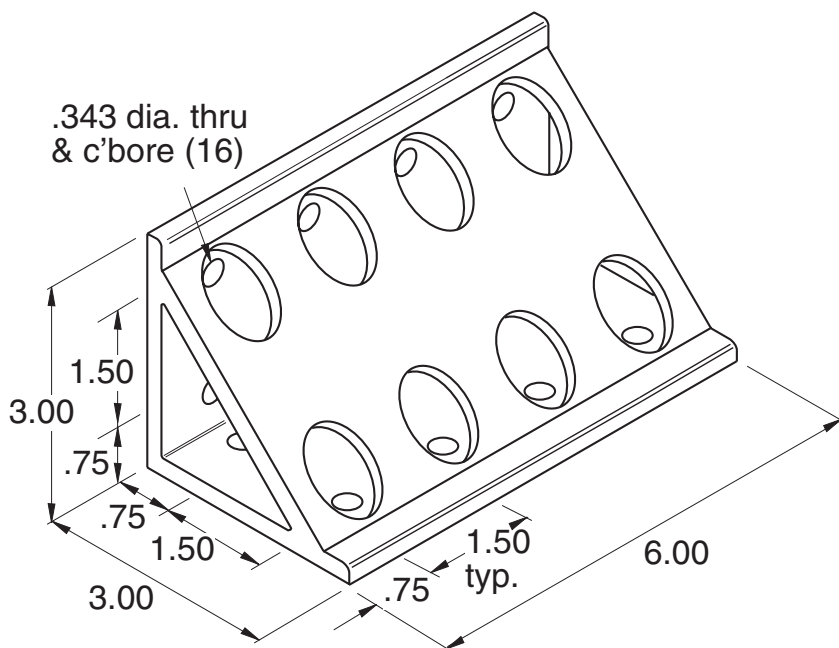
EB-123

5/16" SLOTS

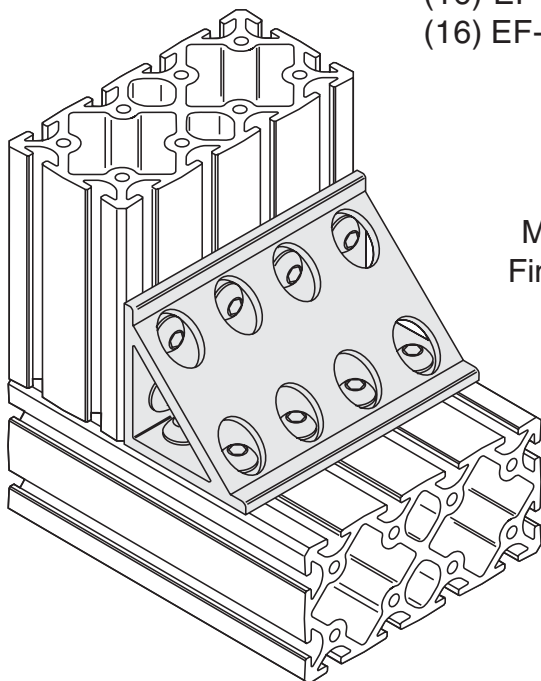


Recommended Hardware
(12) EF-12-.63 BHCS
(12) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



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



Material - Aluminum
Finish - Clear Anodize

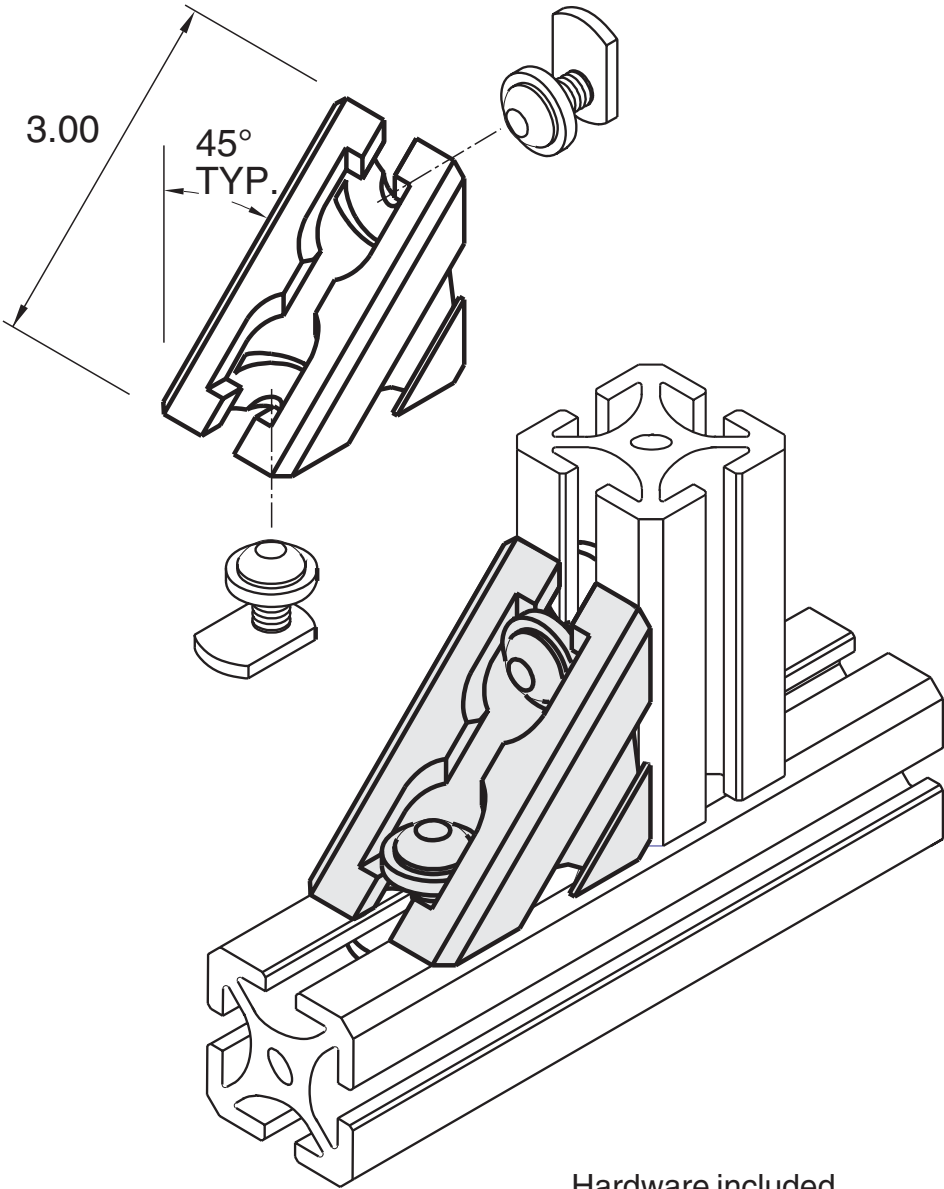
5/16" SLOTS

1.5 x 1.5 Extrusion
Corner Gusset



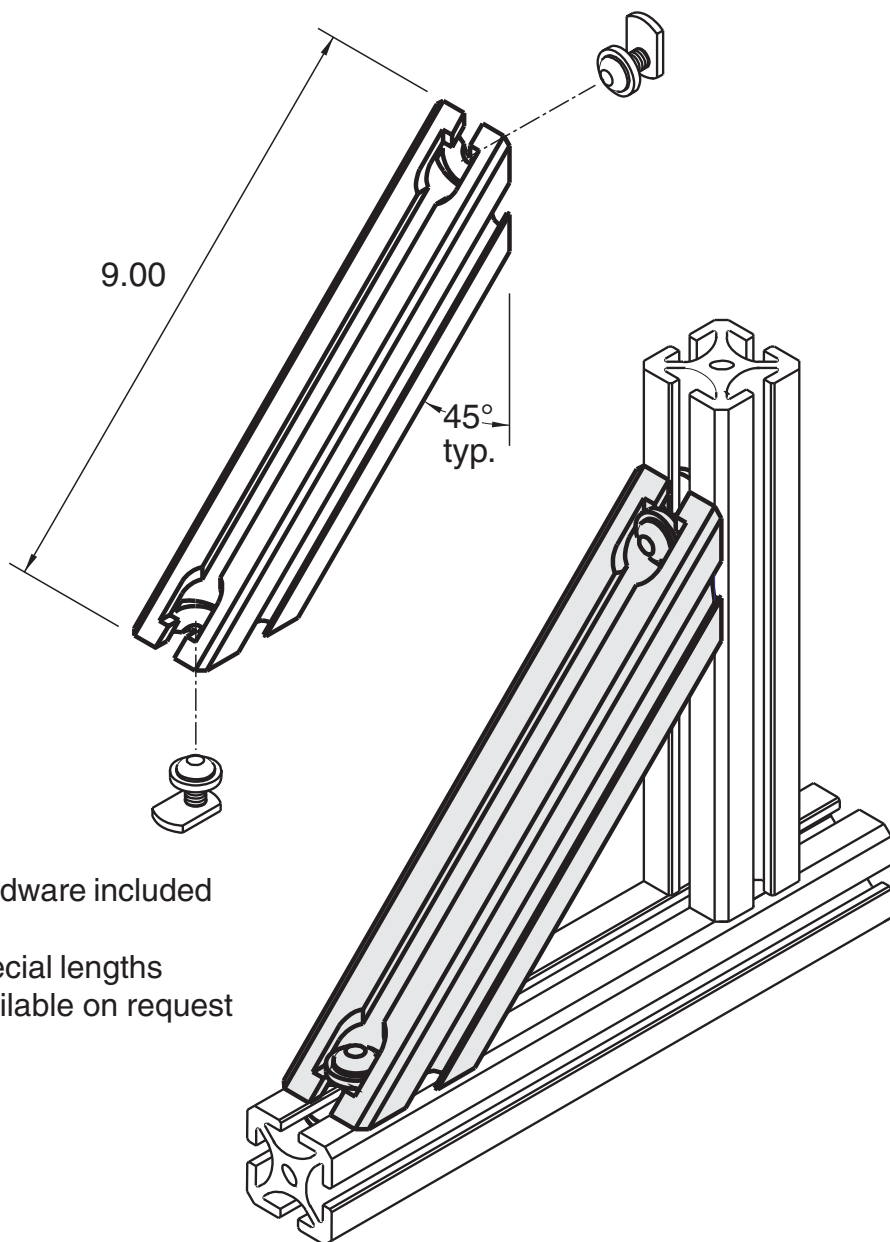
EB-6

5/16" SLOTS



Hardware included

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



Hardware included

Special lengths
available on request

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

5/16" SLOTS

Angle Blocks

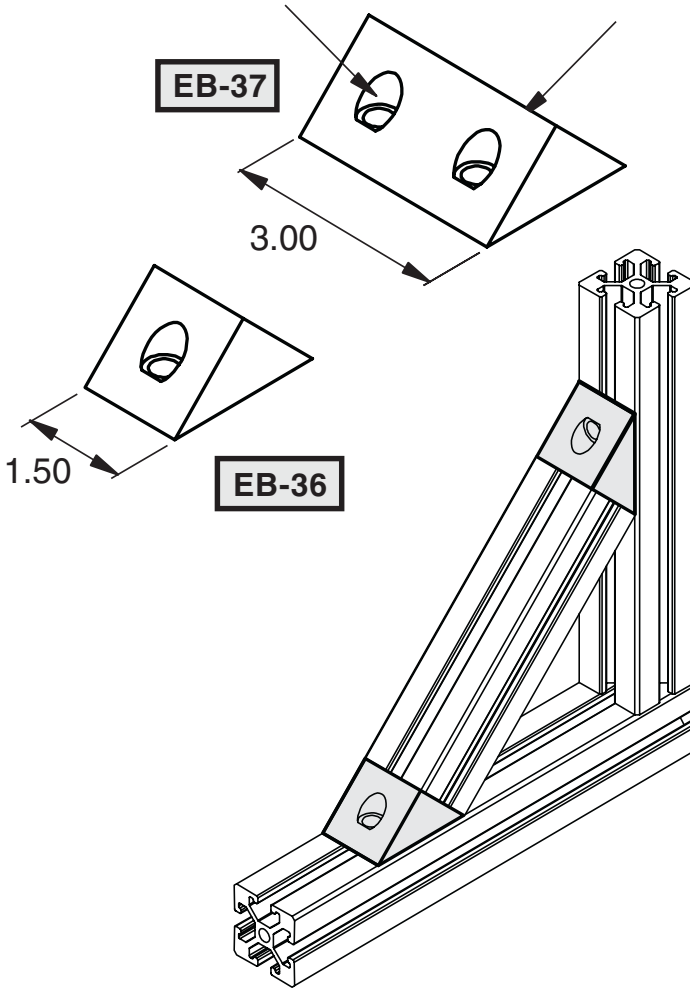


EB-36

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

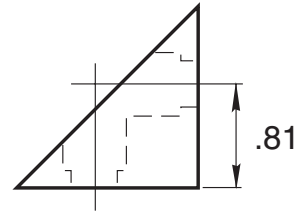
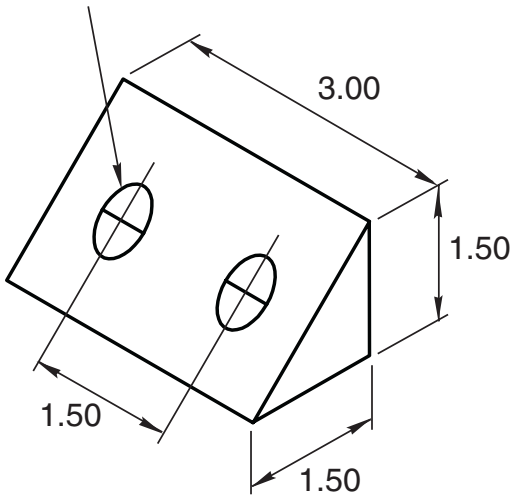
EB-37

Recommended Hardware

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

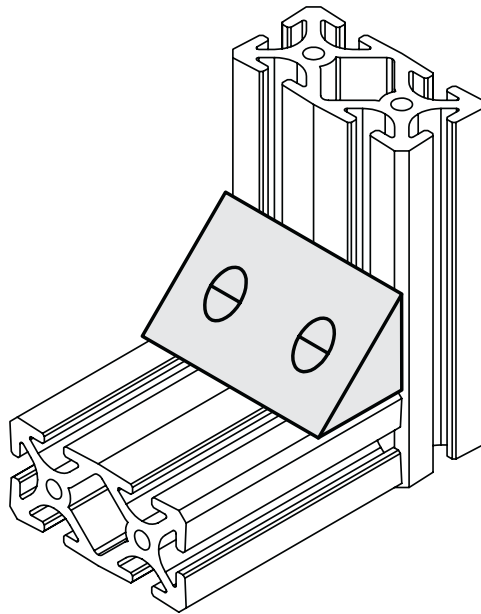
Material - Aluminum
Finish - Clear Anodize

5/16" C'bore (2)



5/16" SLOTS

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



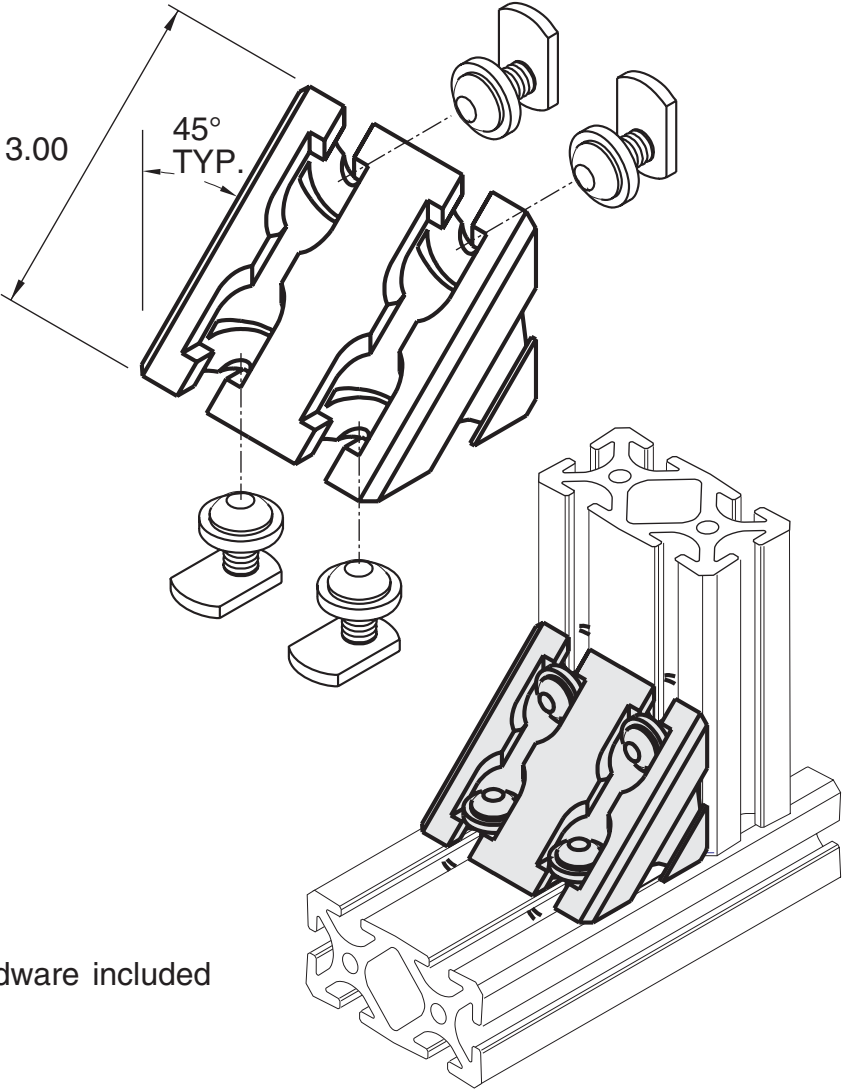
Material - Aluminum
 Finish - Clear Anodize

1.5 x 3.0 Extrusion
Corner Gusset



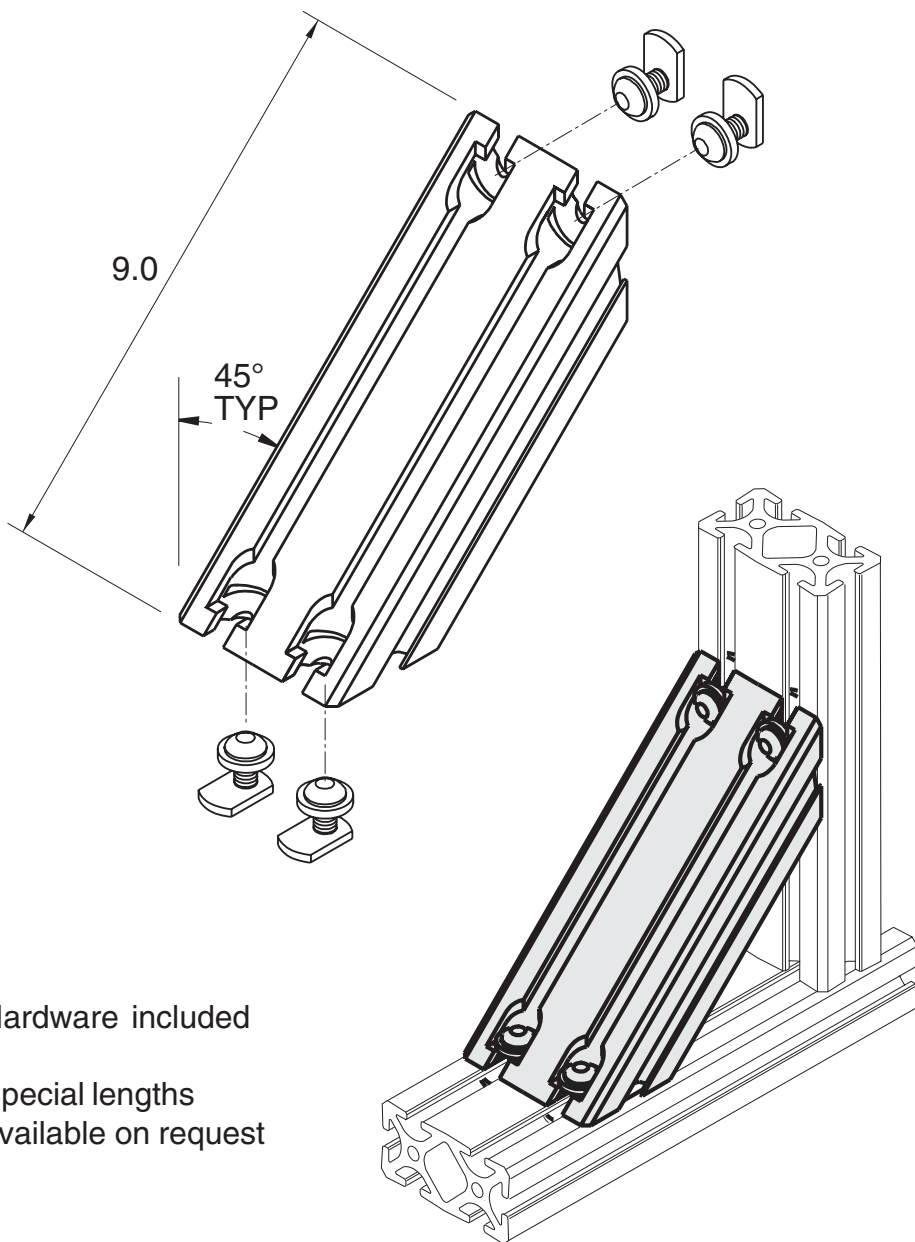
EB-8

5/16" SLOTS



Hardware included

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



Hardware included

Special lengths
available on request

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

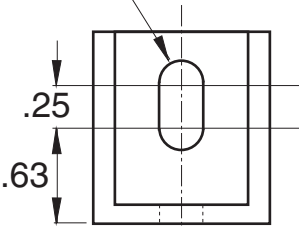
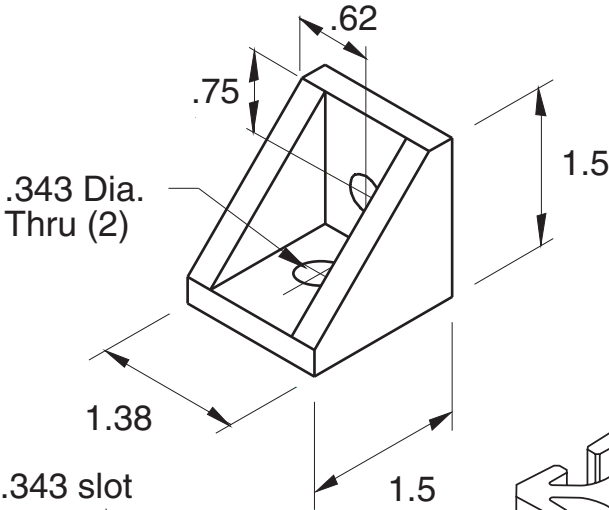
Cast Corner Gusset



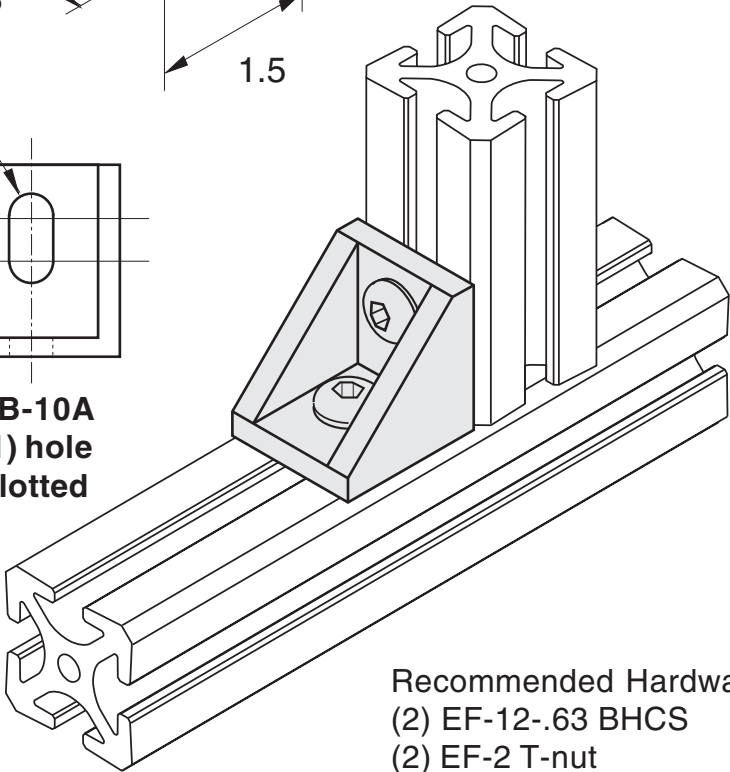
| |
|---------------|
| EB-10 |
| EB-10A |

Slotted

5/16" SLOTS

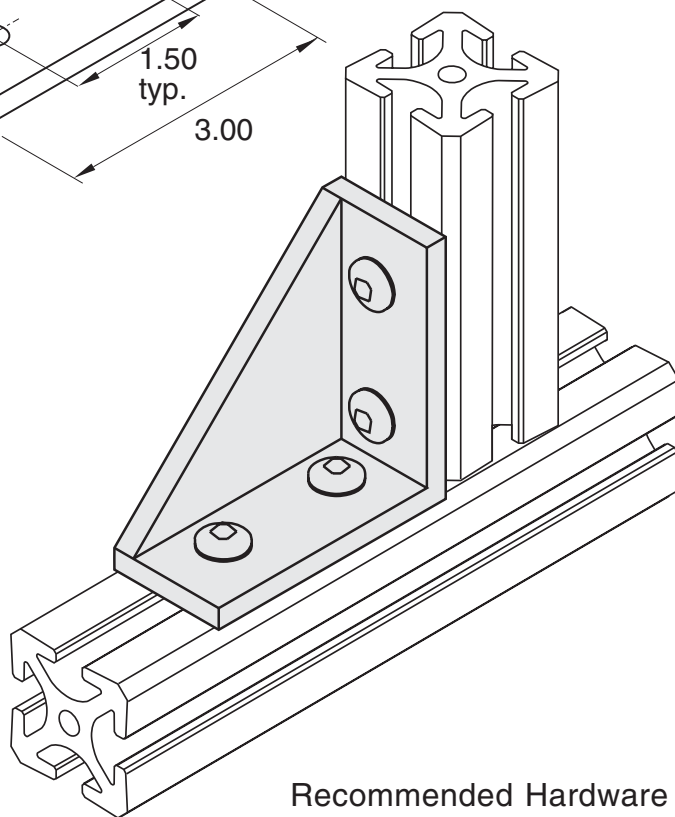
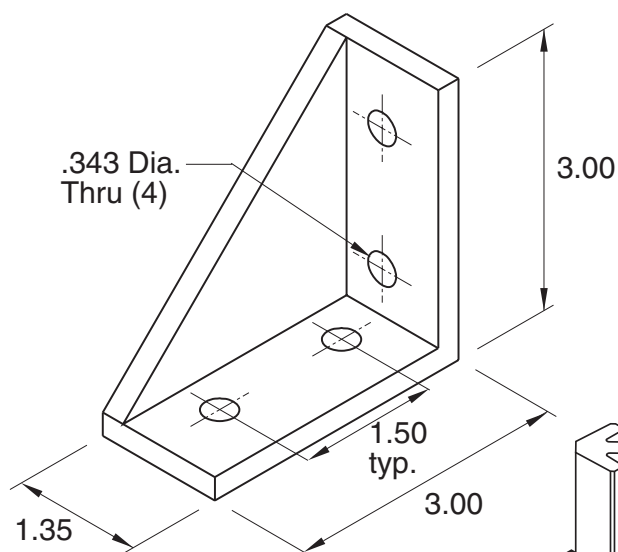


**EB-10A
(1) hole
slotted**



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

Material - Aluminum
Finish - Clear Anodize



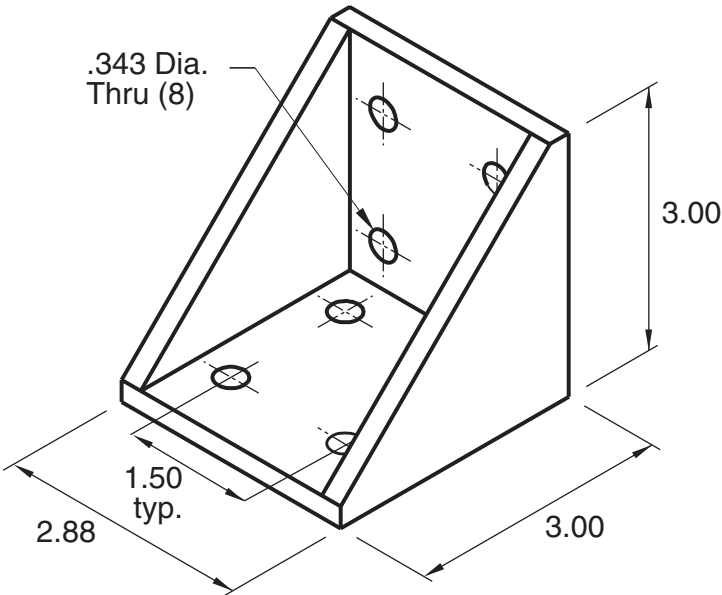
Recommended Hardware
 (4) EF-12-.63 BHCS
 (4) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

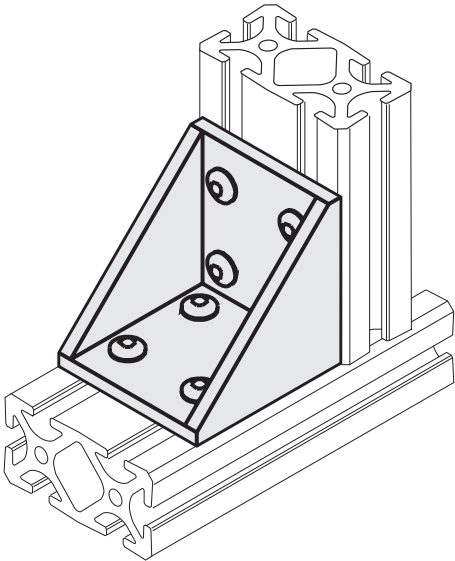
5/16" SLOTS

EB-12

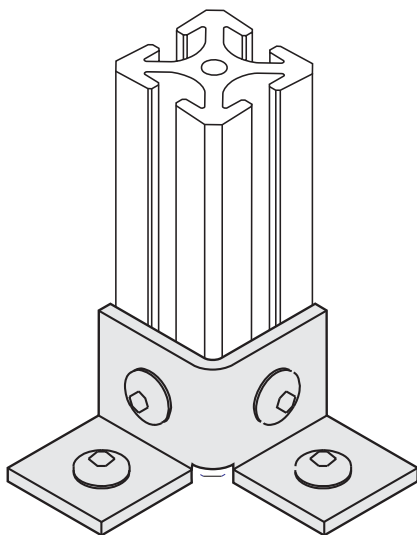
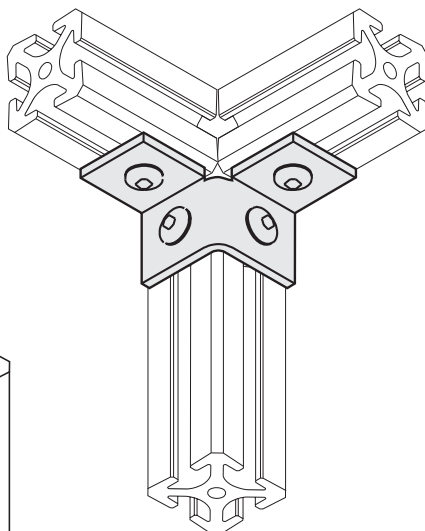
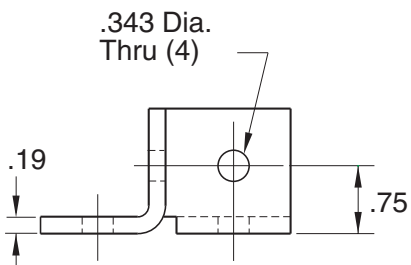
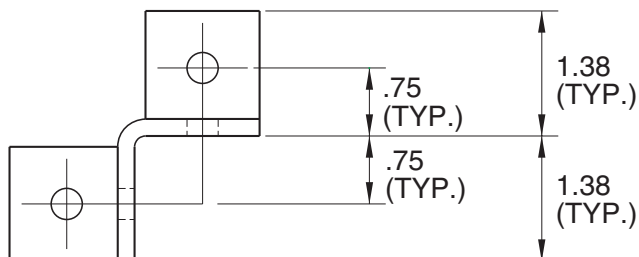
5/16" SLOTS



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



Material - Aluminum
Finish - Clear Anodize



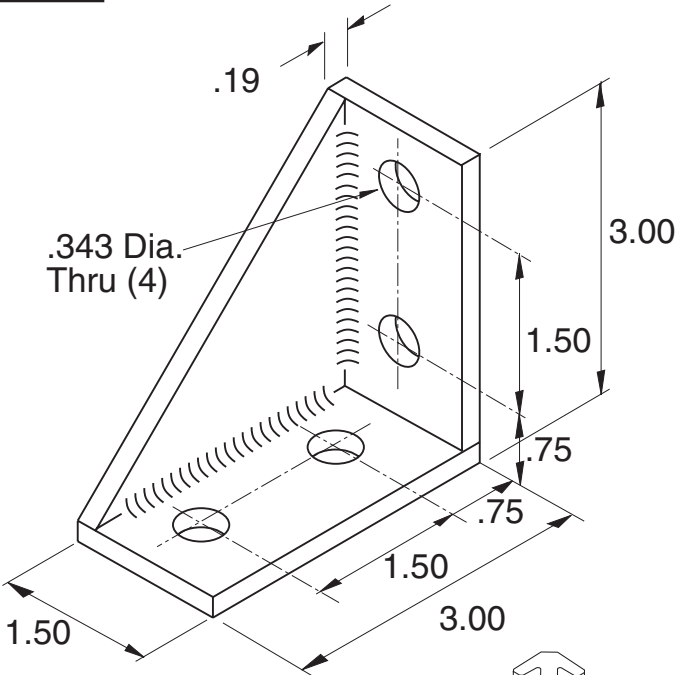
**Recommended
Hardware**
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Steel
Finish - Zinc Plated

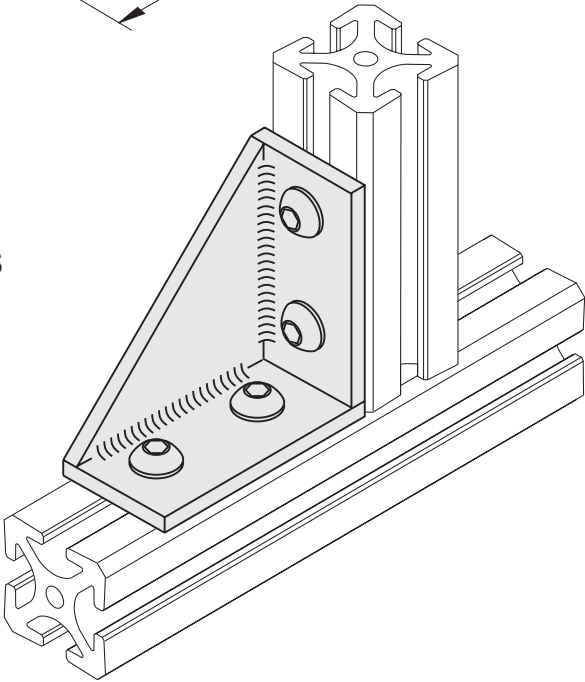
5/16" SLOTS

EB-16

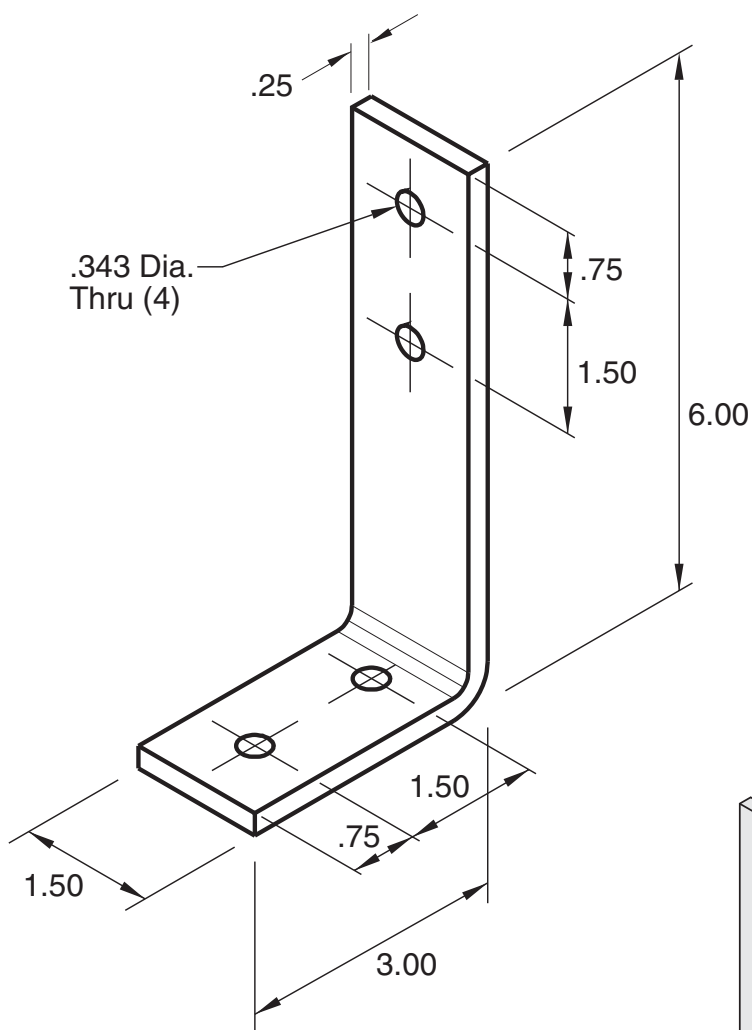
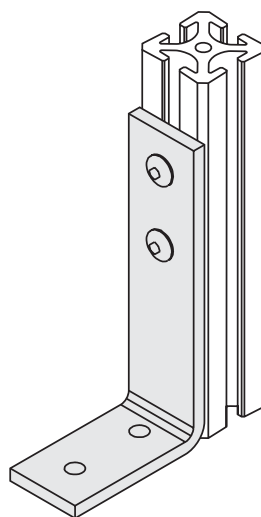
5/16" SLOTS



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



Material - Steel
Finish - Black Powder Coat


5/16" SLOTS


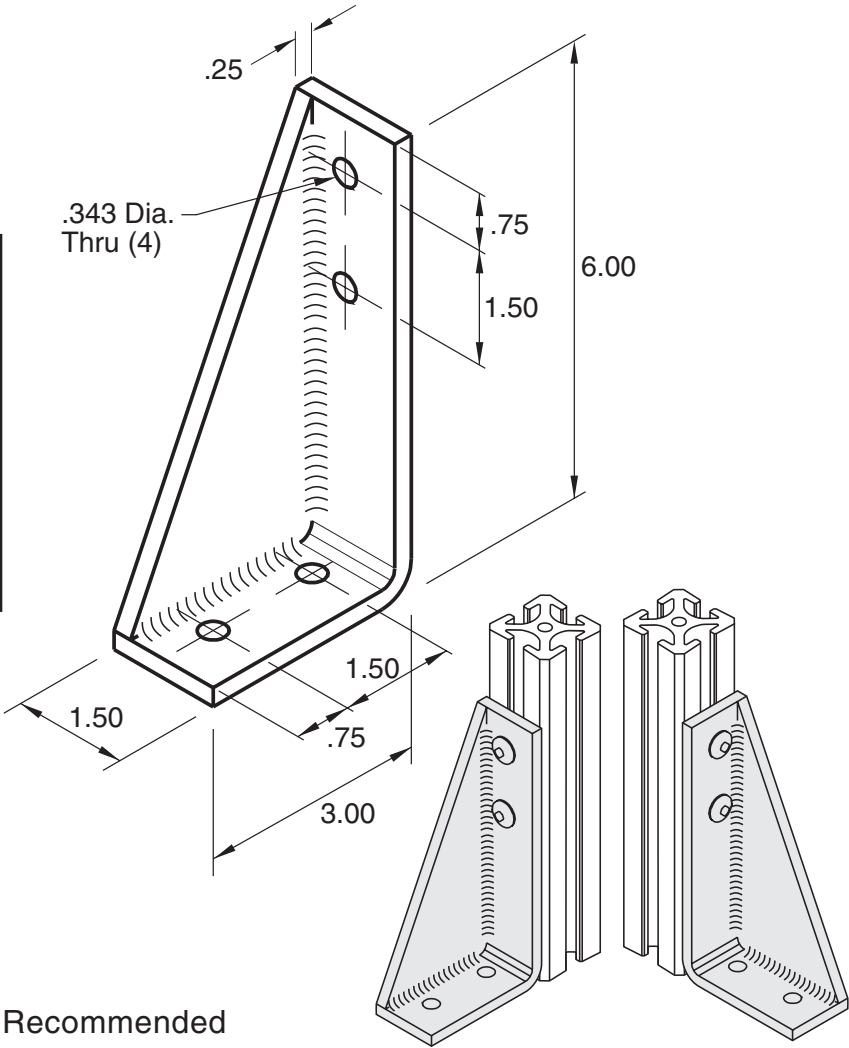
Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Steel
Finish - Black Powder Coat

EB-15

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

5/16" SLOTS

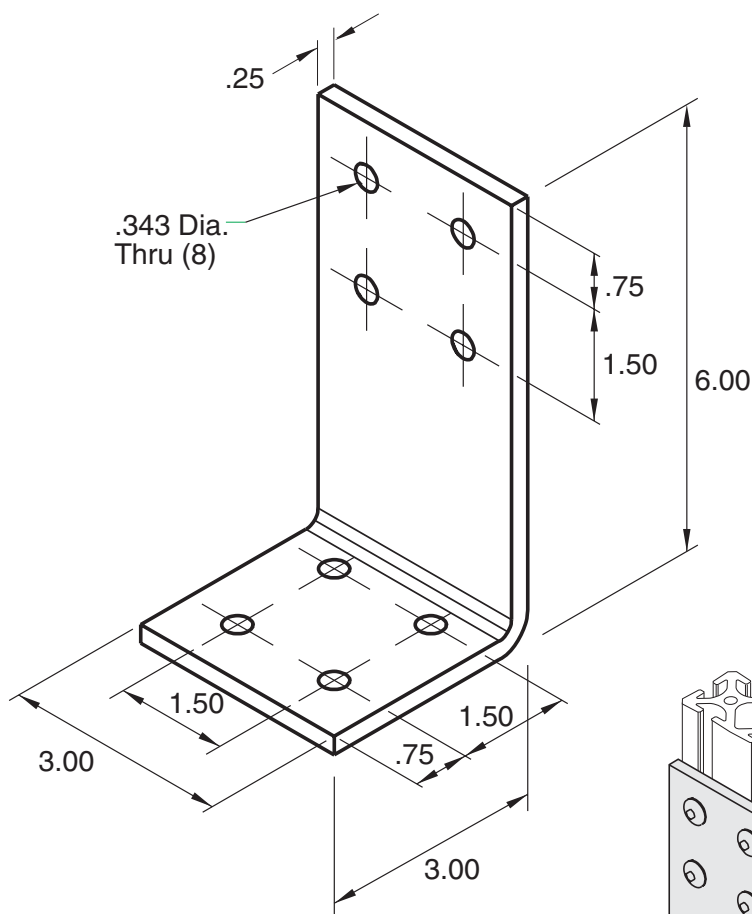


Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

**EB-15LH
(left hand)**

**EB-15RH
(right hand)**

Material - Steel
Finish - Black Powder Coat

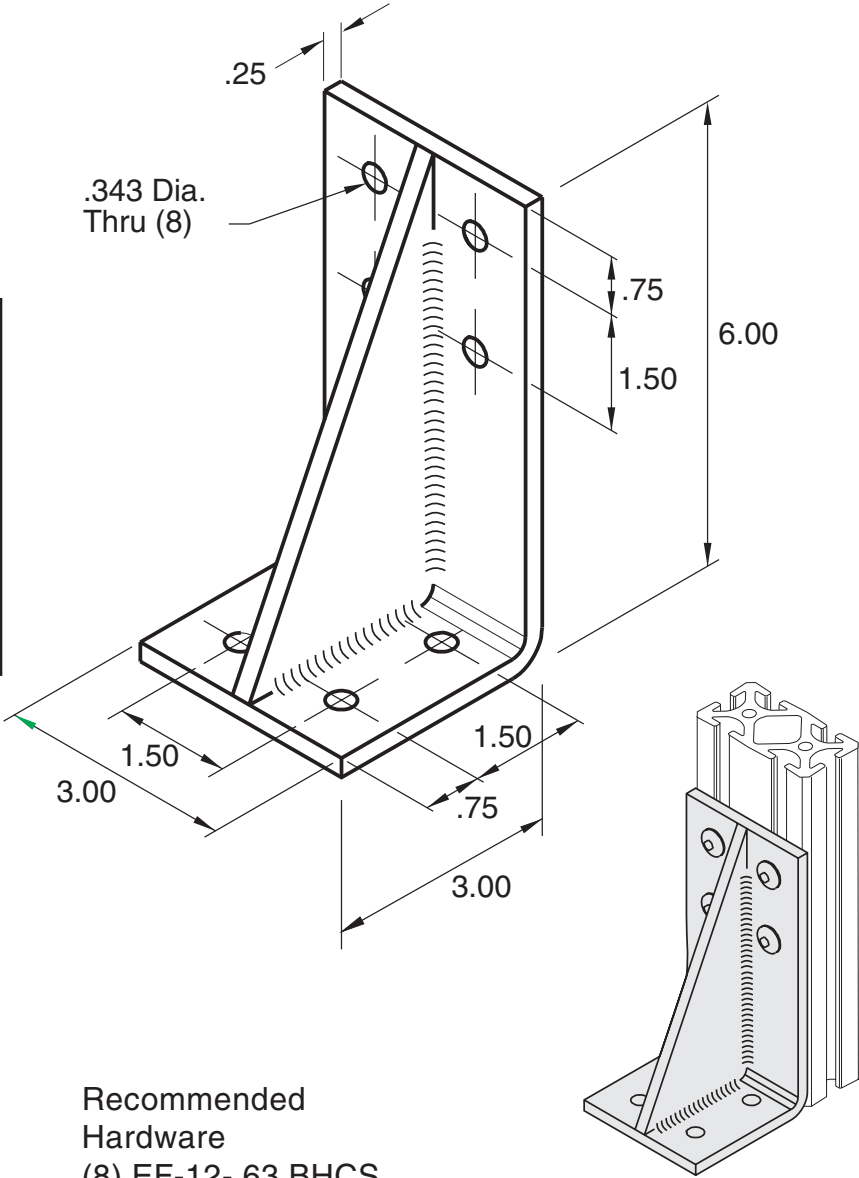

5/16" SLOTS

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

Material - Steel
Finish - Black Powder Coat

EB-14G

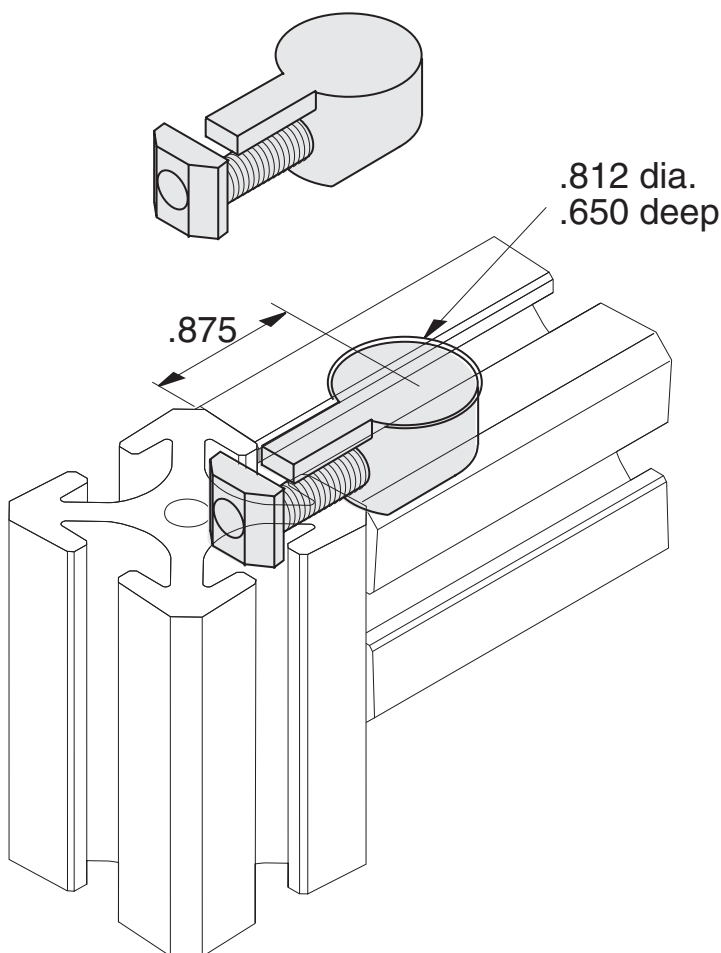
5/16" SLOTS



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

Material - Steel
Finish - Black Powder Coat

with Hardware
without Hardware

EF-62**EF-62P****5/16" SLOTS****Material:**

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

Double Anchor Fastener

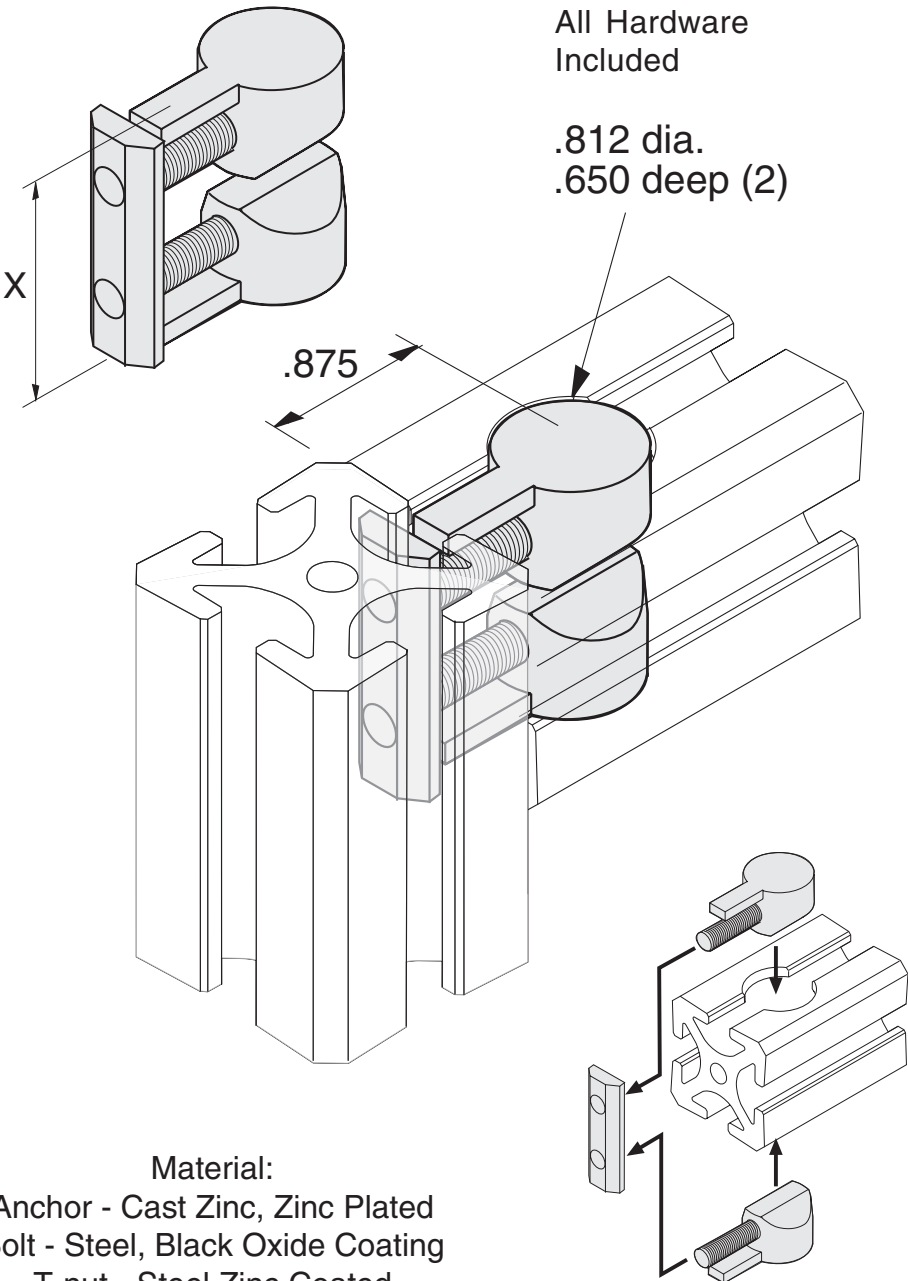


| |
|-------|
| EF-63 |
| EF-64 |

X = 1.50 in.

X = 3.0 in.

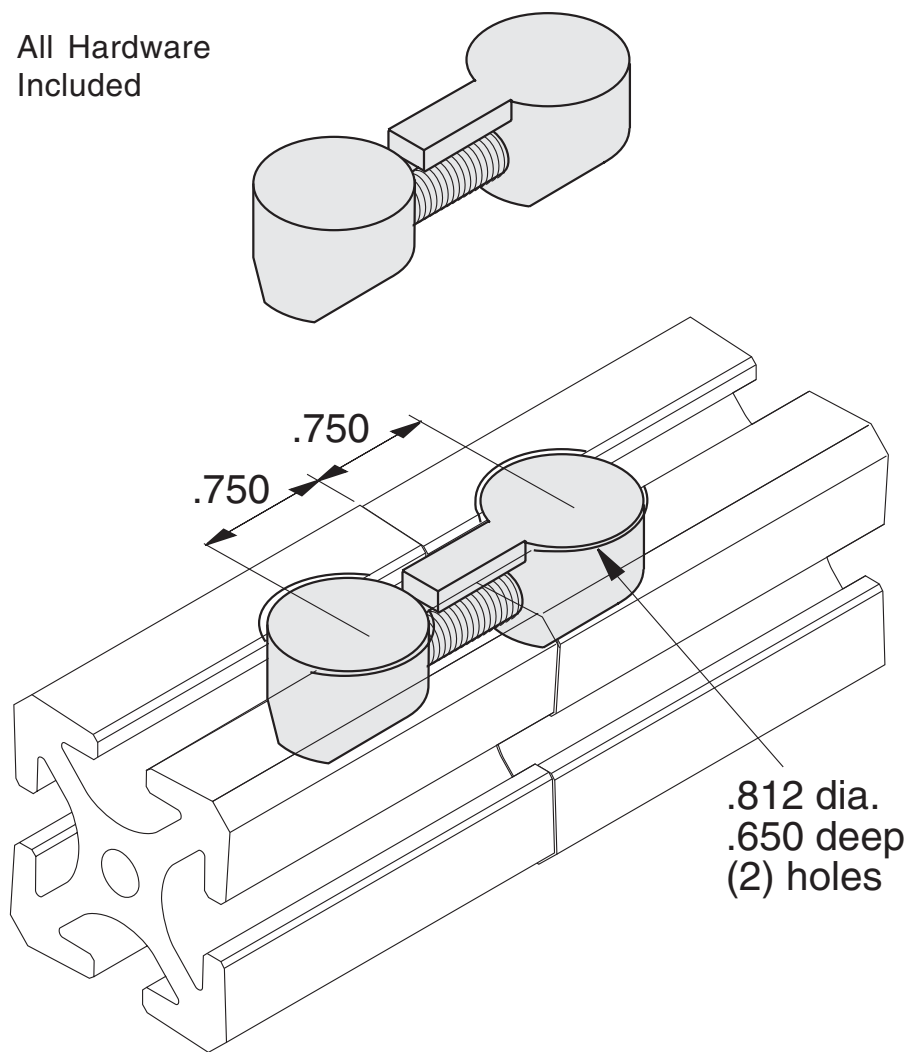
5/16" SLOTS



Material:

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

All Hardware
Included



5/16" SLOTS

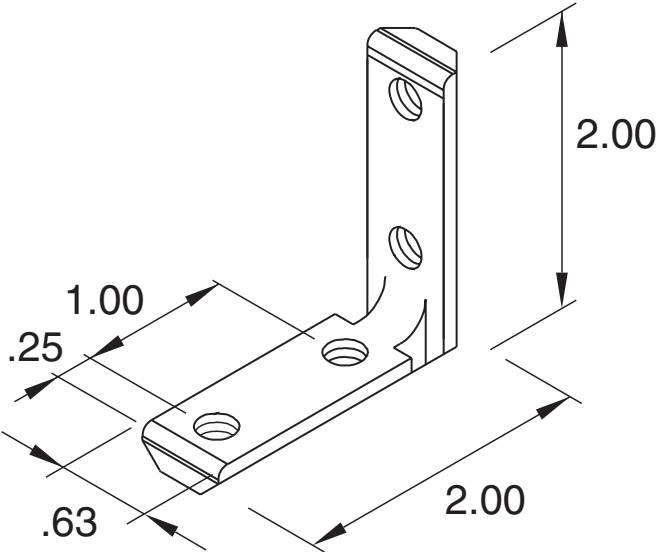
Material:
Anchor - Cast Zinc, Zinc Plated
Bolt - Steel, Black Oxide Coating
T-nut - Steel Zinc Coated

Internal Corner Bracket

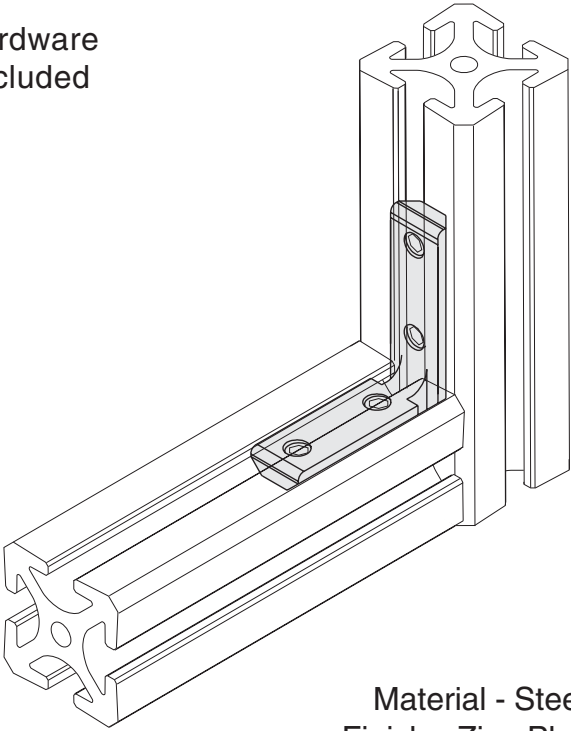


EF-27

5/16" SLOTS

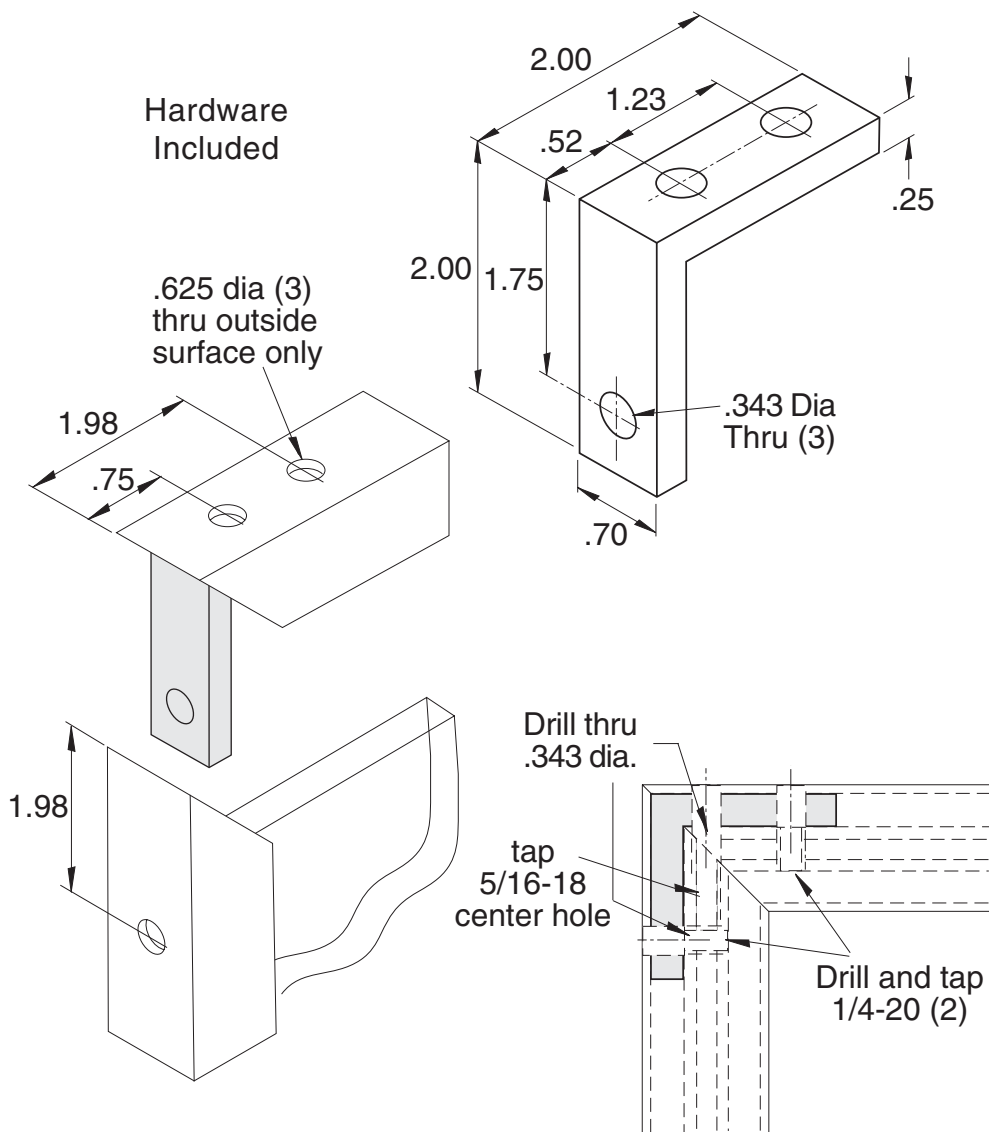


Hardware
Included



Material - Steel
Finish - Zinc Plated

Hardware
Included



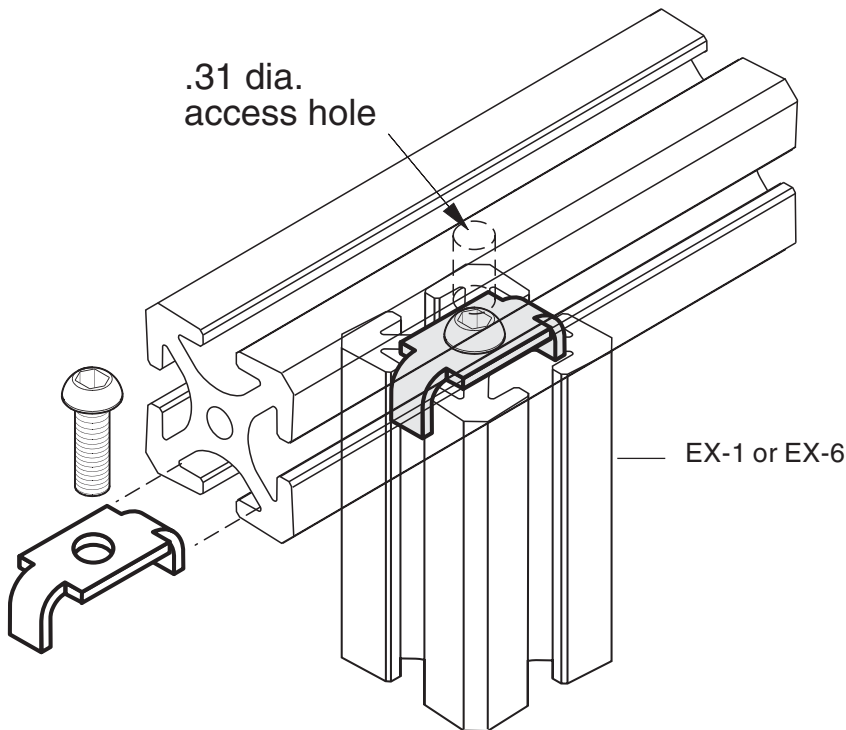
Note: This is the strongest
door corner available anywhere.

Material - Steel
Finish - Zinc Plated

| | |
|----------------|-------------------|
| EF-29 | zinc plated steel |
| EF-SS29 | stainless steel |



5/16" SLOTS



Requires (1) EF-12-1.0BHCS



zinc plated steel

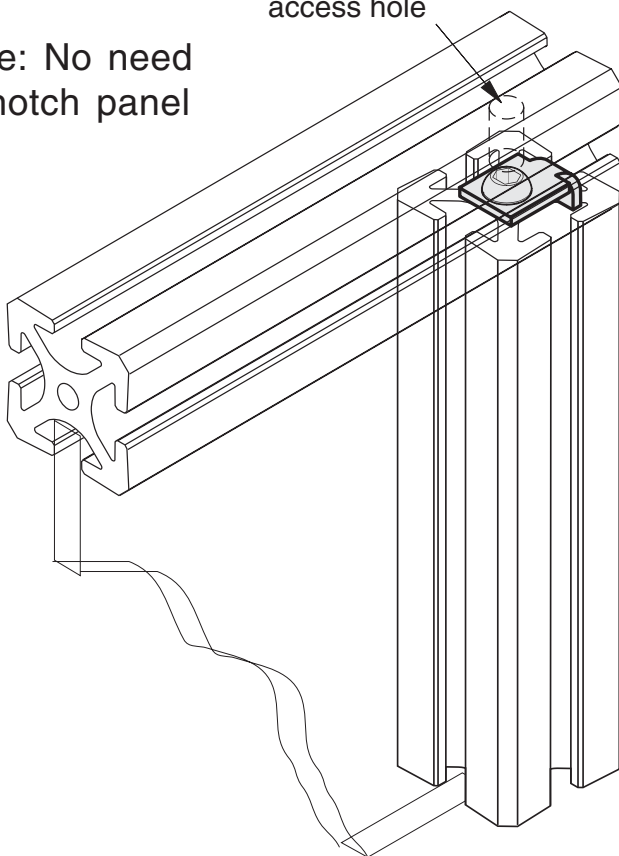
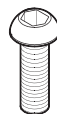
stainless steel

EF-29A

EF-SS29A

Note: No need
to notch panel

.31 dia.
access hole



EX-1 or EX-6

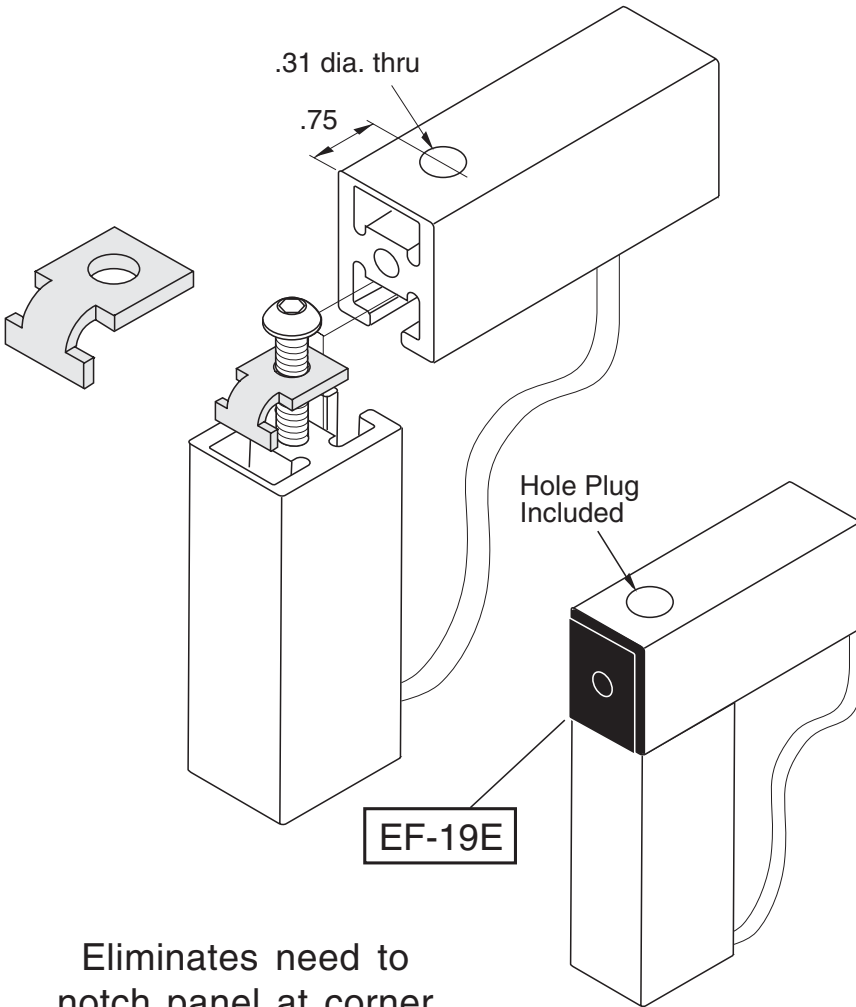
5/16" SLOTS

Requires (1) EF-12-1.0BHCS

EF-29B

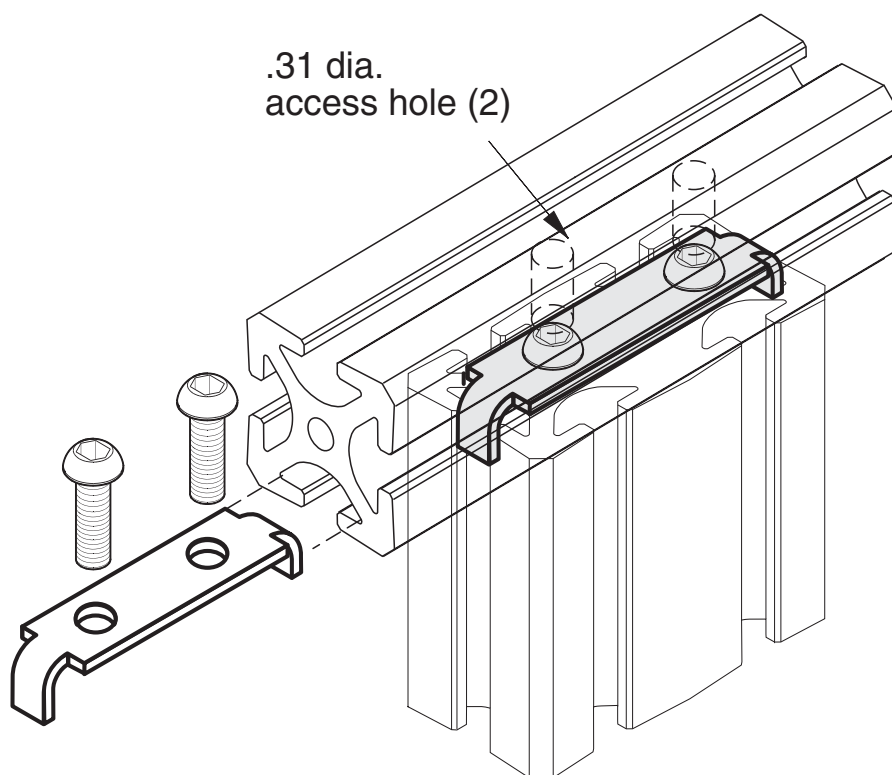
Use with *SMOOTH-Series* profiles
EX-52, EX-54, EX-61, EX-63, EX-64, EX-65

5/16" SLOTS



Requires (1) EF-12-1.0 BHCS

Material - Steel
Finish - Zinc Plated

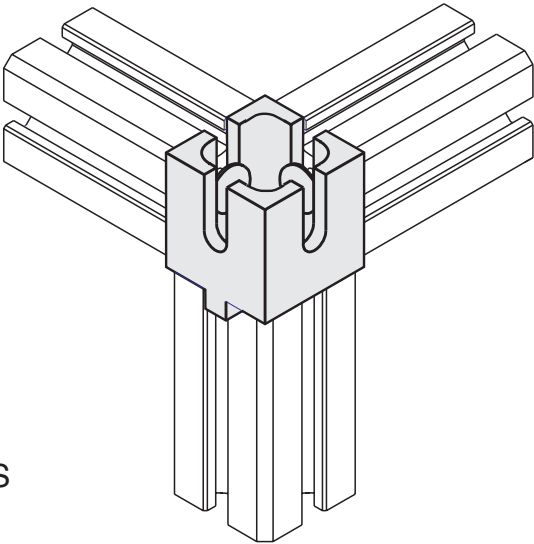
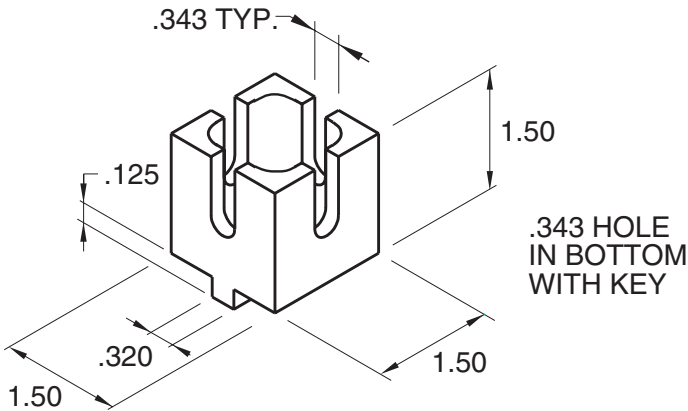
**5/16" SLOTS**

Requires (2) EF-12-1.0 BHCS

Material - Steel
Finish - Zinc Plated

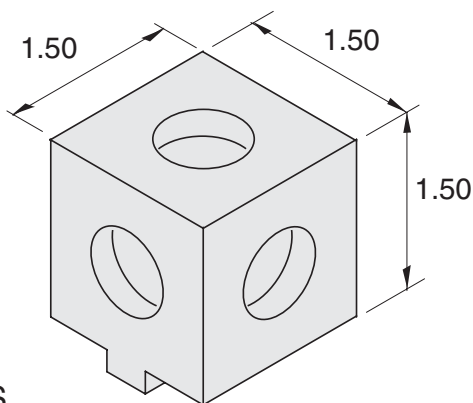
ECC

5/16" SLOTS



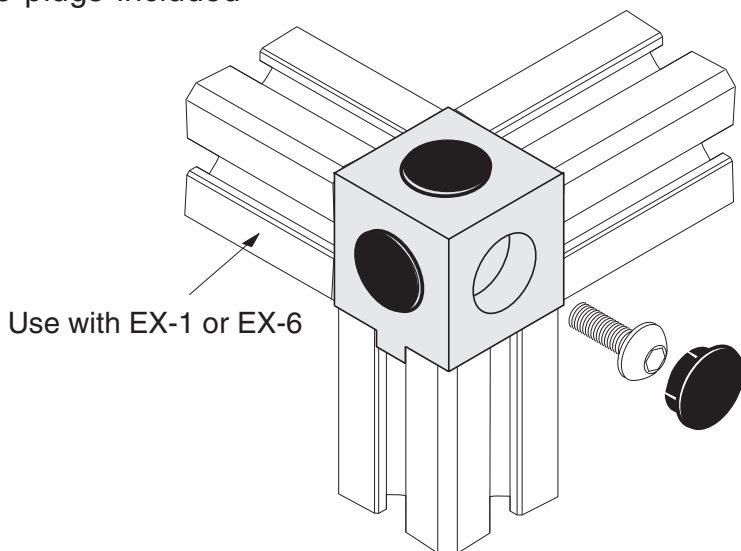
Requires
(3) EF-12-.75 BHCS

Material - Aluminum
Finish - Clear Anodize



Requires
(3) EF-12-.75 BHCS

Hole plugs included

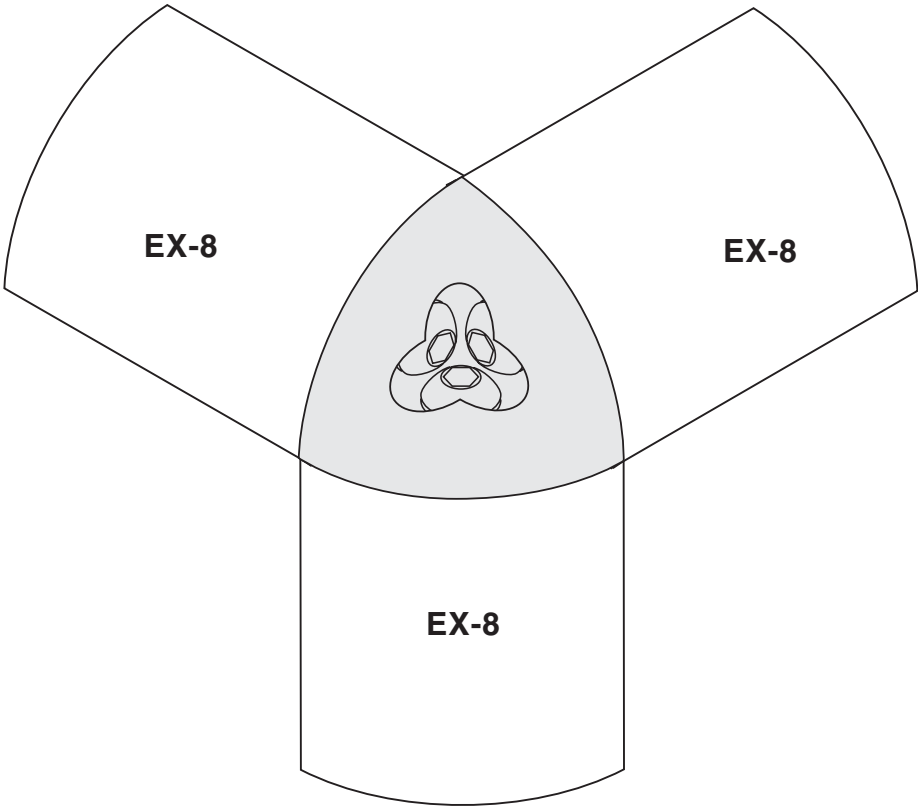


Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

EB-52

5/16" SLOTS

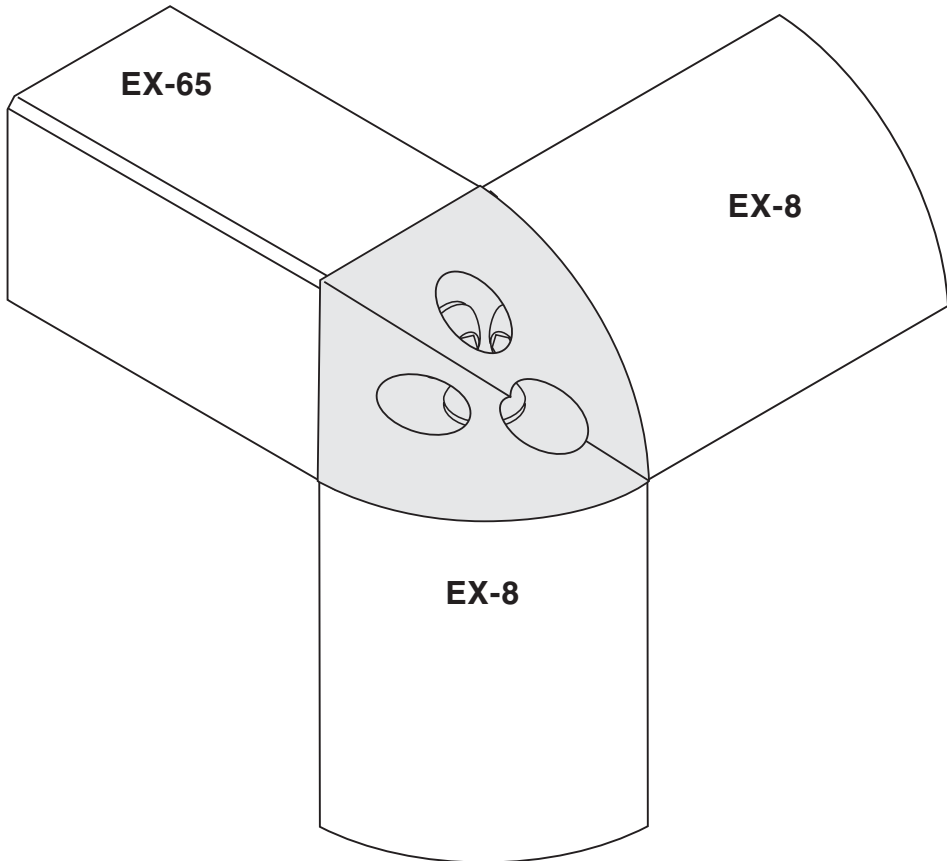


Hardware Included

Material - Aluminum
Finish - Clear Anodize



Castle Corner 1.5 x 1.5 Profiles

EB-53


Hardware Included

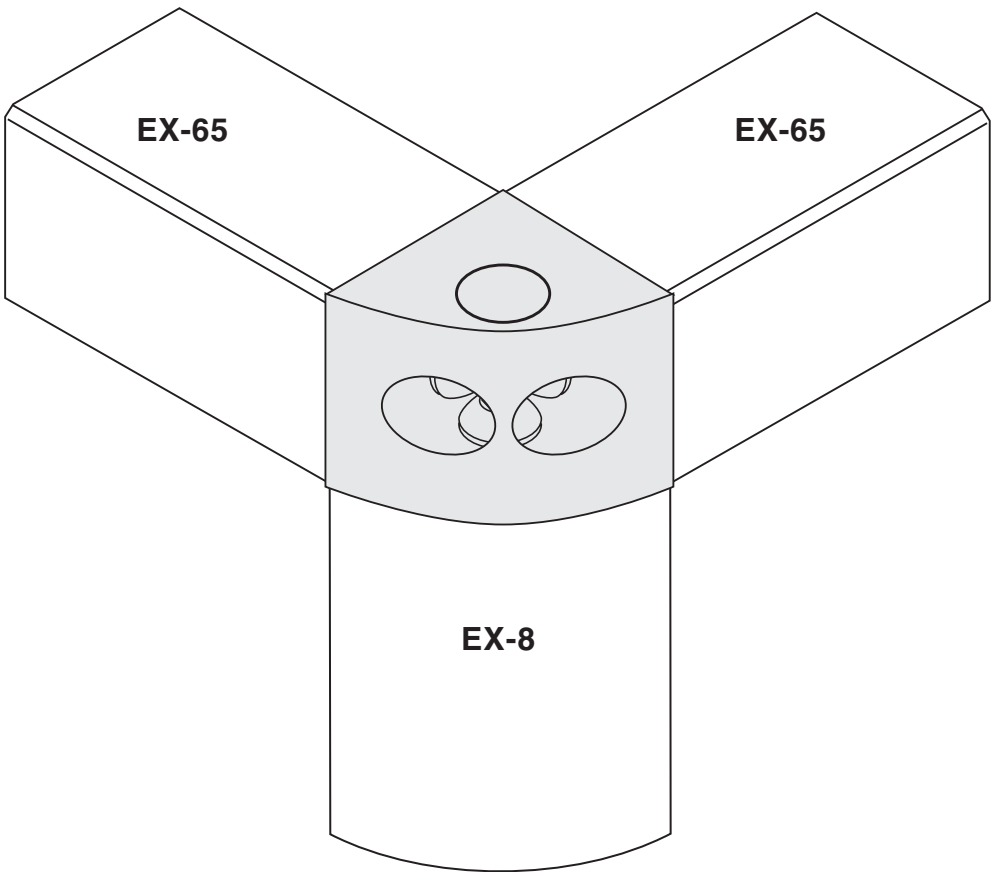
Material - Aluminum
Finish - Clear Anodize

Castle Corner 1.5 x 1.5 Profiles



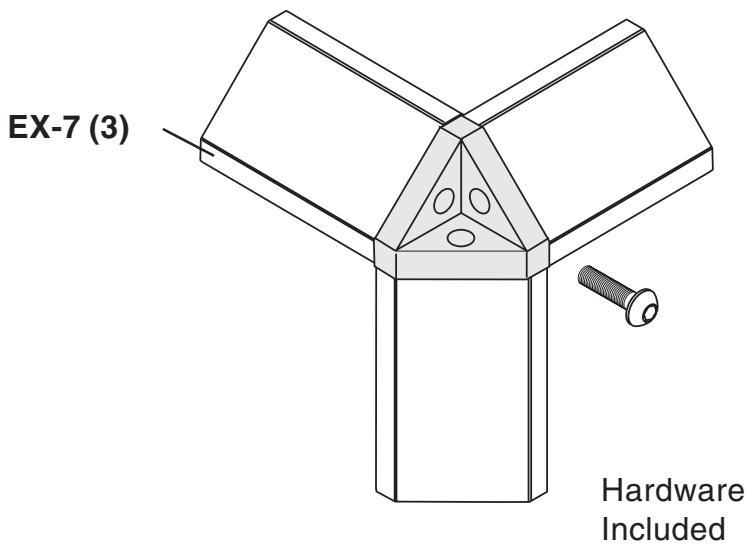
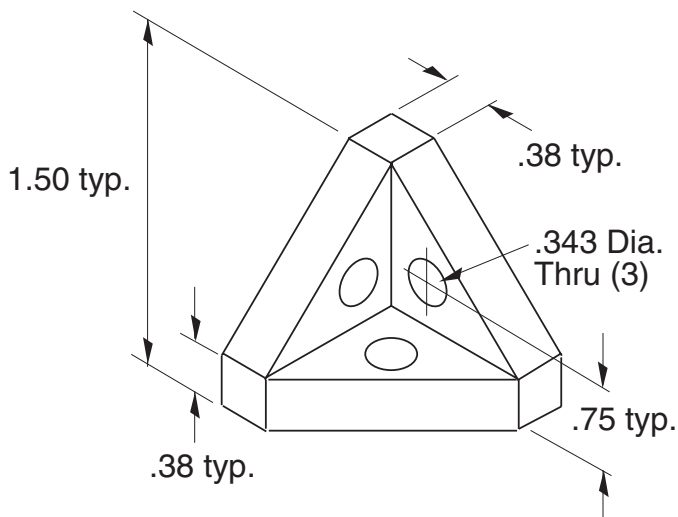
EB-54

5/16" SLOTS



Hardware Included

**Material - Aluminum
Finish - Clear Anodize**

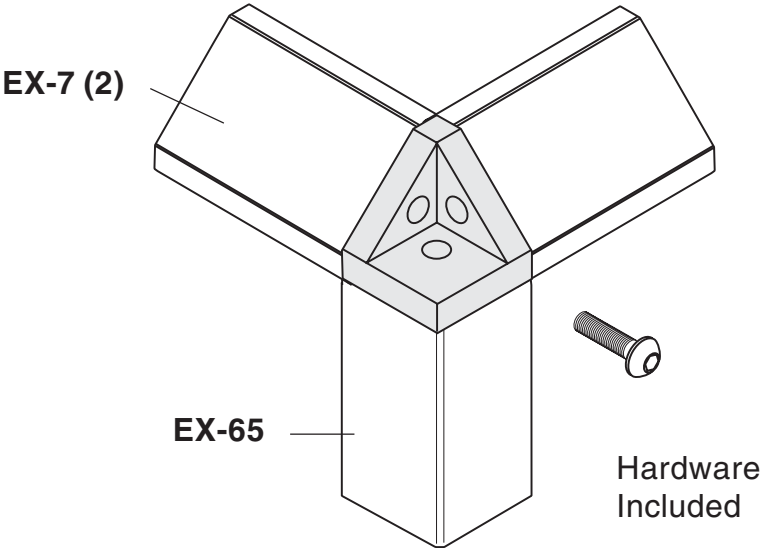
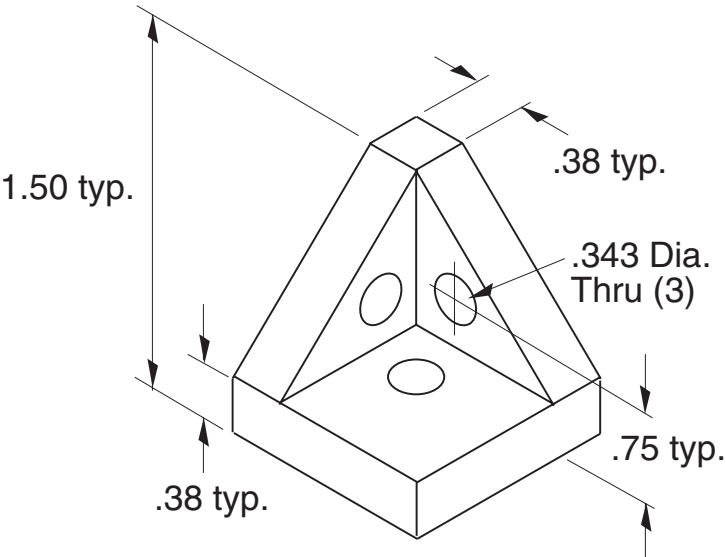


Material - Aluminum
Finish - Clear Anodize

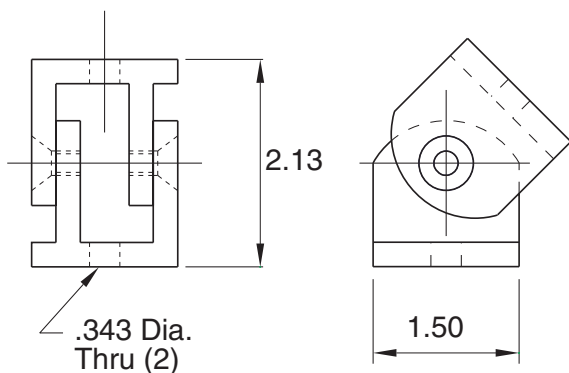
5/16" SLOTS

EB-51

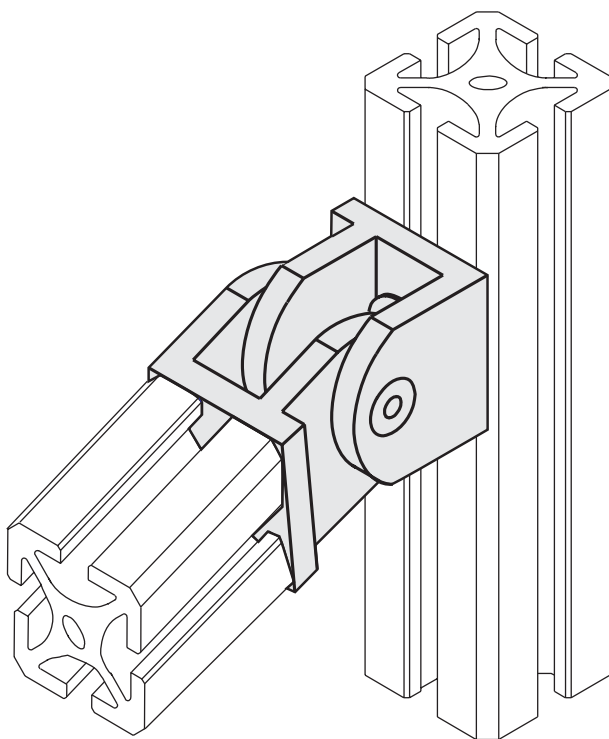
5/16" SLOTS



Material - Aluminum
Finish - Clear Anodize



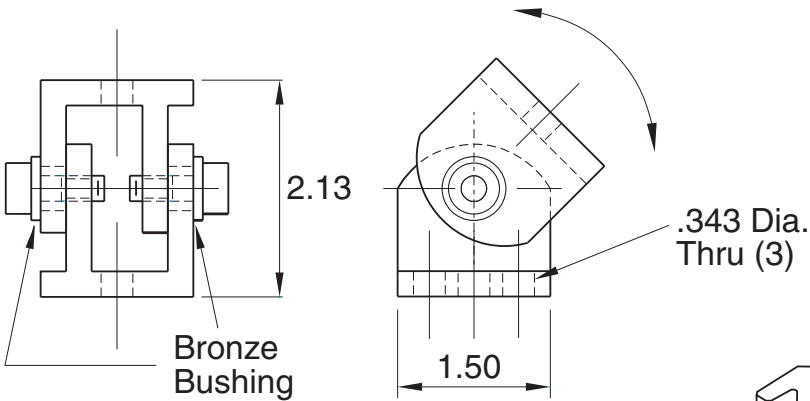
Requires
(2) EF-11-.63 SHCS
(1) EF-2 T-nut

**5/16" SLOTS**

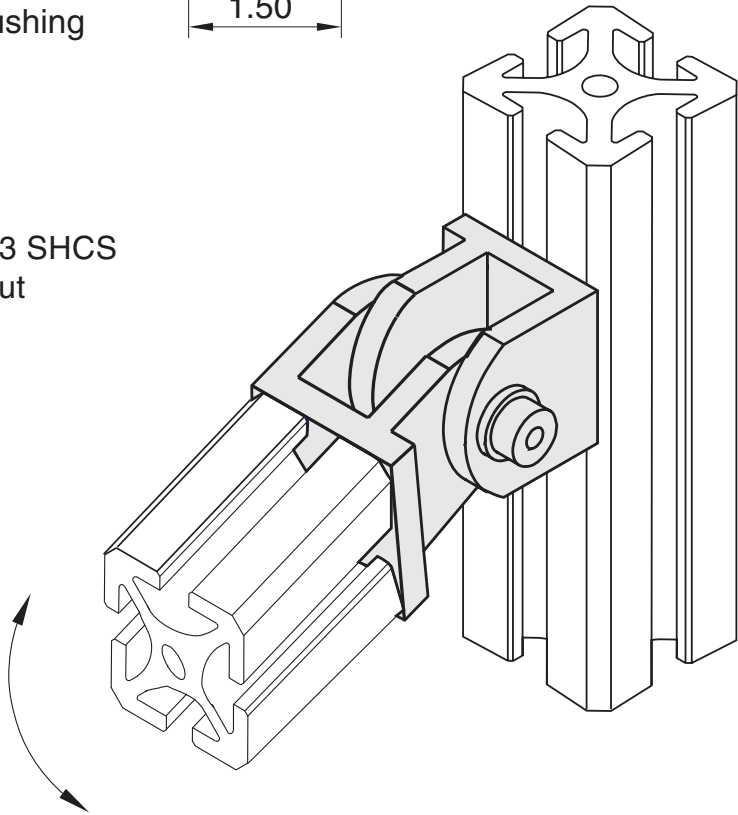
Material - Aluminum
Finish - Clear Anodize

EB-13P

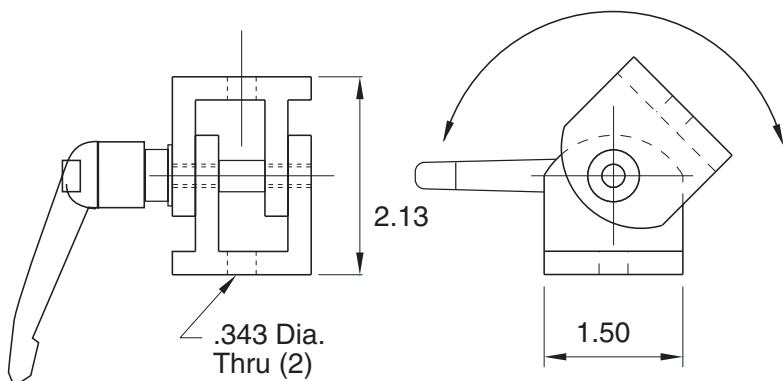
5/16" SLOTS



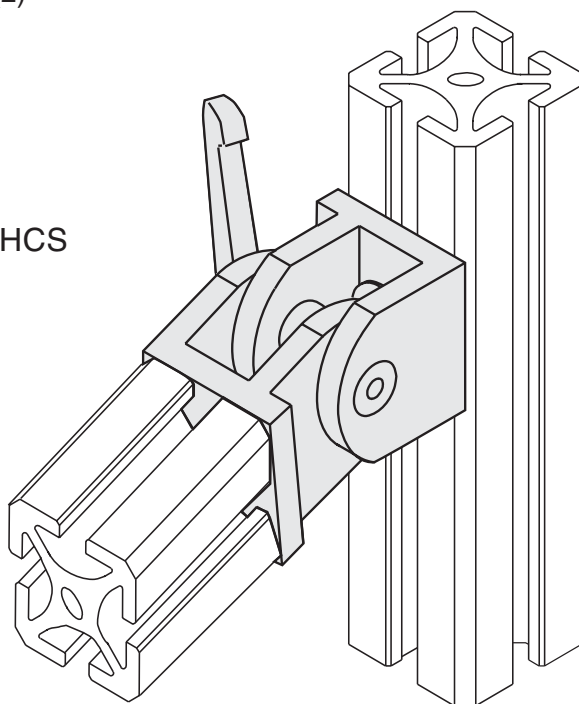
Requires
(2) EF-11-.63 SHCS
(1) EF-2 T-nut



Material - Aluminum
Finish - Clear Anodize



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

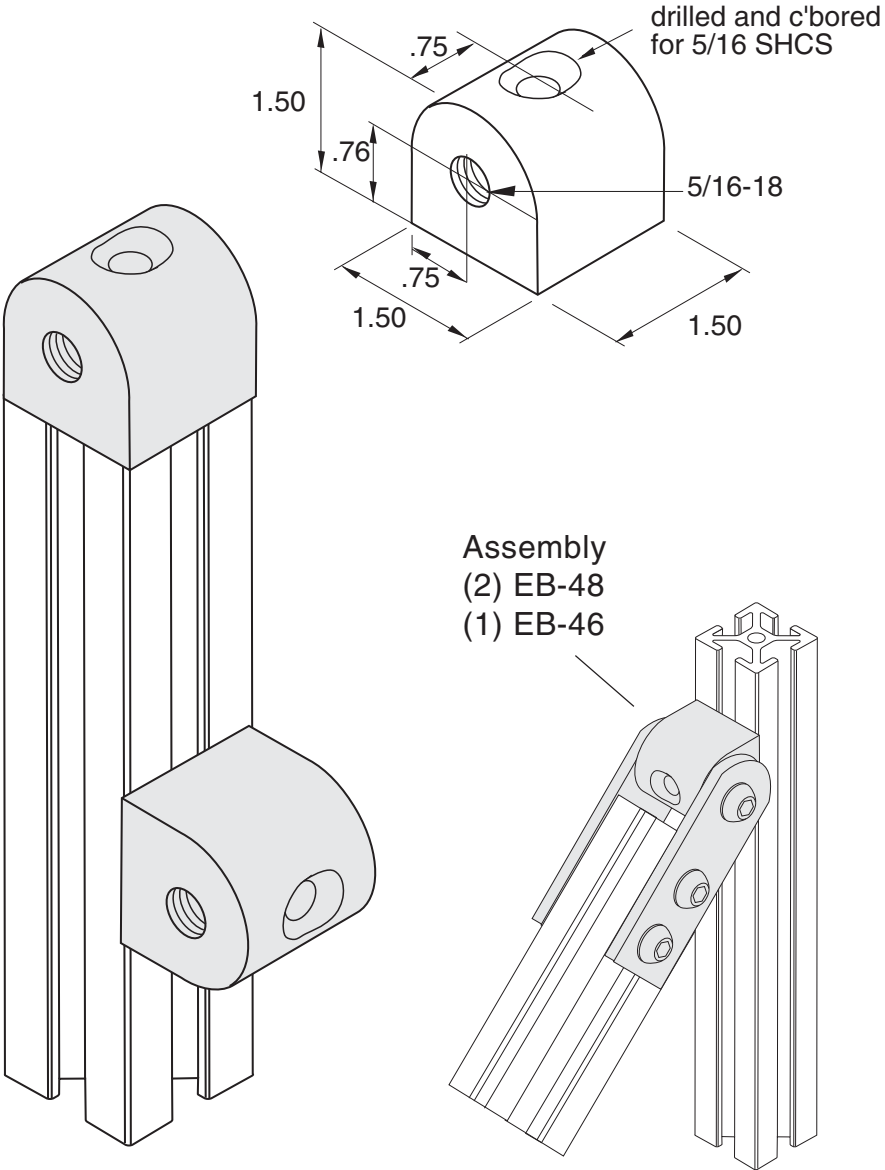


5/16" SLOTS

Material - Aluminum
Finish - Clear Anodize

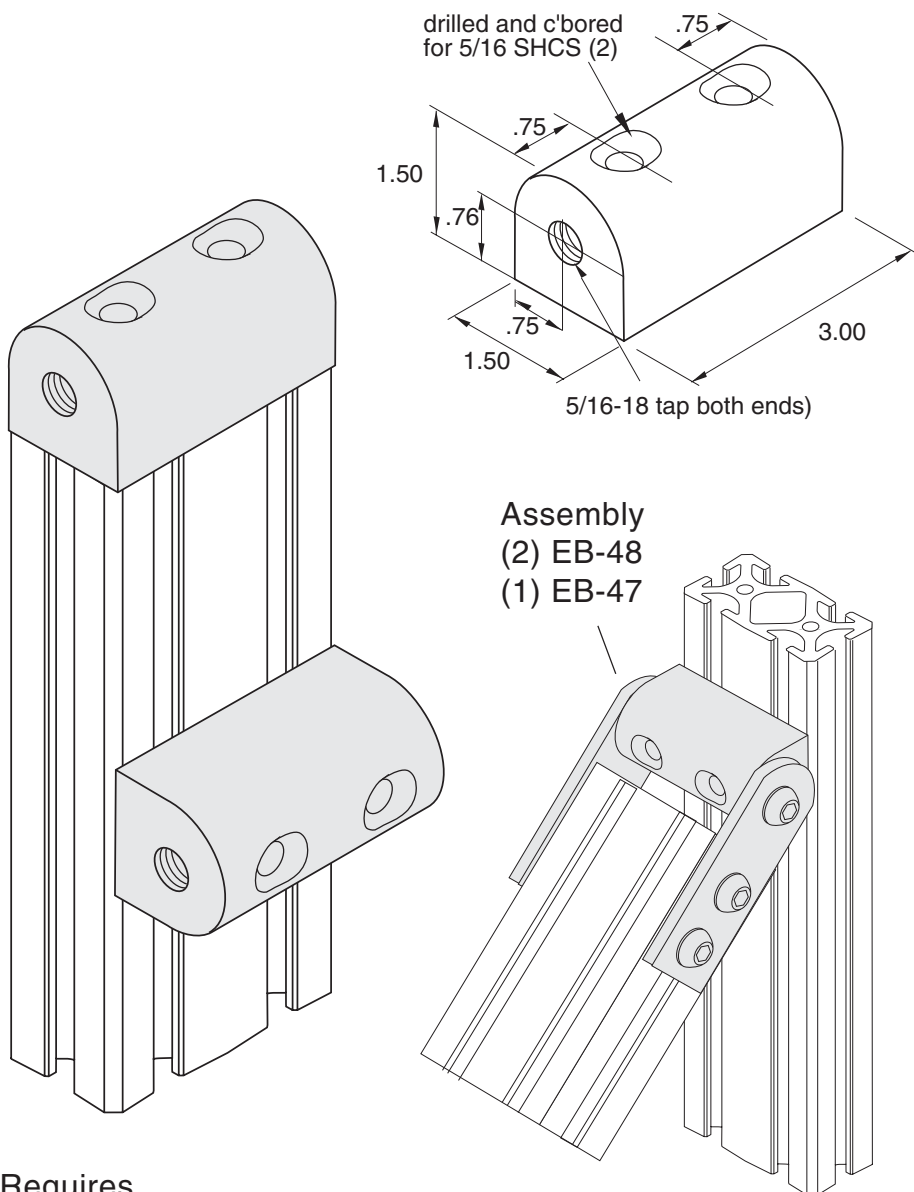
EB-46

5/16" SLOTS



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

Material - Aluminum
Finish - Clear Anodize



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

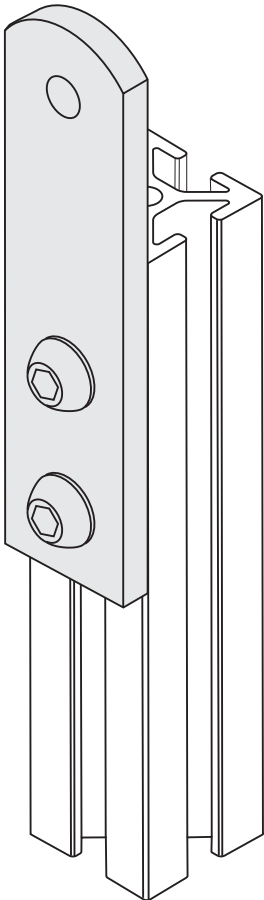
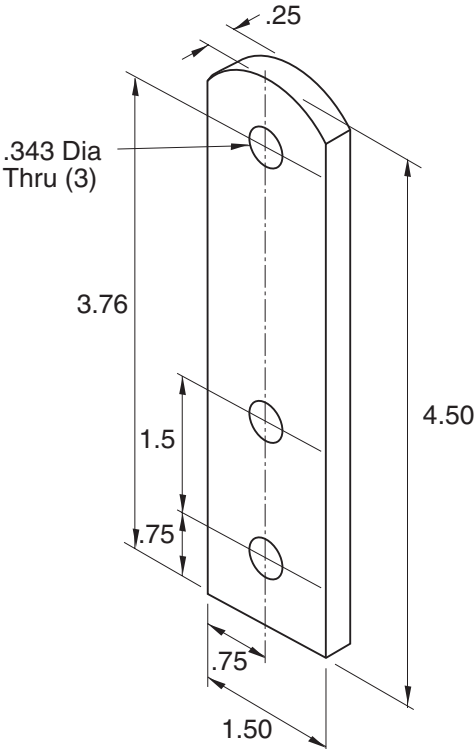
Material - Aluminum
Finish - Clear Anodize

Adjustable Arm Post

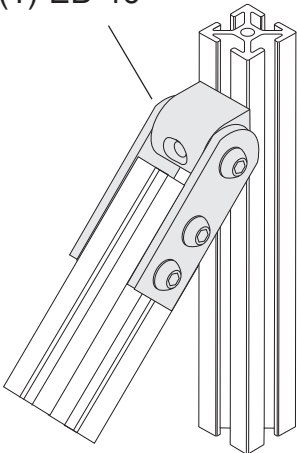


EB-48 use with EB-46 & EB-47

5/16" SLOTS



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



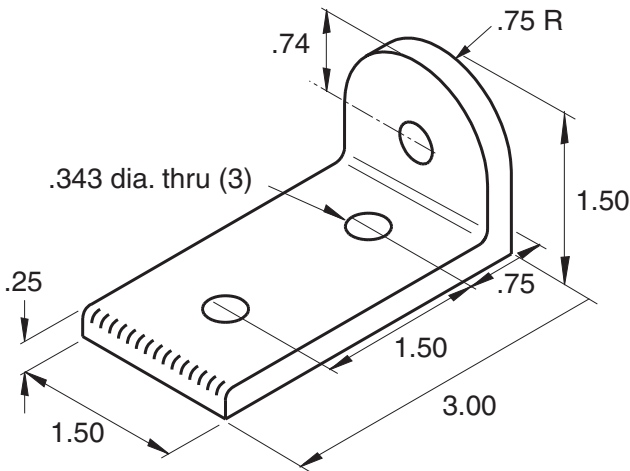
Requires
(3) EF-12-.63 BHCS
(2) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



Adjustable Post Angle

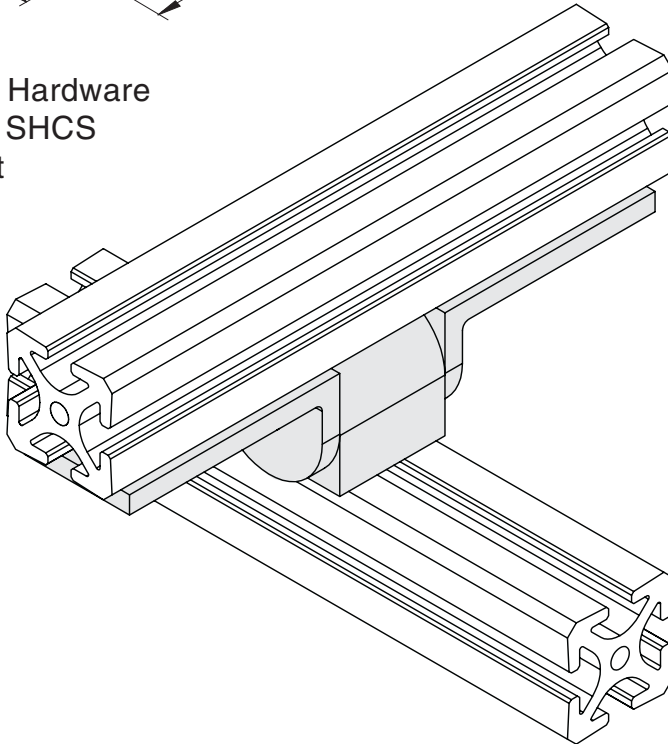
Use with EB-46, EB-47

EB-66

Recommended Hardware

(3) EF-12-.63 SHCS

(2) EF-2 T-nut



5/16" SLOTS

Material - Aluminum
Finish - Clear Anodize

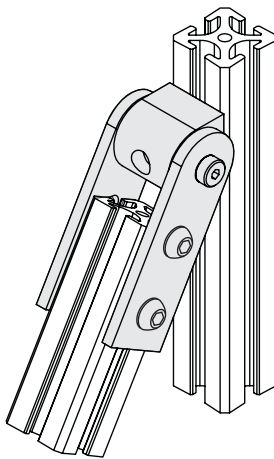
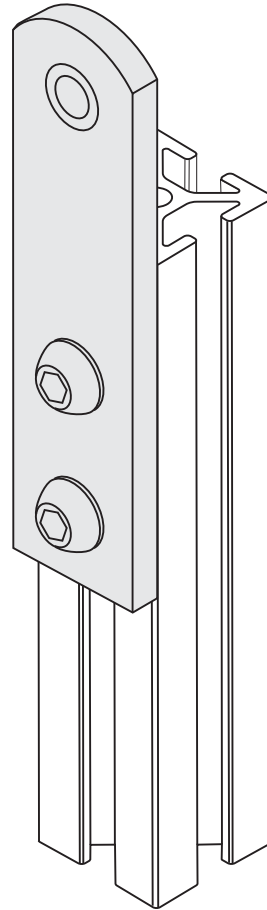
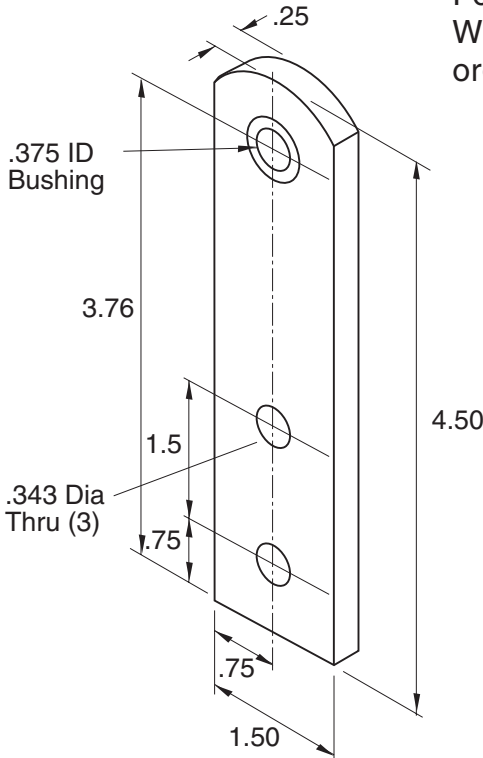
Pivoting Post Arm with Bushing



EB-65

Use with EB-68, EB-69

For Shoulder Bolt and Washer Assembly, 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

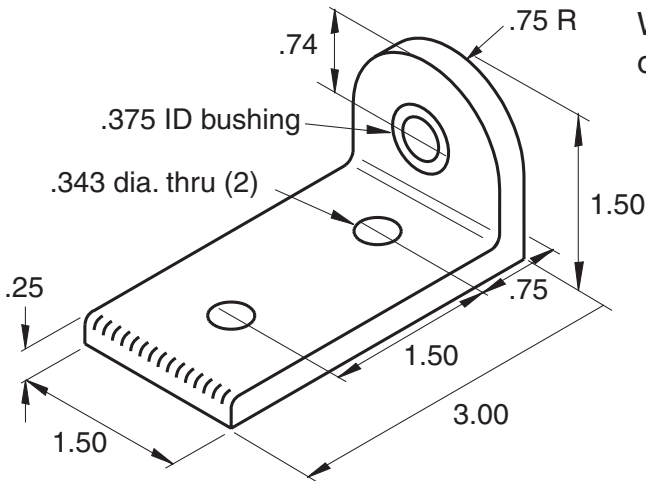


Pivoting Post Angle with Bushing

Use with EB-68, EB-69

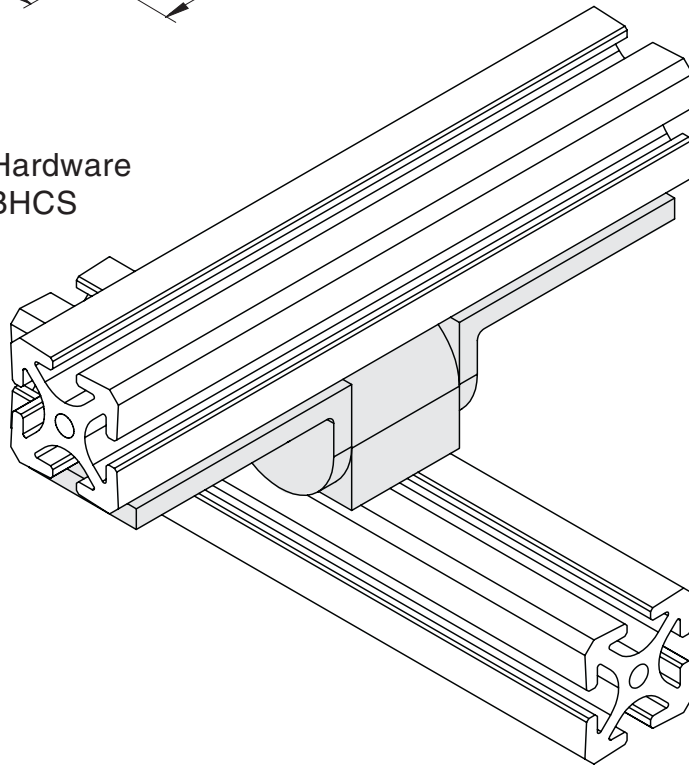
EB-67

For Shoulder
Bolt and
Washer Assembly,
order (1) EF-46



Recommended Hardware

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



5/16" SLOTS

Material - Aluminum
Finish - Clear Anodize

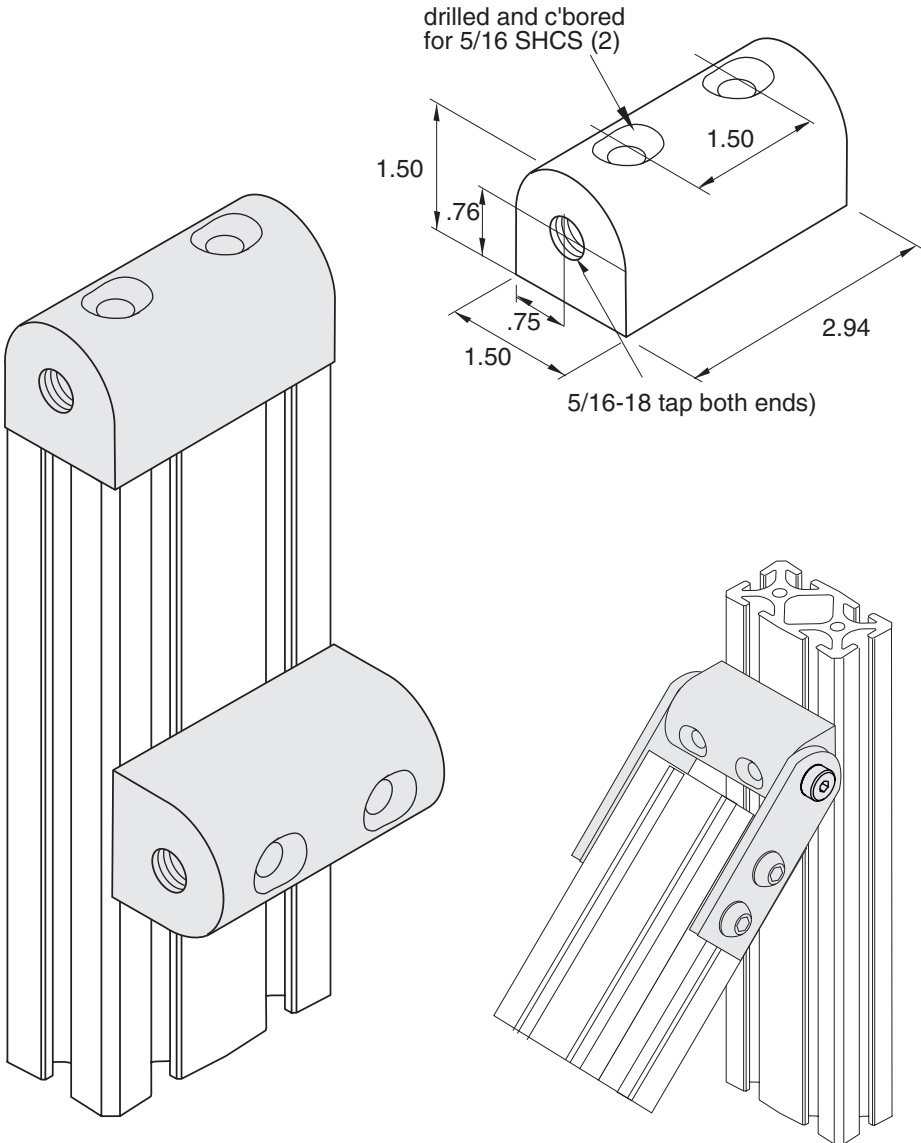
Pivoting Corner Post



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

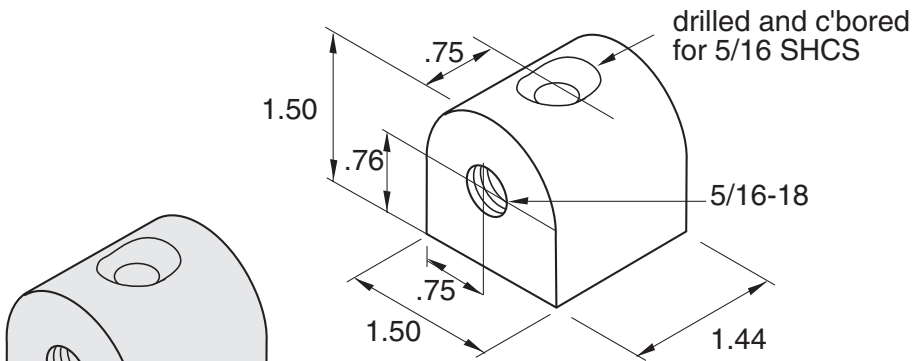
Material - Aluminum
Finish - Clear Anodize



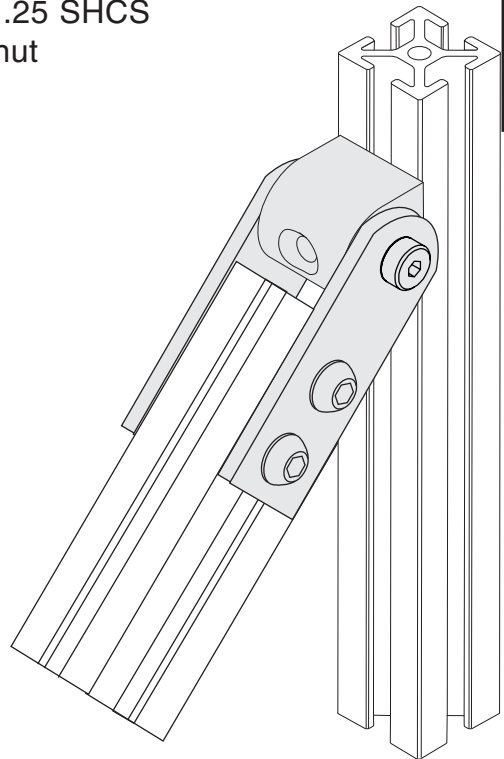
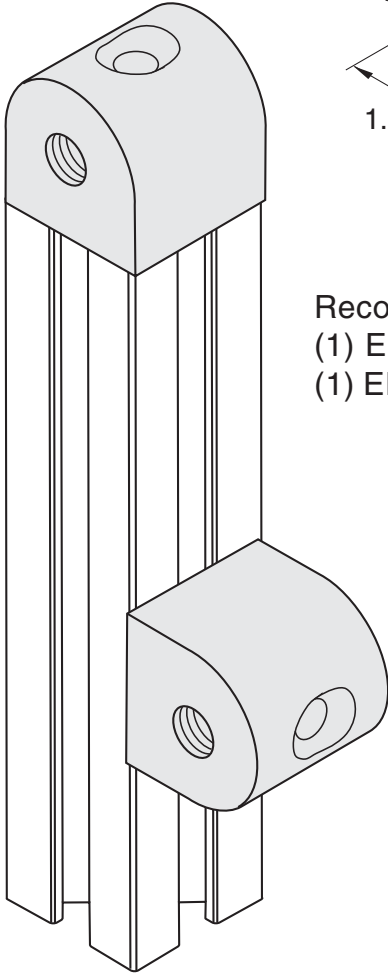
Pivoting Corner Post

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

EB-69



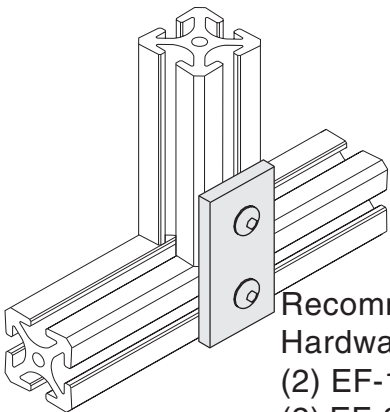
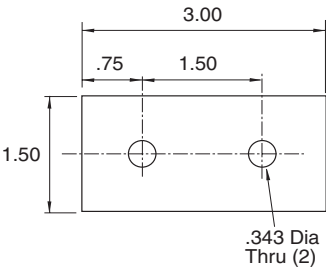
Recomended Hardware
 (1) EF-11-1.25 SHCS
 (1) EF-2 T-nut



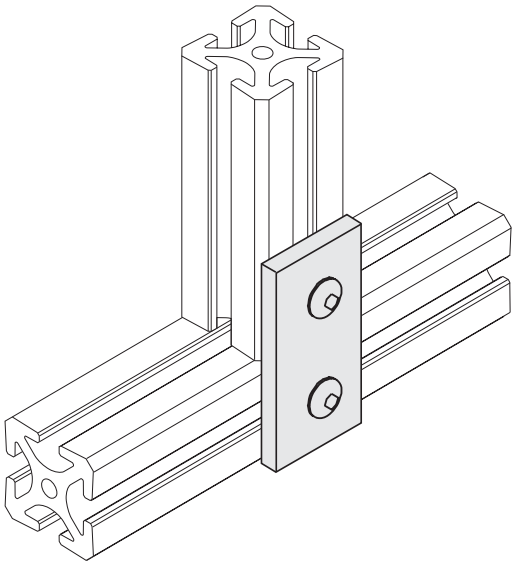
5/16" SLOTS

Material - Aluminum
Finish - Clear Anodize

EB-33

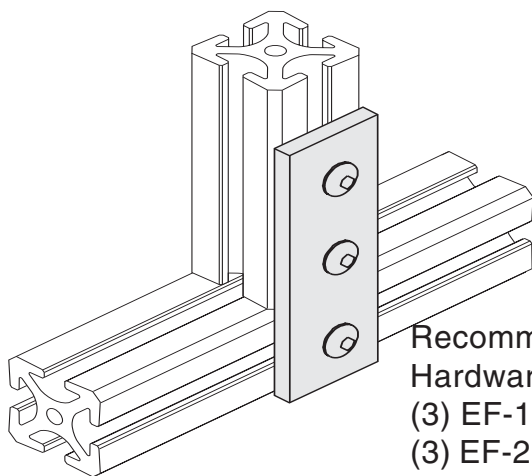
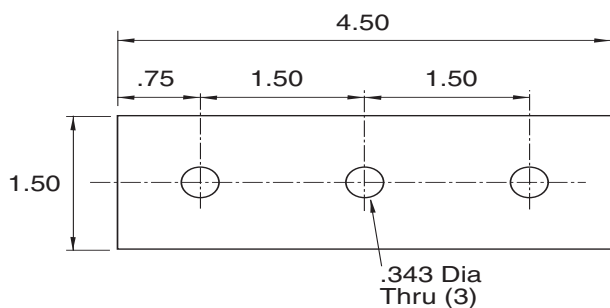


Recommended
Hardware
(2) EF-12-.63 BHCS
(2) EF-2 T-nut

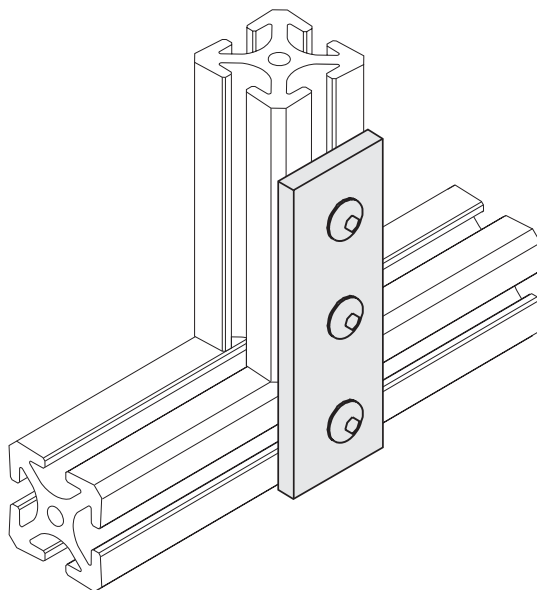


Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS



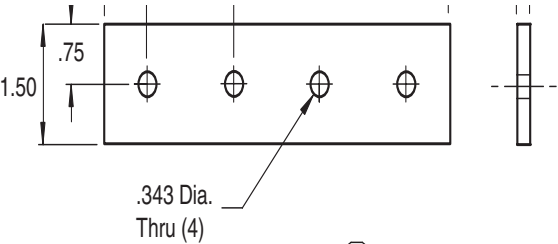
Recommended
Hardware
(3) EF-12-.63 BHCS
(3) EF-2 T-nut



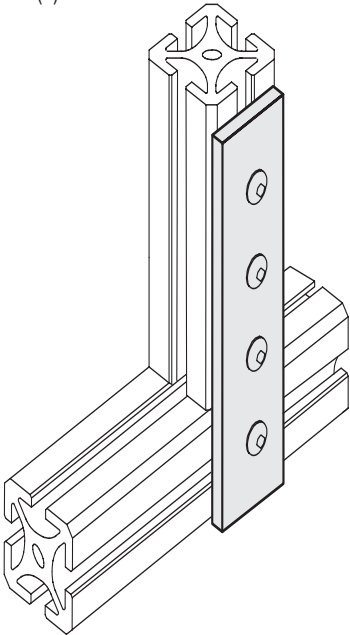
Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

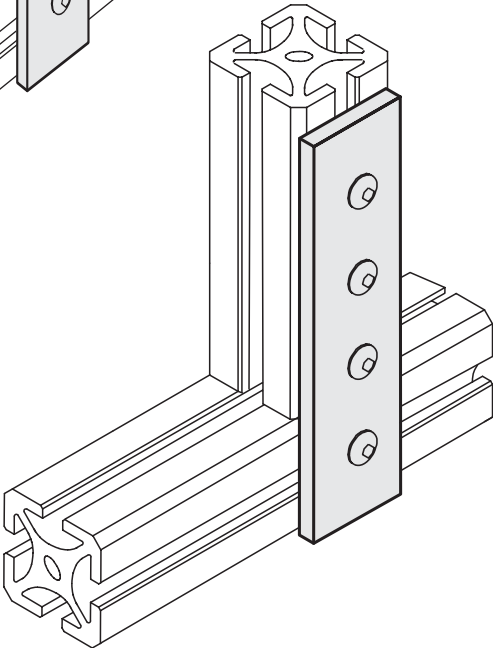
EB-28



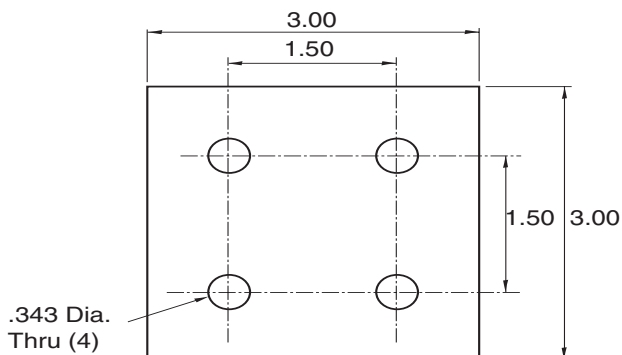
5/16" SLOTS



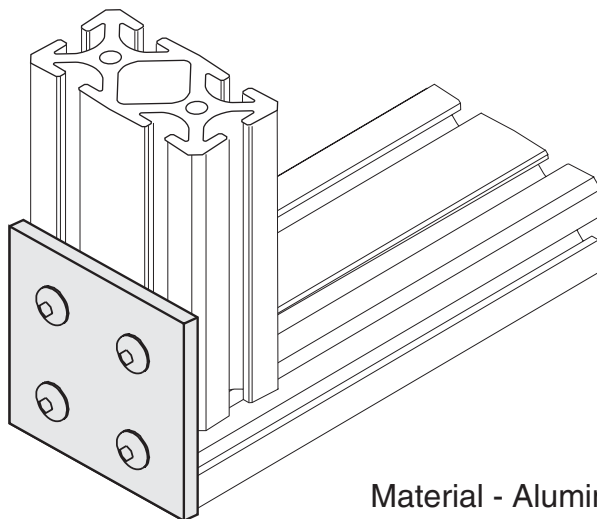
Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut



Material - Aluminum
Finish - Clear Anodize

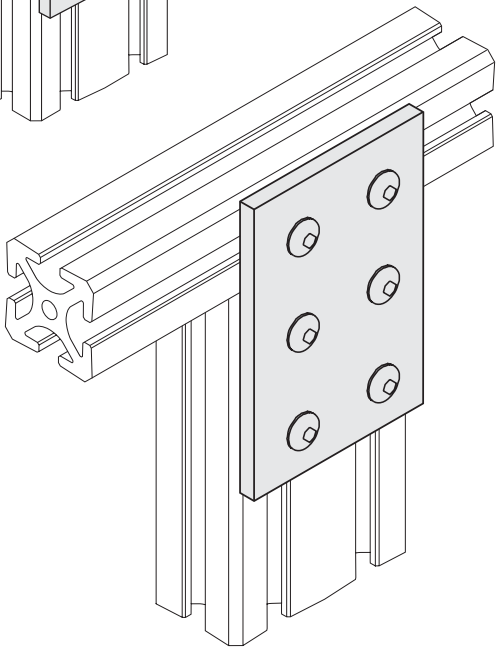
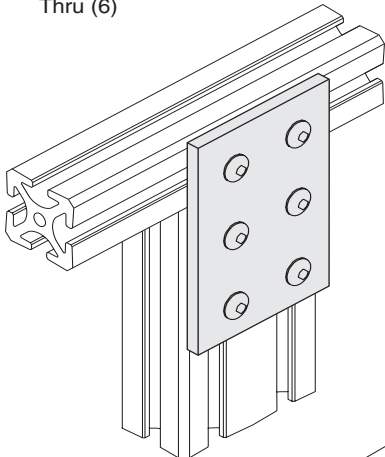
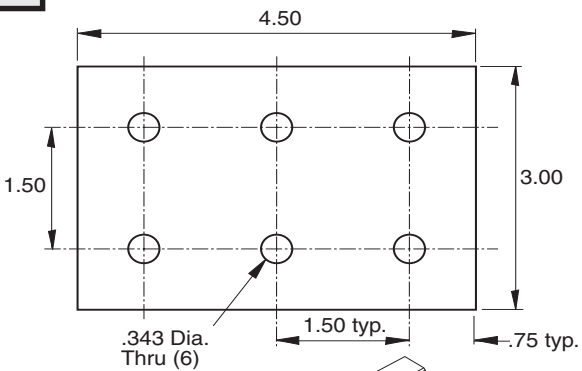


Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut



Material - Aluminum
Finish - Clear Anodize

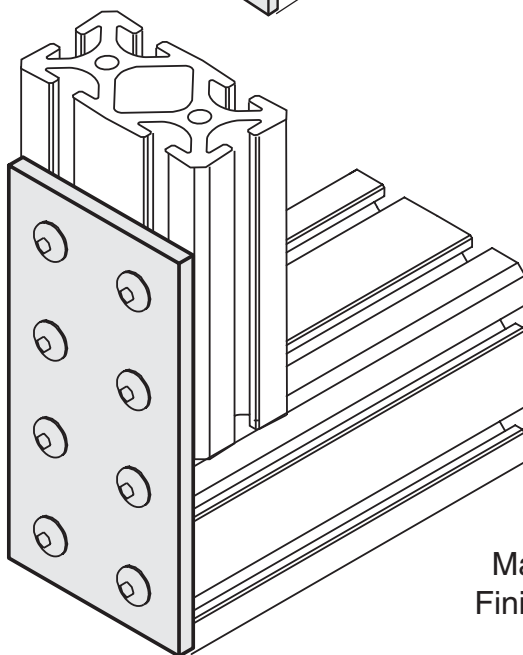
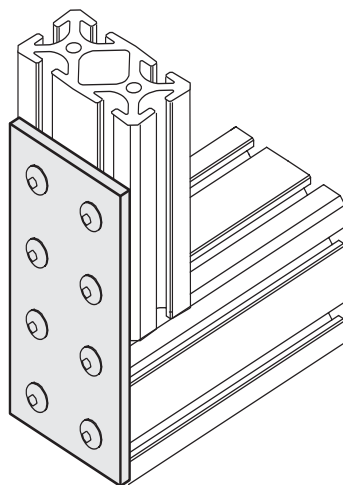
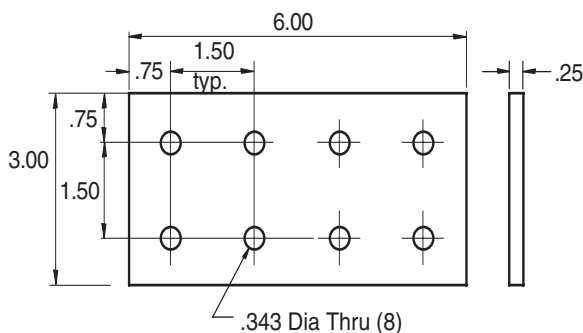
EB-32



5/16" SLOTS

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

Material - Aluminum
Finish - Clear Anodize



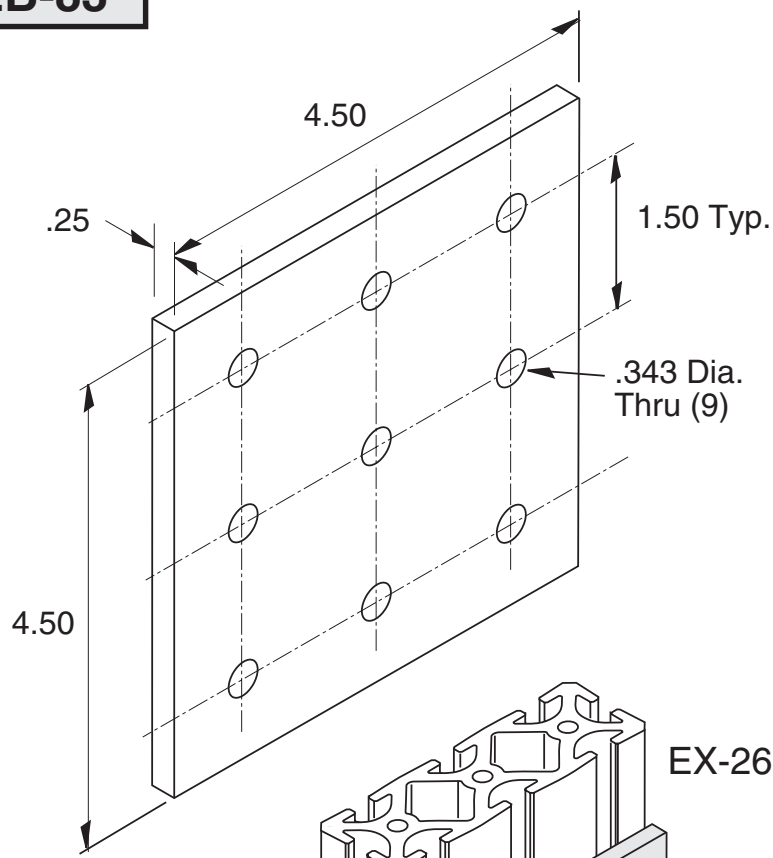
Recommended
Hardware
(8) EF-12- .63 BHCS
(8) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

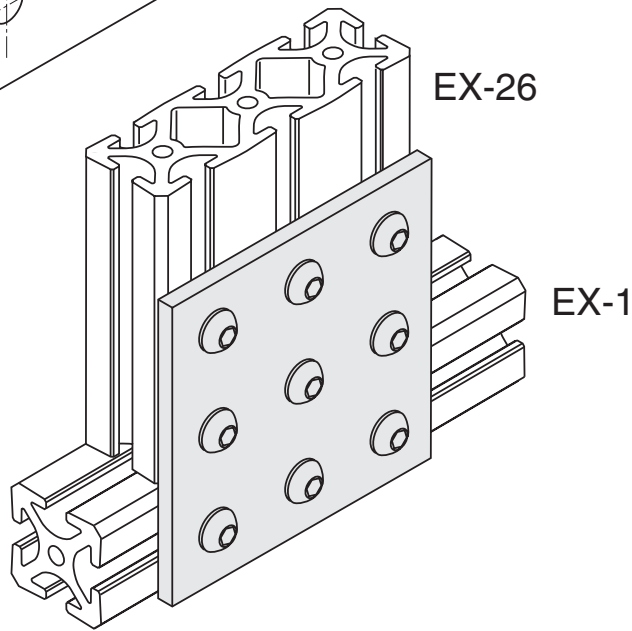
5/16" SLOTS

EB-83

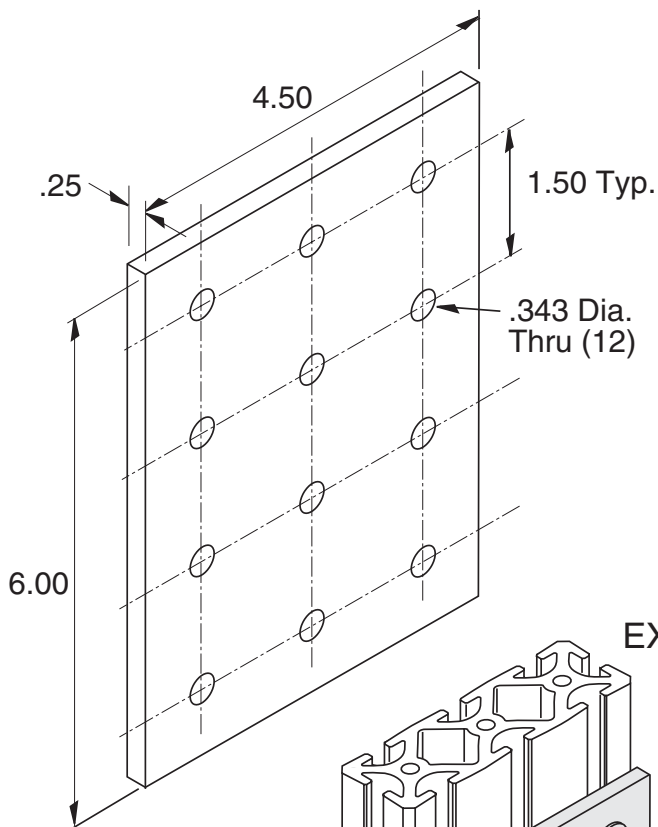
5/16" SLOTS



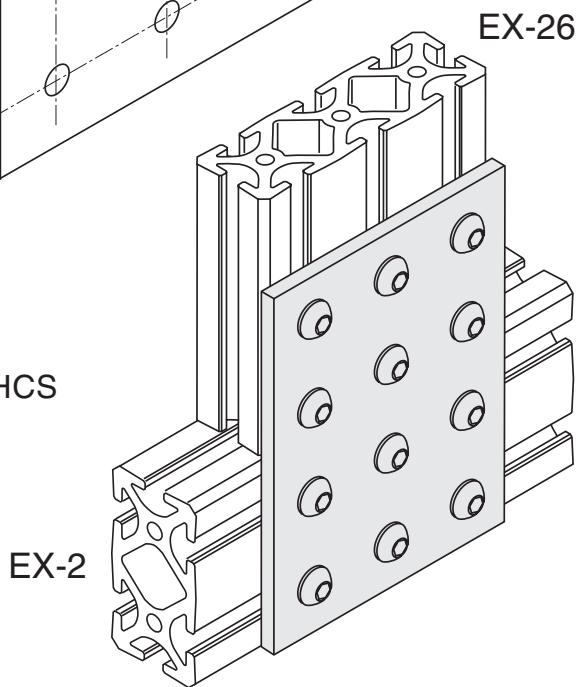
Recommended
Hardware
(9) EF-12-.63 BHCS
(9) EF-2 T-nut



Material - Aluminum
Finish - Clear Anodize



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

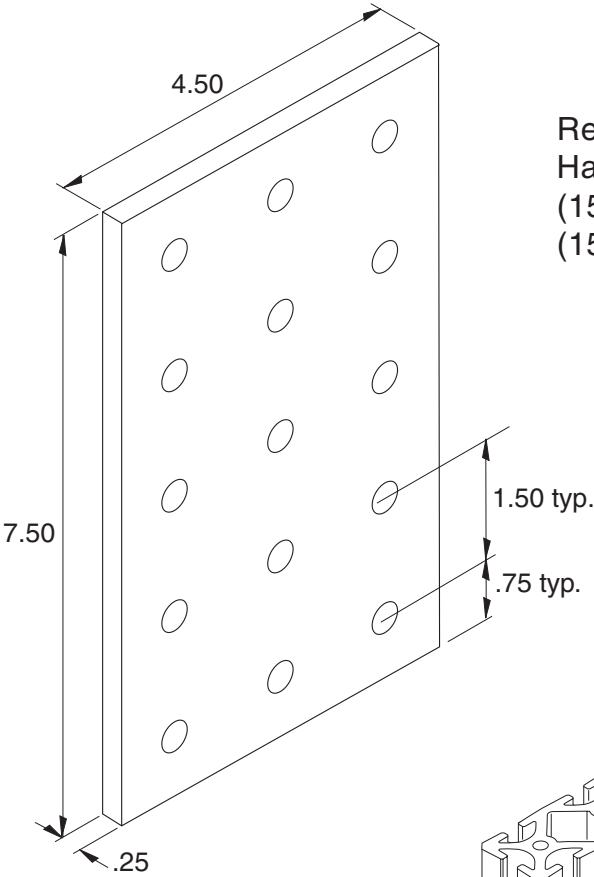


Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

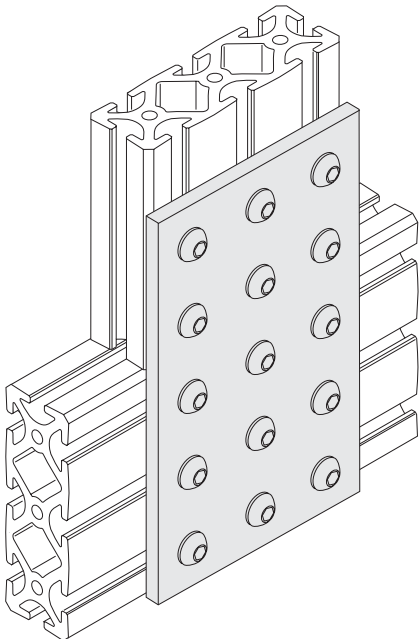
EB-85

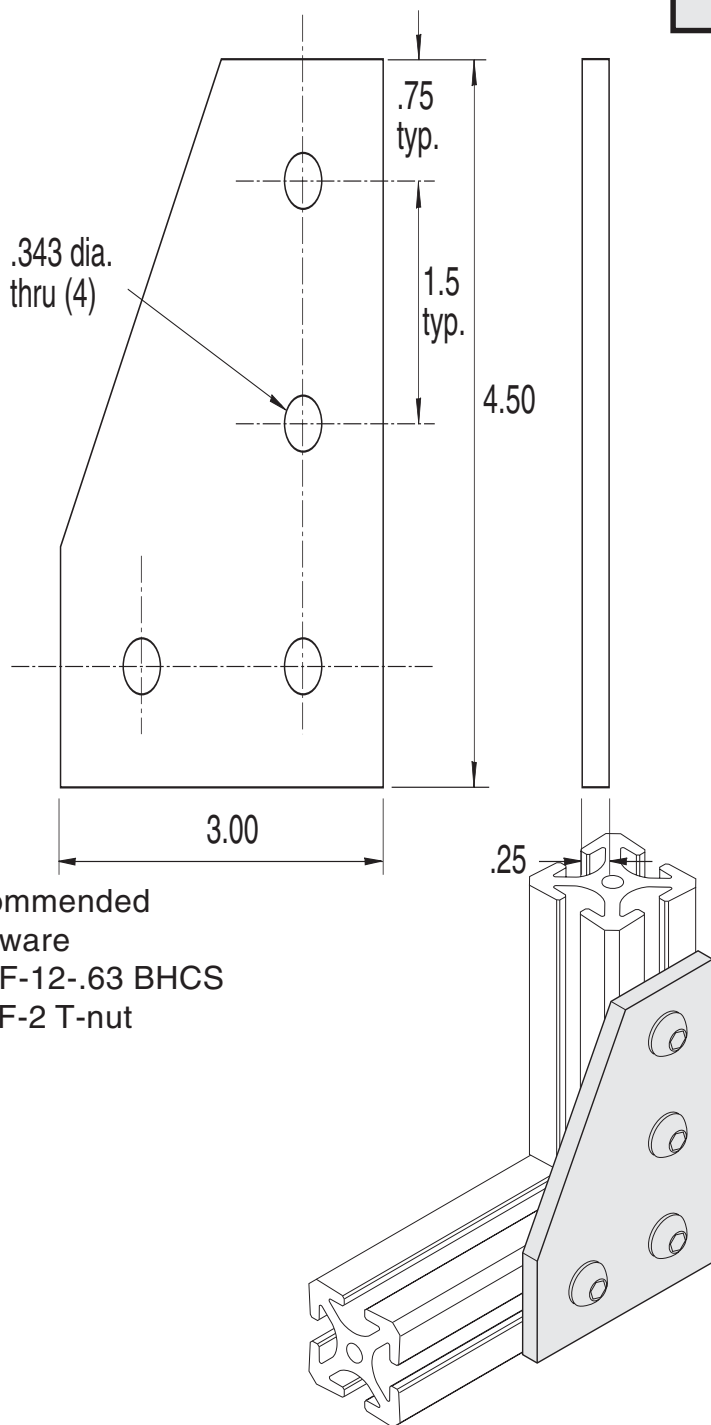
5/16" SLOTS



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

Material - Aluminum
Finish - Clear Anodize



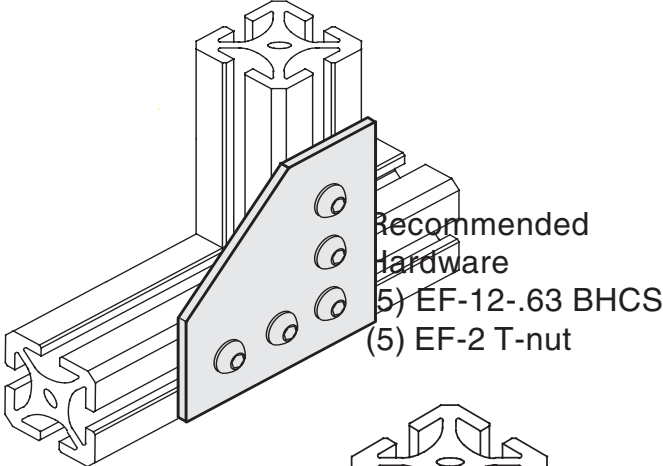
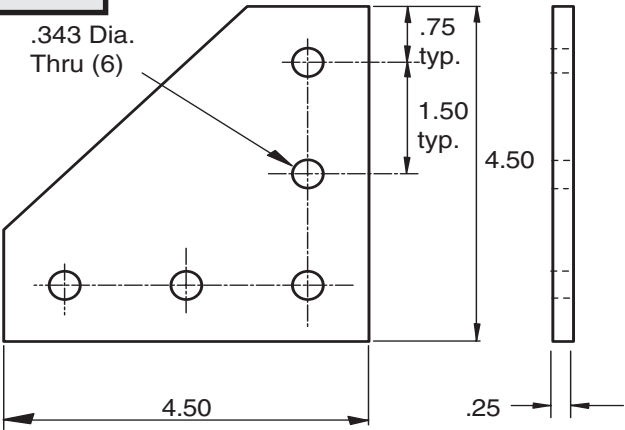


Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

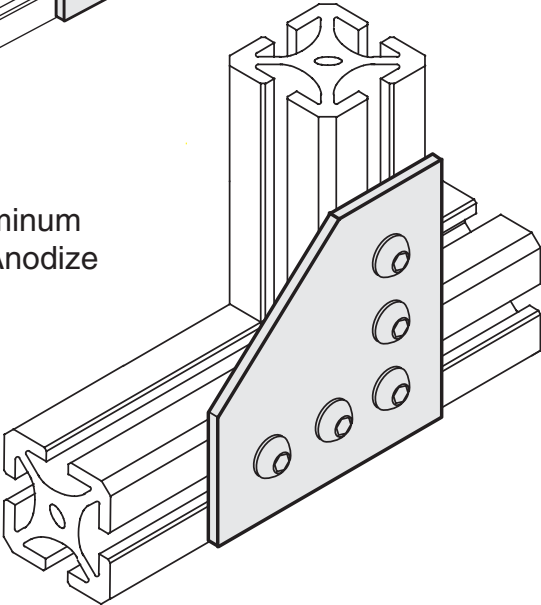
Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

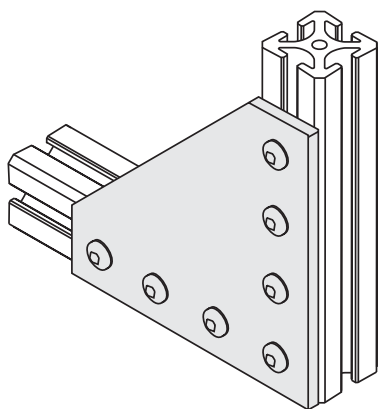
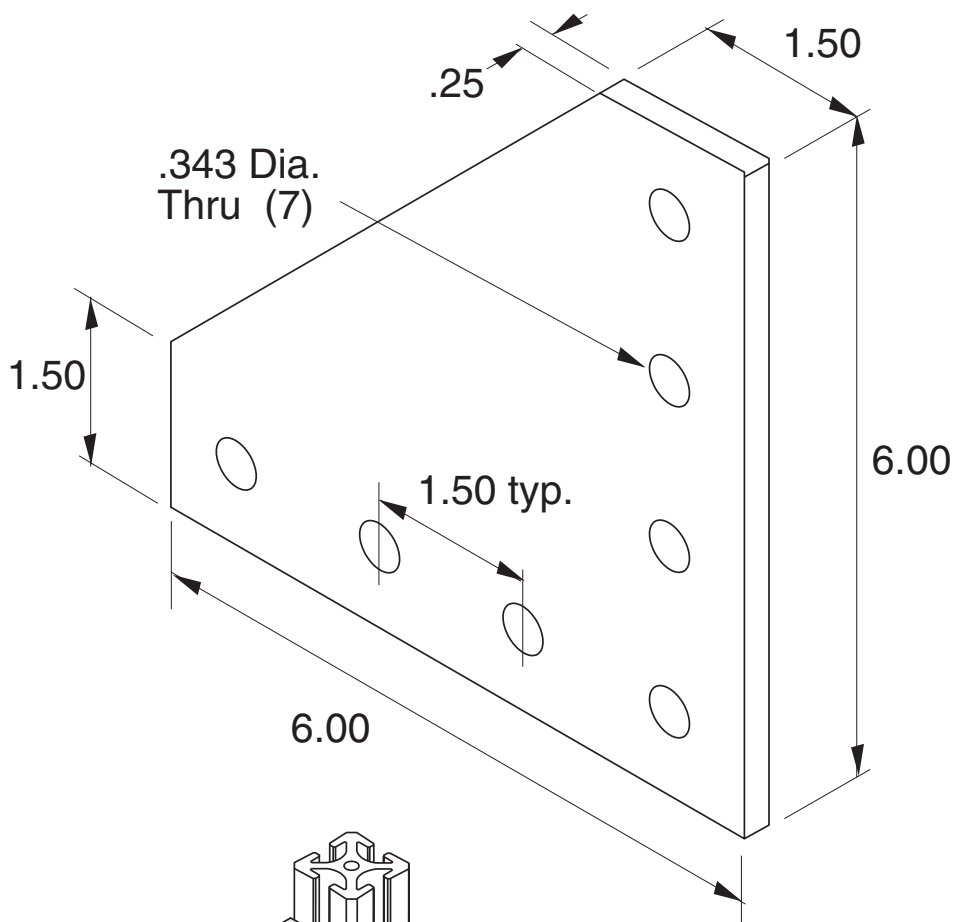
EB-22



Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS



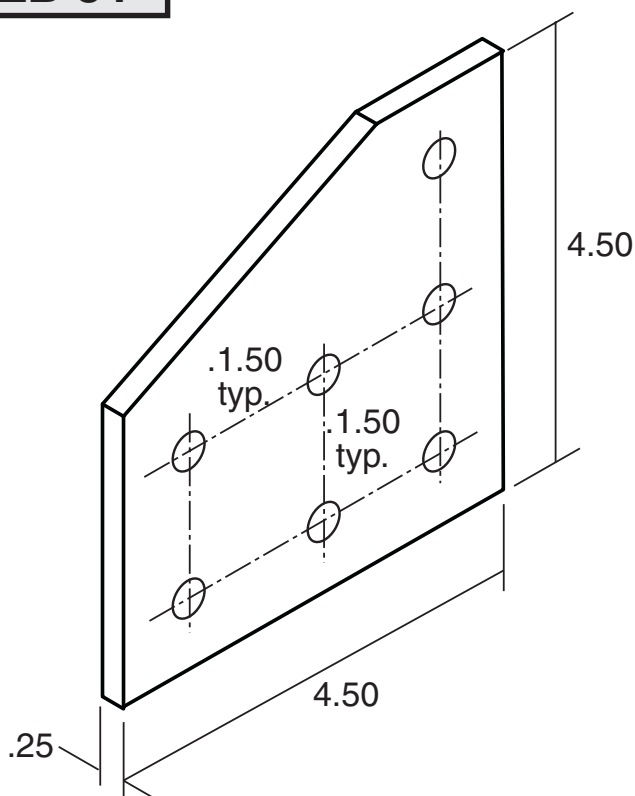
Recommended
Hardware
(7) EF-12-.63 BHCS
(7) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

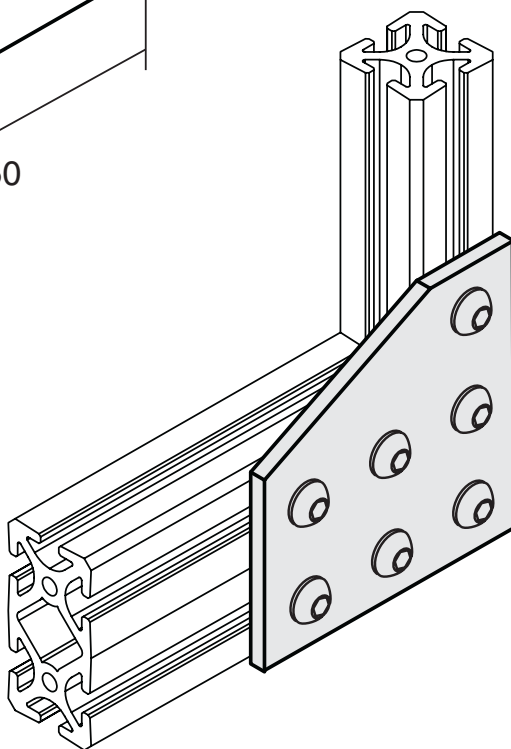
Joining Plate

**EB-34**

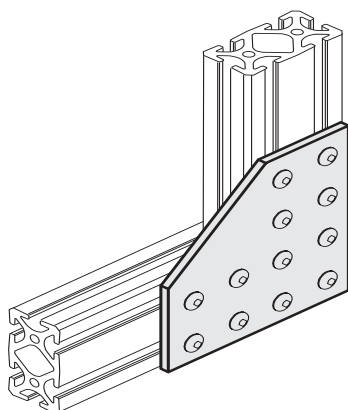
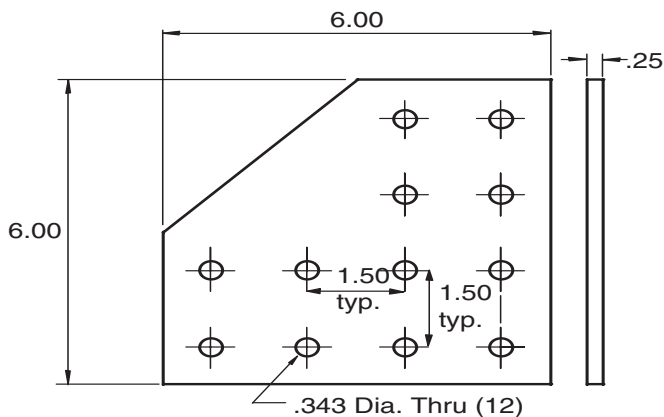
5/16" SLOTS



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

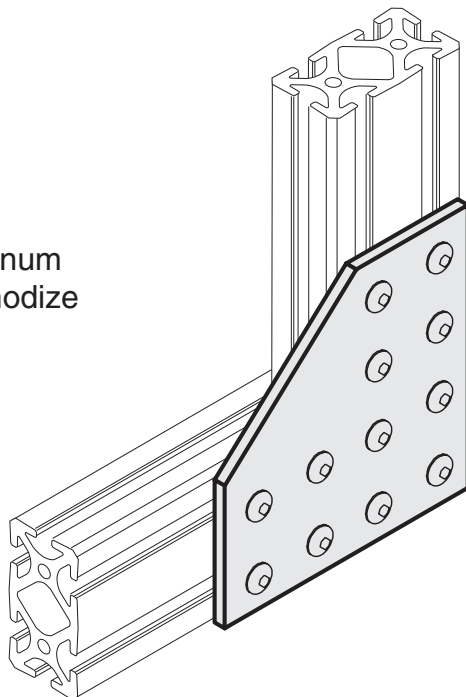


Material - Aluminum
Finish - Clear Anodize



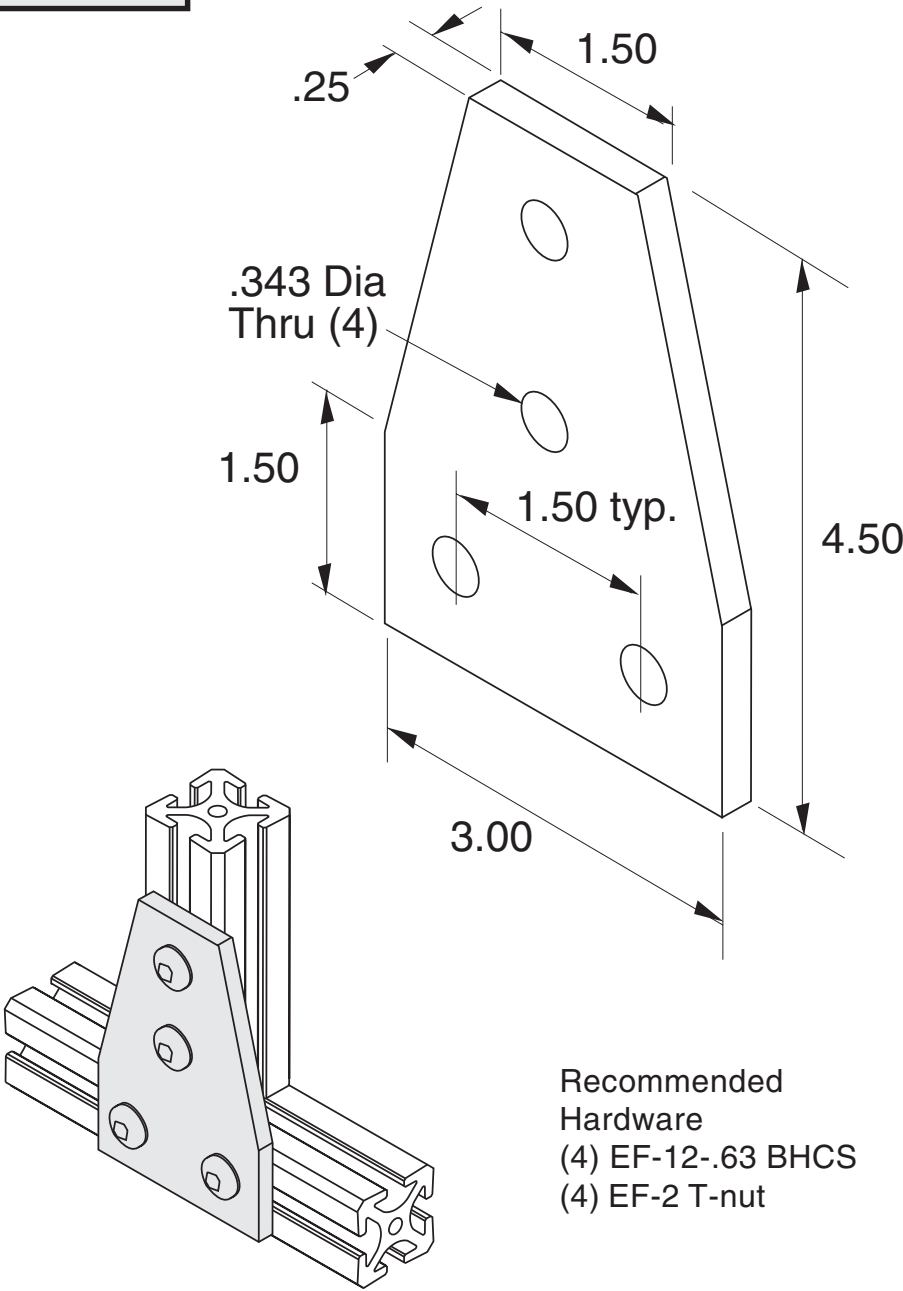
Recommended
Hardware
(12) EF-12-.63 BHCS
(12) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



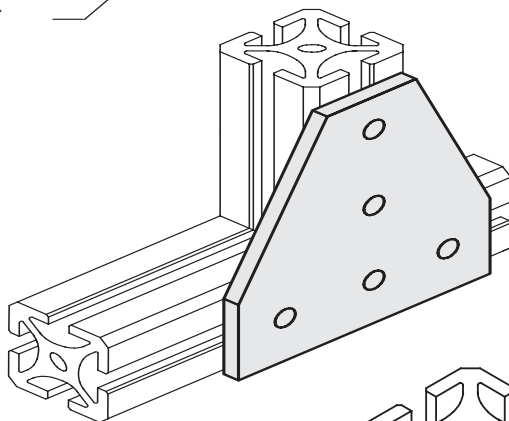
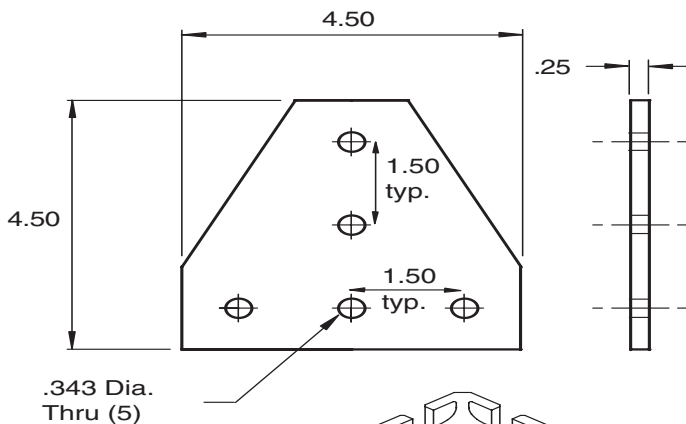
EB-73

5/16" SLOTS

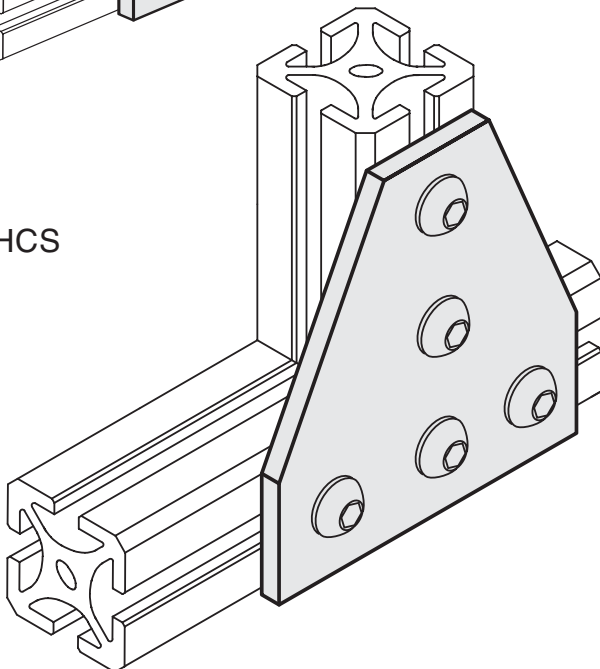


Recommended
Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



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

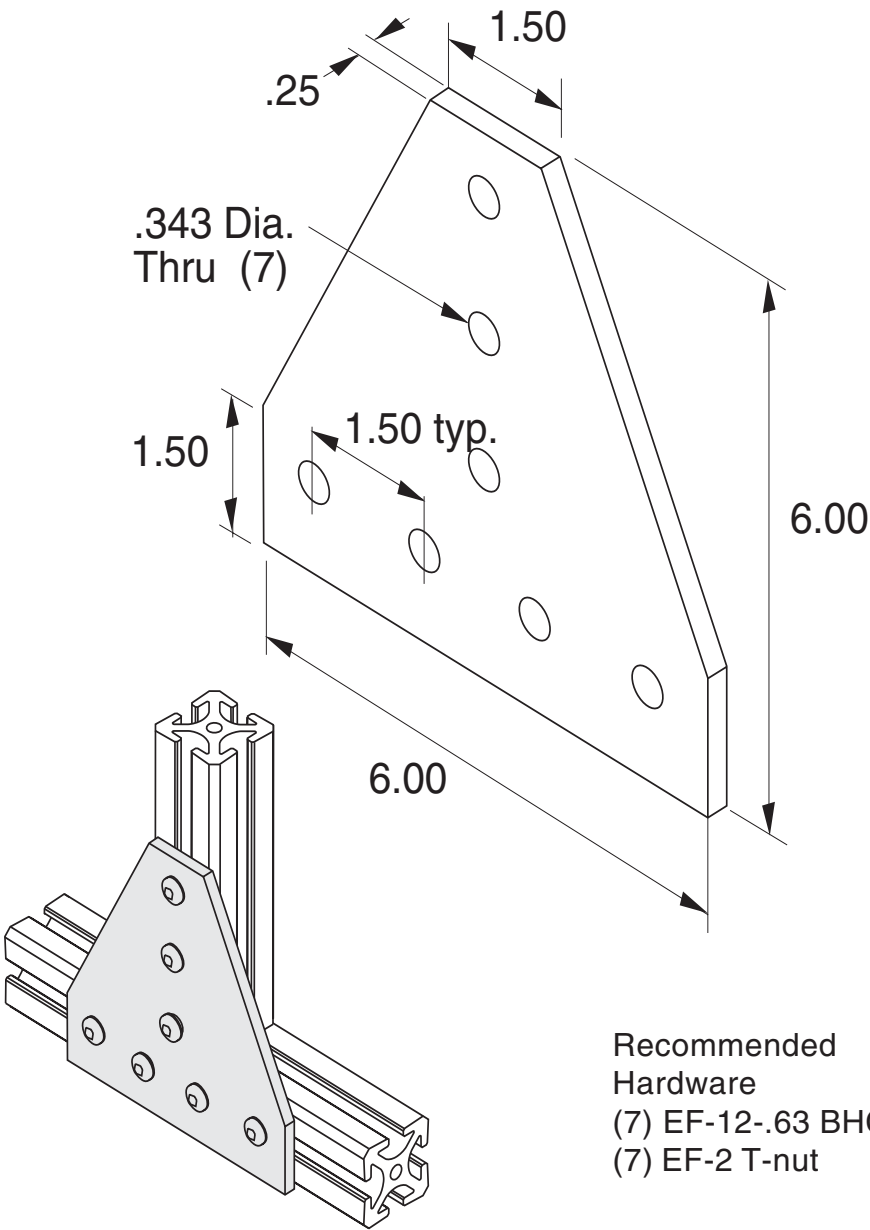


Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

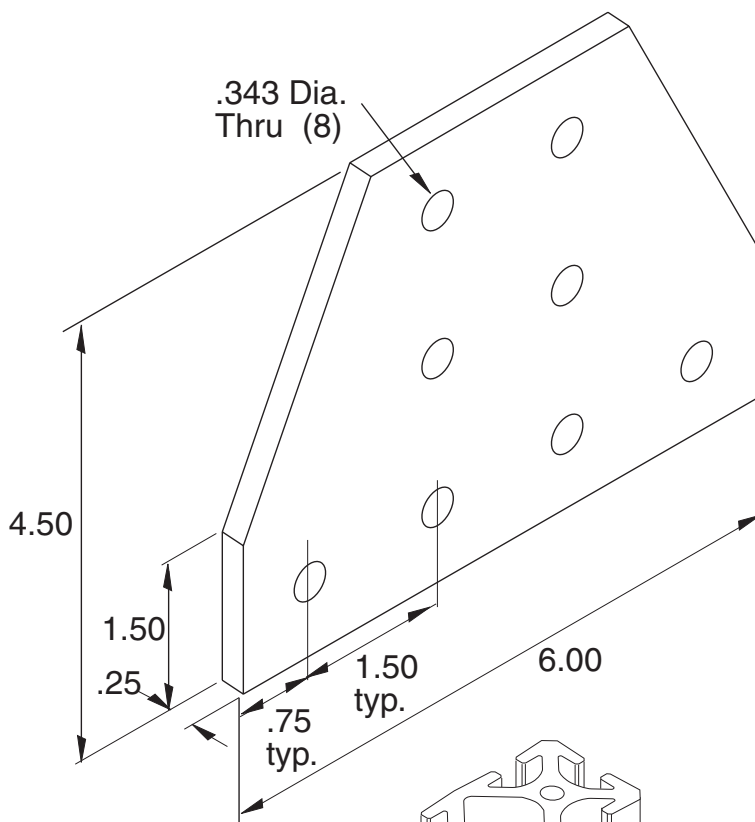
EB-74

5/16" SLOTS



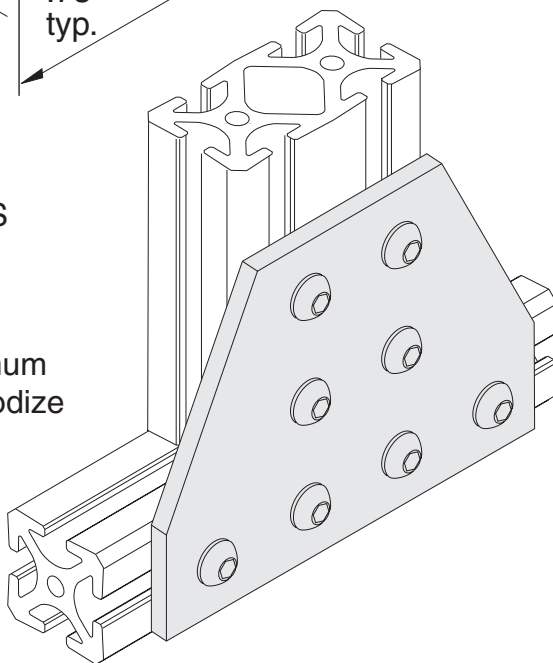
Recommended
Hardware
(7) EF-12-.63 BHCS
(7) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



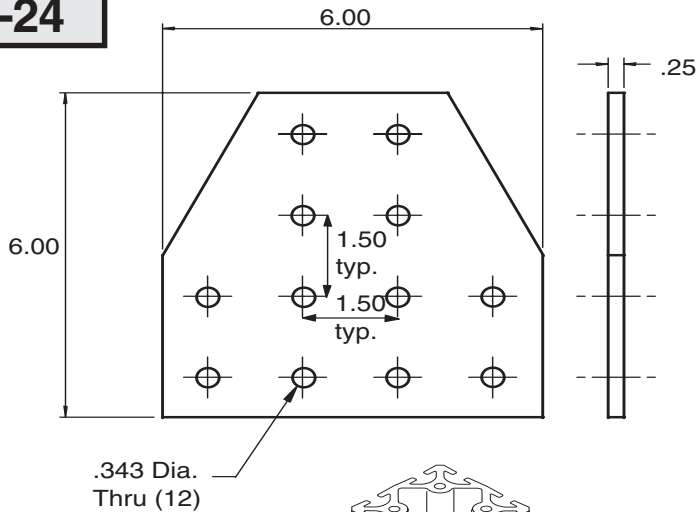
Recommended
Hardware
(8) EF-12-.63 BHCS
(8) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

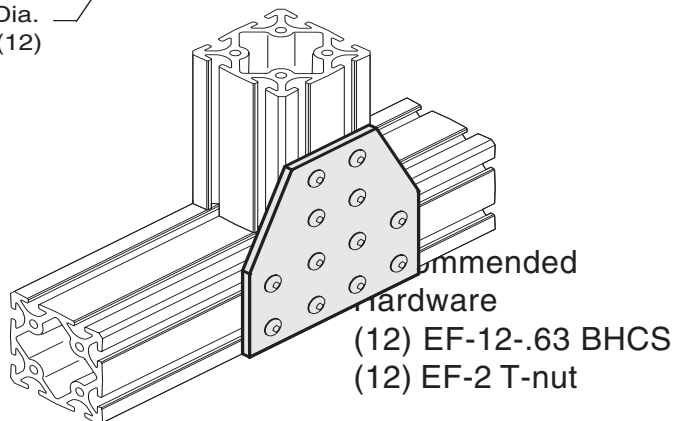


5/16" SLOTS

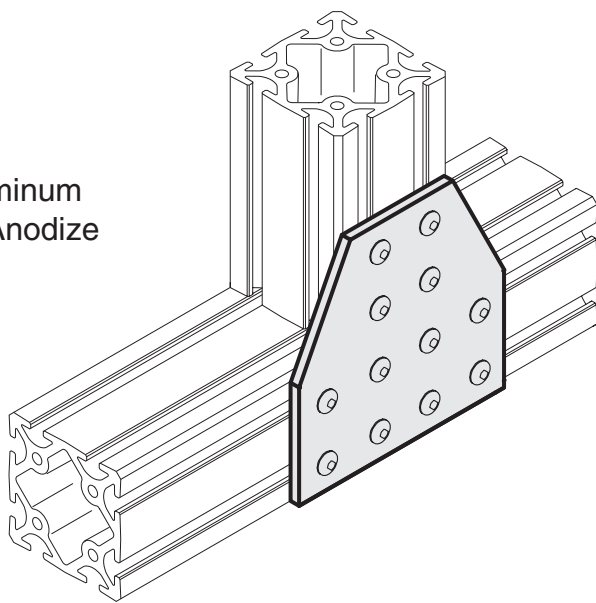
EB-24

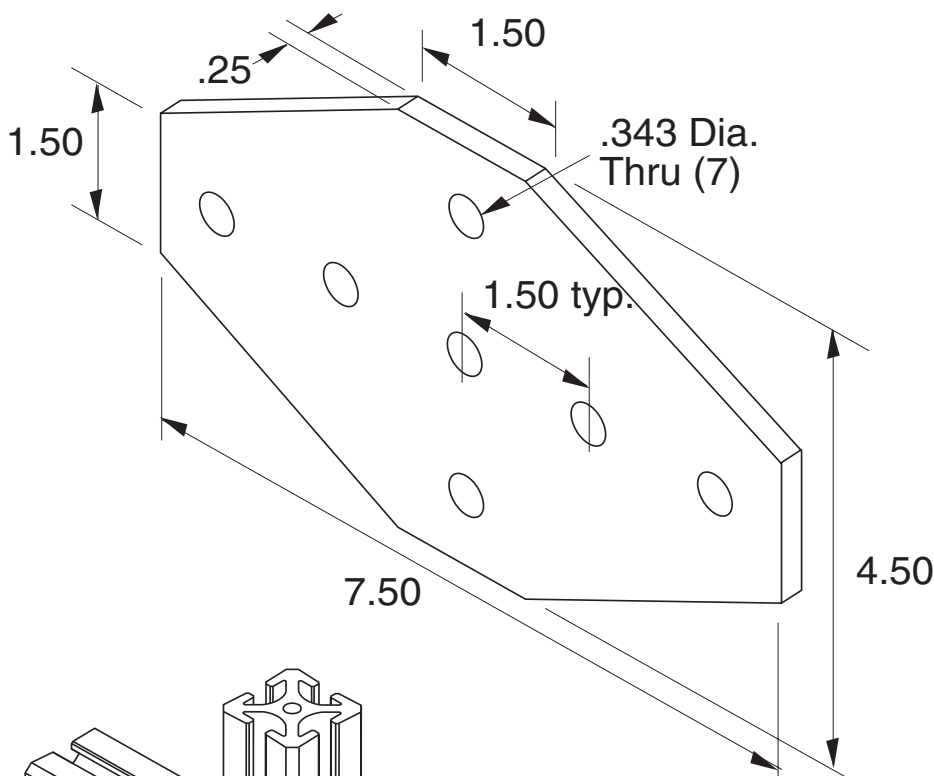


5/16" SLOTS

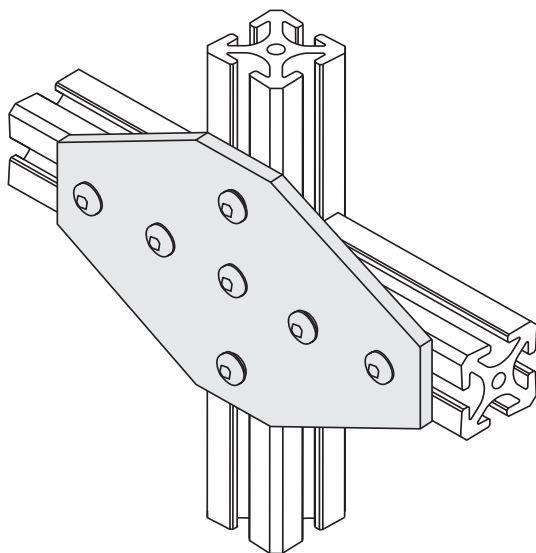


Material - Aluminum
Finish - Clear Anodize





5/16" SLOTS

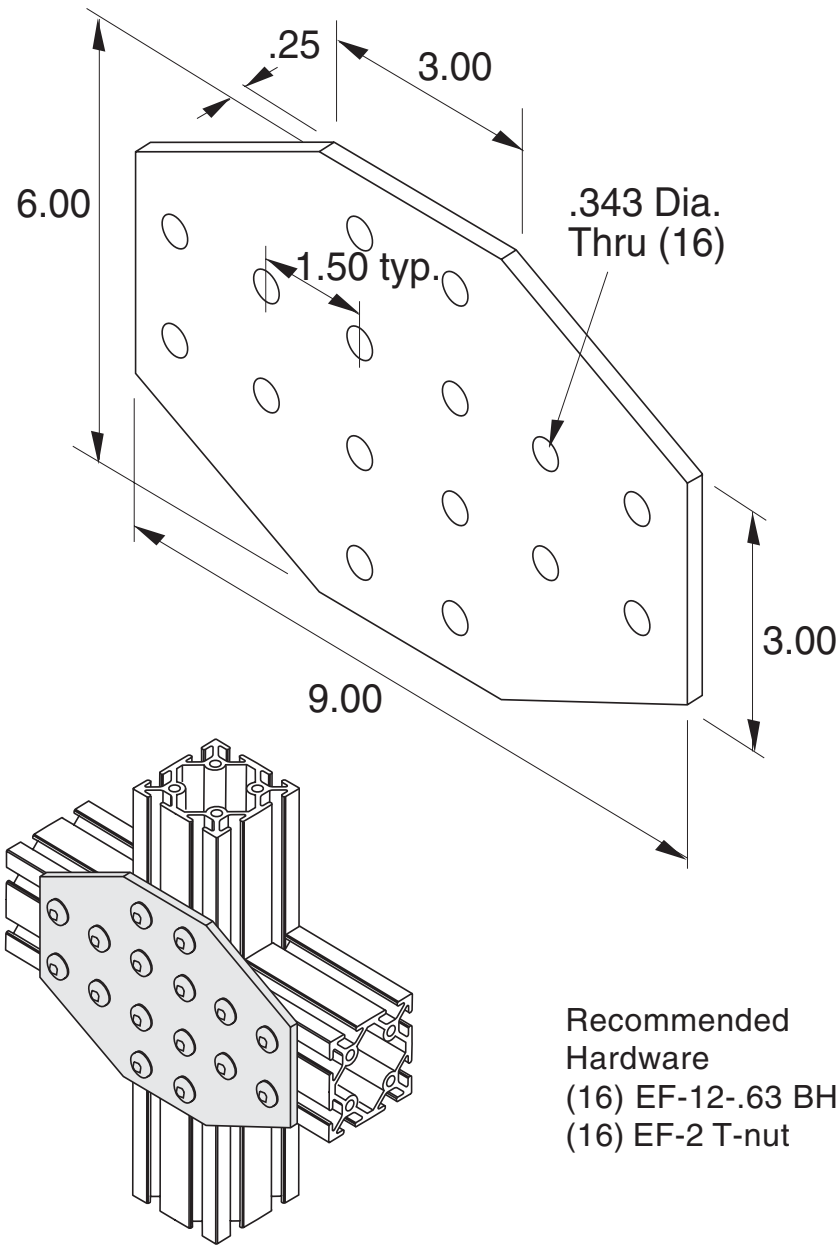


Recommended
Hardware
(7) EF-12-.63 BHCS
(7) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

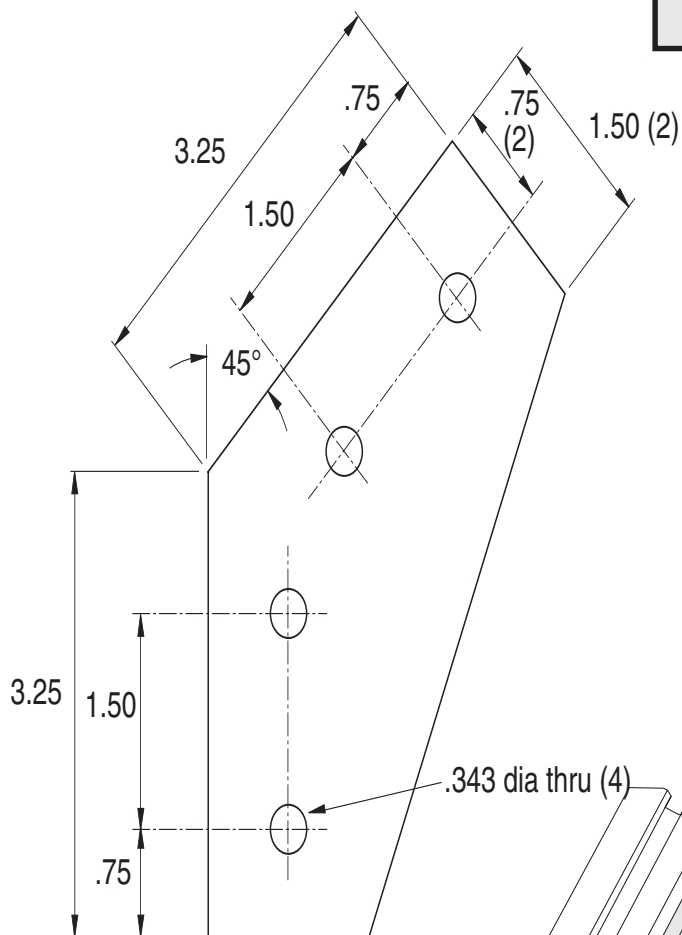
EB-78

5/16" SLOTS



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

Material - Aluminum
Finish - Clear Anodize

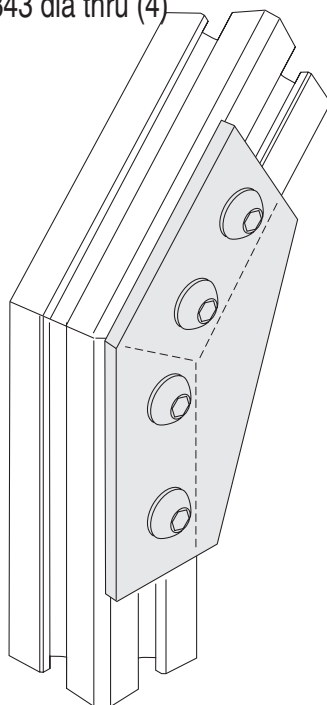


Recommended
Hardware

(4) EF-12-.63 BHCS

(4) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

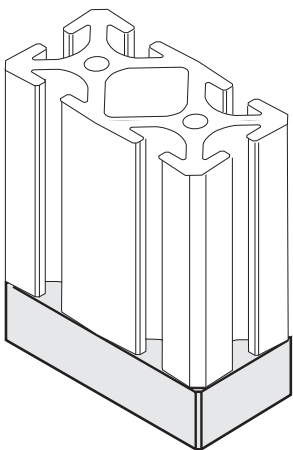


5/16" SLOTS

Leveling Plate



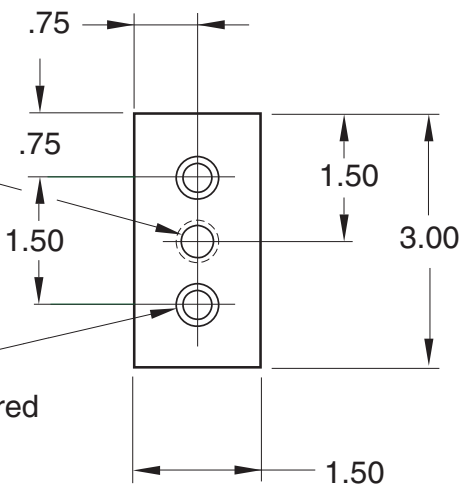
| |
|---------------|
| EBP-1 |
| EBP-1A |
| EBP-1B |
| EBP-1C |



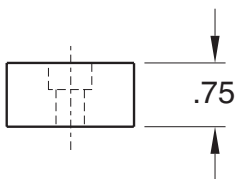
5/16" SLOTS

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

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

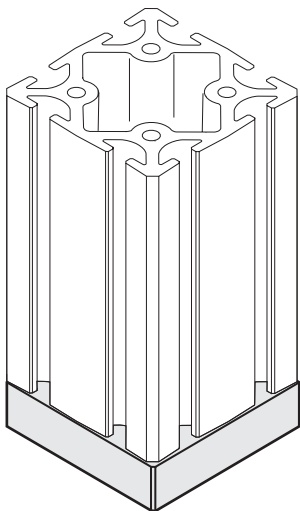


Requires
(2) EF-11-1.0 SHCS



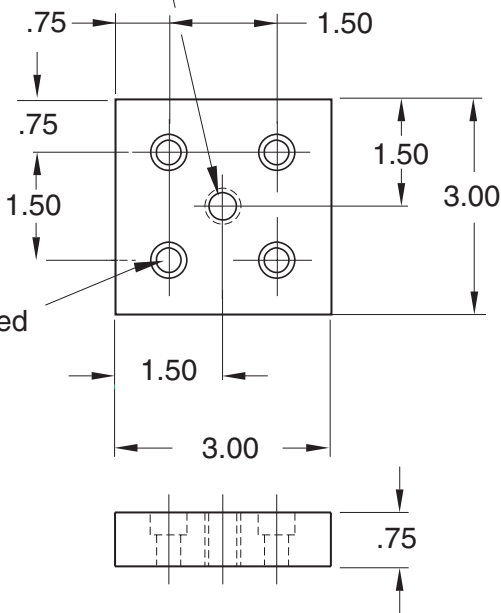
Material - Aluminum
Finish - Clear Anodize

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



| | 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

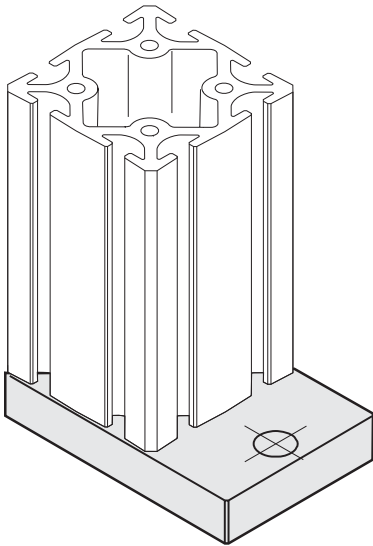
5/16" SLOTS

Leveling Anchor Plate

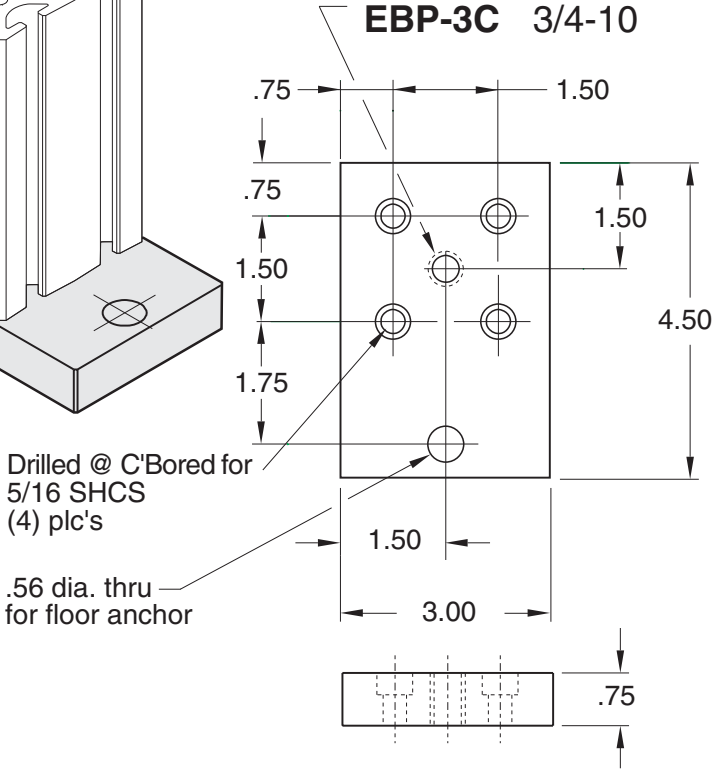


| |
|---------------|
| EBP-3 |
| EBP-3A |
| EBP-3B |
| EBP-3C |

5/16" SLOTS



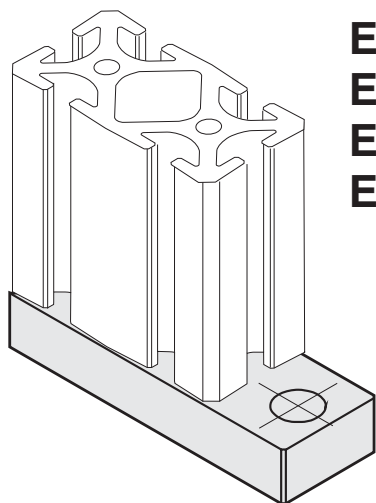
| | thread |
|---------------|--------|
| EBP-3 | 1/2-13 |
| EBP-3A | 3/8-16 |
| EBP-3B | 5/8-11 |
| EBP-3C | 3/4-10 |



Requires
(4) EF-11-1.0 SHCS

Material - Aluminum
Finish - Clear Anodize

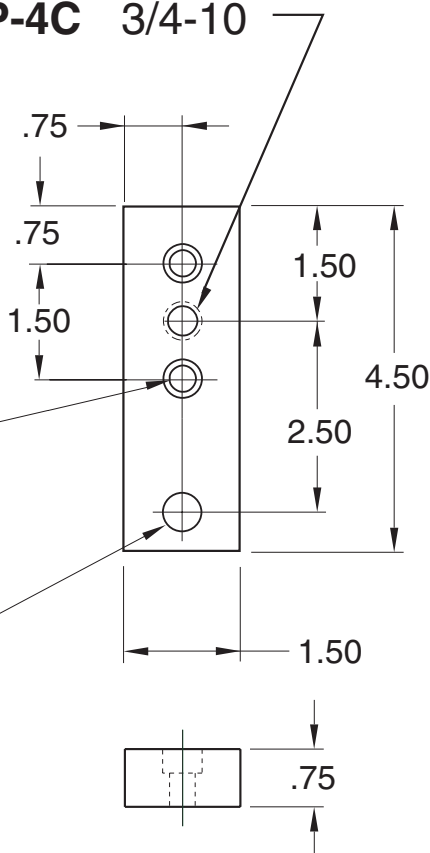
| |
|---------------|
| EBP-4 |
| EBP-4A |
| EBP-4B |
| EBP-4C |



| | 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

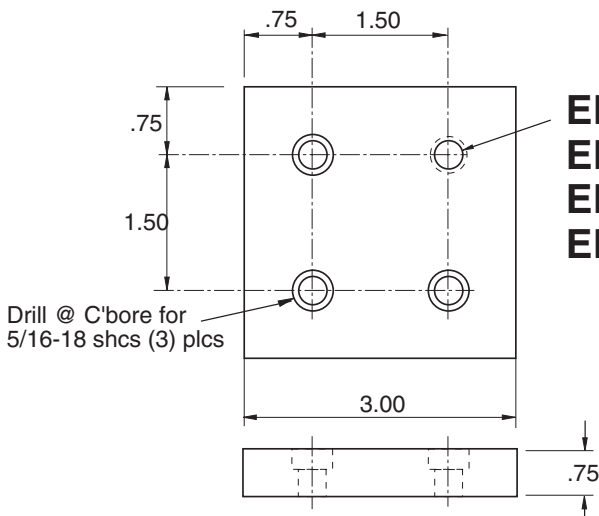
5/16" SLOTS

Leveling Plate



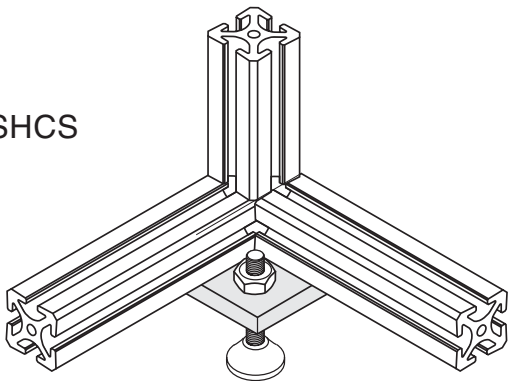
| |
|---------------|
| EBP-6 |
| EBP-6A |
| EBP-6B |
| EBP-6C |

5/16" SLOTS

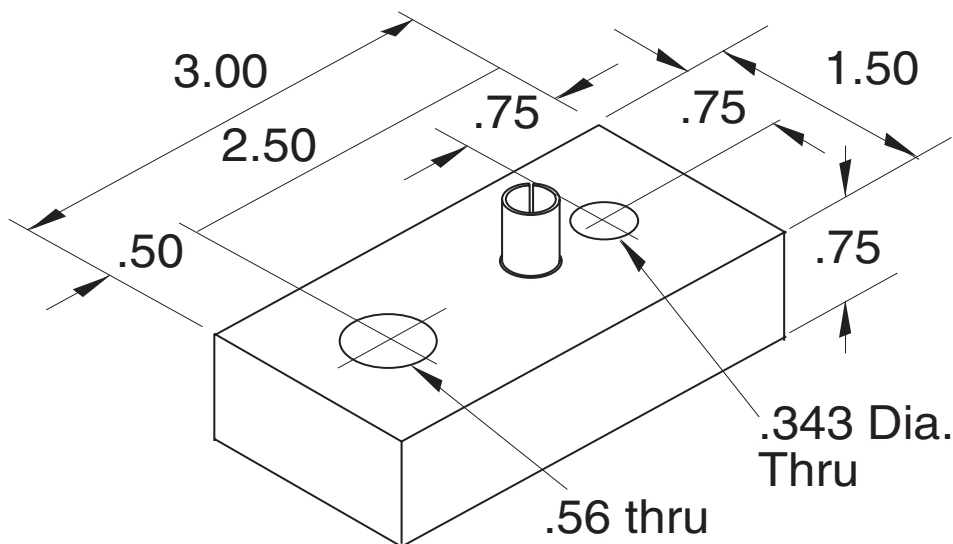


| | thread |
|---------------|--------|
| EBP-6 | 1/2-13 |
| EBP-6A | 3/8-16 |
| EBP-6B | 5/8-11 |
| EBP-6C | 3/4-10 |

Requires
(3) EF-11-.875 SHCS
(3) EF-2 T-nut

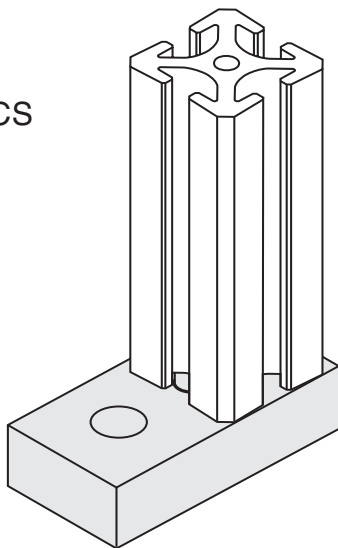


Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS

Requires
(1) EF-11-1.0 SHCS

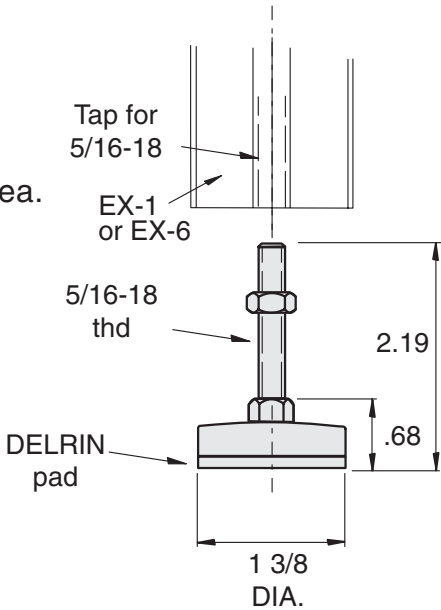


Material - Aluminum
Finish - Clear Anodize

EAL

EAL-1

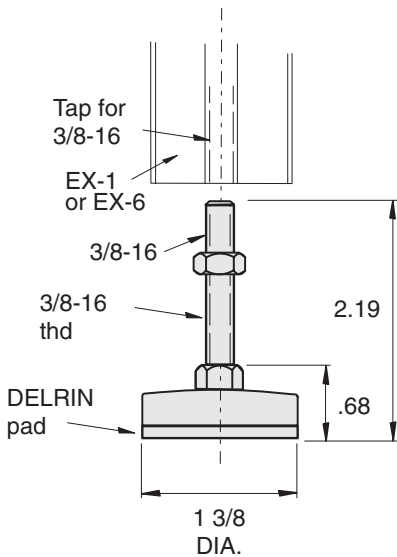
Max load = 250 lbs ea.



5/16" SLOTS

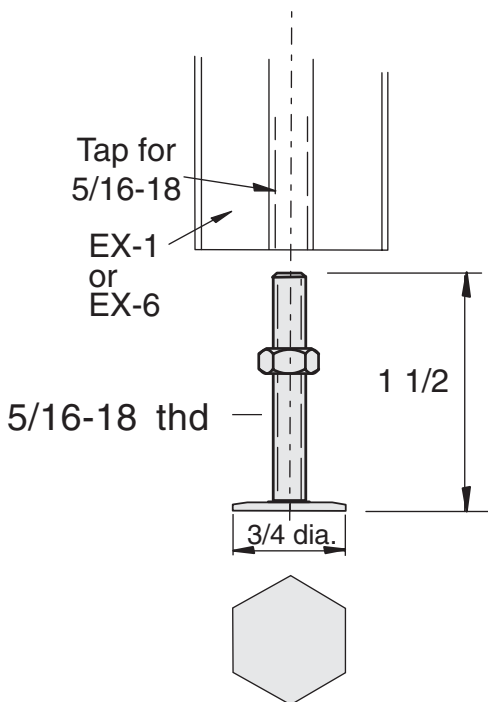
EAL-2

Max load = 400 lbs ea.



EAL-E1

Max load = 1700 lbs ea.

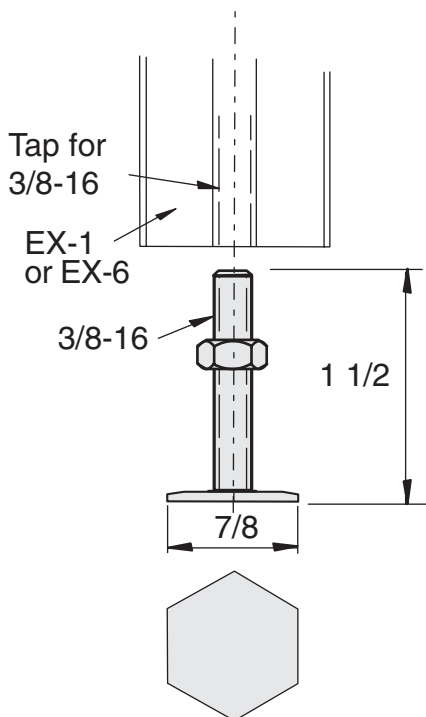


Material - Steel
Finish - Zinc Plated

5/16" SLOTS

EAL-E2

Max load = 1700 lbs ea.

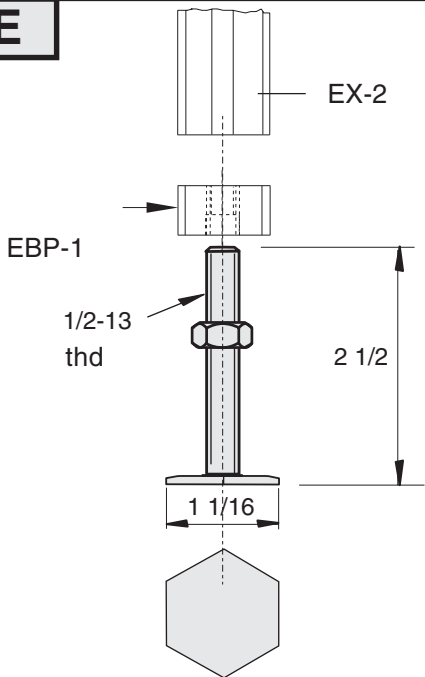


Material - Steel
Finish - Zinc Plated

Adjustable Leg (Economy)



EAL-E



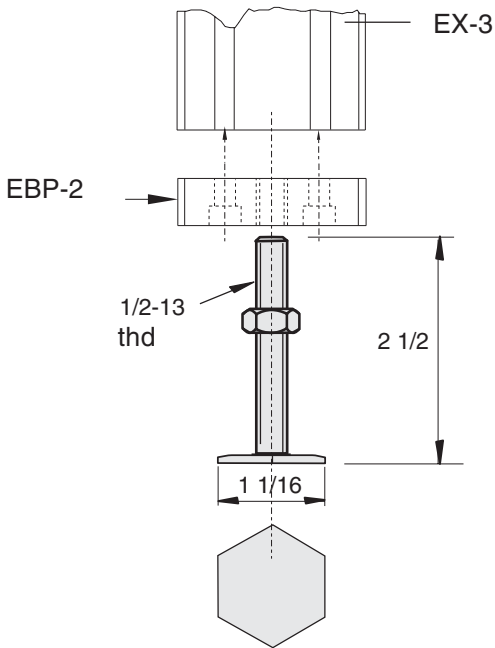
EAL-E3

Max load = 4200 lbs ea.

Material - Steel
Finish - Zinc Plated

5/16" SLOTS

EAL-E3



Max load = 4200 lbs ea.

Material - Steel
Finish - Zinc Plated

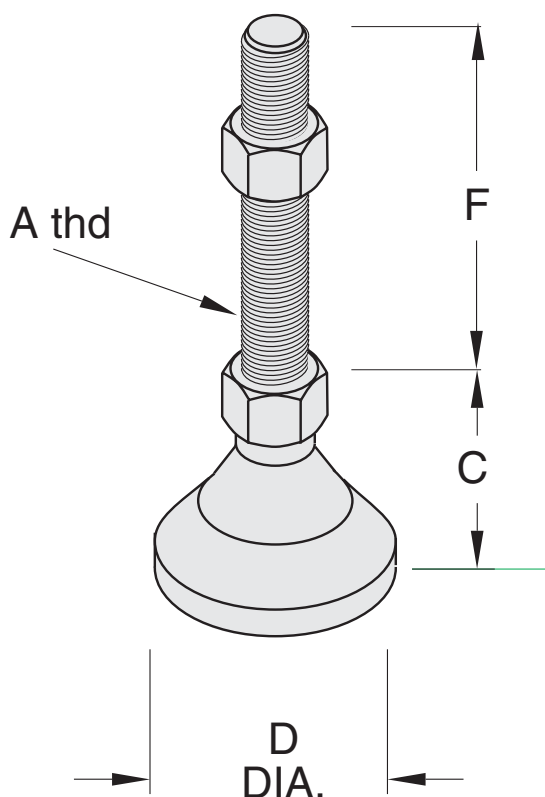
EAL-3

EAL-4

EAL-5

EAL-6

EAL-10



5/16" SLOTS

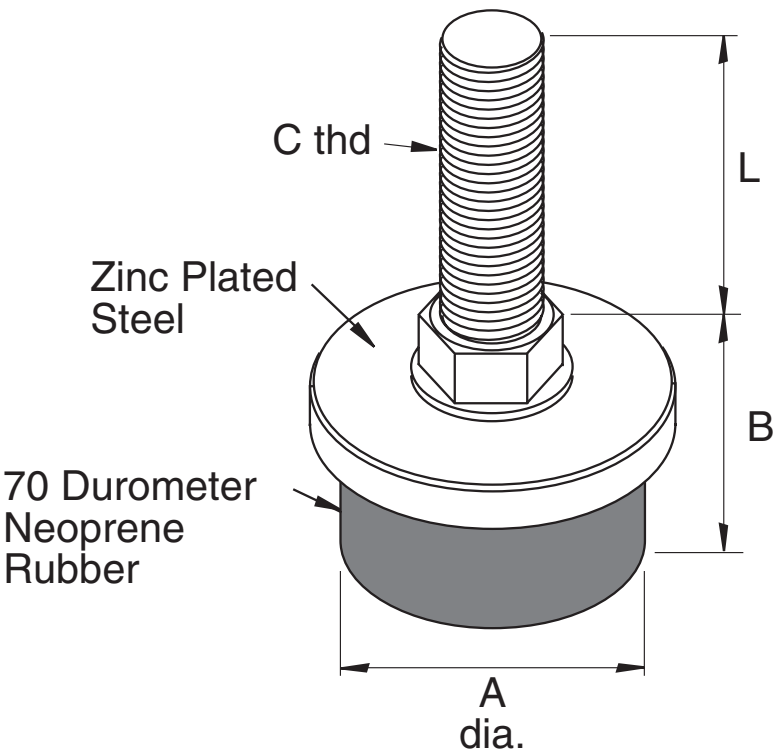
| Part No | Max (lbs) Work Load | A | C | D | F |
|---------------|------------------------|---------|-------|-------|---|
| EAL-4 | 3750 | 3/8-16 | 7/8 | 1 1/4 | 2 |
| EAL-3 | 5000 | 1/2-13 | 1 1/8 | 1 7/8 | 2 |
| EAL-5 | 6000 | 5/8-11 | 1 1/4 | 2 1/2 | 2 |
| EAL-6 | 7200 | 3/4-10 | 1 1/2 | 3 | 2 |
| EAL-10 | 2300 | 5/16-18 | 1.25 | .88 | 2 |



Material - Steel
Finish - Yellow Zinc Plate

| |
|--------------|
| EAL-7 |
| EAL-8 |
| EAL-9 |

5/16" SLOTS

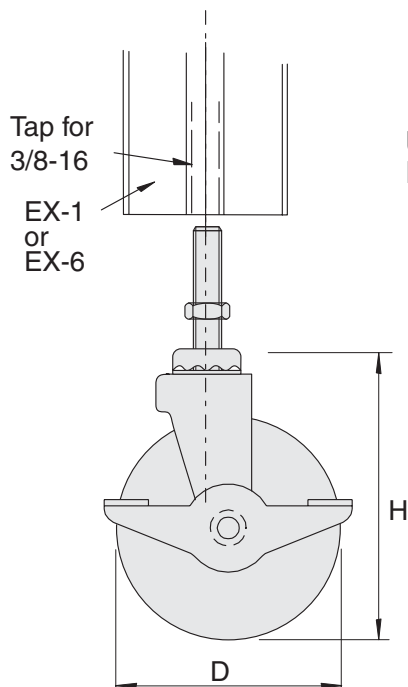


| Part No | Max (lbs) Work Load | C Thd Size | A | B | L |
|--------------|------------------------|---------------|-----|--------|-------|
| EAL-7 | 100 | 5/16-18 | 1.0 | 13/16 | 1 1/4 |
| EAL-8 | 300 | 3/8-16 | 1.5 | 63/64 | 3.0 |
| EAL-9 | 300 | 1/2-13 | 1.5 | 1 1/16 | 2.0 |

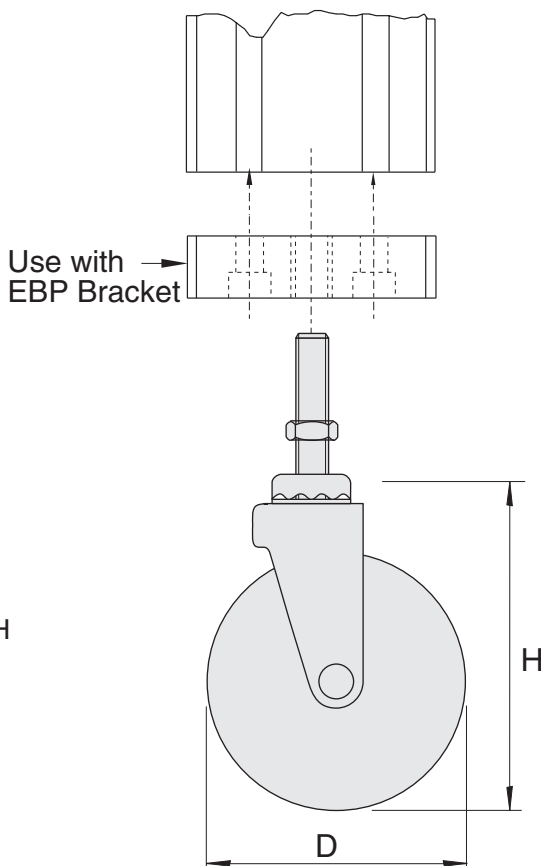
EC-S1

EC-S2

EC-S3



EC-S1
EC-S2



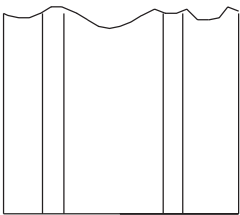
EC-S3

5/16" SLOTS

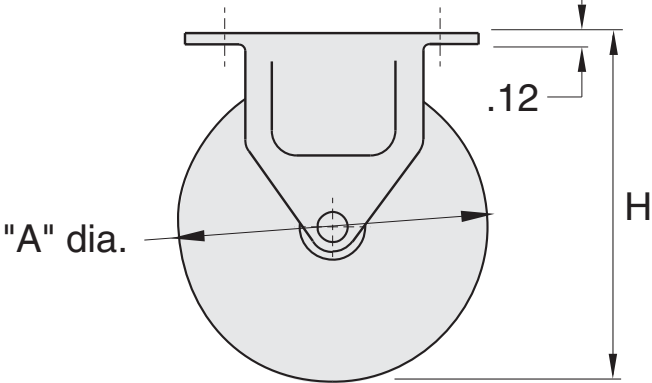
Note: Wheel material is hard plastic

| Part no. | D | H | Stem | Brake | Max. Load | Wheel Width |
|--------------|---|---------------------------------|----------------|-------|-----------|-------------|
| EC-S1 | 2 | 2 ¹⁷ / ₃₂ | 3/8-16 x 1 1/2 | Yes | 80 lbs | .75 |
| EC-S2 | 3 | 3 1/2 | 3/8-16 x 1 1/2 | Yes | 90 lbs | .75 |
| EC-S3 | 4 | 5 | 1/2-13 x 1 1/2 | Yes | 300 lbs | .88 |

| |
|--------------|
| 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
Required Hardware
(4) EF-12.63 SHCS

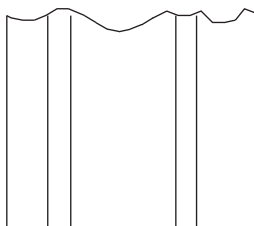
Note: Wheel material is hard plastic

| Part no. | A | H | Brake | Max. Load | Wheel Width |
|--------------|---|-------------------------------|-------|--------------|----------------|
| EC-3F | 3 | 3 ³ / ₄ | No | 210 lbs | 1.25 |
| EC-4F | 4 | 4 ⁵ / ₈ | No | 255 lbs | 1.25 |
| EC-5F | 5 | 5 ⁵ / ₈ | No | 280 lbs | 1.25 |

EC-3S

EC-4S

EC-5S

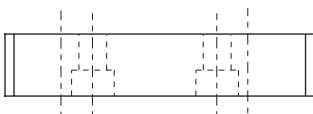


EX-3 uses caster plate EBP-5

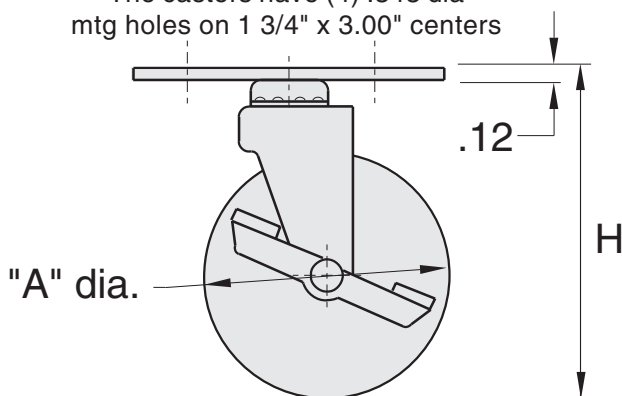
Required Hardware

(4) EF-12.63 SHCS

EBP-5
(required)



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



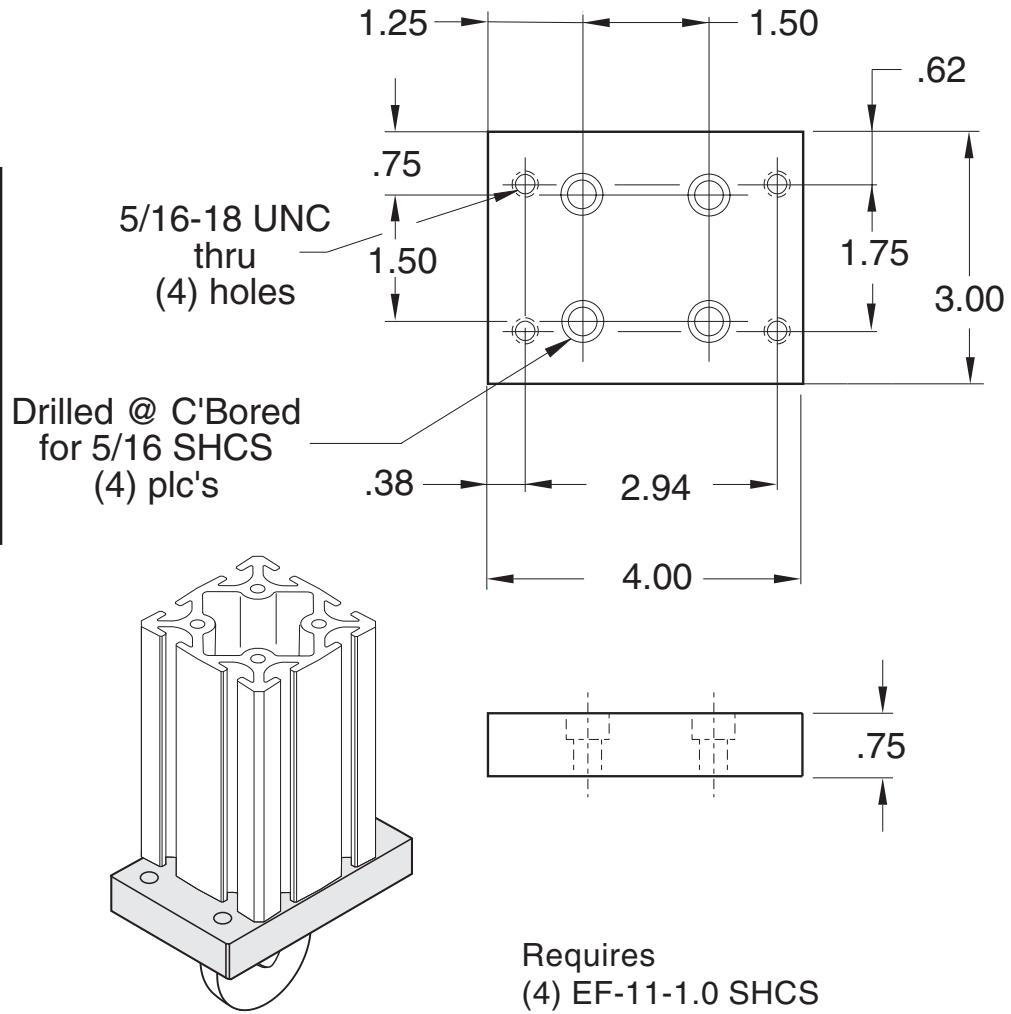
Note: Wheel material is hard plastic

| Part no. | A | H | Brake | Max. Load | Wheel Width |
|--------------|---|-------------------------------|-------|--------------|----------------|
| EC-3S | 3 | 3 ³ / ₄ | Yes | 210 lbs | 1.25 |
| EC-4S | 4 | 4 ⁵ / ₈ | Yes | 255 lbs | 1.25 |
| EC-5S | 5 | 5 ⁵ / ₈ | Yes | 280 lbs | 1.25 |

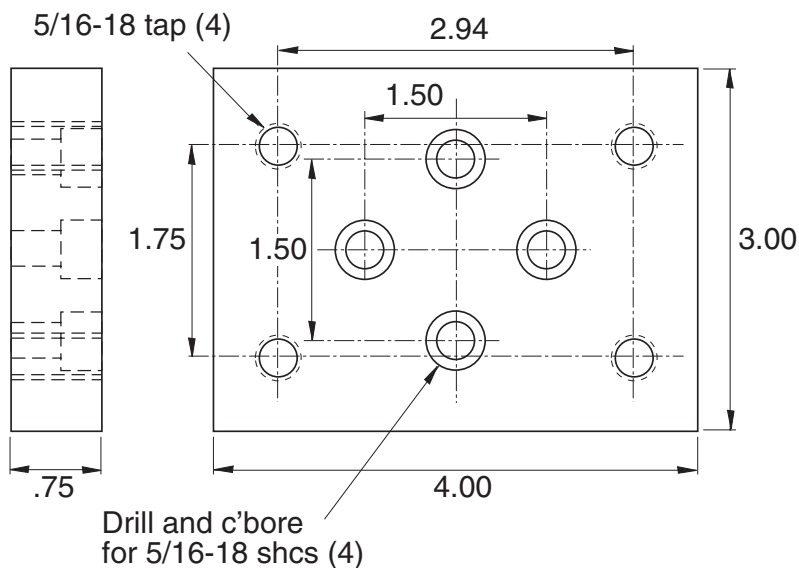
5/16" SLOTS

EBP-5 for Plate Casters

5/16" SLOTS



Material - Aluminum
Finish - Clear Anodize

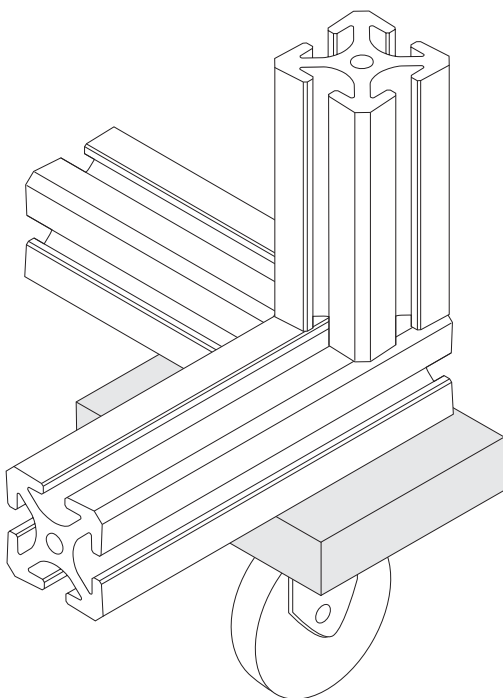

5/16" SLOTS

Requires

(2) EF-11-.75 SHCS

(2) EF-2 T-nut

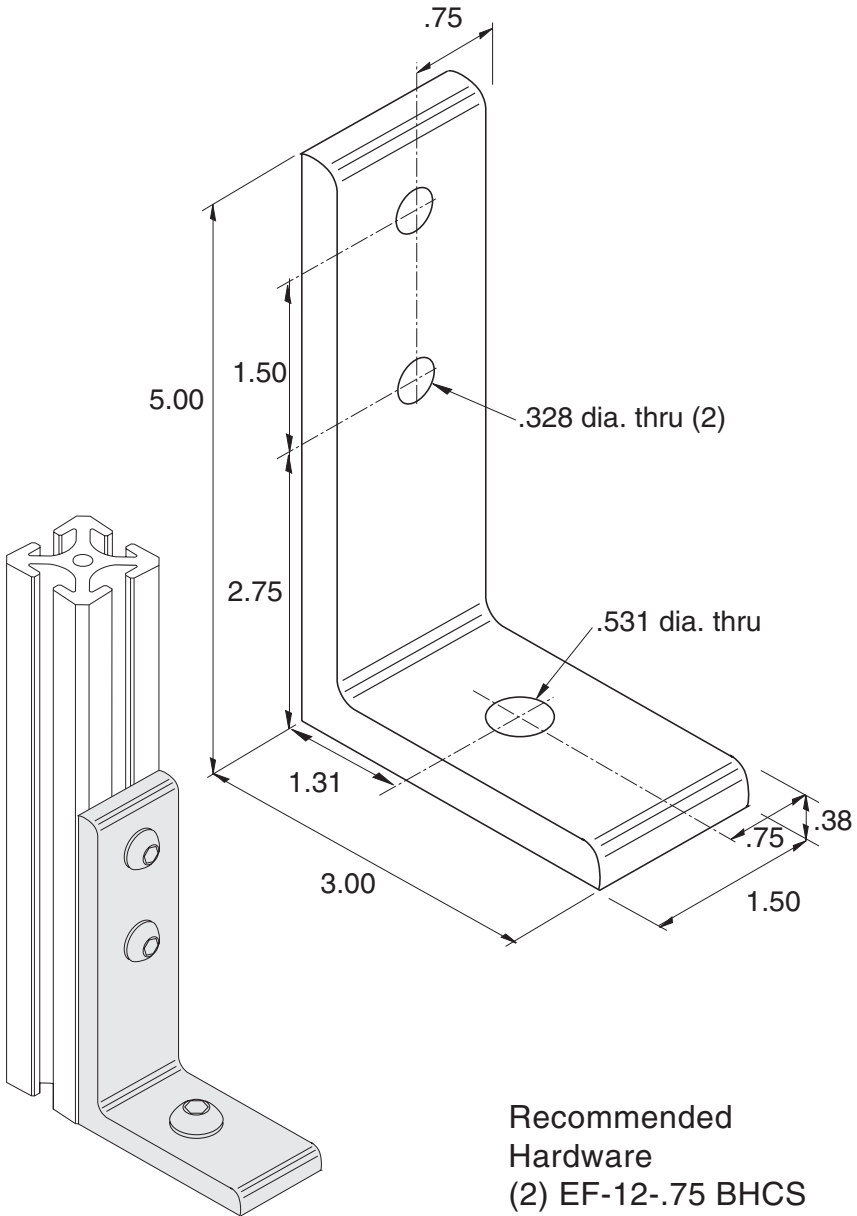
Note: Plate can
be rotated 90°



Material - Aluminum
Finish - Clear Anodize

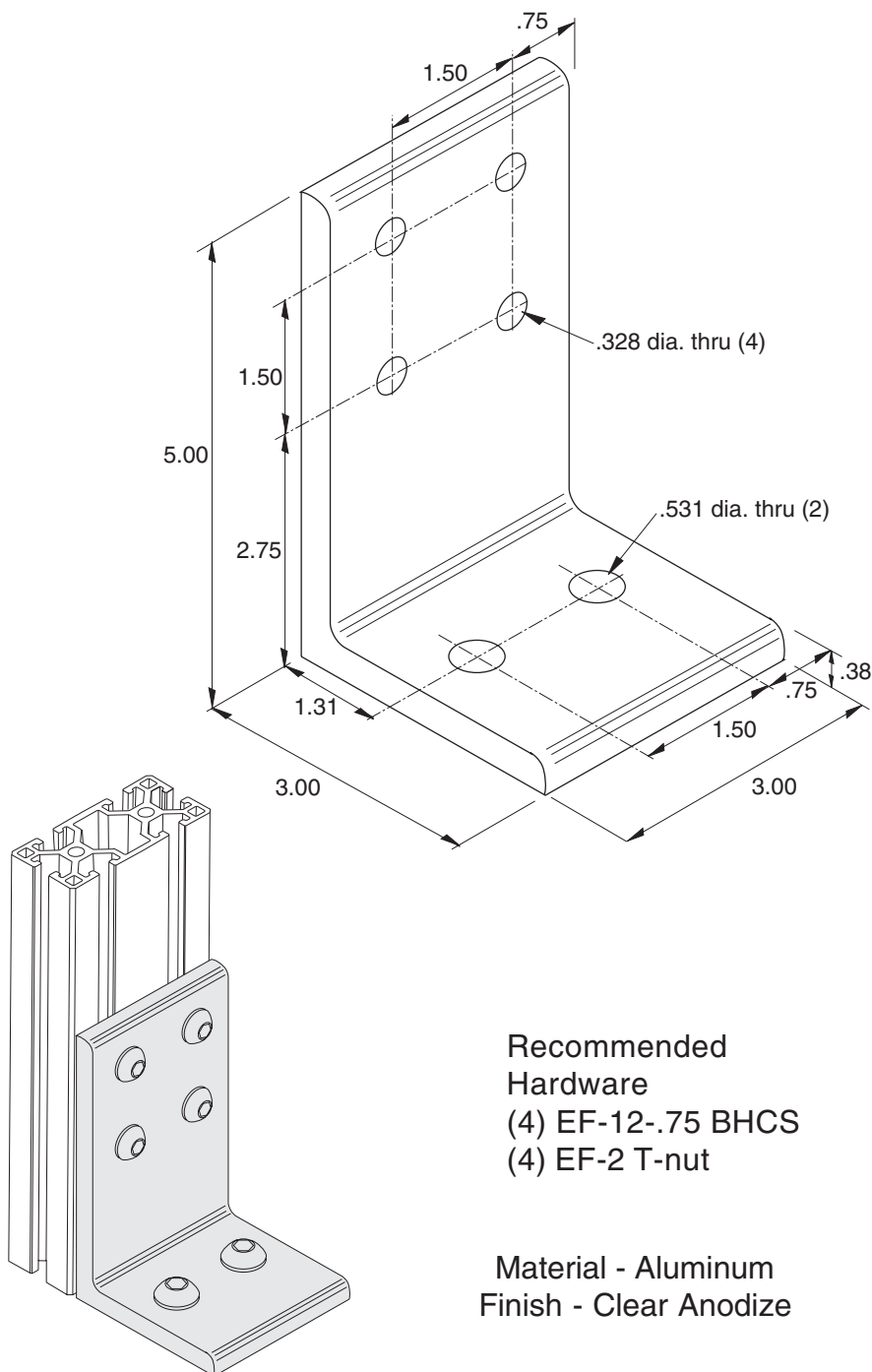
EB-15AL

5/16" SLOTS



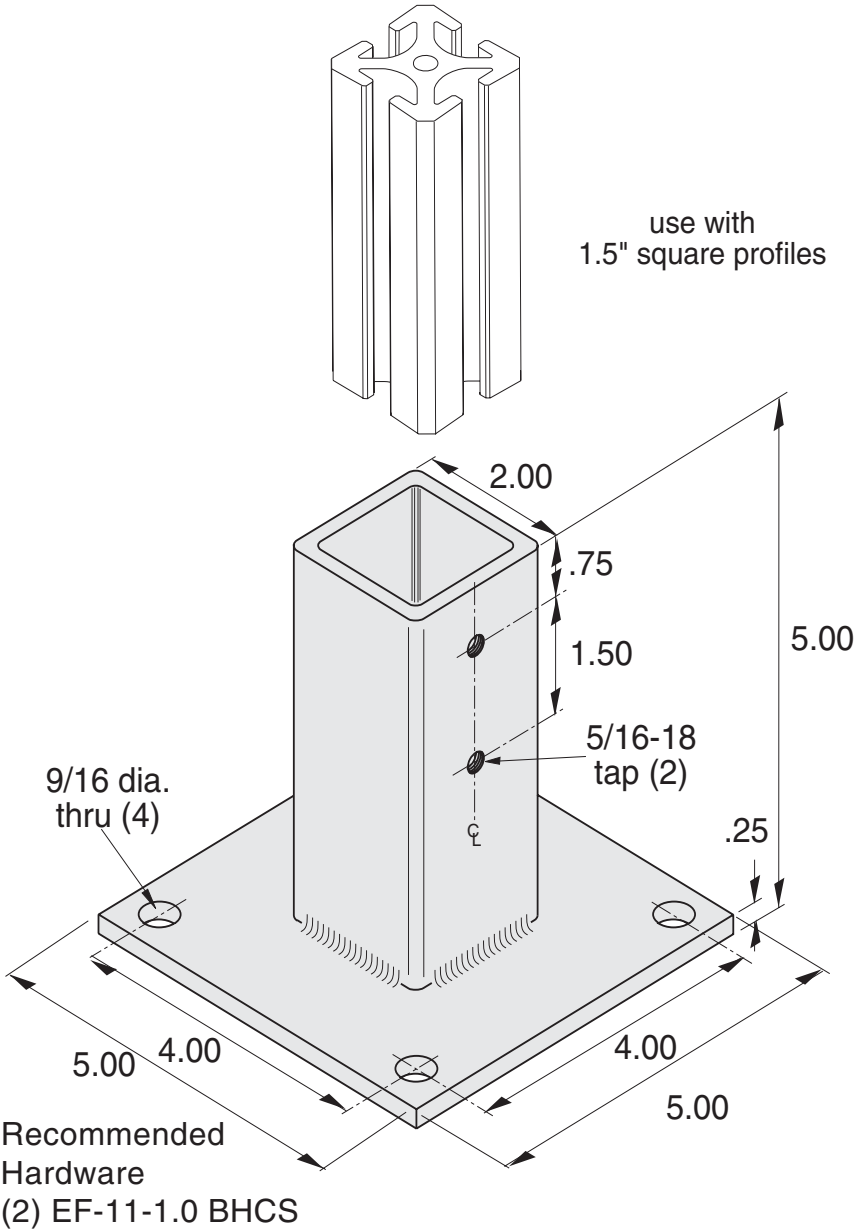
Recommended
Hardware
(2) EF-12-.75 BHCS
(2) EF-2 T-nut

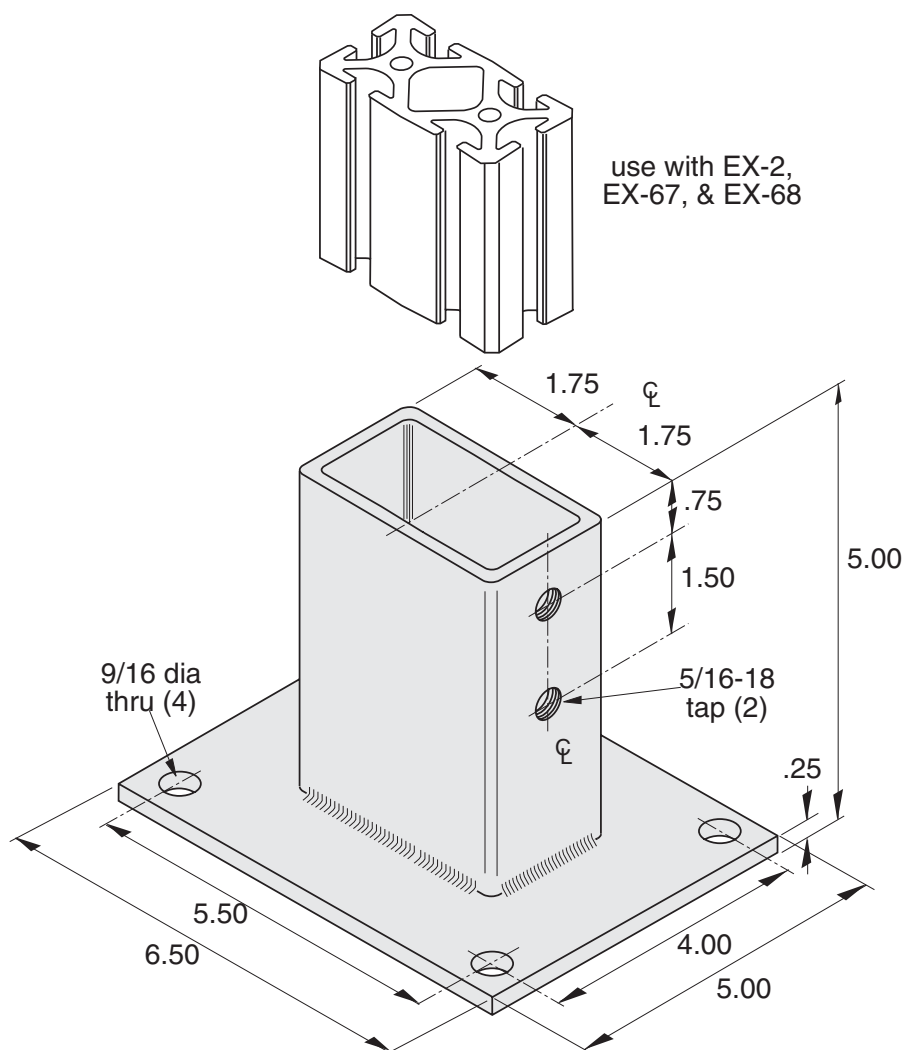
Material - Aluminum
Finish - Clear Anodize



EB-41

5/16" SLOTS





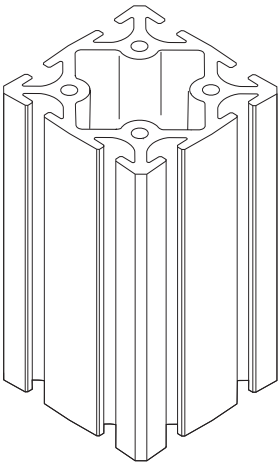
5/16" SLOTS

Recommended
Hardware
(2) EF-11-1.0 SHCS

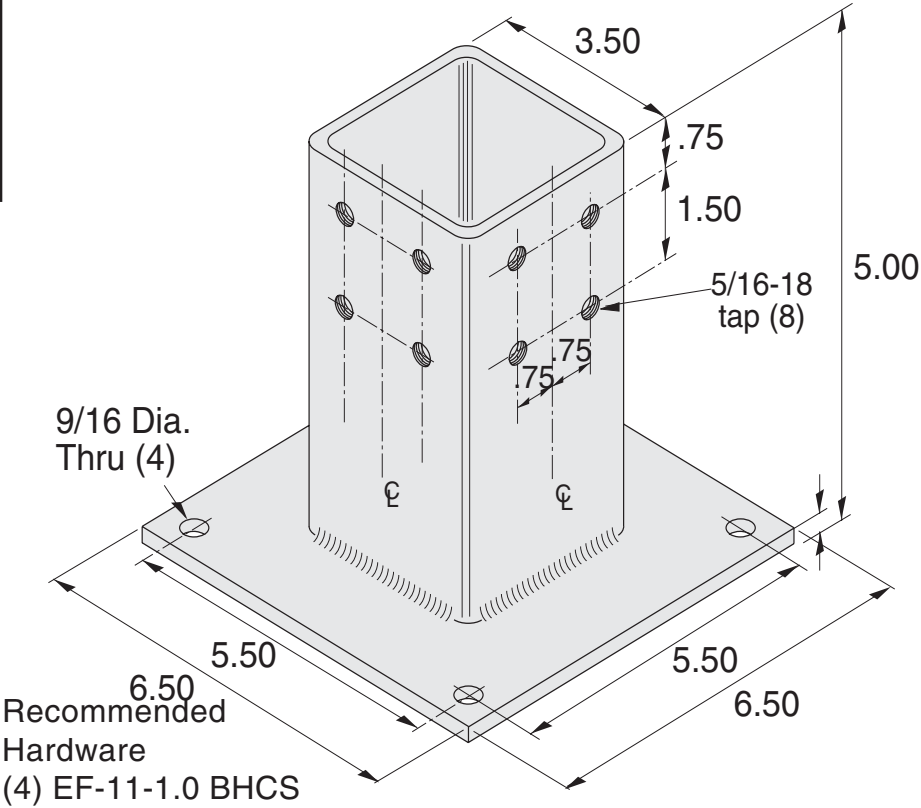
Material - Steel
Finish - Black Powder Coat

EB-43

5/16" SLOTS



use with
EX-3



Material - Steel
Finish - Black Powder Coat

12 gage wire 1"x1" opening - Black
Yellow

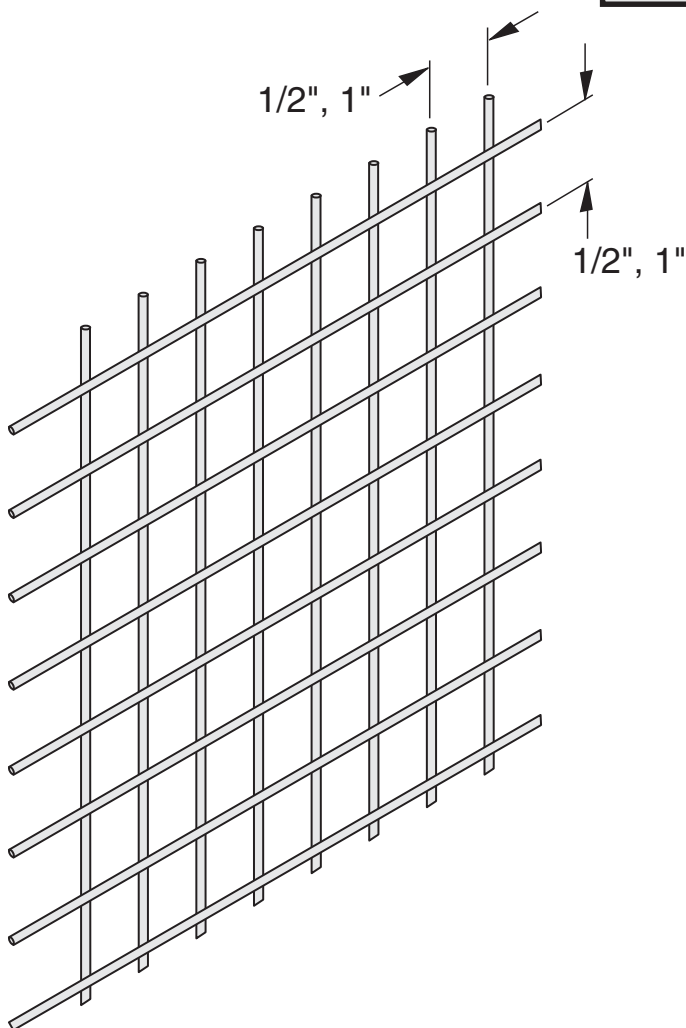
EB-38-1

EB-38-1Y

16 gage wire 1/2"x 1/2" opening - Black
Yellow

EB-38-1/2

EB-38-1/2Y



5/16" SLOTS

Sheet size - 48" x 96"

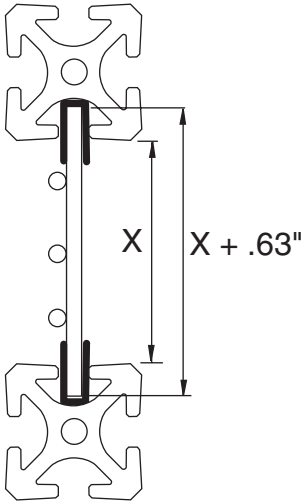
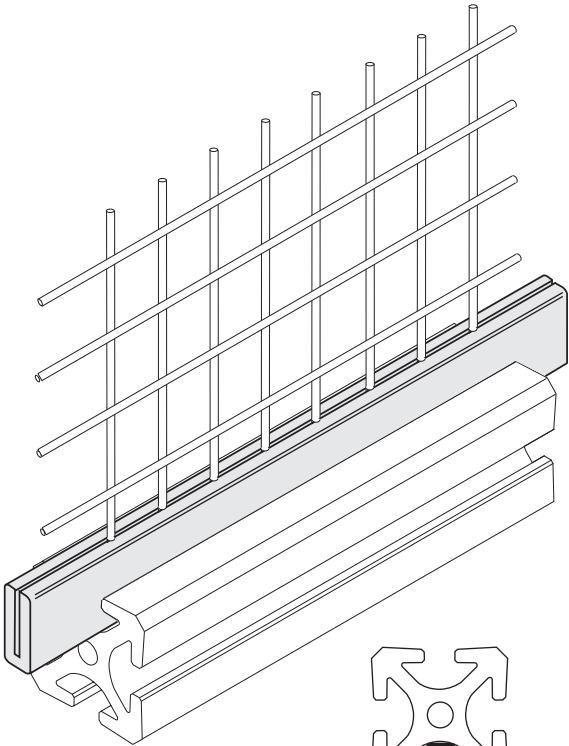
Material - PVC Coated Steel
Yellow or Black

Wire Mesh (Black Rubber)
Retaining Strip



EB-38G Use with EB-38-1 or EB-38-1/2

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

EB-39A

EB-39B

All Hardware
Included

EF-4

EF-2D

EB-39A

EB-39B

5/16" SLOTS

X

X + .75"

Cut wire
mesh to
X + .75"

Note:
Leave
comb

Material - Steel
Finish - Black Powder Coat

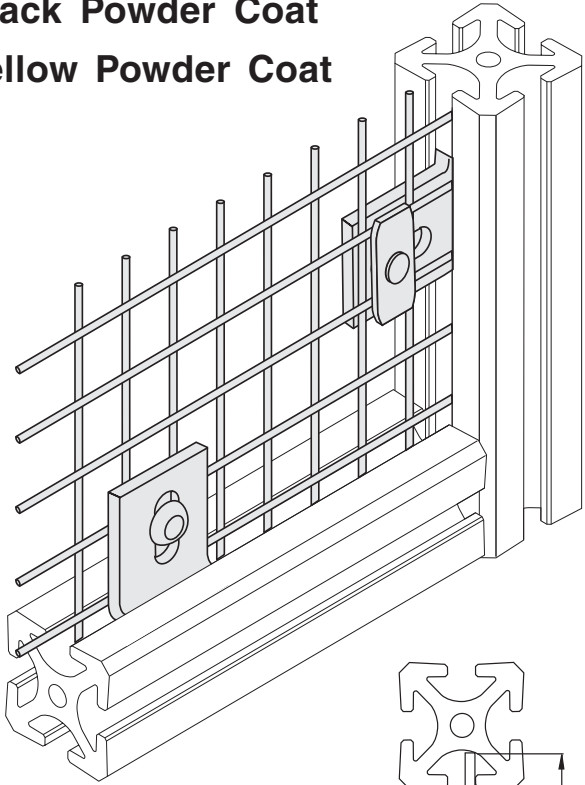
EB-49B

Black Powder Coat

EB-49Y

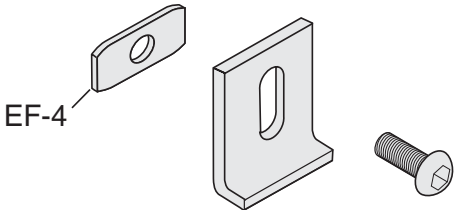
Yellow Powder Coat

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



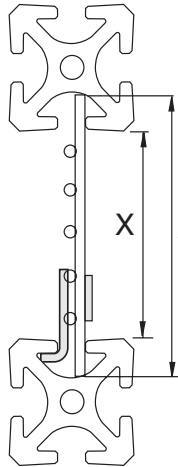
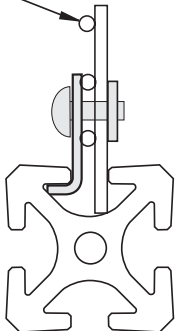
5/16" SLOTS

Hardware Included



crossing wire

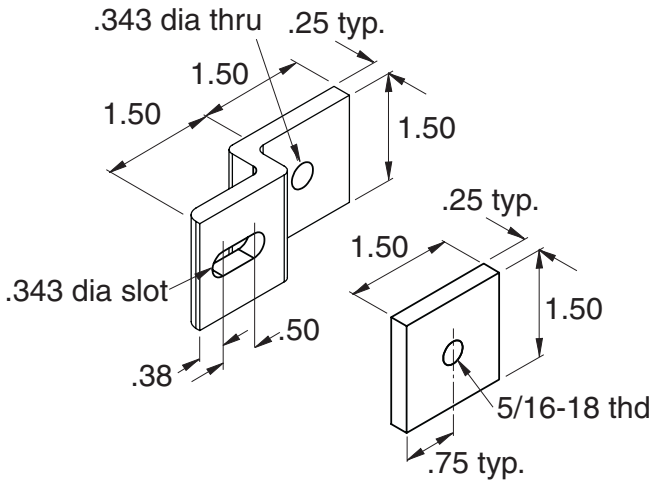
Note: to assure
proper clamping,
assemble bracket
on crossing wire
side of wire mesh



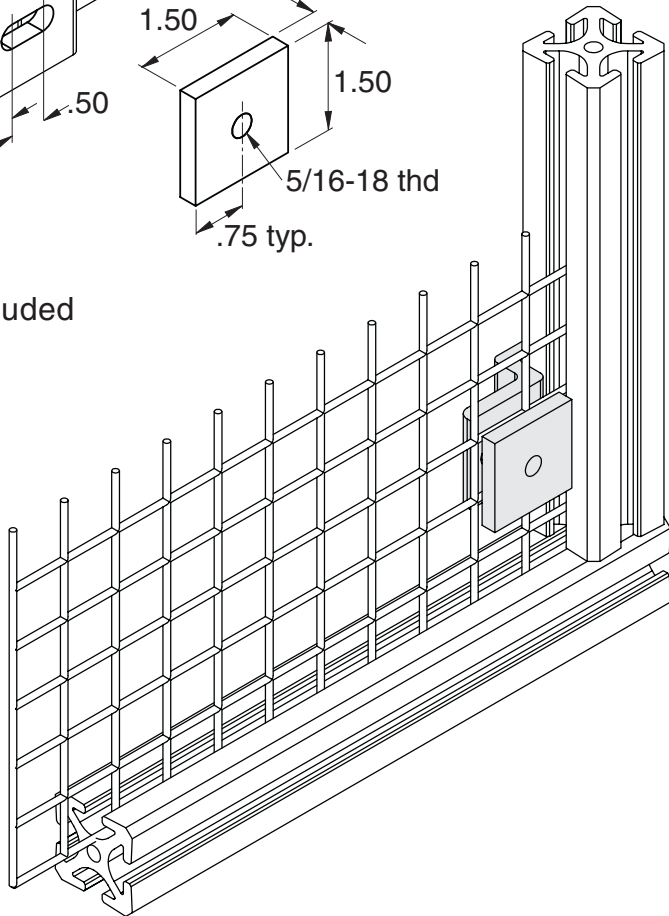
Cut wire
mesh to
 $X + .75"$

Note:
Leave
comb

Material - Powder Coated Steel



Hardware Included



5/16" SLOTS

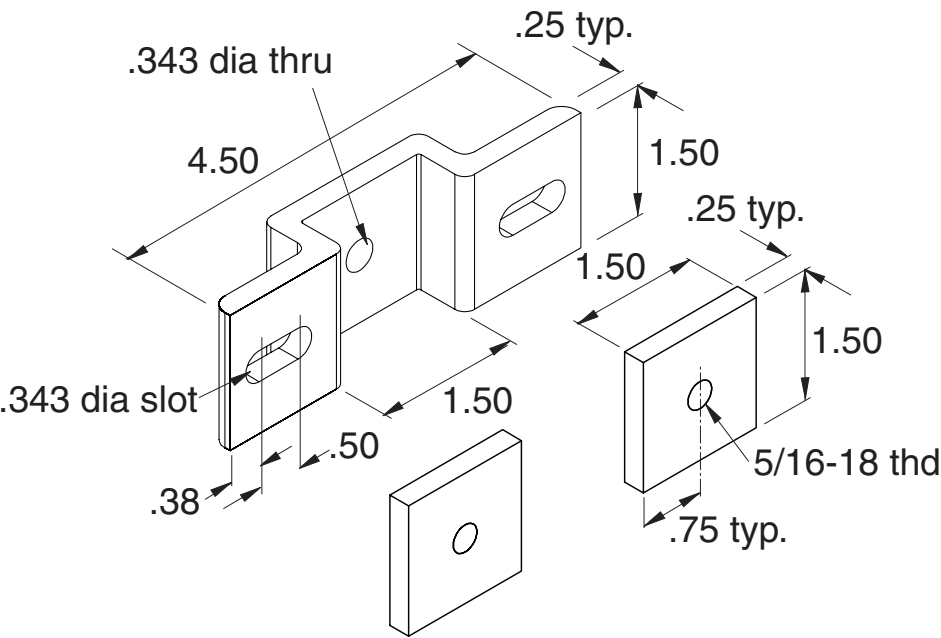
Material - Aluminum
Finish - Clear Anodize

Double Wire Mesh Bracket

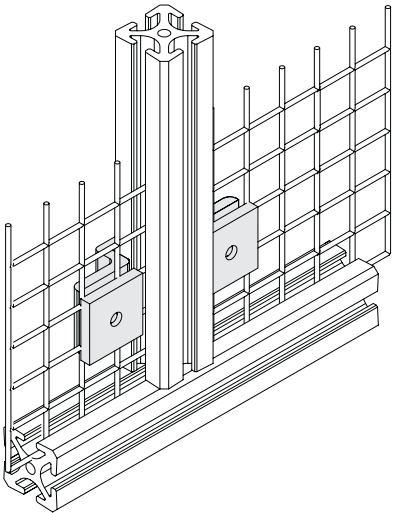


EB-64

5/16" SLOTS



Hardware Included

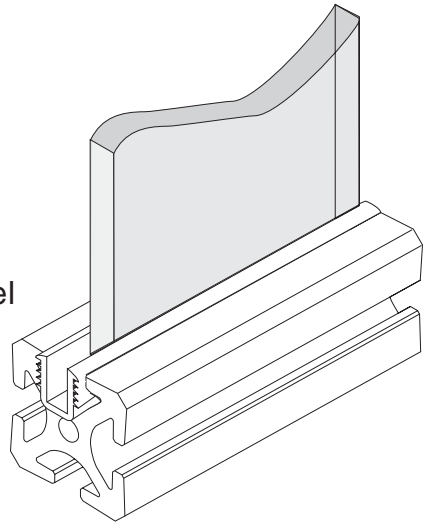


Material - Aluminum
Finish - Clear Anodize



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-165** Polycarb 3/16" Clear Panel
- EB-166** Polycarb 3/16" Bronze Panel
- EB-170** Acrylic 1/4" Clear Panel
- EB-171** Acrylic 1/4" Bronze Panel
- EB-172** Acrylic 1/4" Black Panel
- EB-175** Acrylic 3/16" Clear Panel
- EB-176** Acrylic 3/16" Bronze Panel
- EB-177** Acrylic 3/16" Black Panel
- EB-180** ABS-Haircell 1/4" Black Panel
- EB-181** ABS-Haircell 3/16" Black Panel
- 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



Cut to size panels can be furnished on request.

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

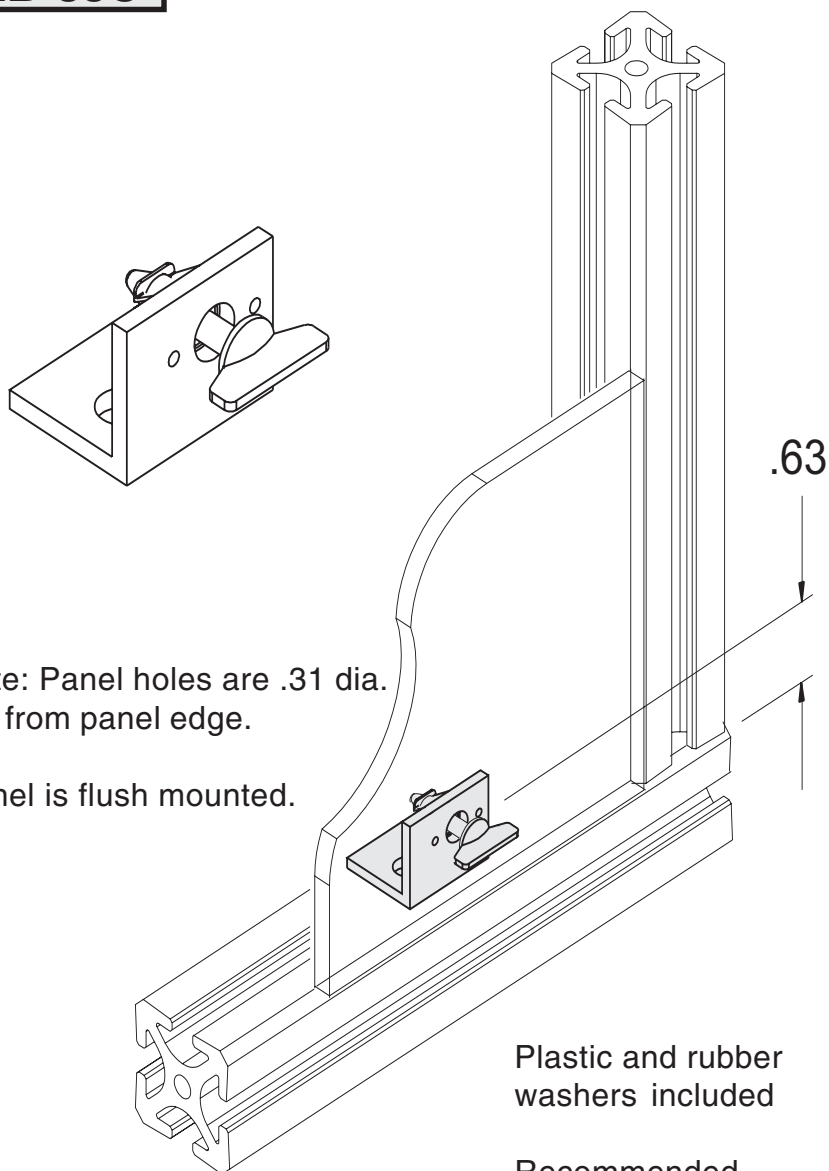
For panels with any side larger than 48",
order EM-4L cutting service.

1/4 Turn Panel Bracket



| | |
|---------------|-------------------------|
| EB-88A | .235 Thick Panel |
| EB-88B | .220 Thick Panel |
| EB-88C | .170 Thick Panel |

5/16" SLOTS

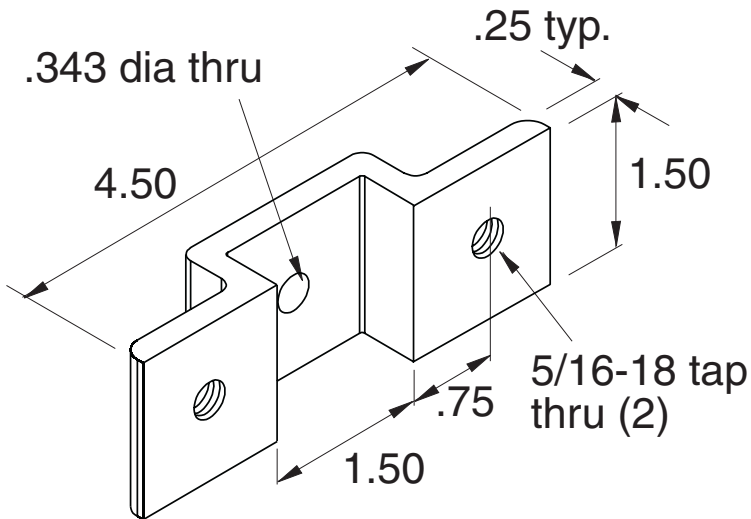


Note: Panel holes are .31 dia.
.63 from panel edge.

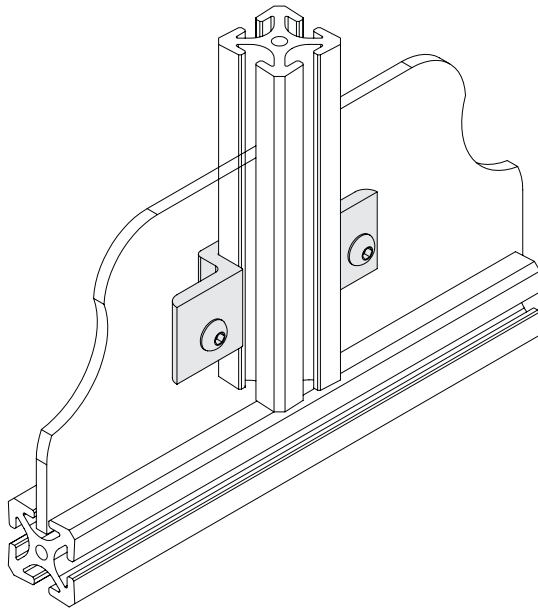
Panel is flush mounted.

Plastic and rubber
washers included

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



Hardware Included



Material - Aluminum
Finish - Clear Anodize

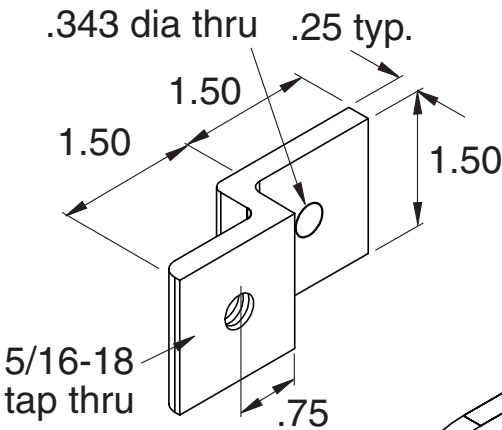
5/16" SLOTS

Panel Bracket

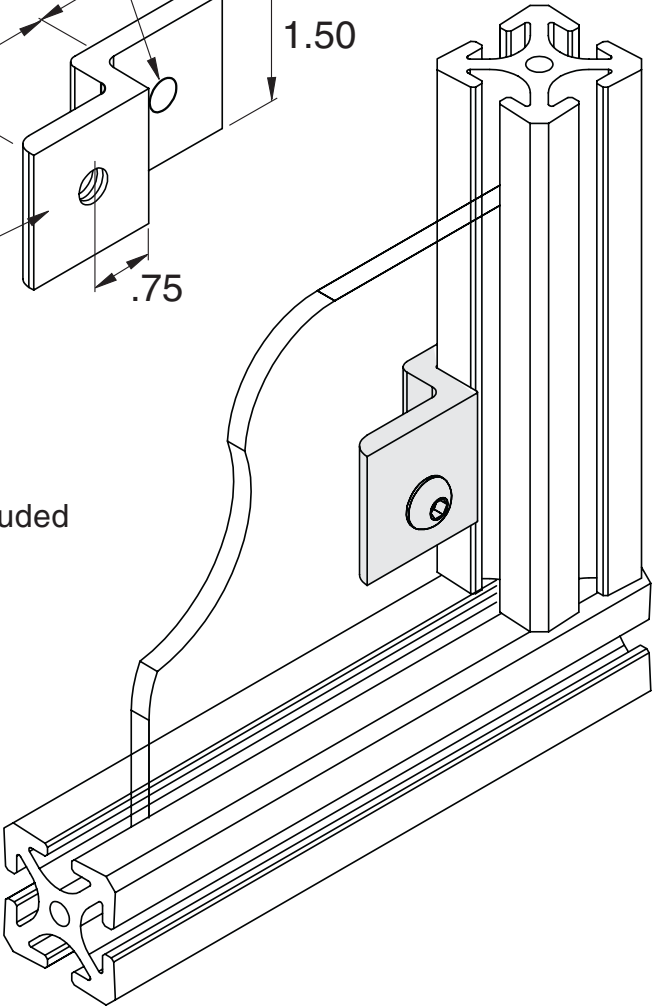


EB-62

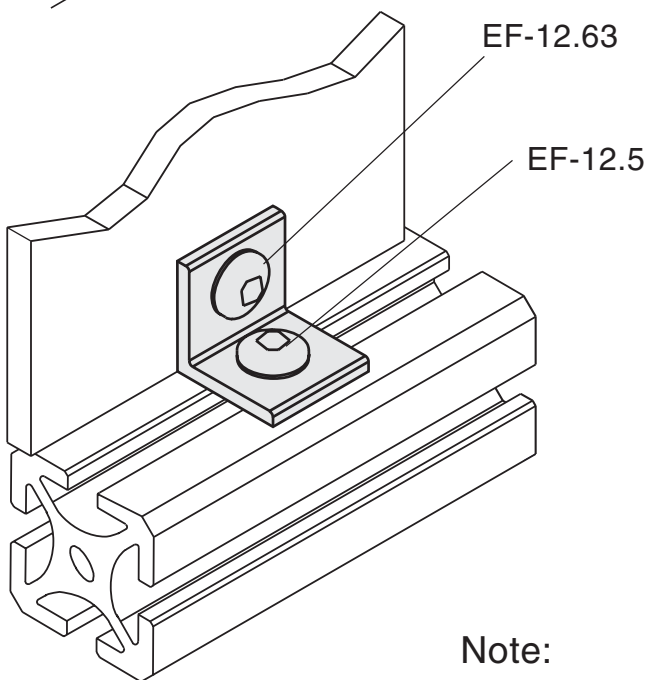
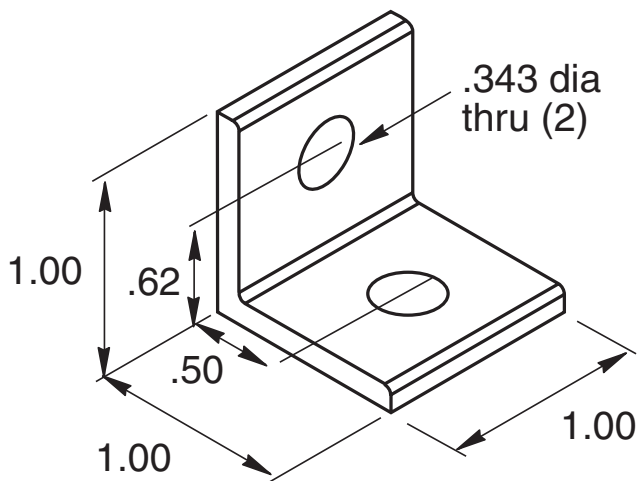
5/16" SLOTS



Hardware Included



Material - Aluminum
Finish - Clear Anodize



**Recommended
Hardware**

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

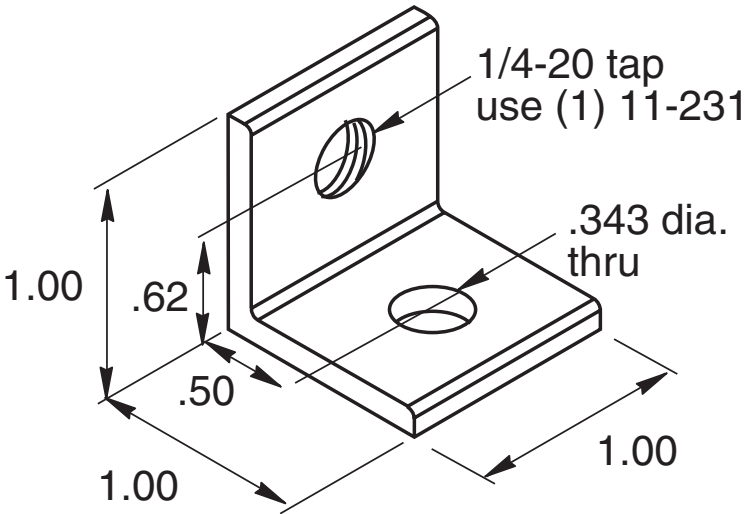
Note:
Allows flush
mount of panel

Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

EB-80

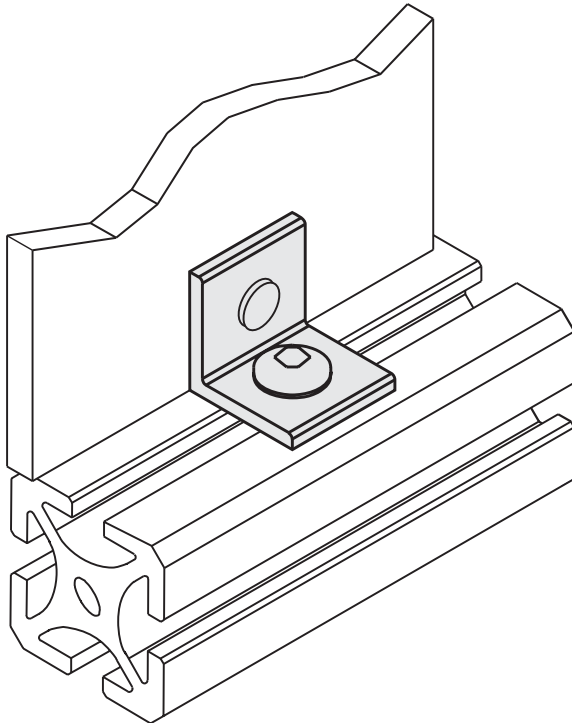
5/16" SLOTS



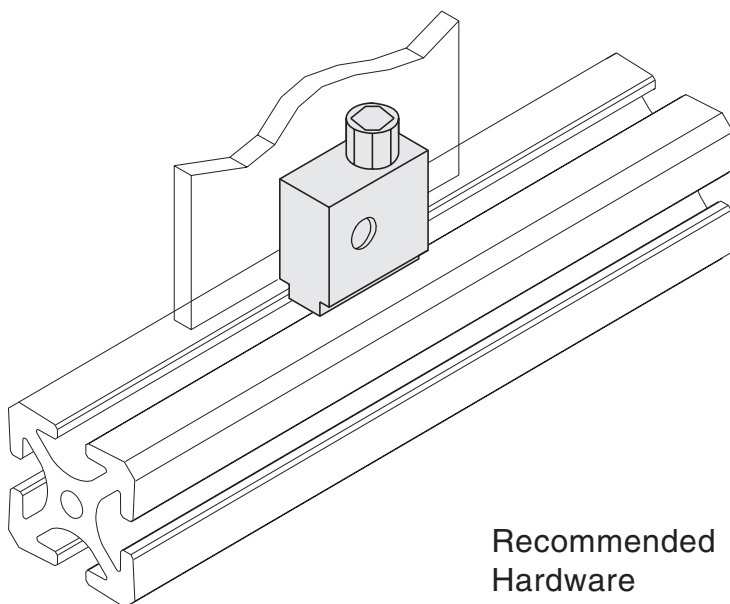
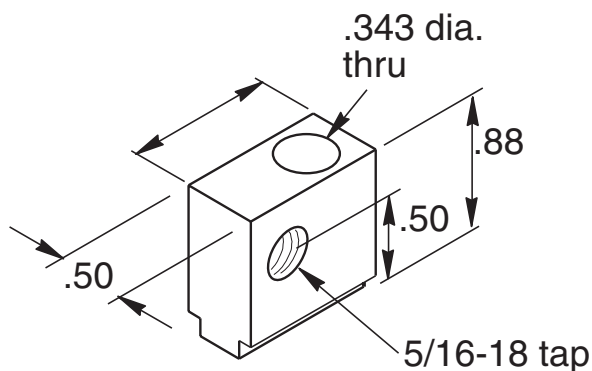
Note:
Allows flush
mount of panel

Recommended
Hardware

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



Material - Aluminum
Finish - Clear Anodize

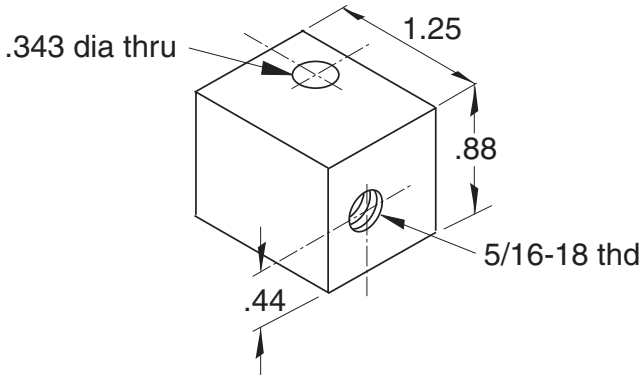


**Recommended
Hardware**
(1) EF-11-1.25 SHCS
(1) EF-12-.63 BHCS
(1) EF-2 T-nut

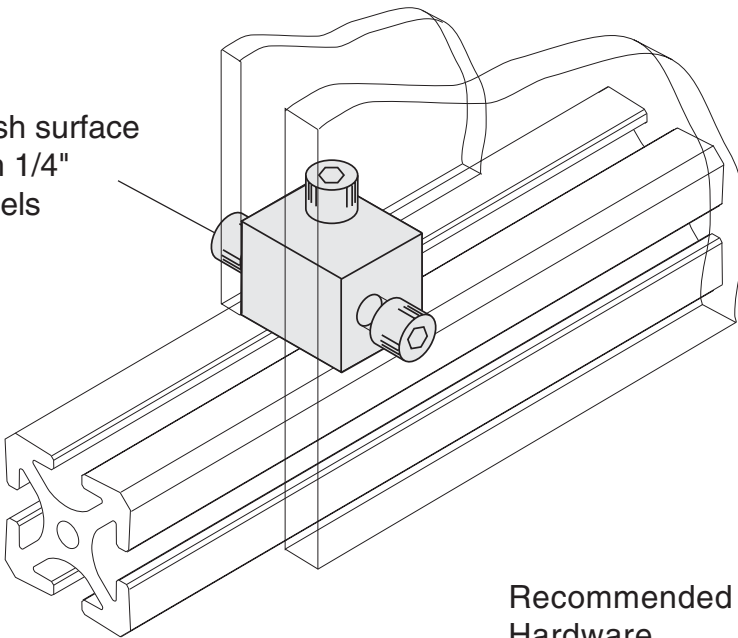
Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS

EF-25B

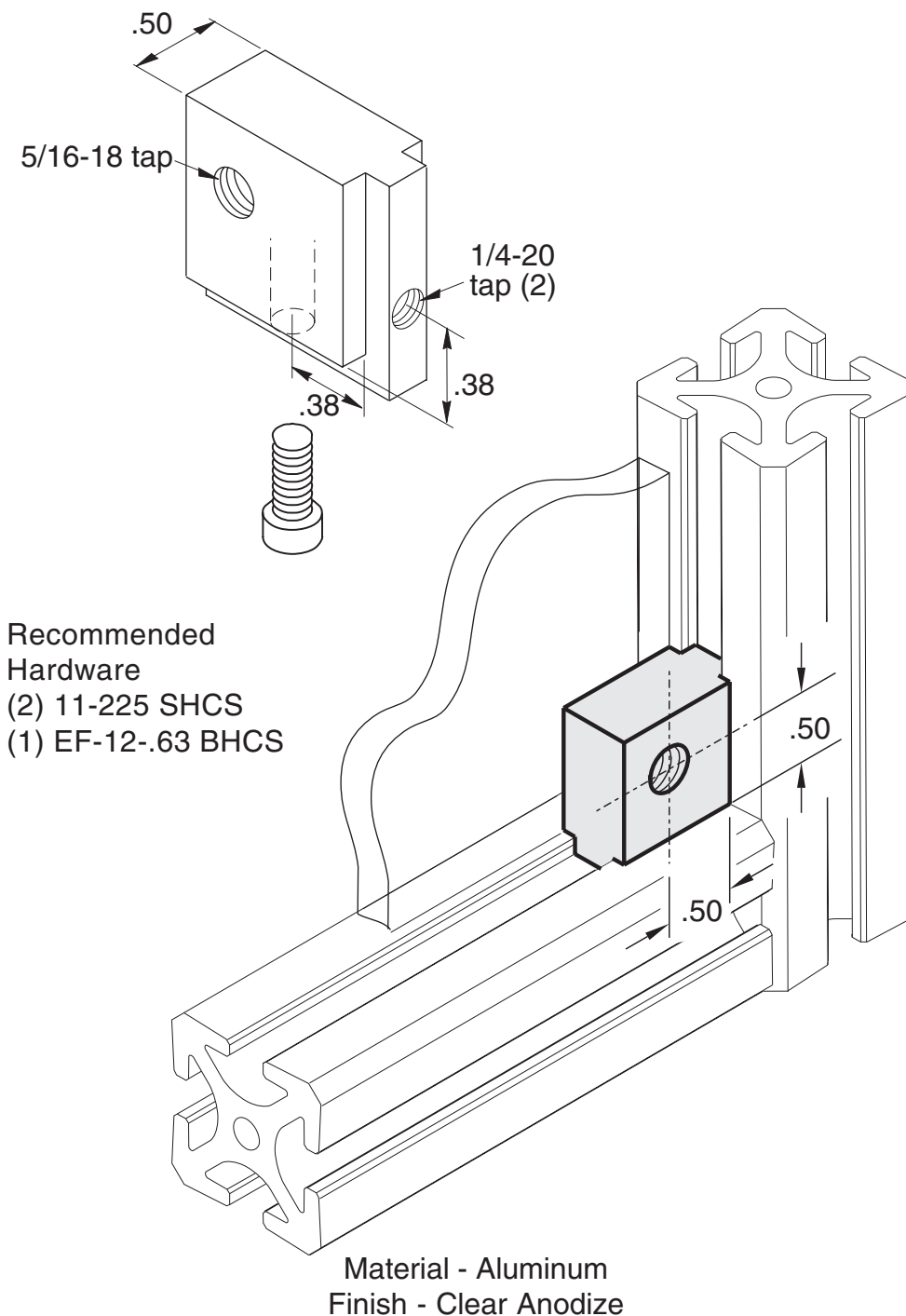


Flush surface
with 1/4"
panels



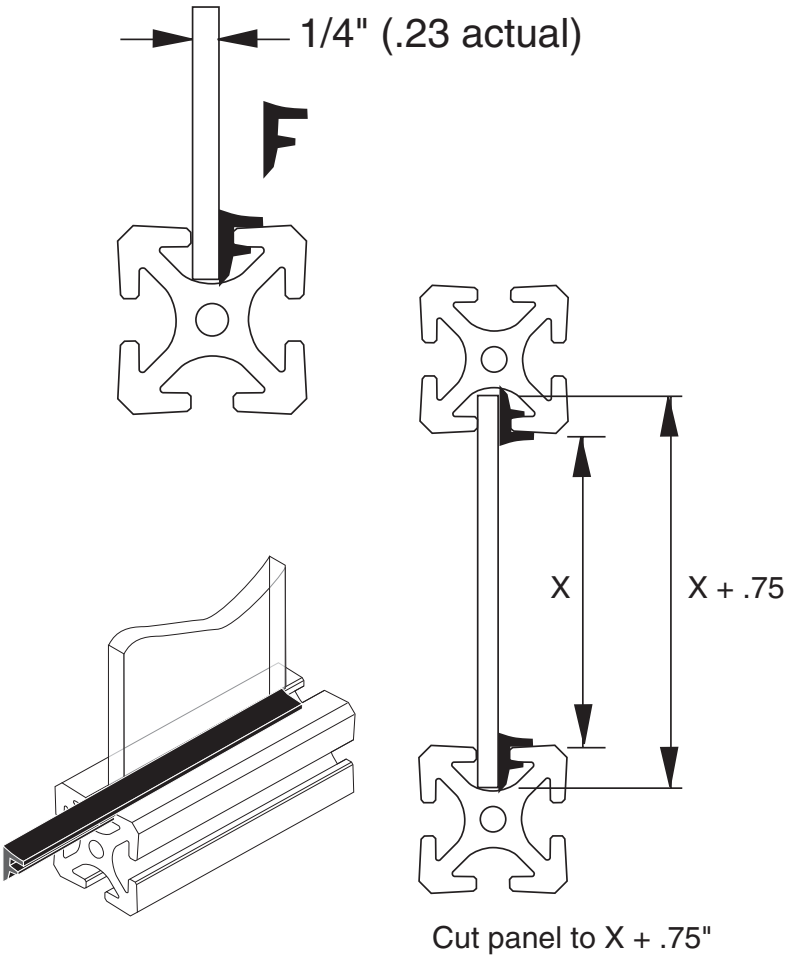
**Recommended
Hardware**
(1) EF-11-1.25 SHCS
(1) EF-12-.63 BHCS
(1) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



EB-40

5/16" SLOTS



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

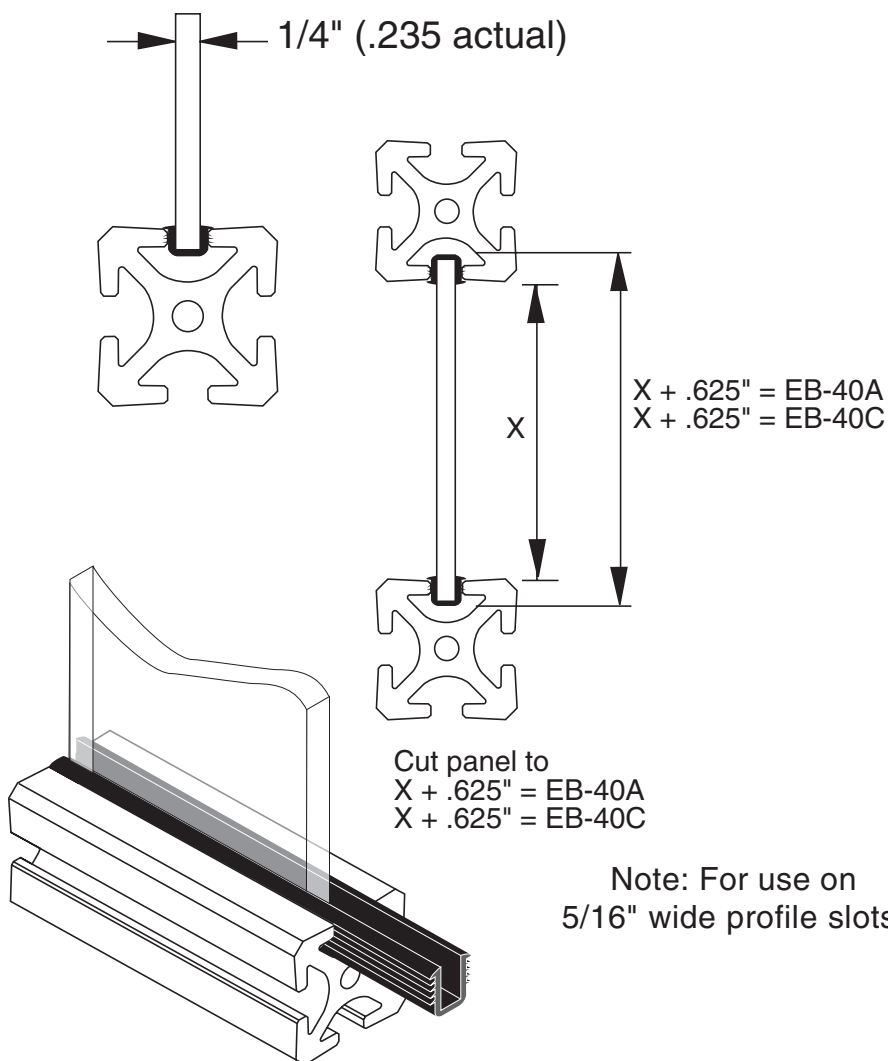
Material - Flexible PVC (Black)

Slip Fit

EB-40A

Interference Fit

EB-40C

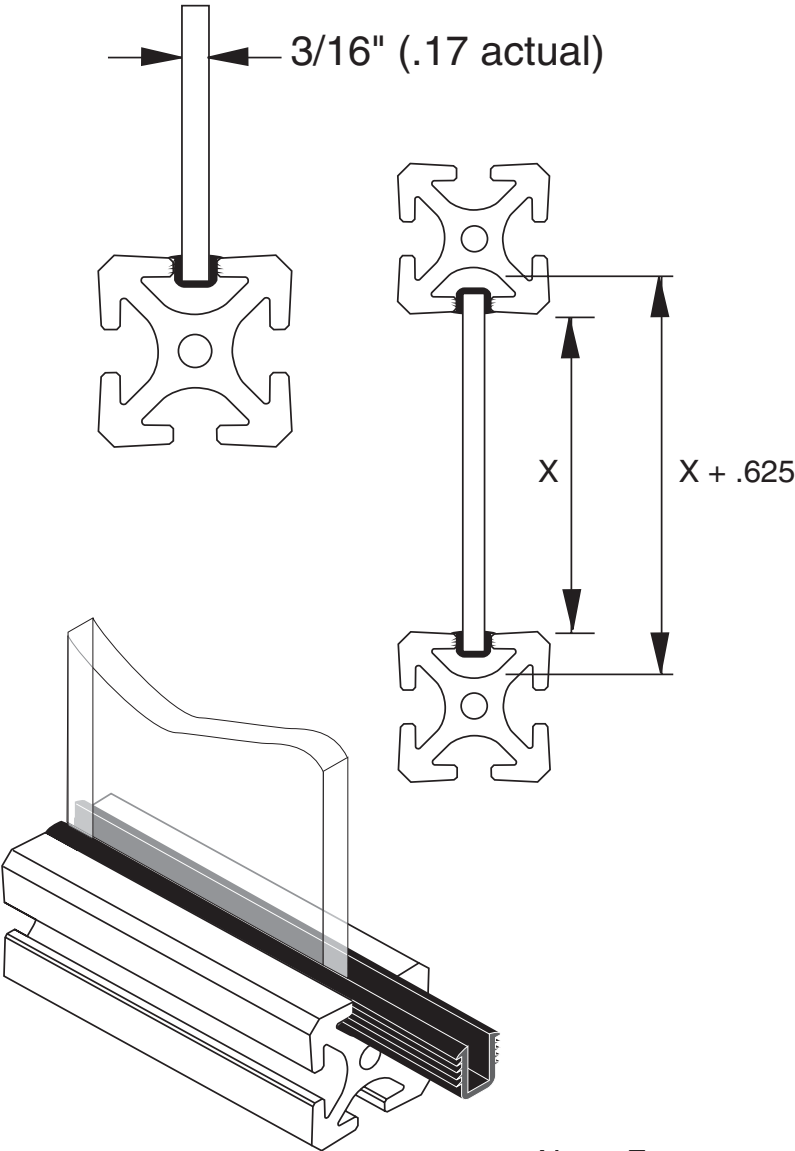


5/16" SLOTS

Material - Flexible PVC (Grey)

EB-40B

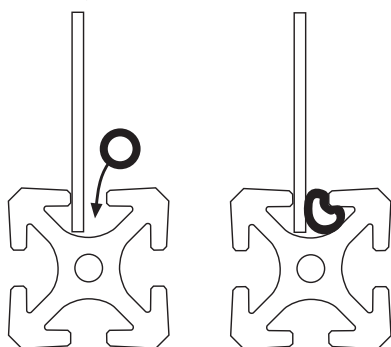
5/16" SLOTS



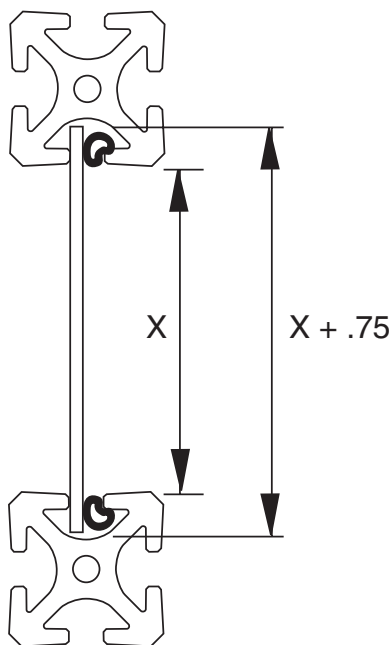
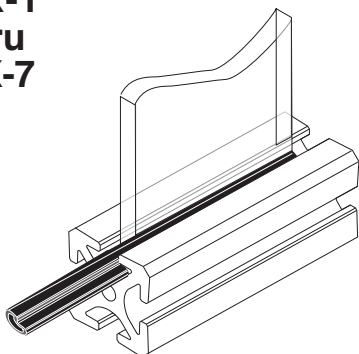
Note: For use on
5/16" wide profile slots.

Material - Flexible PVC (Grey)

(12) gage to
(16) gage panels



**EX-1
thru
EX-7**



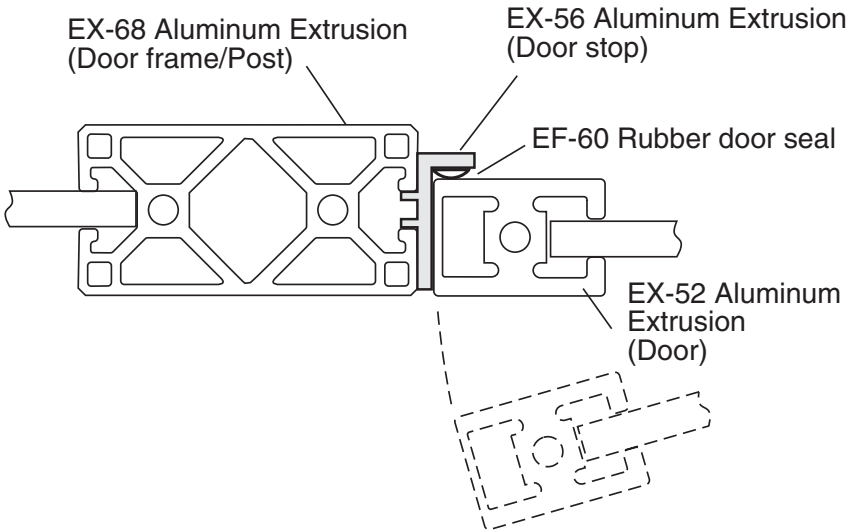
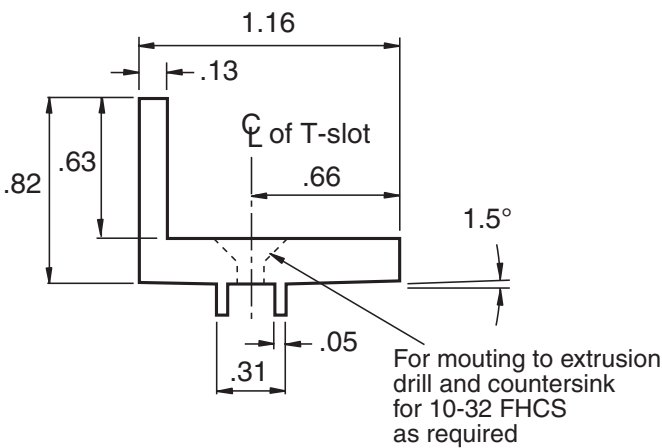
Cut panel to $X + .75$ "

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

Material - Rubber (Black)

5/16" SLOTS

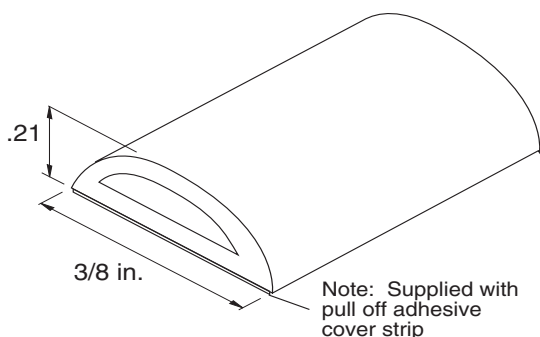
EX-56



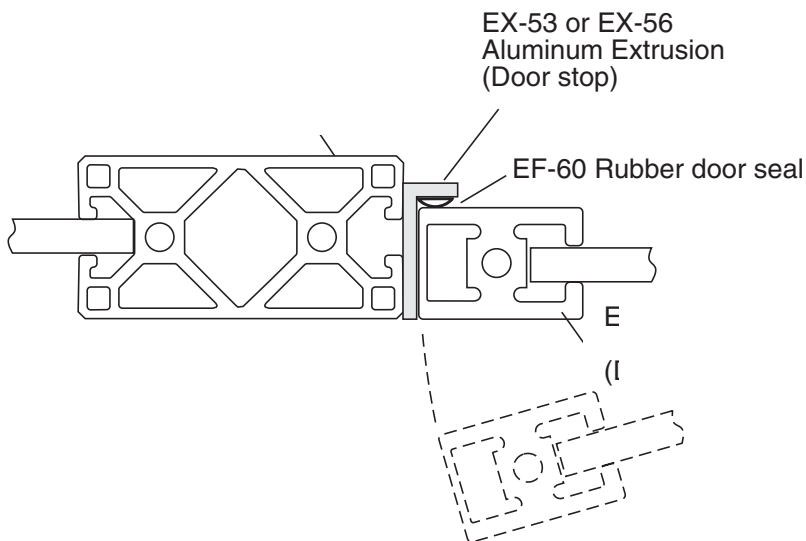
Standard size 96" and 192", sold by the inch

Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS



Example: Door Frame Cross-Section

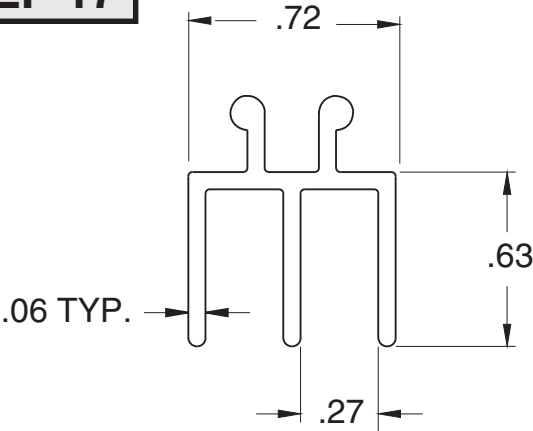


Door Slides (2 Tracks) 5/16" slots



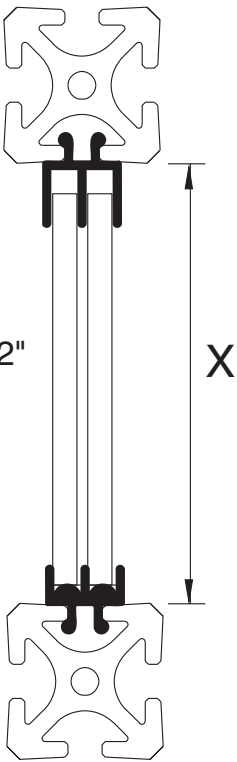
| | |
|--------------|--------------------------------------|
| EF-17 | Upper Door Slide Track (1/4" panels) |
| EF-18 | Lower Door Slide Track (1/4" panels) |

EF-17

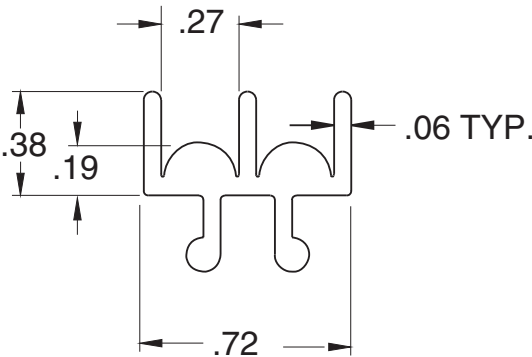


Material - Rigid PVC

Cut Panels to X - 1/2"



EF-18



Material - Rigid PVC
Sold in 6 ft. lengths

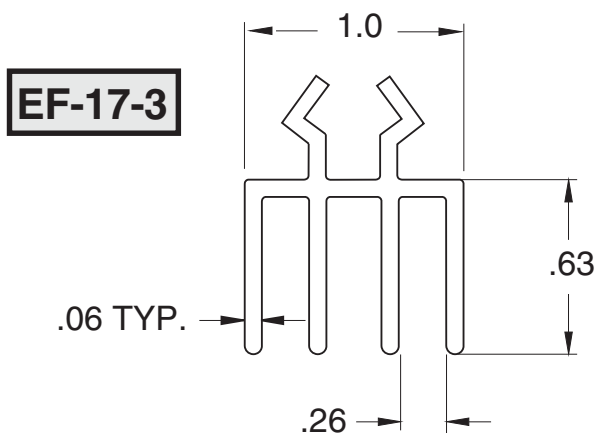
5/16" SLOTS

Upper Door Slide Track (1/4" panels)

EF-17-3

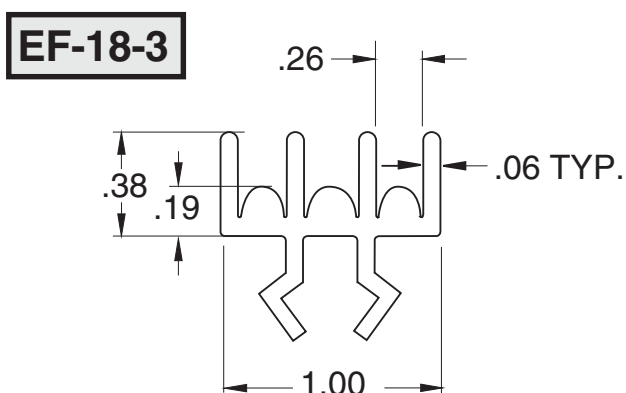
Lower Door Slide Track (1/4" panels)

EF-18-3

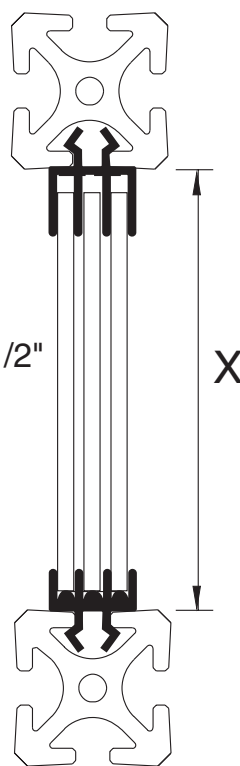


Material - Rigid PVC

Cut Panels to X - 1/2"



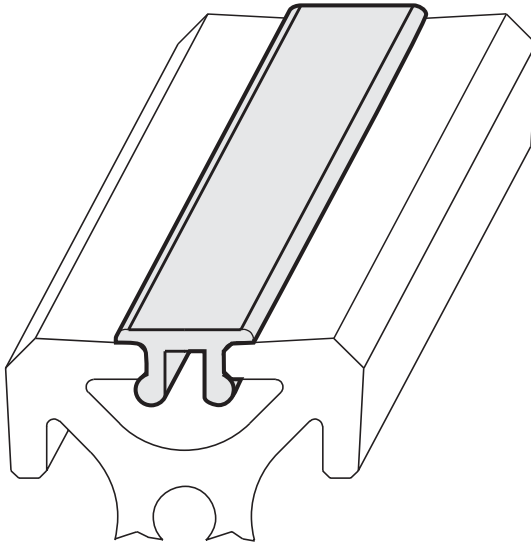
Material - Rigid PVC
Sold in 6 ft. lengths



5/16" SLOTS

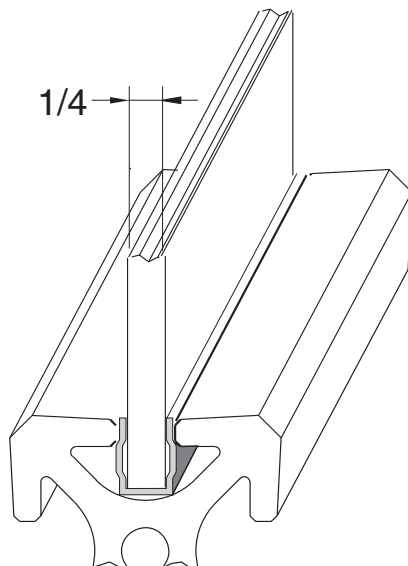
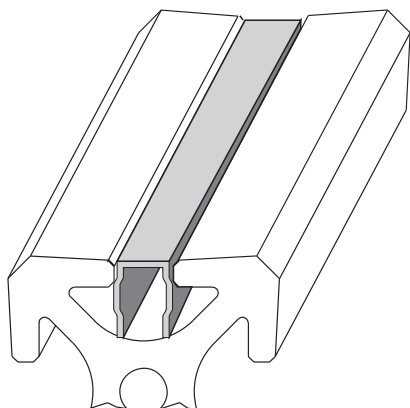
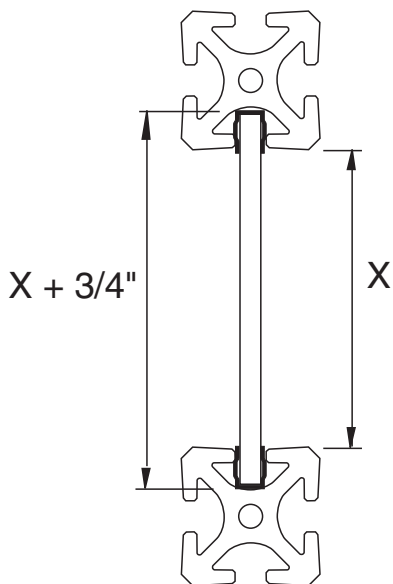
EF-23

5/16" SLOTS



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 |
| EF-23SO | Safety Orange Rigid PVC |


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

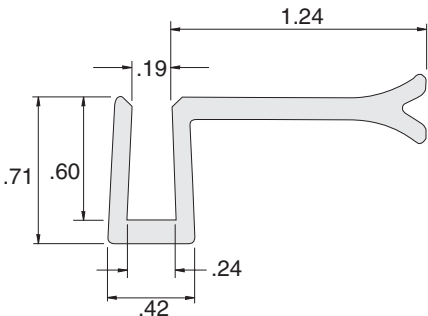
EF-45SO Safety Orange

Material - Rigid PVC

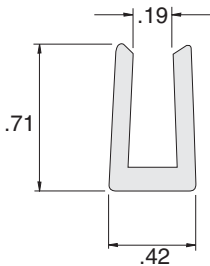
Stiffener for Plastic Panel



| | |
|---------------|-----------------------------|
| EF-140 | Stiffener w/handle |
| EF-141 | Stiffener w/o handle |



EF-140



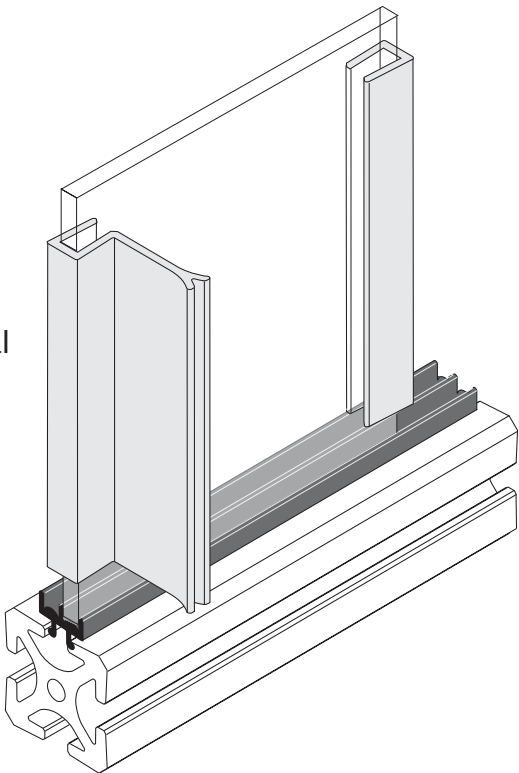
EF-141

5/16" SLOTS

Stocked in 144" lengths
Sold by the inch

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

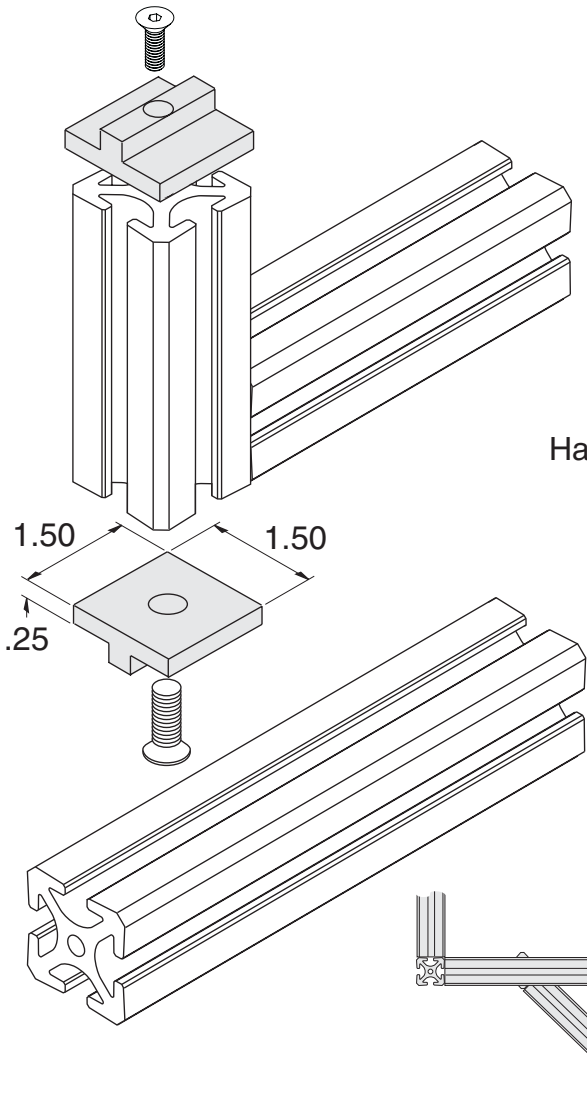
Note: can be used for
swinging, slide and vertical
lift doors.



Material - Aluminum
Finish - Clear Anodize

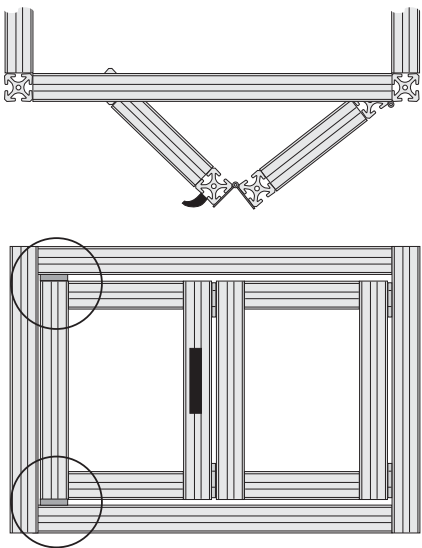
use on 1.5 x 1.5 sq. extrusions with 5/16 wide slots

EF-110



Hardware Included

Material - DELRIN



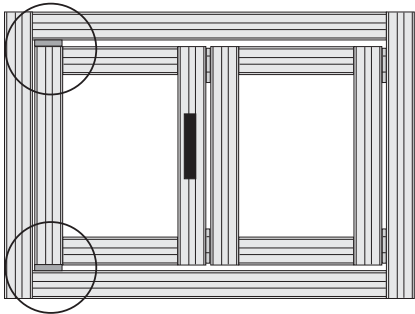
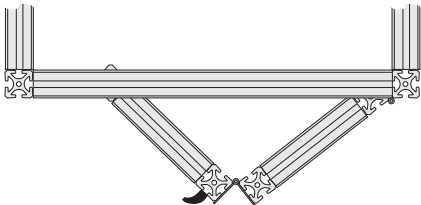
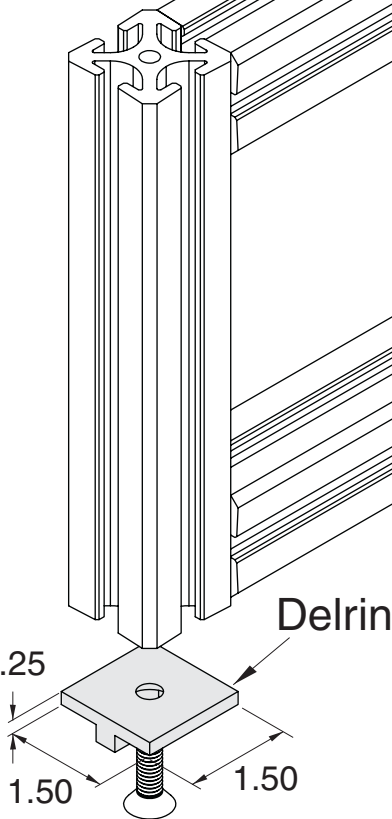
5/16" SLOTS

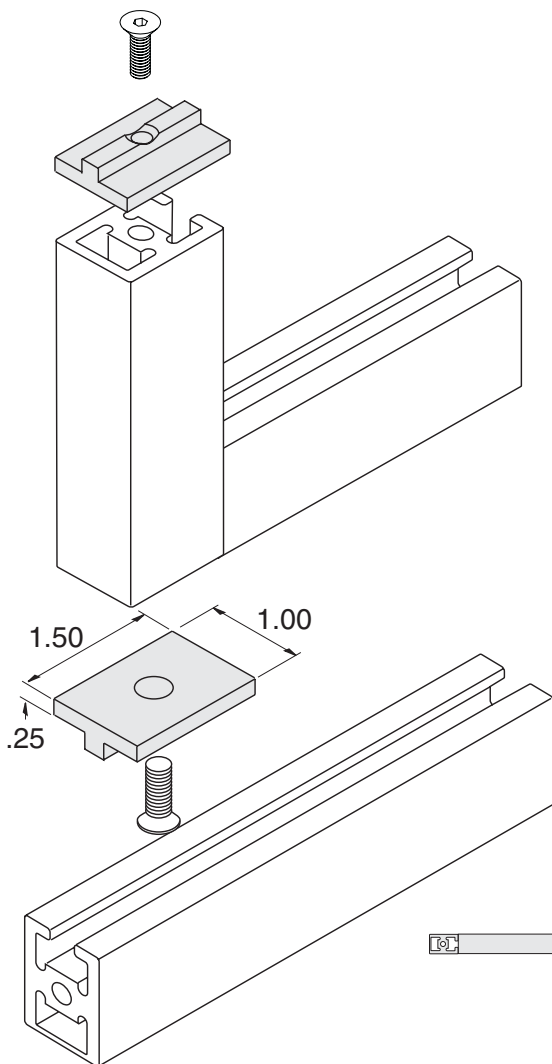
EF-111

5/16" SLOTS



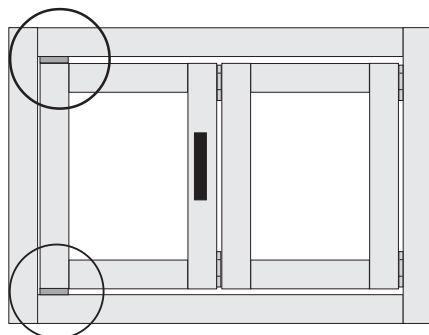
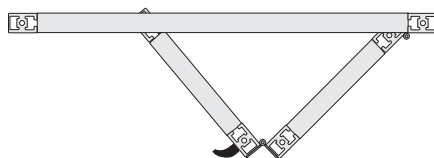
Hardware Included





Hardware Included

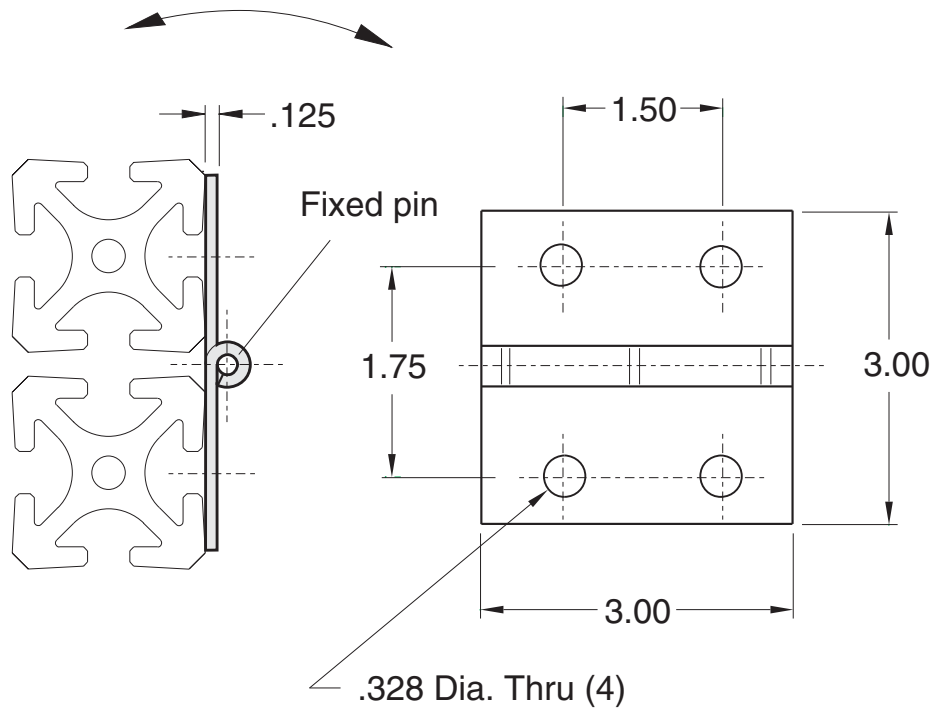
Material - DELRIN



5/16" SLOTS

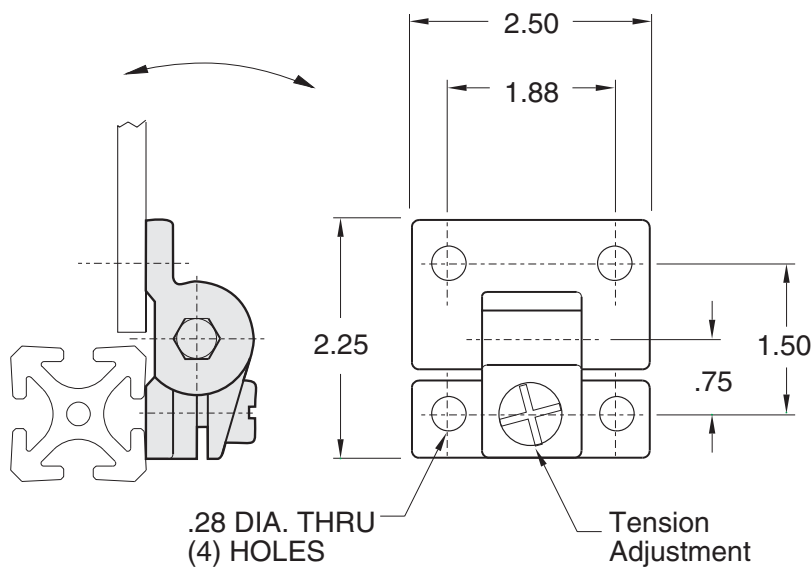
EF-21

5/16" SLOTS



Hardware Included

Material - Aluminum
Finish - Clear Anodize

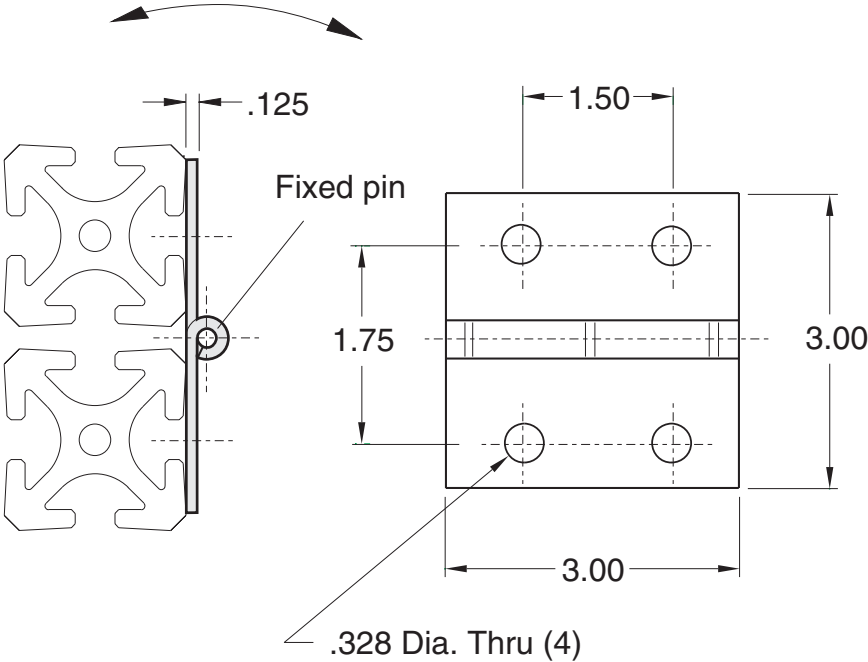

5/16" SLOTS

Hardware Included

Material - Plastic

EF-72

5/16" SLOTS



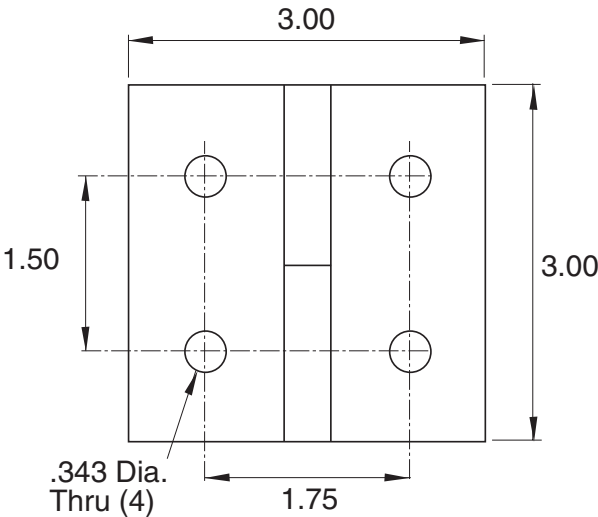
Hardware Included

Material - Steel
Finish - Black Powder Coat

Steel Lift-Off Hinge

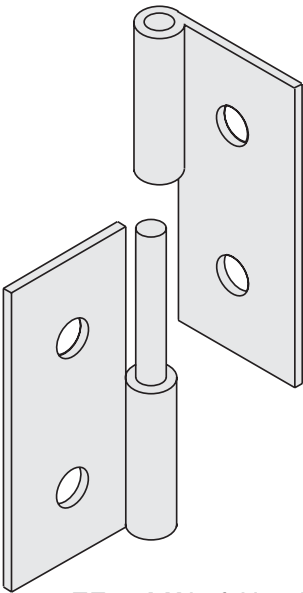


EF-21LH
EF-21RH

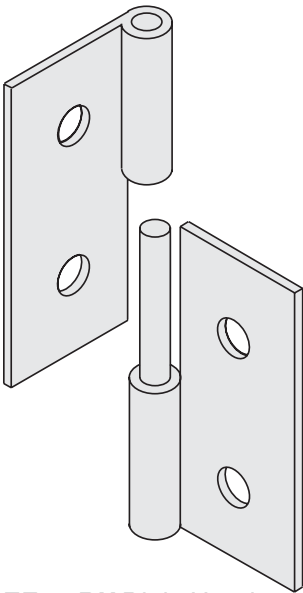


Hardware Included

5/16" SLOTS

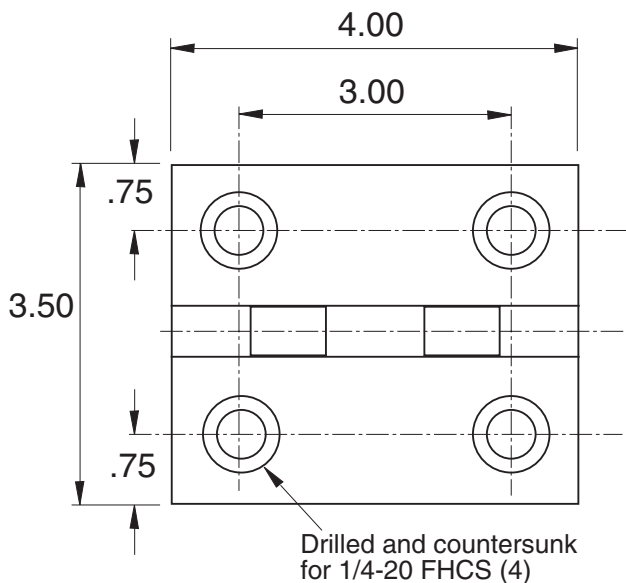


EF-21LH Left Hand

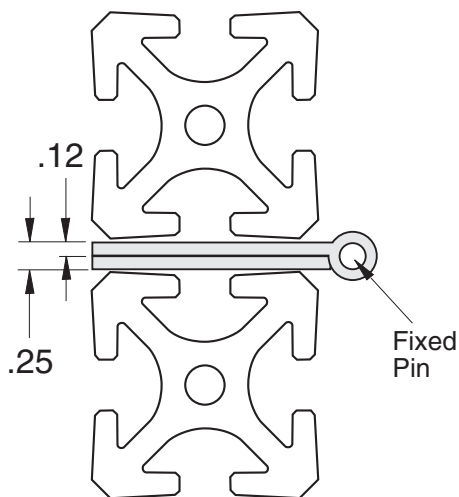
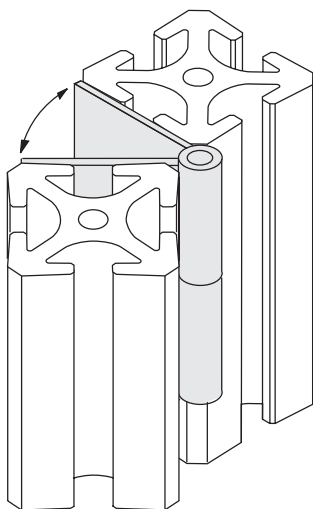


EF-21RH Right Hand

Material - Steel
Finish - Zinc Plated



5/16" SLOTS



Hardware Included

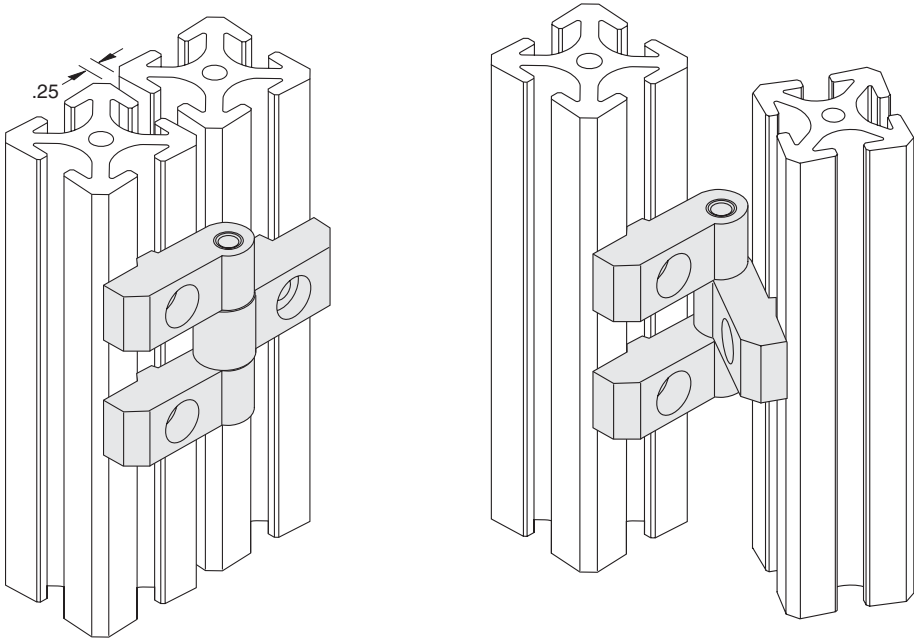
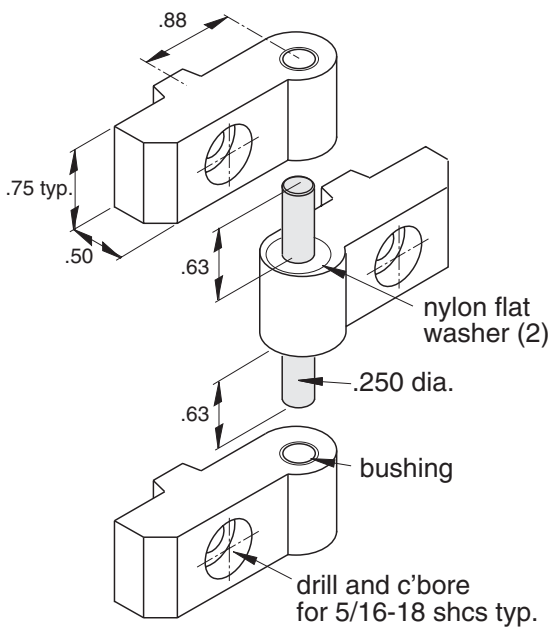
Material - Steel
Finish - Black Powder Coat

Heavy Duty Hinge Assembly



EB-130

5/16" SLOTS



Hardware Included
Material - Aluminum
Finish - Clear Anodize



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

One Set w/Long & Short Pin Assemblies

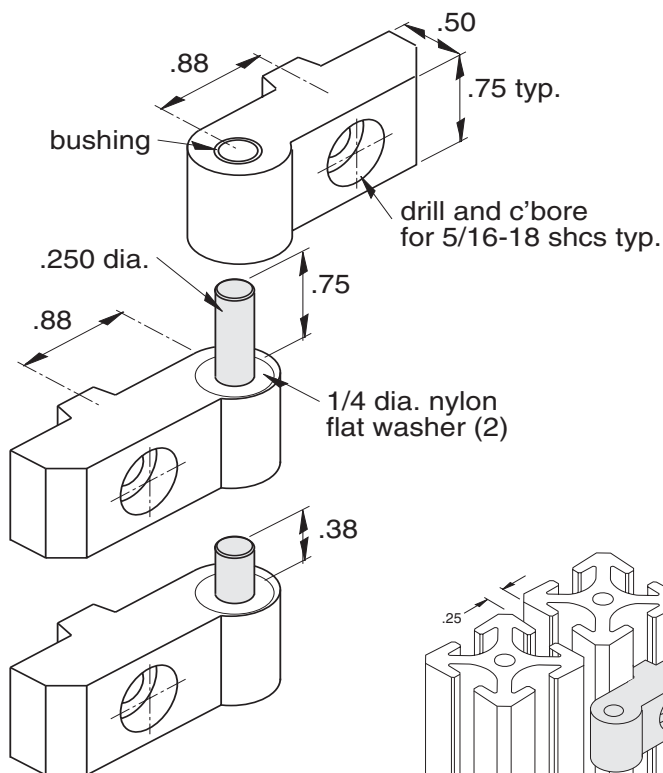
EB-132

Long Pin Assembly Only

EB-132L

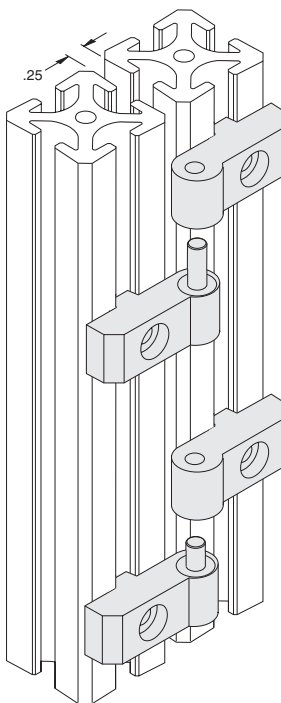
Short Pin Assembly Only

EB-132S



Hardware Included
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

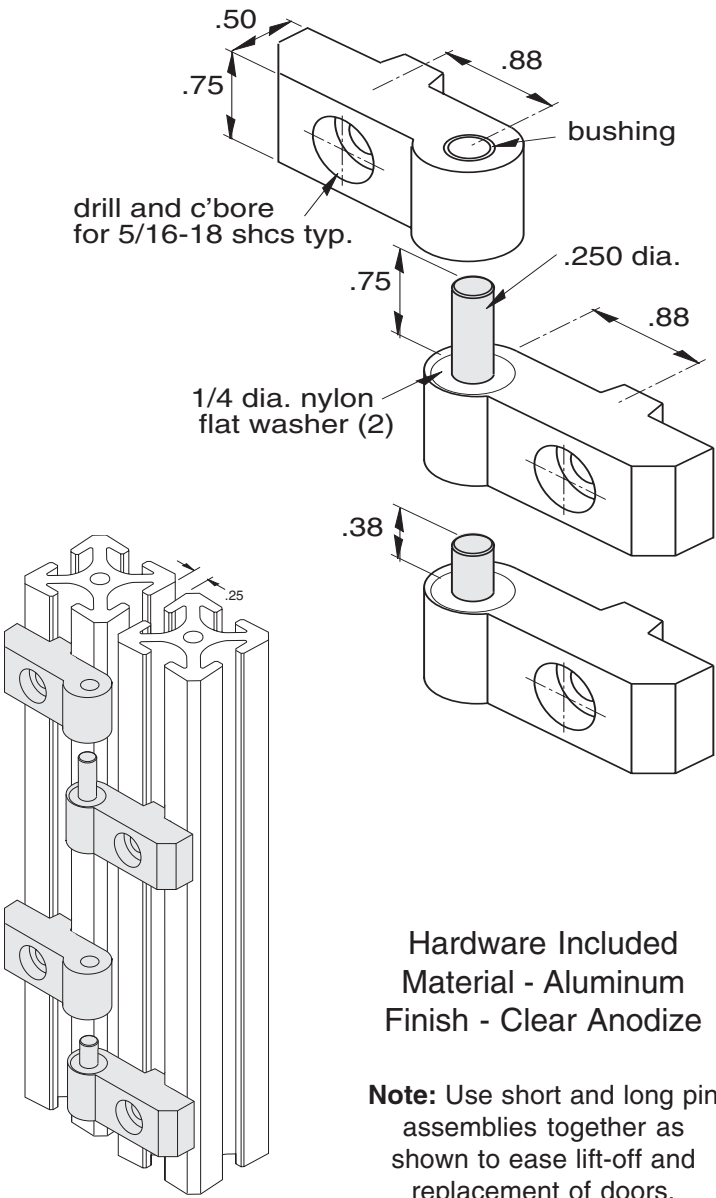
Right Hand Lift-Off Hinge - 5/16" slots



| |
|----------------|
| EB-133 |
| EB-133L |
| EB-133S |

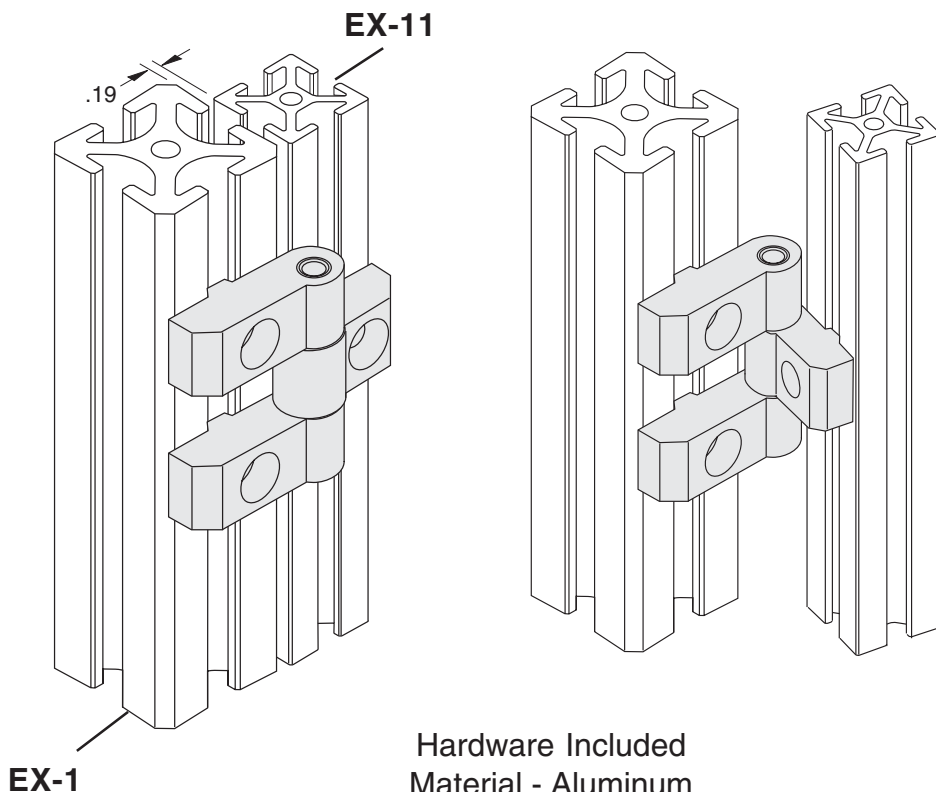
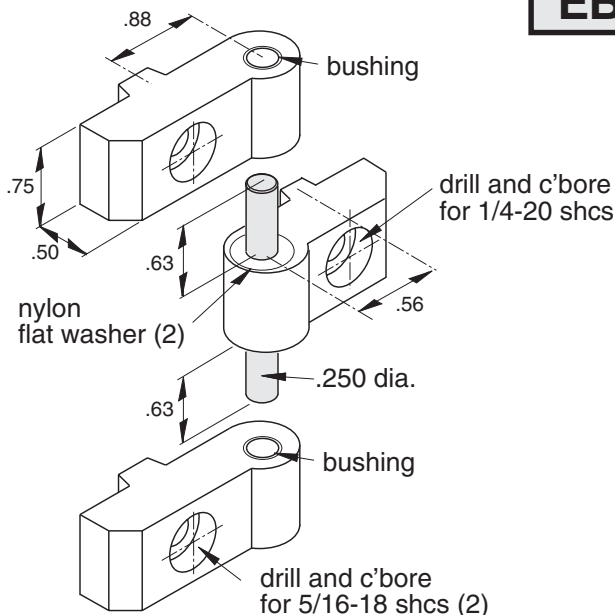
One Set w/Long & Short Pin Assemblies
Long Pin Assembly Only
Short Pin Assembly Only

5/16" 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.



Hardware Included
Material - Aluminum
Finish - Clear Anodize

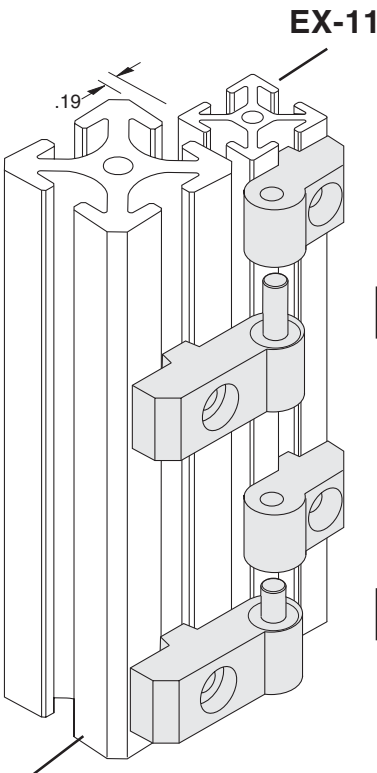
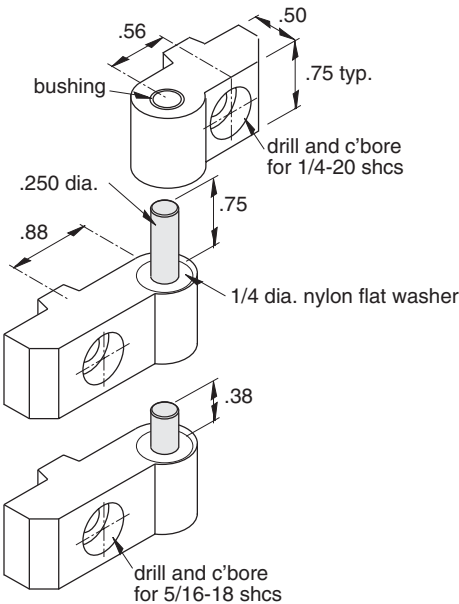
Left Hand Transition Lift-Off Hinge 5/16 - 1/4 slots



| | |
|----------------|---------------------------------------|
| 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 pin assemblies together as shown to ease lift-off and replacement of doors.



EB-142L

EB-142S

EX-1

5/16" SLOTS

One Set w/Long & Short Pin Assemblies

EB-143

Long Pin Assembly Only

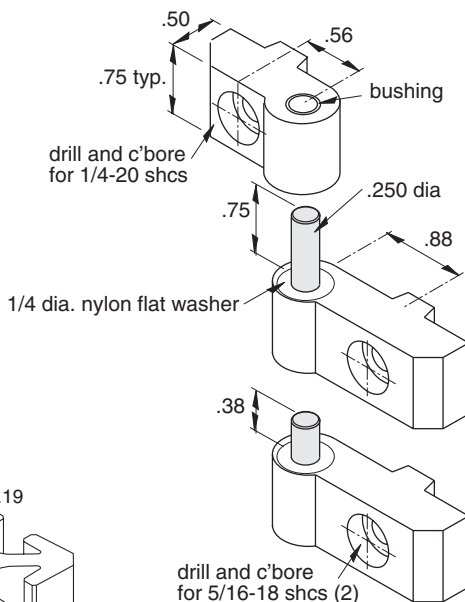
EB-143L

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

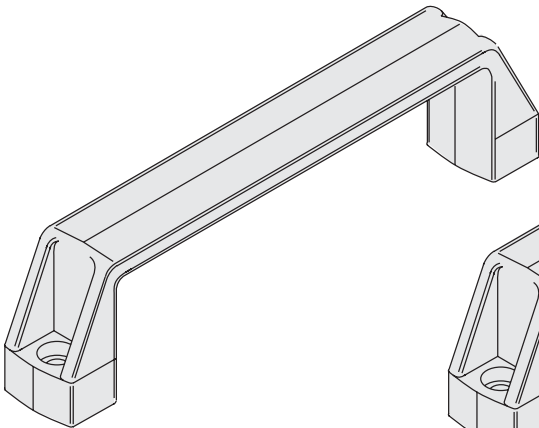
EB-143S

EX-1

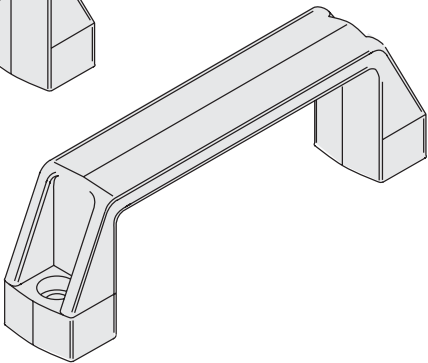
5/16" SLOTS

EF-15

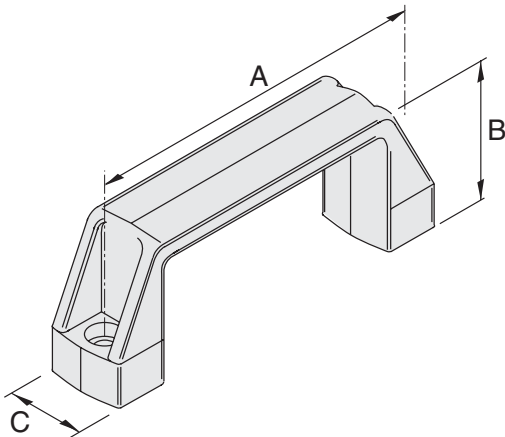
5/16" SLOTS



EF-15 C



EF-15 B

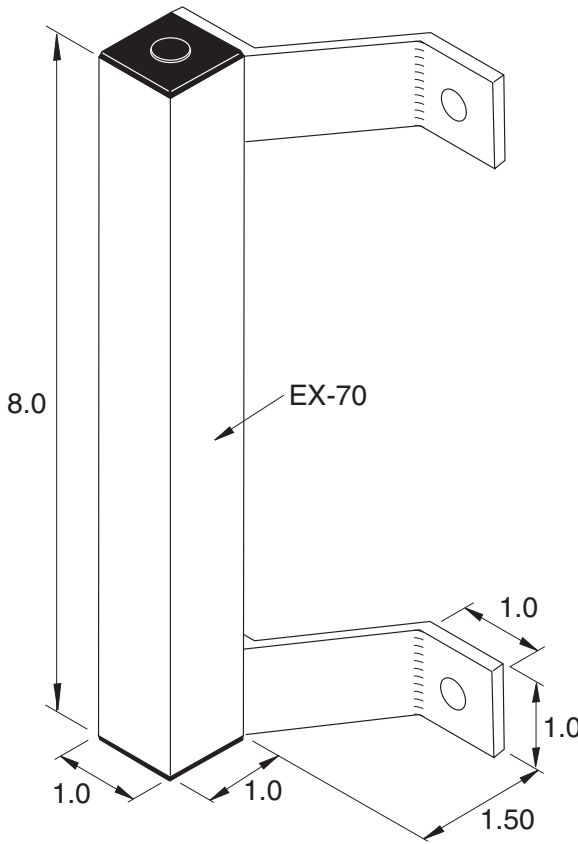


EF-15 A

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

Material - Plastic

| Part No. | A | B | C |
|----------|-------|------|------|
| EF-15 A | 4.606 | 1.61 | 1.06 |
| EF-15 B | 5.20 | 1.77 | 1.02 |
| EF-15 C | 7.047 | 1.97 | 1.10 |

**Recommended
Hardware**

For 5/16" slots

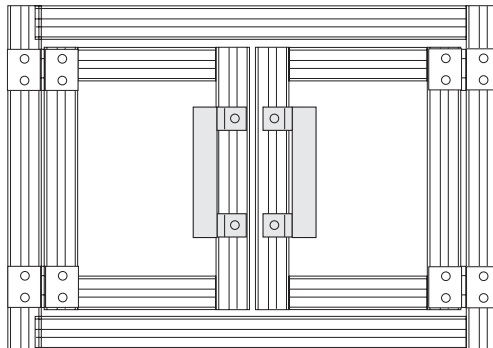
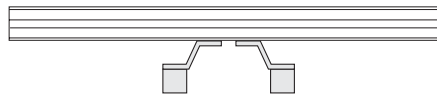
(2) 11-231 BHCS

(2) EF-2A T-nut

For 1/4" slots

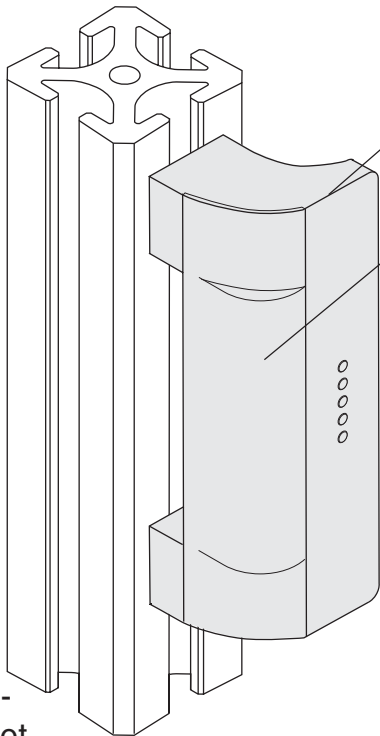
(2) 11-231 BHCS

(2) 11-210 T-nut

5/16" SLOTS

| |
|---------------|
| EF-125 |
| EF-126 |
| EF-127 |

5/16" SLOTS



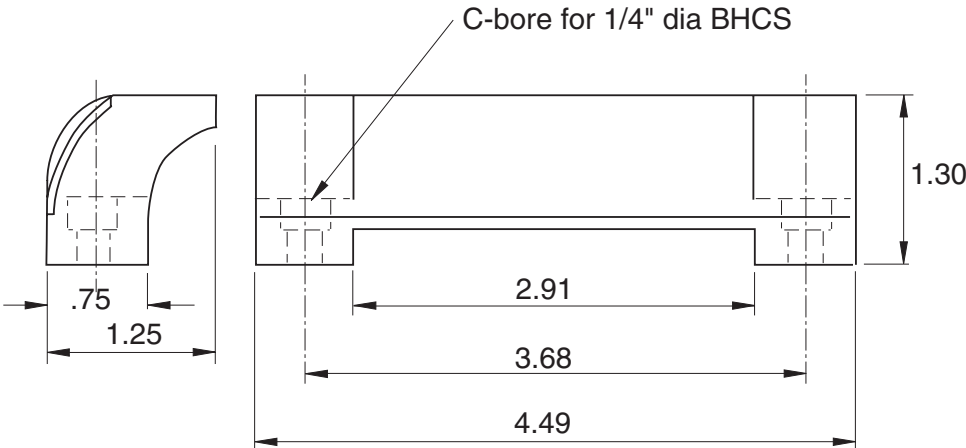
Black Handle Base

Colored Bolt Cover

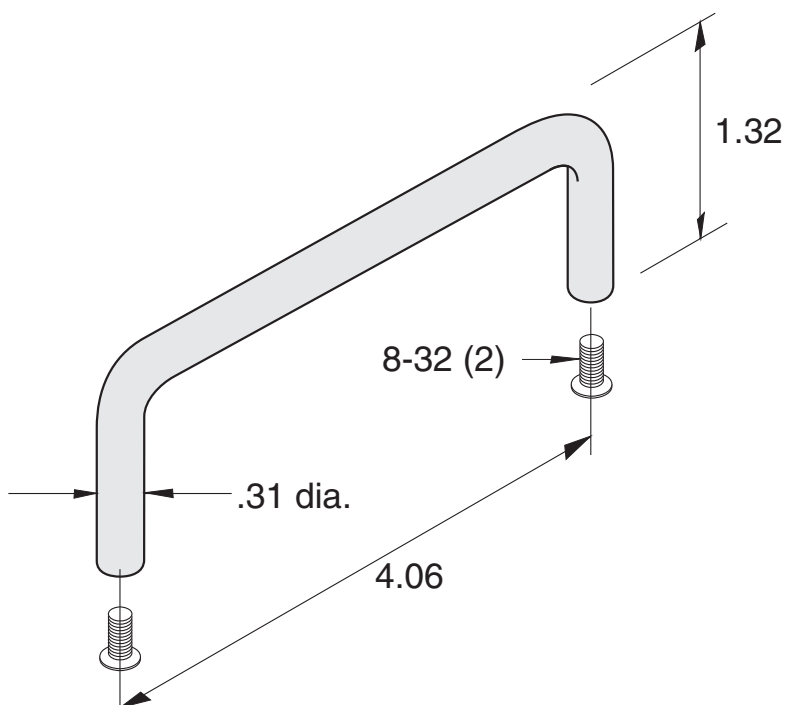
- EF-125** Black Cover
- EF-126** Yellow Cover
- EF-127** Orange Cover

Hardware Required:
for 5/16" slot sizes, use
(2) 11-222 & (2) EF-2A
for 1/4" slot sizes, use
(2) 11-221 & (2) 11-210

Note: Fin-
gers will not
pass through



Material - Plastic



Hardware Included

Note: 8-32 bolt length determined by panel thickness

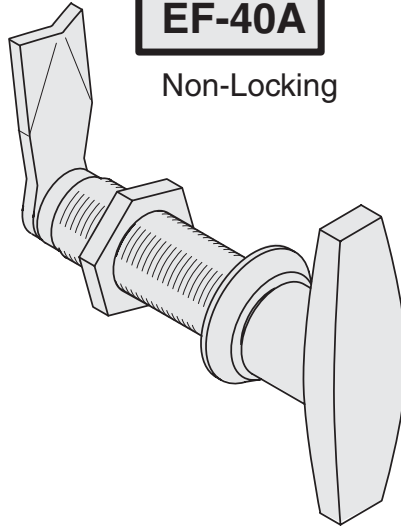
Material - Aluminum
Finish - Clear Anodize

EF-40

Hardware included

EF-40A

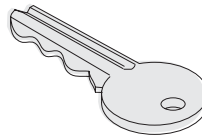
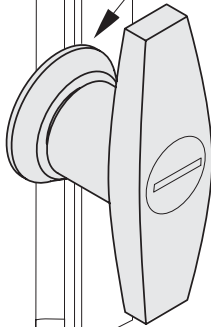
Non-Locking



.875 dia mounting hole

EF-40B

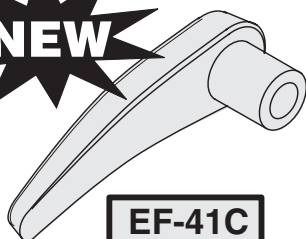
Locking



For factory supplied mounting hole,
order EF-40H

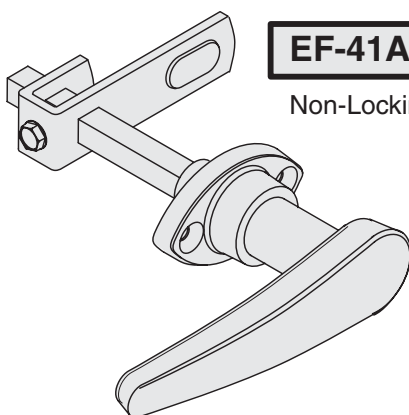
Material - Steel
Handle Finish - Black Powder Coat

5/16" SLOTS



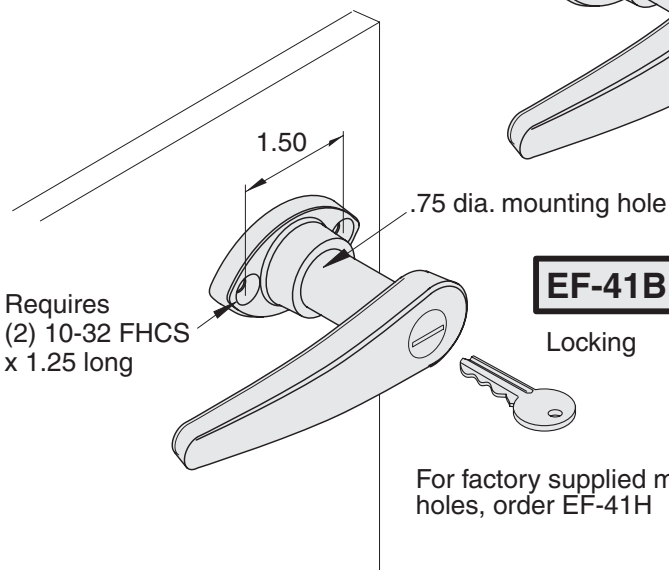
EF-41C

Inside Handle



EF-41A

Non-Locking



EF-41B

Locking

For factory supplied mounting
holes, order EF-41H

5/16" SLOTS

Hardware Included

Material - Steel
Handle Finish - Chrome

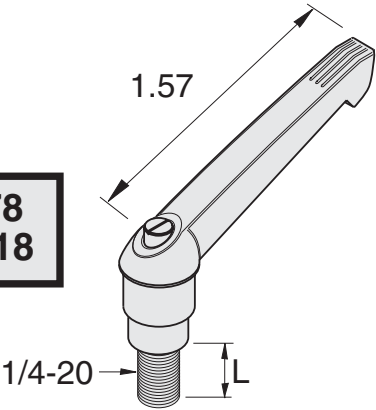
Adjustable Locking
Handle (Male)



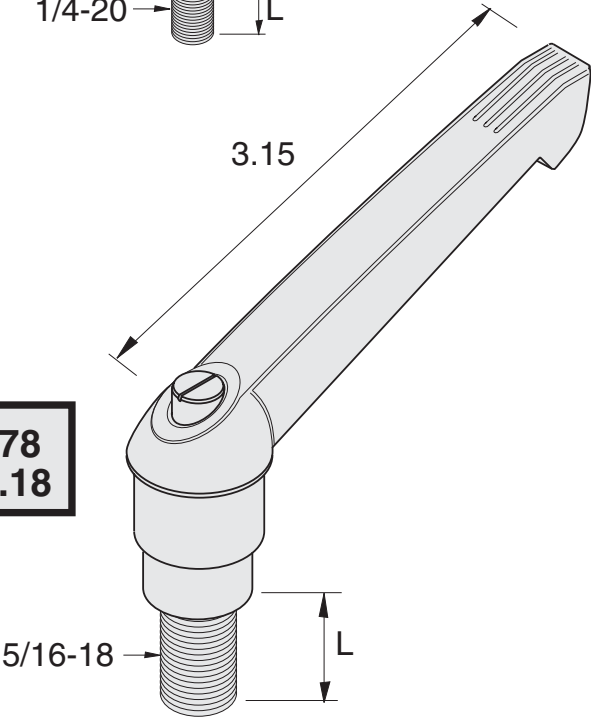
EF-32

5/16" SLOTS

EF-32-1, L= .78
EF-32-2, L=1.18

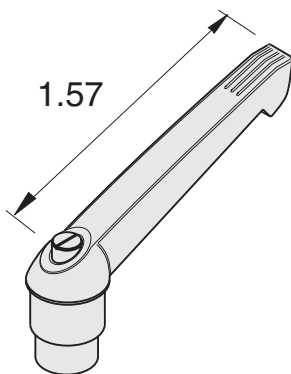


EF-32-3, L= .78
EF-32-4, L=1.18



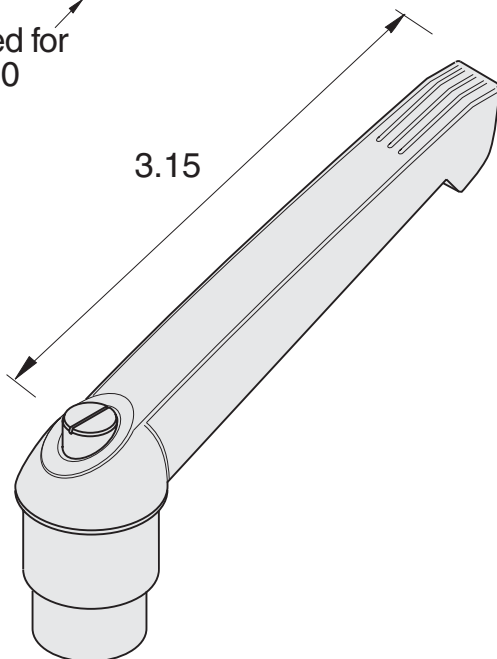
Handle Material - Plastic

EF-33-1



tapped for
1/4-20

EF-33-2

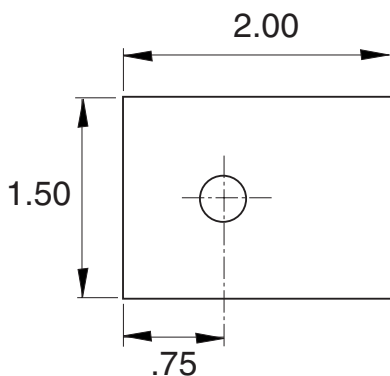


tapped for
5/16-18

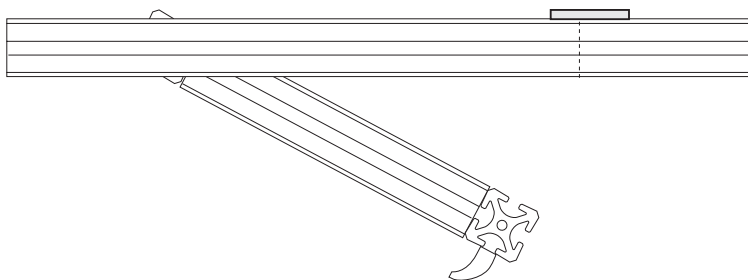
5/16" SLOTS

Handle Material - Plastic

Door Stop Bracket

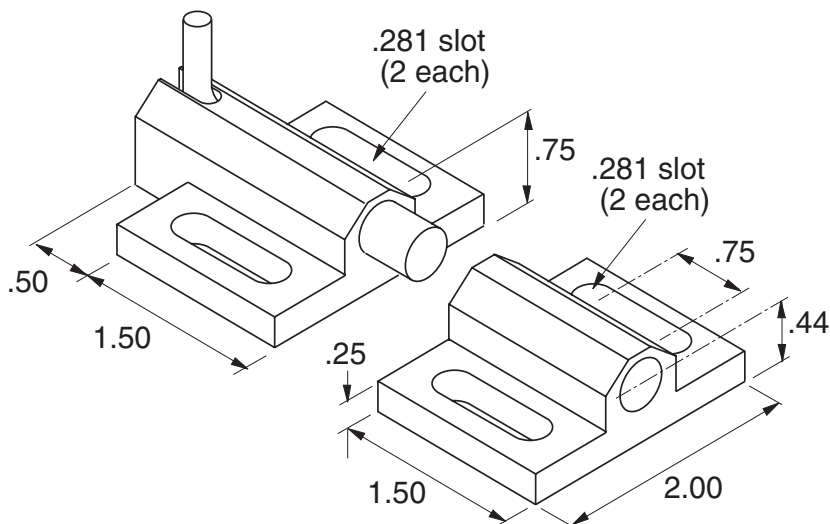
**EB-35**

5/16" SLOTS

**Recommended
Hardware**

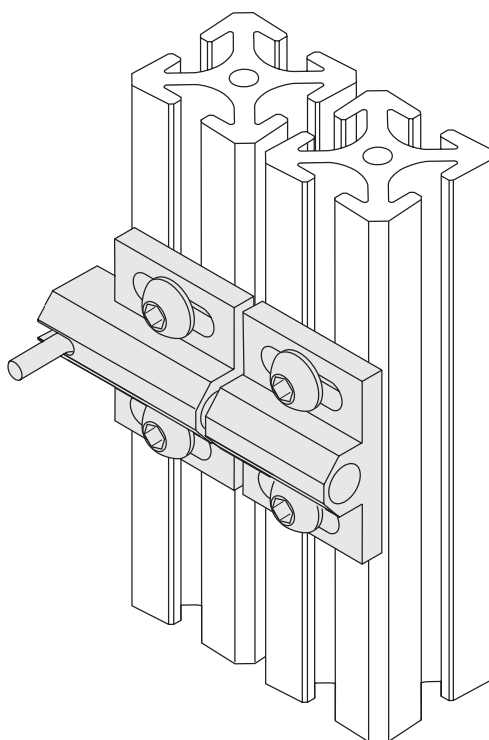
- (1) EF-12-.63 BHCS
- (1) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



5/16" SLOTS

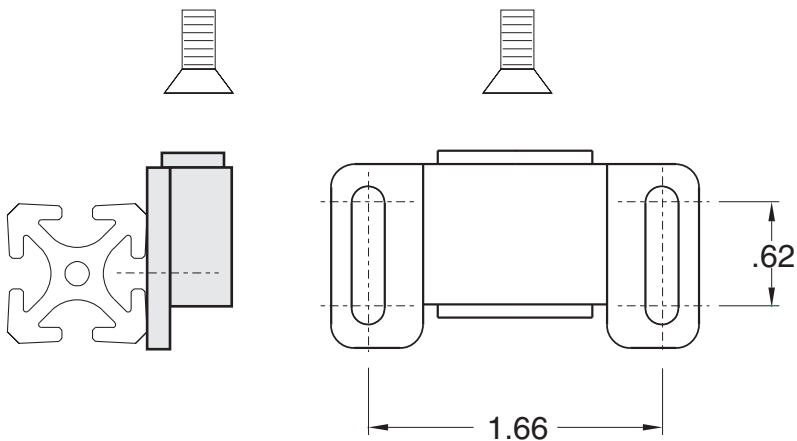
Hardware Included



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

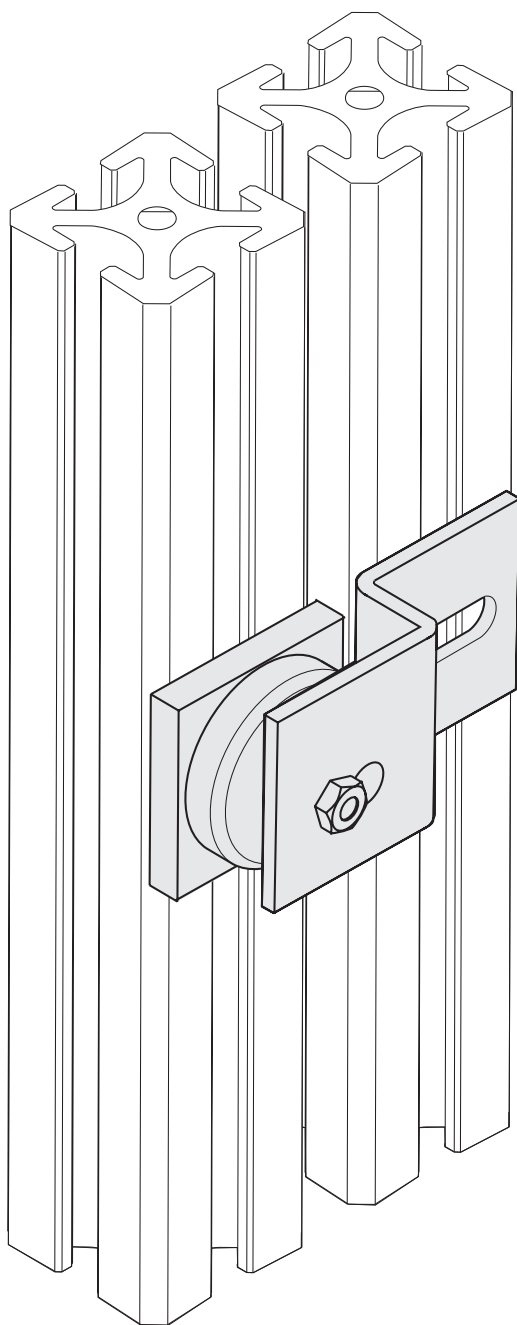
EF-22

5/16" SLOTS



includes 1/4-20 FHCS striker and all hardware

Hardware
Included

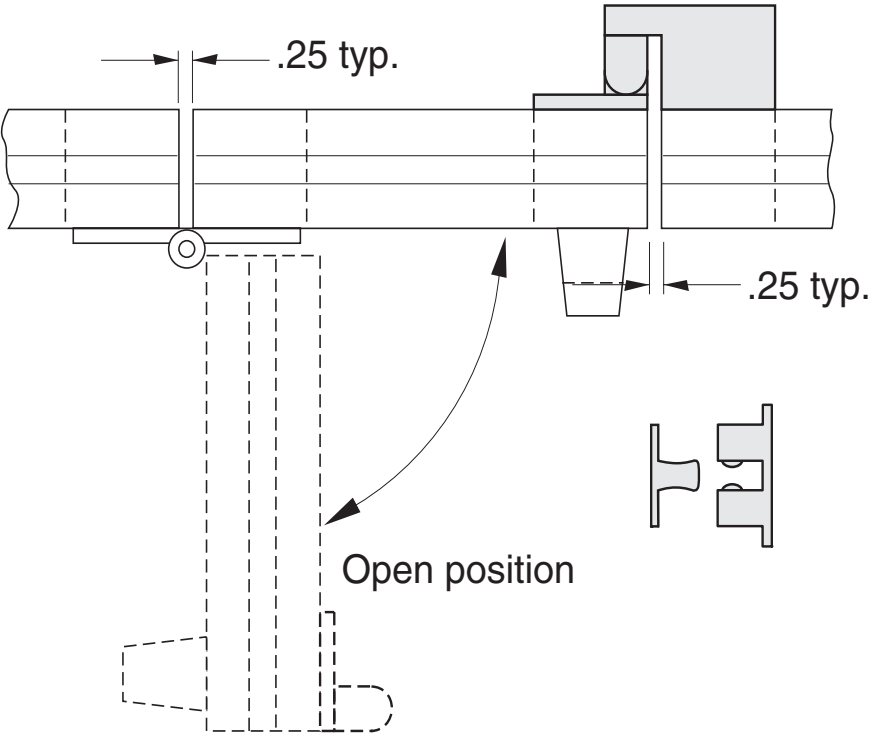


Material - Steel
Finish - Zinc Plate and Black Powder Coat

5/16" SLOTS

EF-24

5/16" SLOTS

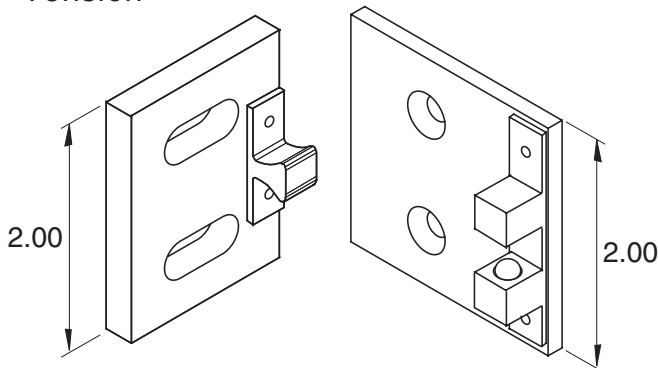


Use with 1 1/2" extrusions (5/16" slot size)

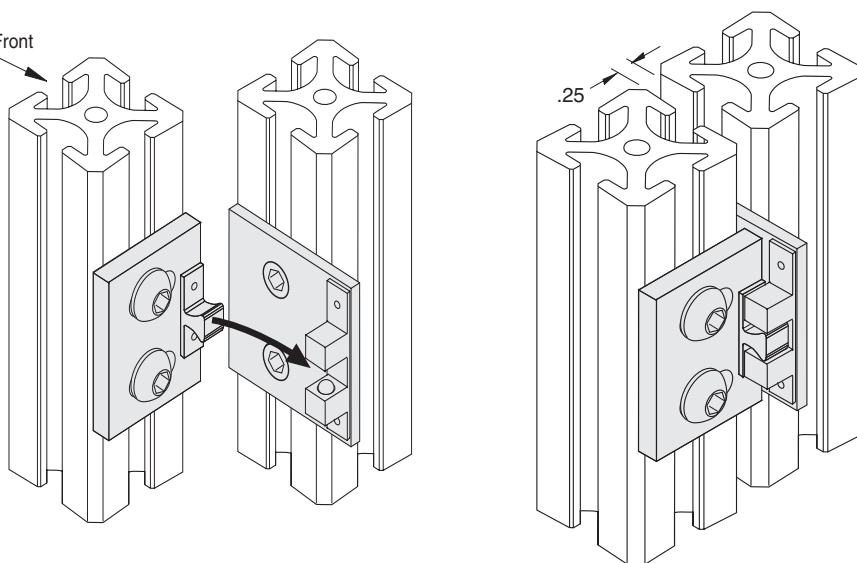
Hardware Included

Catch Material - Zinc Plated Brass
Base Material - Aluminum

Adjustable
Tension



Door Front



Hardware Included

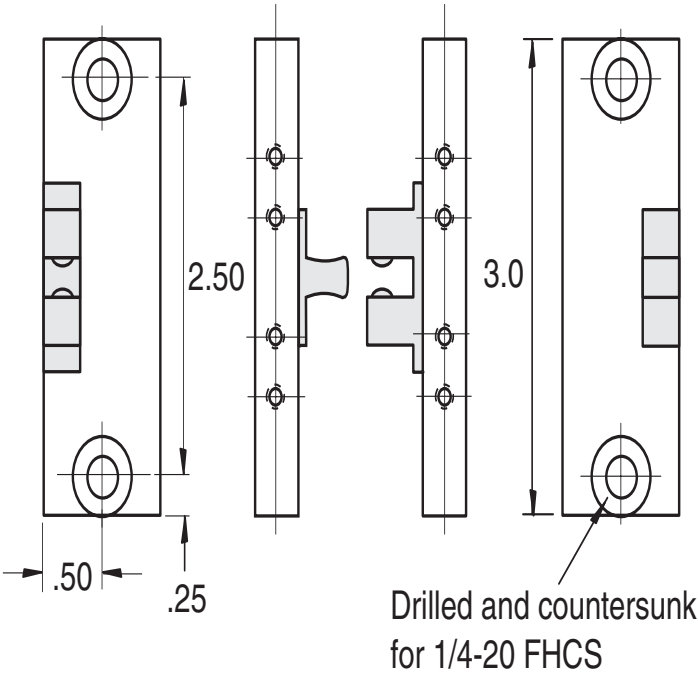
Material Mounting Plates: Aluminum , Clear Anodize

Latch: Zinc Plated Brass

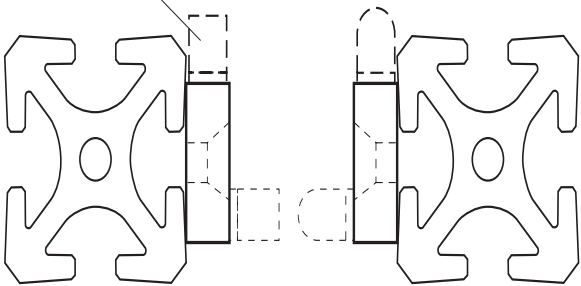
5/16" SLOTS

EF-22A

5/16" SLOTS

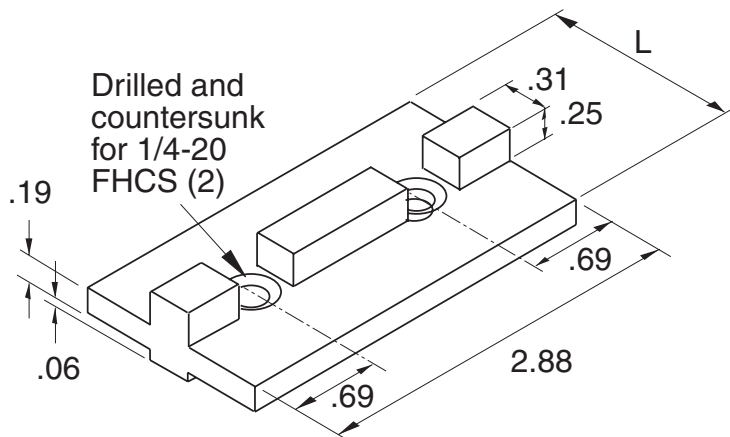


2 positions available

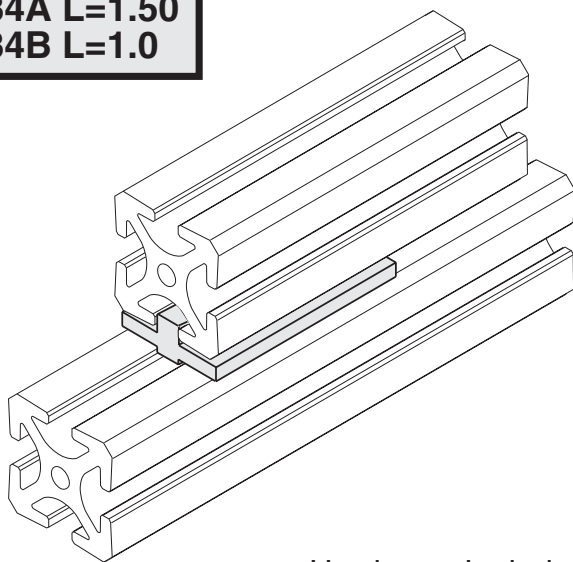


Hardware Included

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



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



Hardware Included

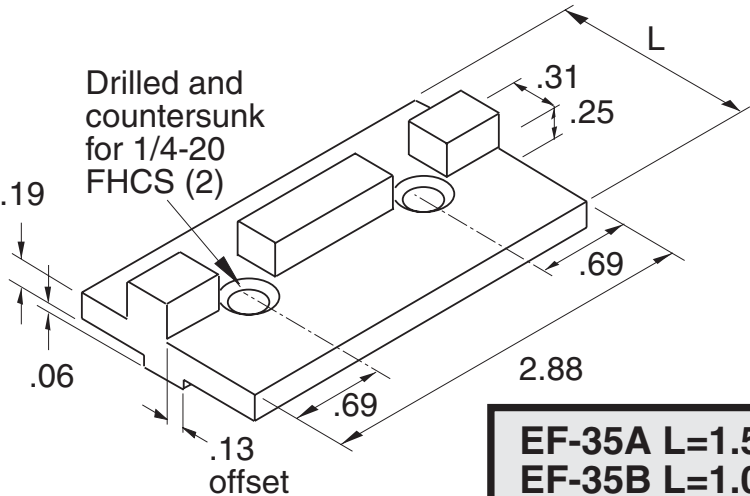
Bearing Material - DELRIN

5/16" SLOTS

Offset Bearing Block (Plastic)

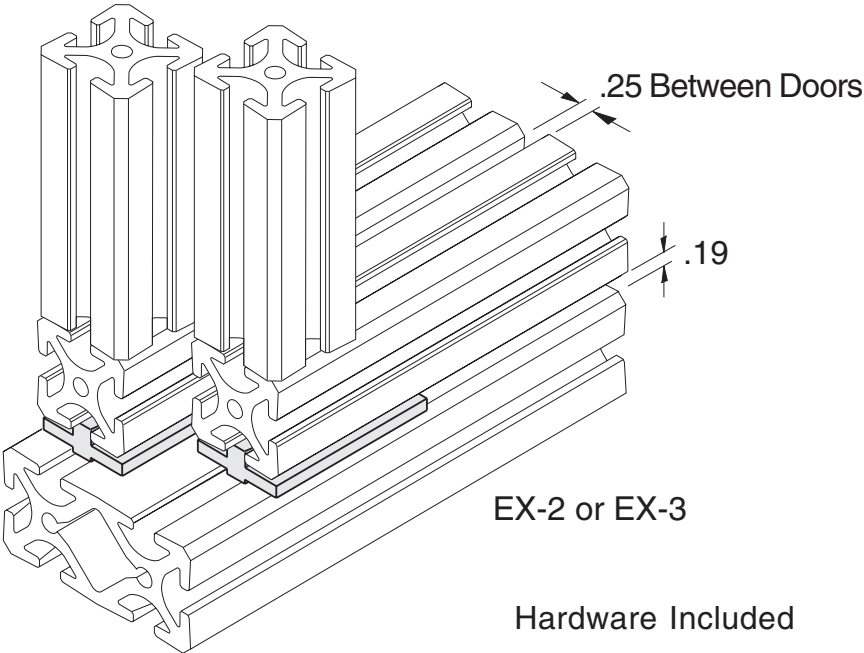


EF-35



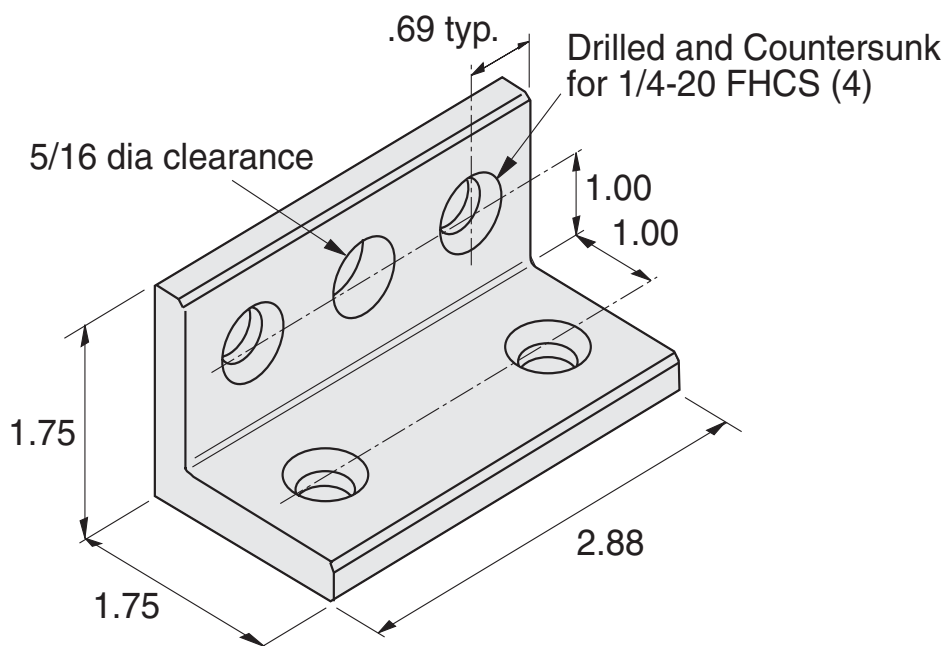
EF-35A L=1.50
EF-35B L=1.0

5/16" SLOTS



Load Capacity = 50 lbs.

Bearing Material - DELRIN

**5/16" SLOTS**

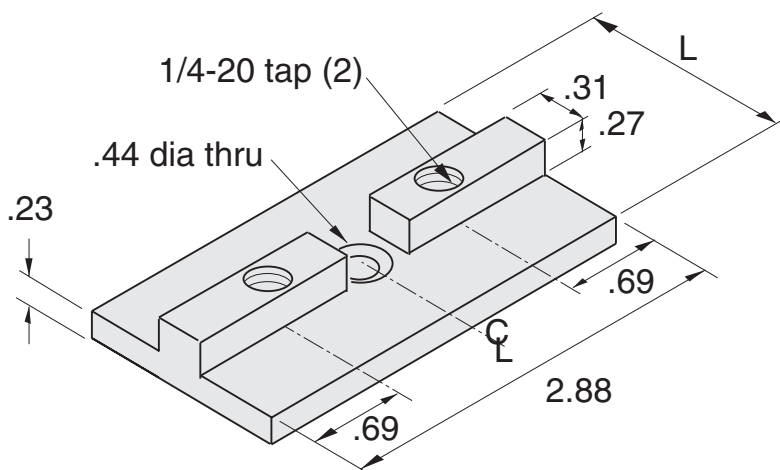
Note: See part no EB-38 for example

Recommended
Hardware
(4) 1/4-20 x 5/8 FHCS
(2) EF-2A T-nut

Material - Aluminum
Finish - Clear Anodize

EF-37

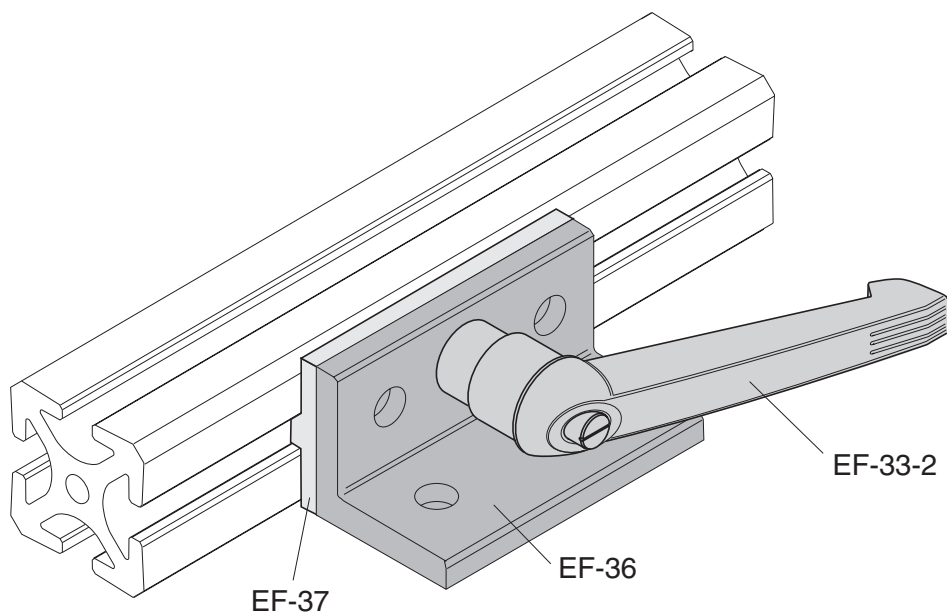
5/16" SLOTS



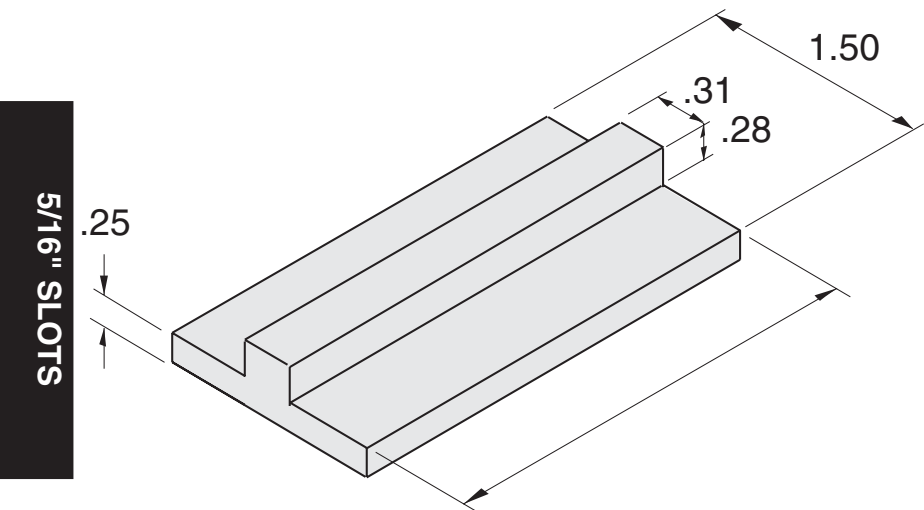
EF-37A L=1.50
EF-37B L=1.0

Load Capacity = 50 lbs.

Bearing Material - DELRIN

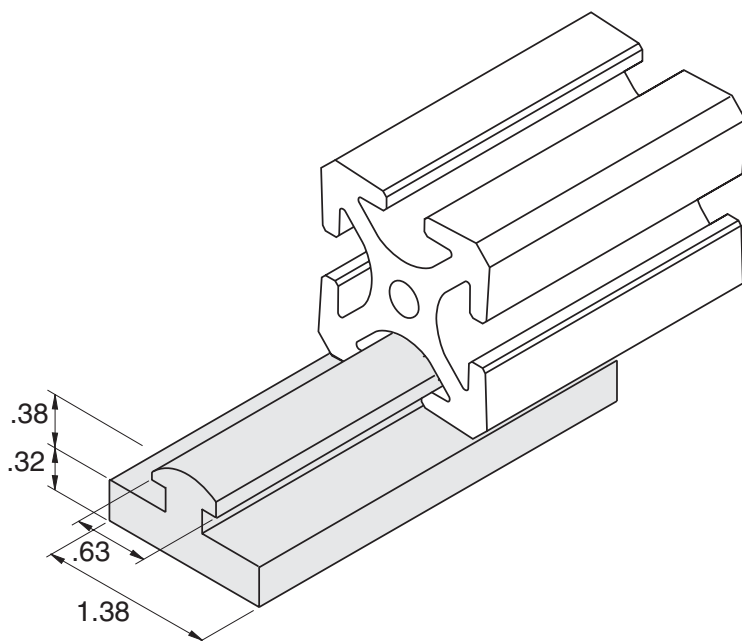
Slider Assembly (as shown)**EF-38****Slider Assembly
(less clamp handle for sliding only)****EF-38S****5/16" SLOTS****Recommended
Hardware****(2) 1/4-20 x 5/8 FHCS****(2) EF-2A T-nut**

EF-39 for 5/16" Slot extrusions



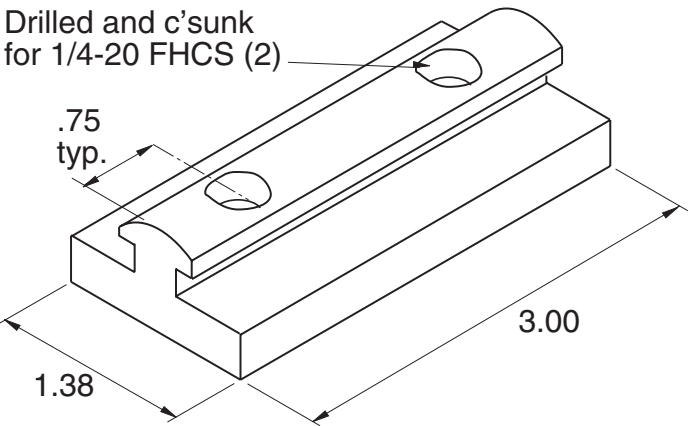
standard length
is 60" and 120"
Sold by the inch.

Material - UHMW

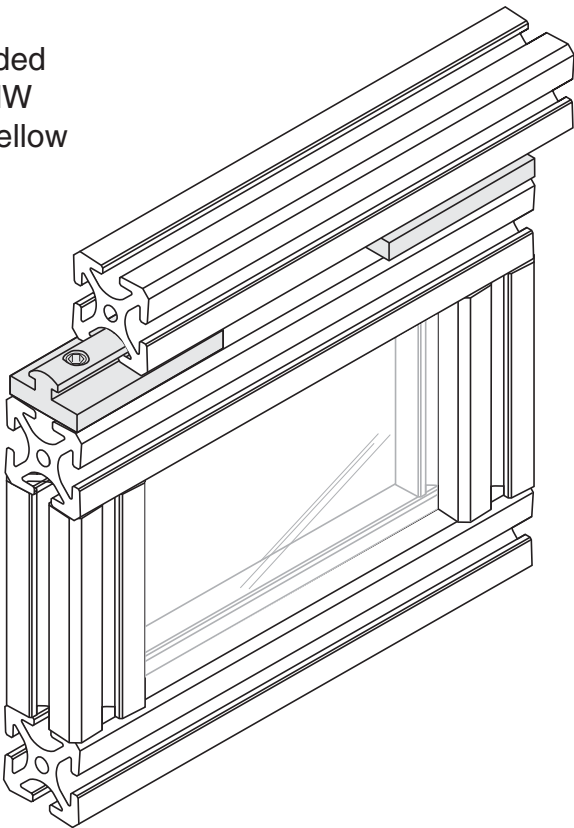


Material - UHMW
Sold by the inch
Stock length is 60" & 120"
Color is Safety Yellow

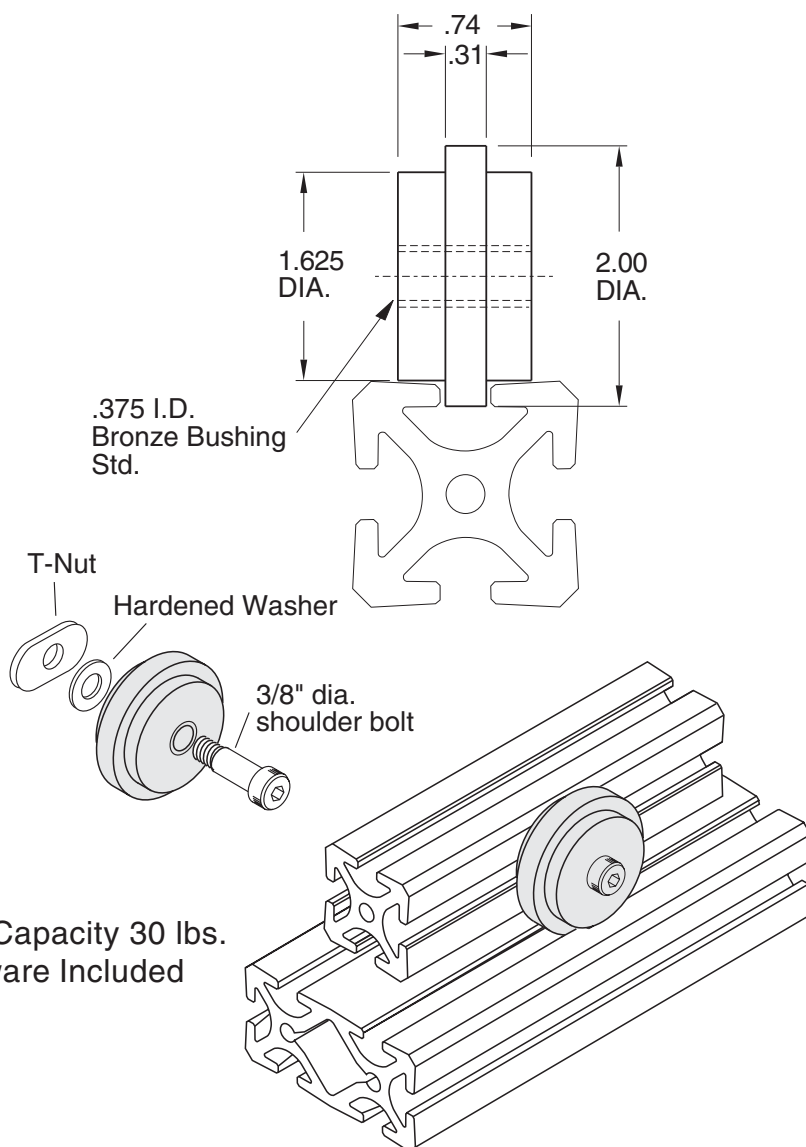
EF-79



Hardware Included
Material - UHMW
Color is Safety Yellow



5/16" SLOTS



Material - DELRIN

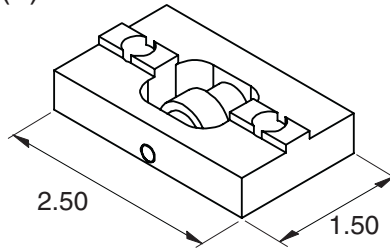
Door Roller Block - 5/16" Slot (lift out)



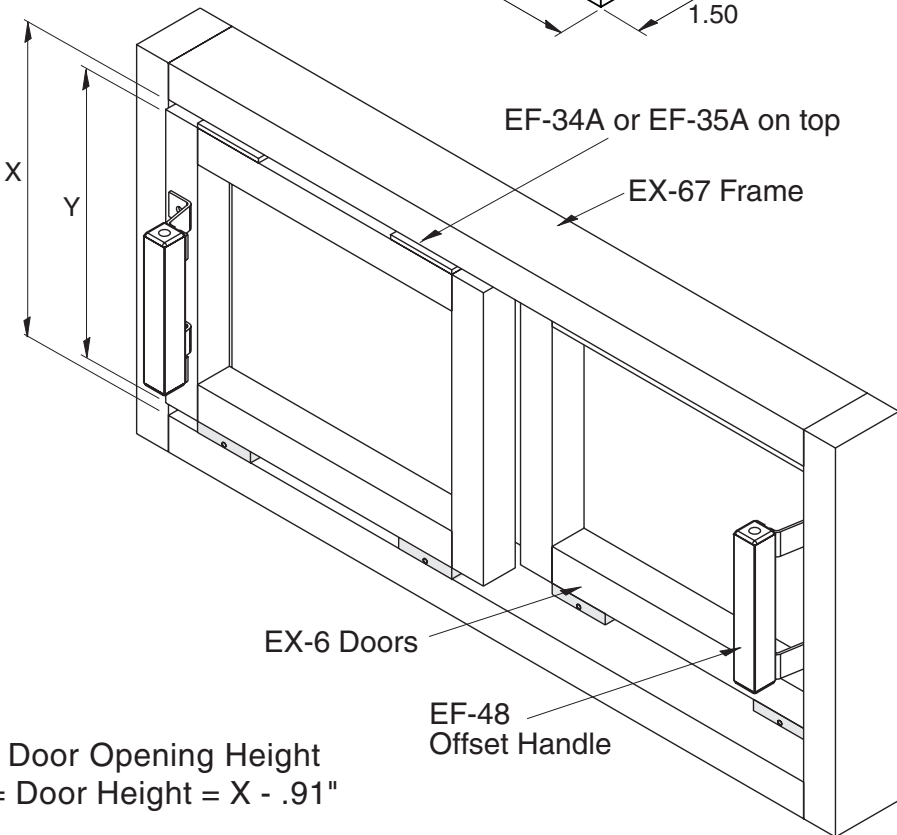
| | |
|--------------|-------------|
| EF-88 | 1/8" offset |
| EF-89 | on center |

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

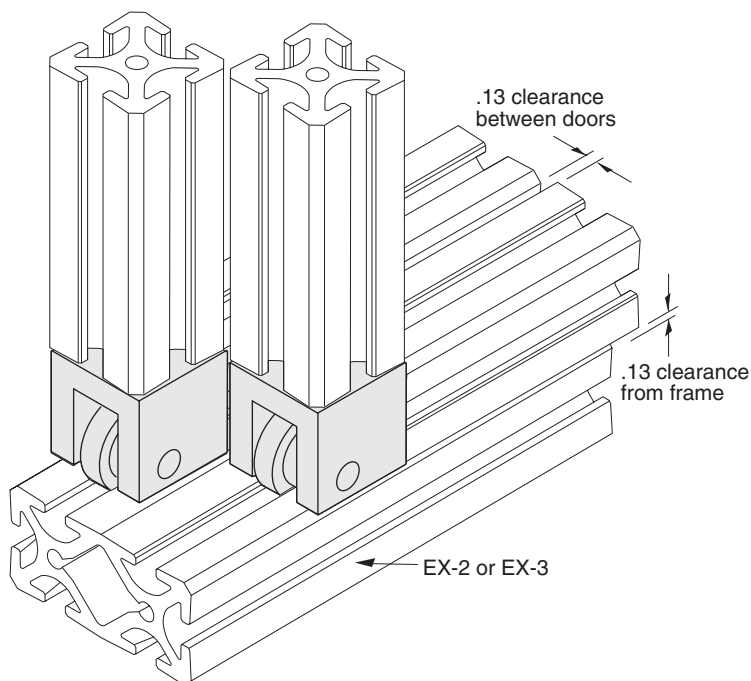


5/16" SLOTS



X = Door Opening Height
Y = Door Height = $X - .91"$

Hardware Included

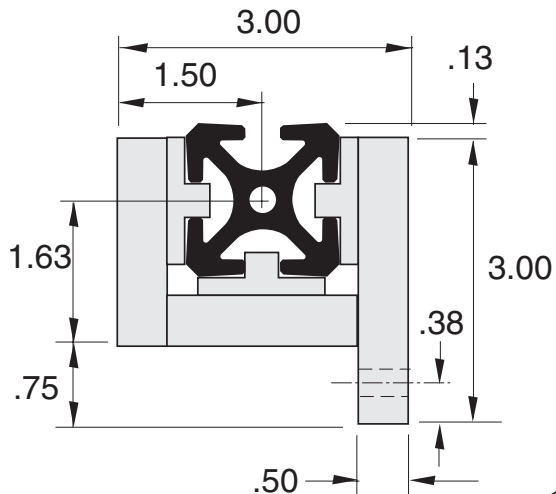


Hardware Included
Load Capacity 25 lbs.

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

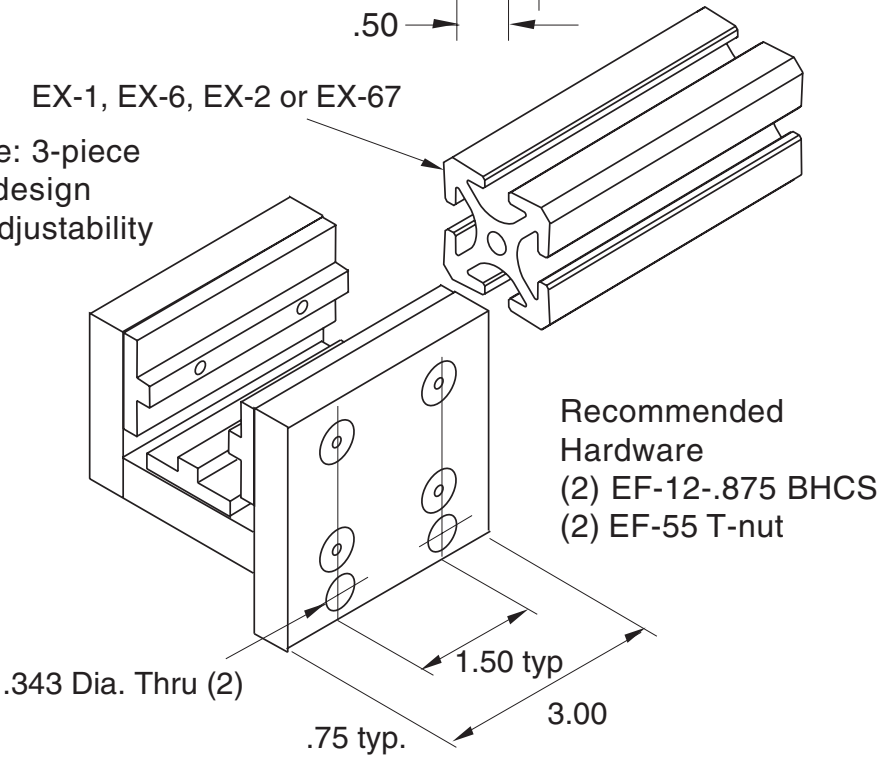
EB-91

5/16" SLOTS



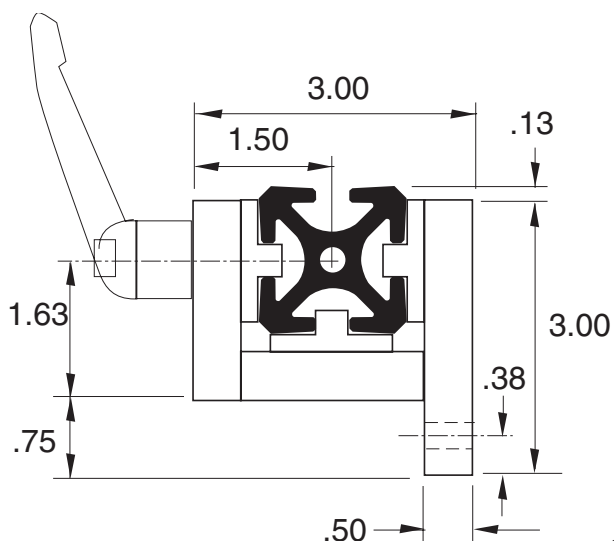
EX-1, EX-6, EX-2 or EX-67

Note: 3-piece
design
for adjustability

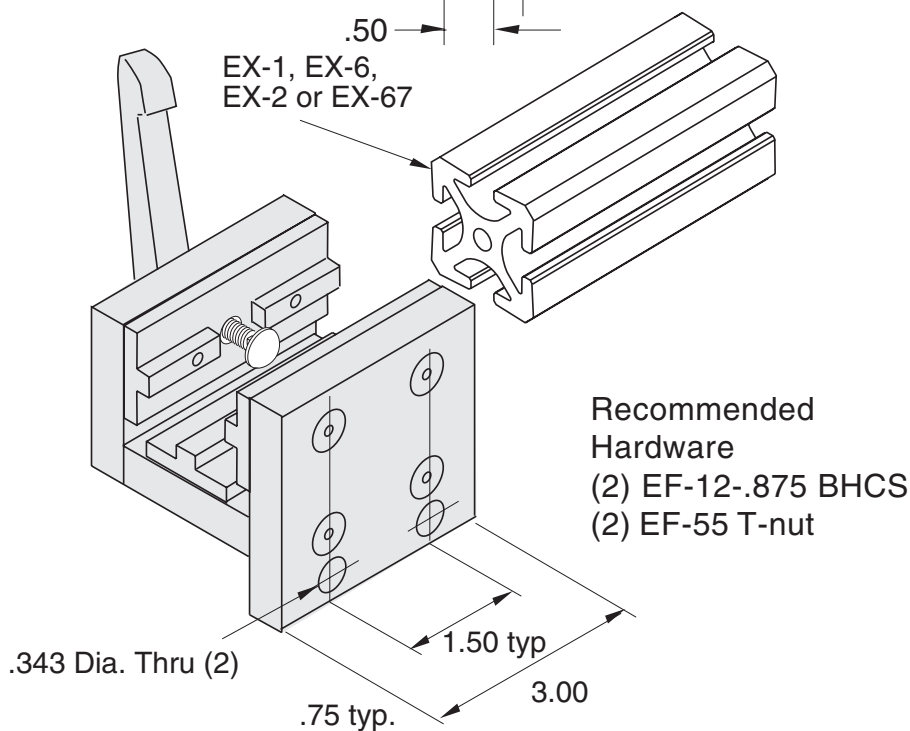


Recommended
Hardware
(2) EF-12-.875 BHCS
(2) EF-55 T-nut

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



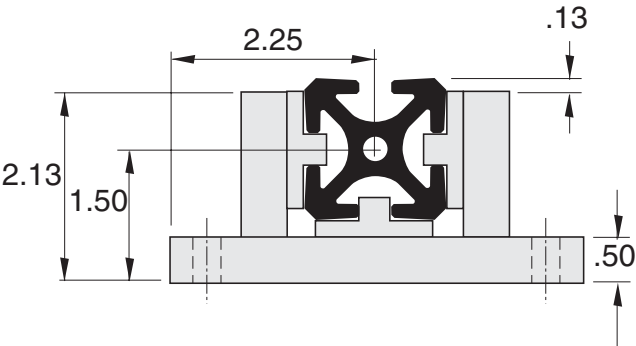
Note: 3-piece
design for
adjustability



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

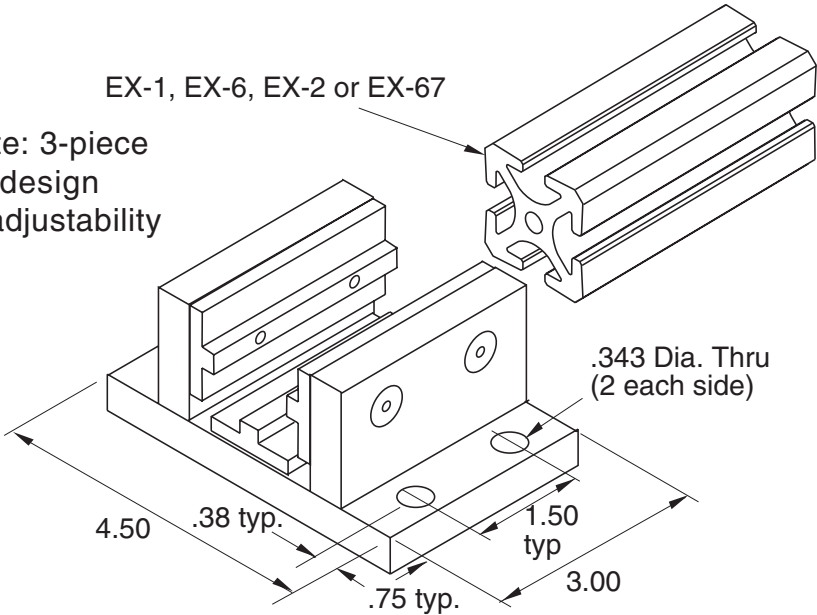
Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize

EB-93



EX-1, EX-6, EX-2 or EX-67

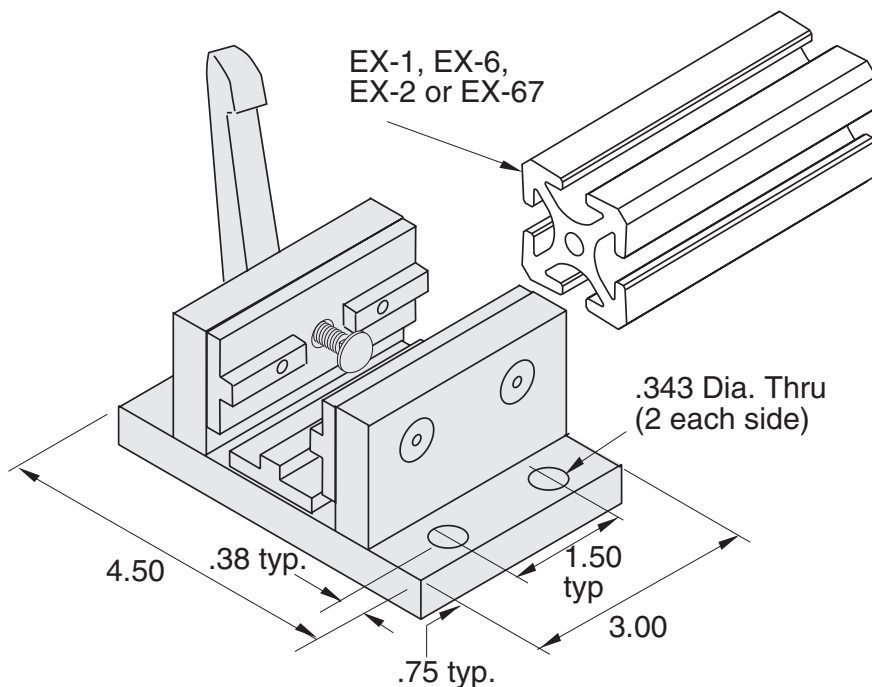
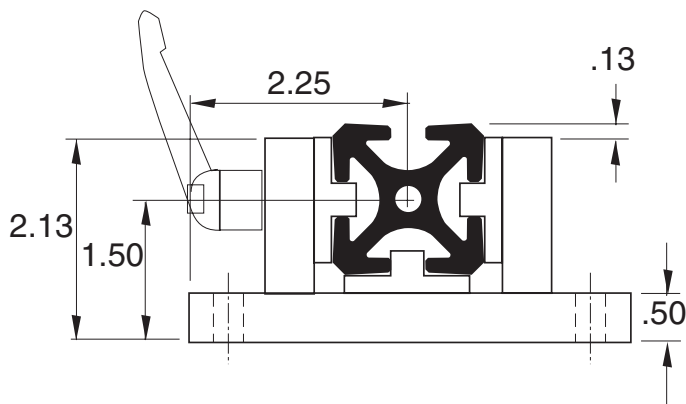
Note: 3-piece
design
for adjustability



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

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

5/16" SLOTS



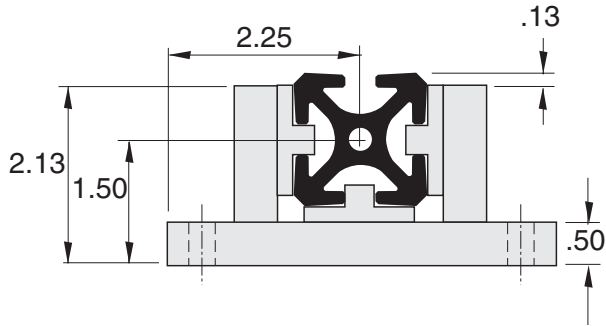
5/16" SLOTS

Recommended Hardware

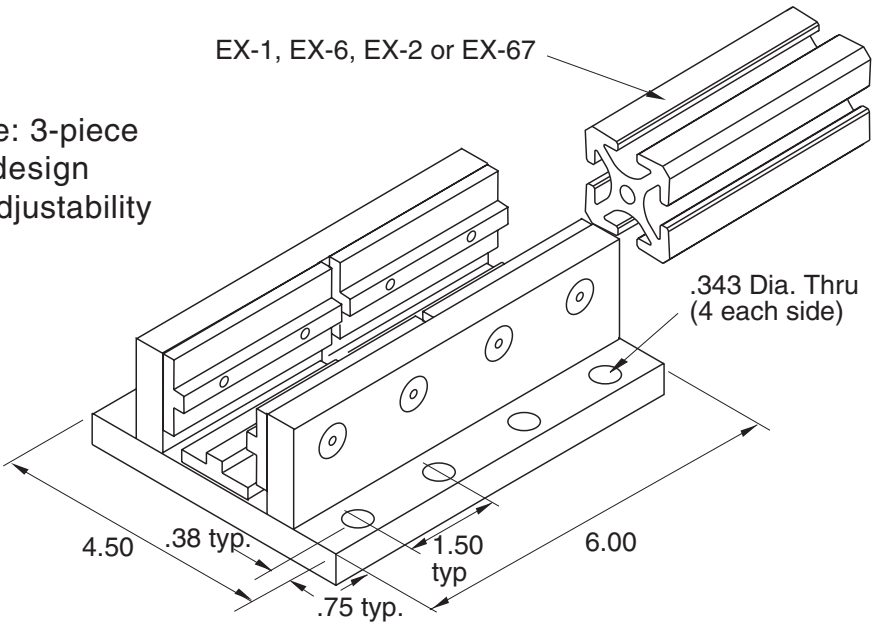
- (4) EF-12-.875 BHCS
- (4) EF-55 T-nut

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

EB-92



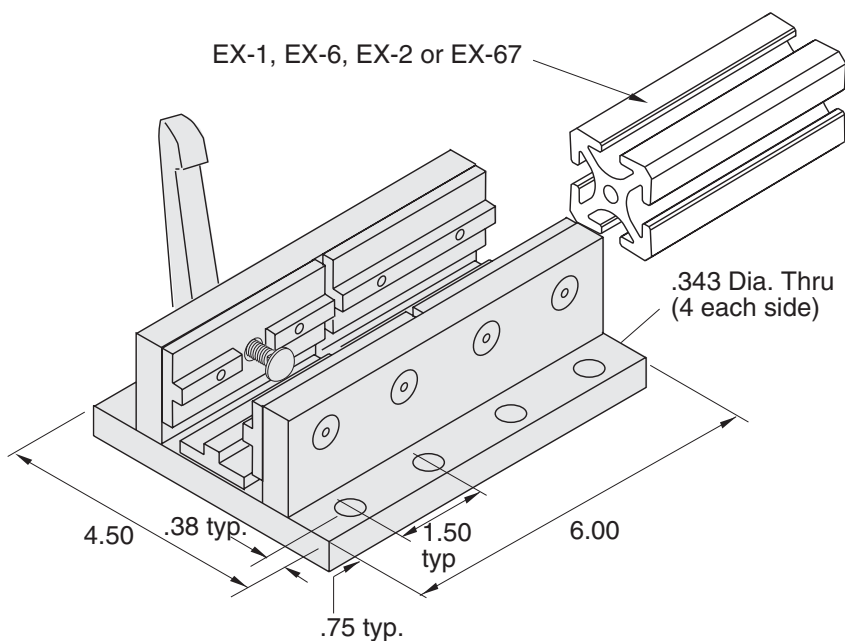
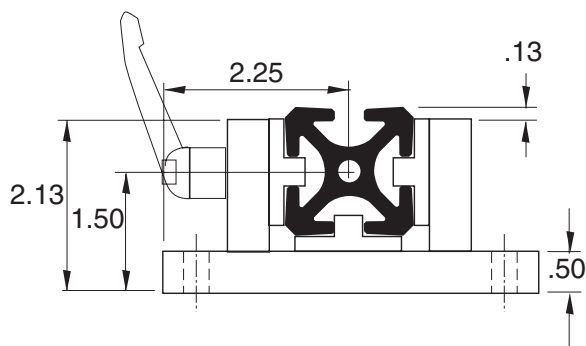
Note: 3-piece
design
for adjustability



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

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

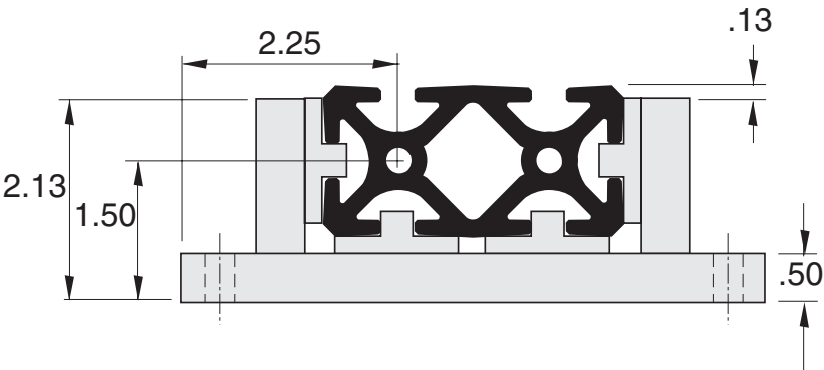
5/16" SLOTS



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

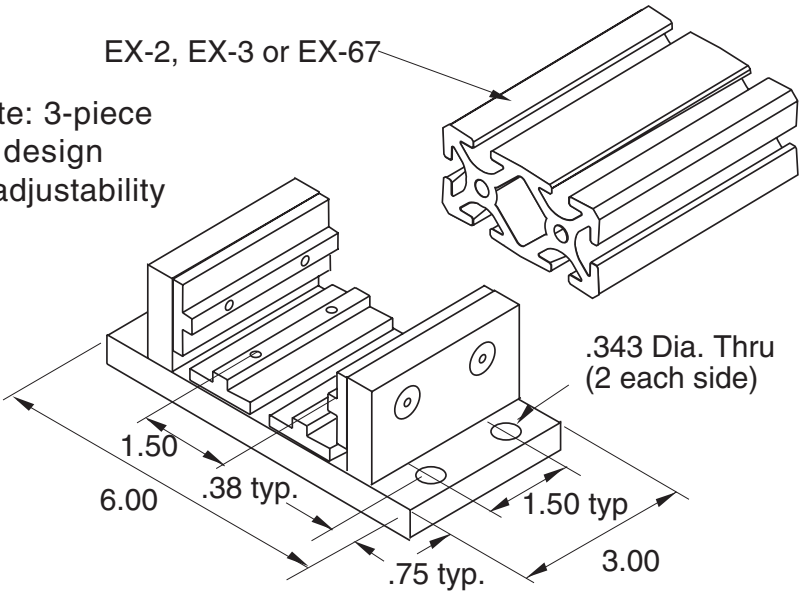
Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize

EB-94



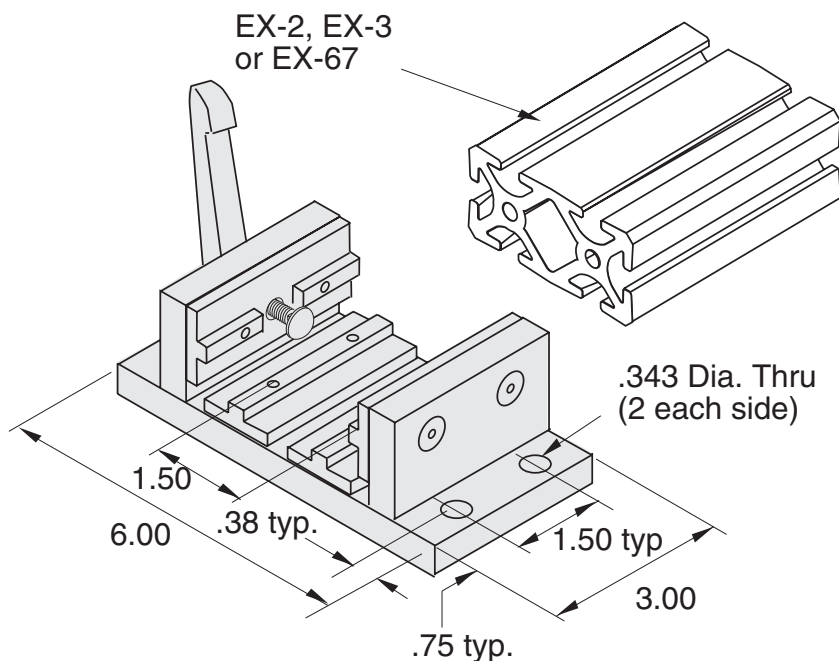
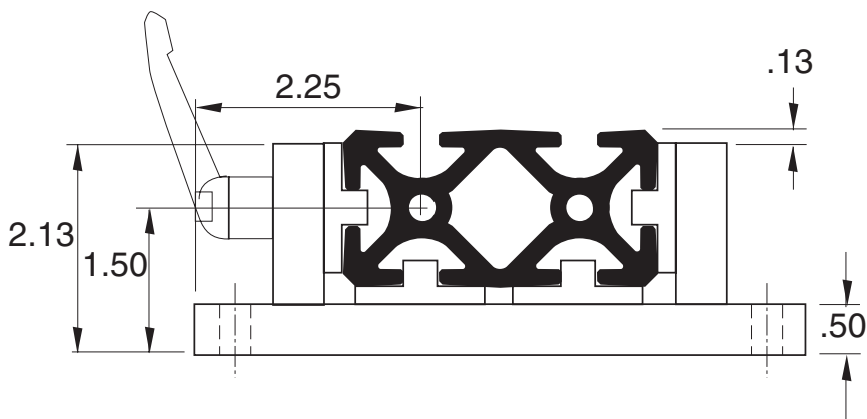
EX-2, EX-3 or EX-67

Note: 3-piece
design
for adjustability



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

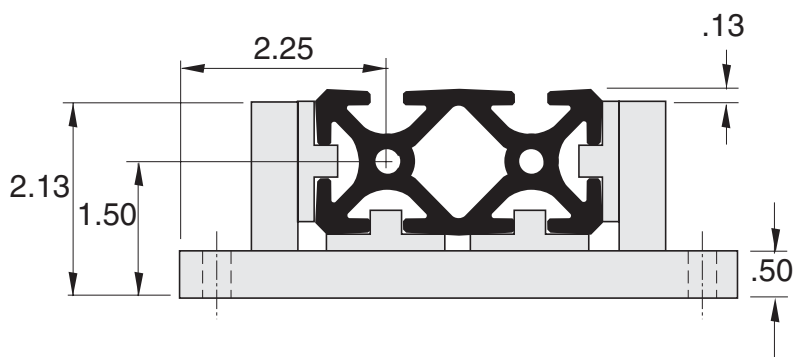
Plate Material - Aluminum

Finish - Clear Anodize

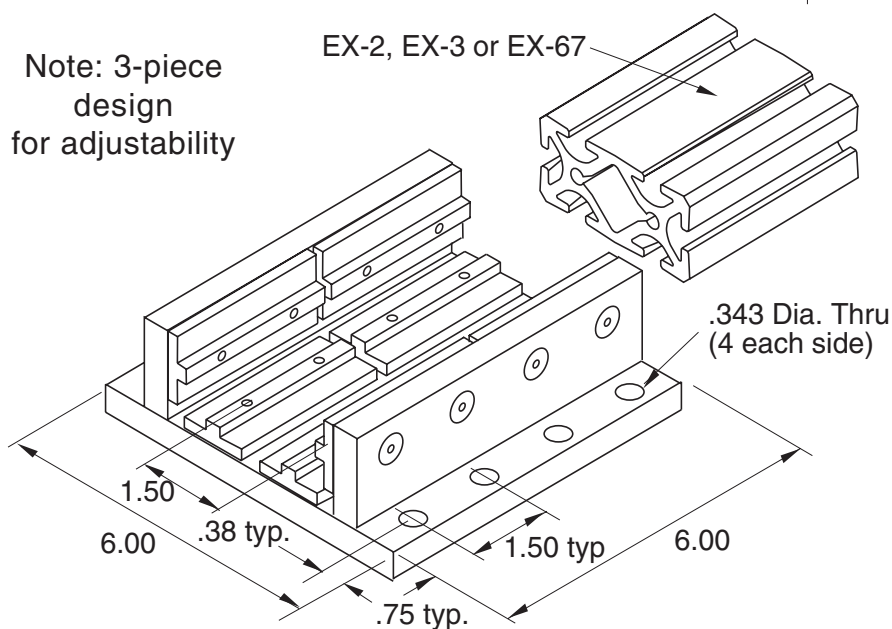
5/16" SLOTS

**FRAME
WORLD**

5/16" SLOTS

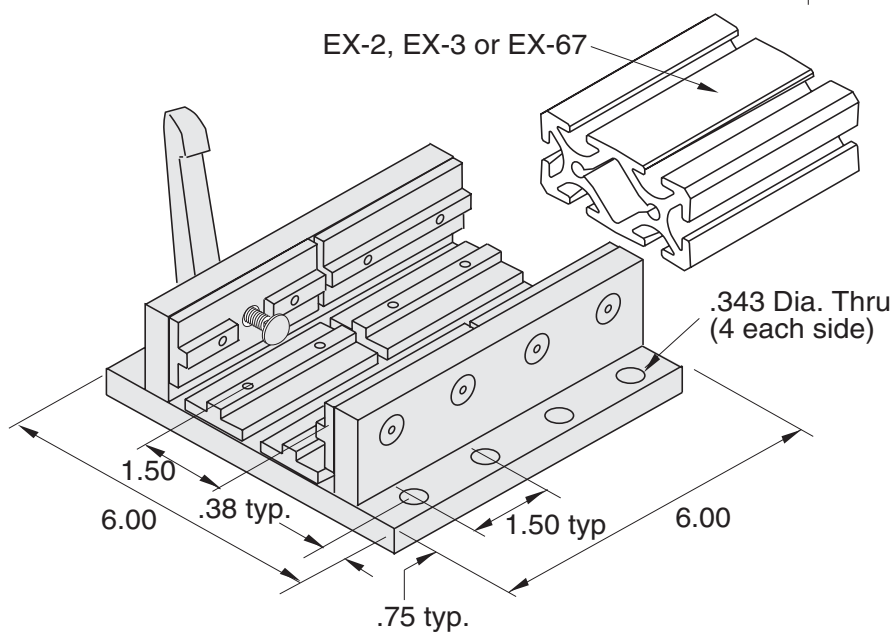
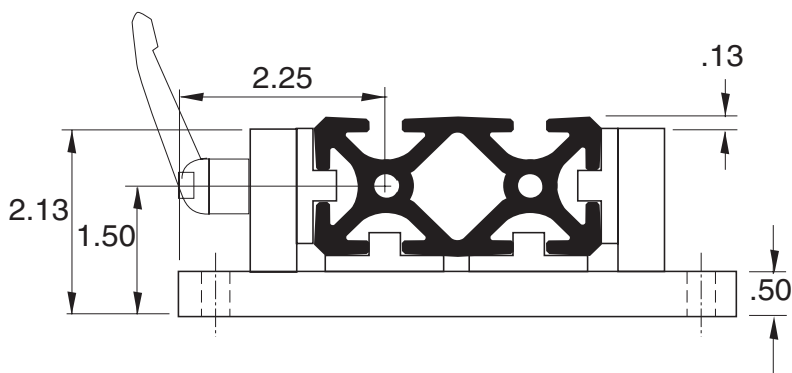


EX-2, EX-3 or EX-67



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

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5/16" SLOTS

Recommended Hardware

(8) EF-12-.875 BHCS

(8) EF-55 T-nut

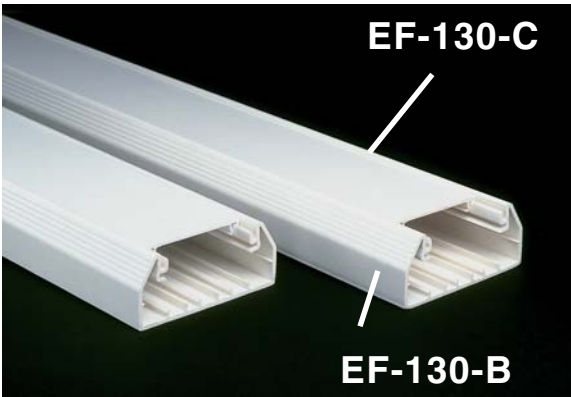
Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize

Panduit™ Cable and Tubing Raceway



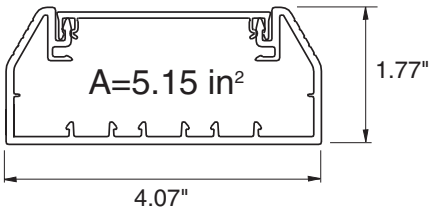
EF-130

This raceway is designed to protect and conceal cable and air lines. Fittings are available to facilitate corners, tees, extensions and end caps.

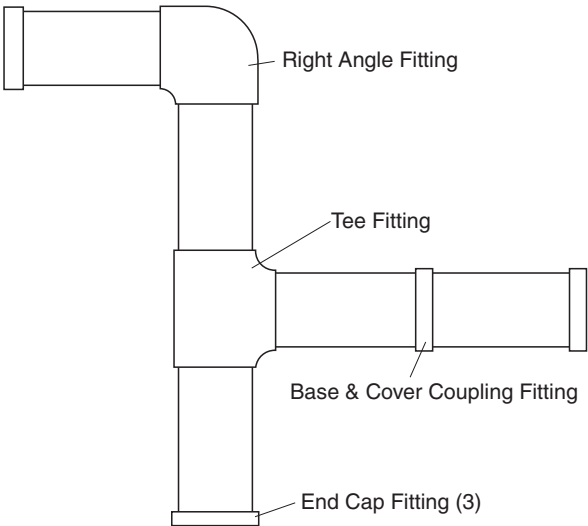


EF-130-C
Raceway Cover
Stocked in 8 ft lengths

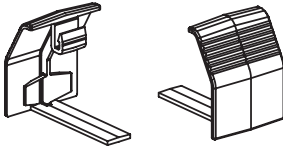
EF-130-B
Raceway Base
Stocked in 8 ft lengths



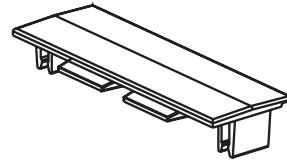
Material - Rigid PVC
Color - Off white



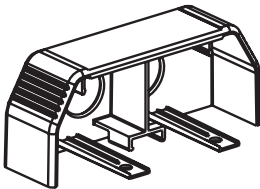
5/16" SLOTS



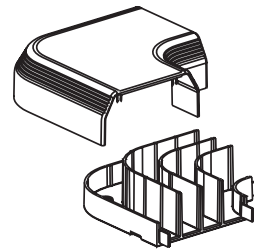
**Base Coupling Fitting
EF-130-BC**



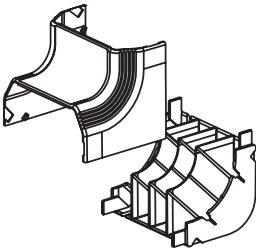
**Cover Coupling Fitting
EF-130-CC**



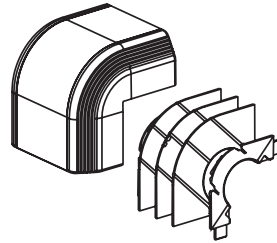
**End Cap Fitting
EF-130-EC**



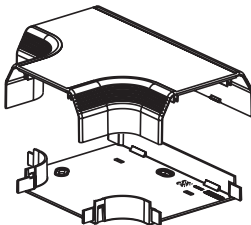
**Right Angle Fitting
EF-130-RA**



**Inside Corner Fitting
EF-130-IC**



**Outside Corner Fitting
EF-130-OC**



**Tee Fitting
EF-130-T**

Material - Rigid PVC
Color - Off white

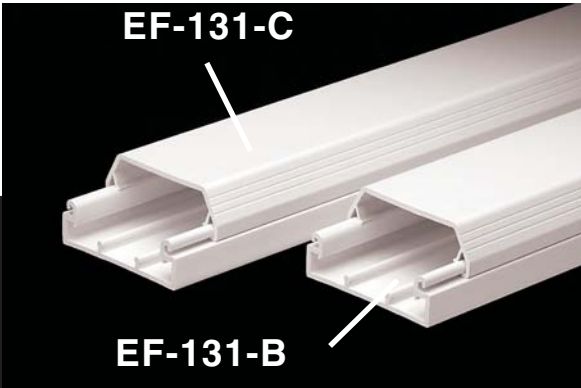
5/16" SLOTS

Panduit™ Cable and Tubing Raceway



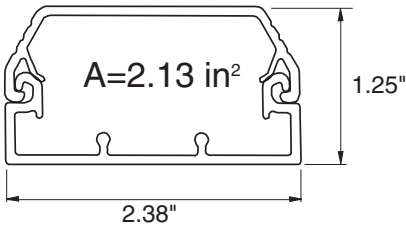
EF-131

This raceway is designed to protect and conceal cable and air lines. Fittings are available to facilitate corners, tees, extensions and end caps.

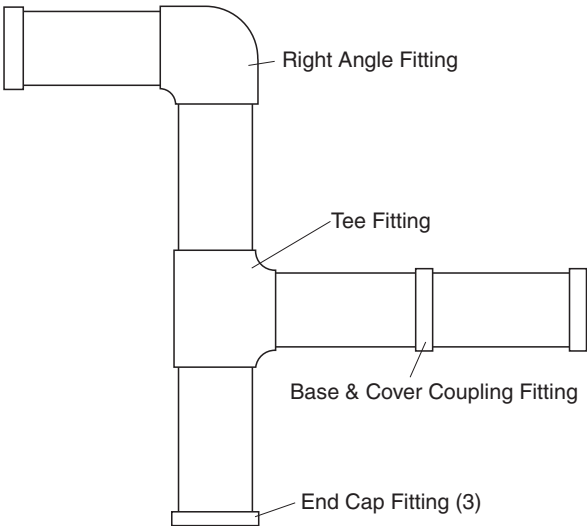


EF-131-C
Raceway Cover
Stocked in 8 ft lengths

EF-131-B
Raceway Base
Stocked in 8 ft lengths

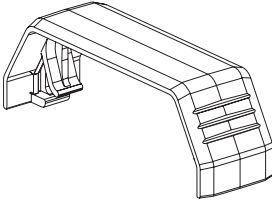


Material - Rigid PVC
Color - Off white

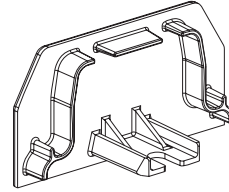




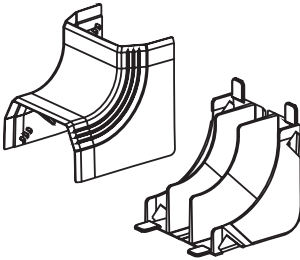
Panduit™ Cable and Tubing Raceway Fittings

EF-131


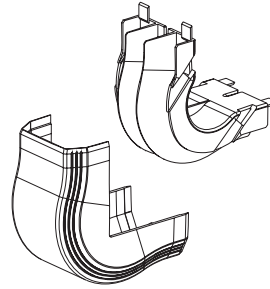
**Cover Coupling Fitting
EF-131-CC**



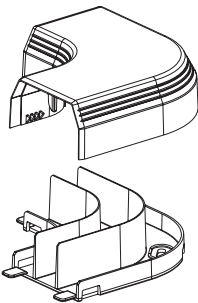
**End Cap Fitting
EF-131-EC**



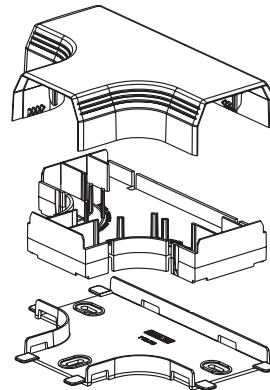
**Inside Corner Fitting
EF-130-IC**



**Outside Corner Fitting
EF-130-OC**



**Right Angle Fitting
EF-130-RA**



**Tee Fitting
EF-130-T**

Material - Rigid PVC
Color - Off white

5/16" SLOTS

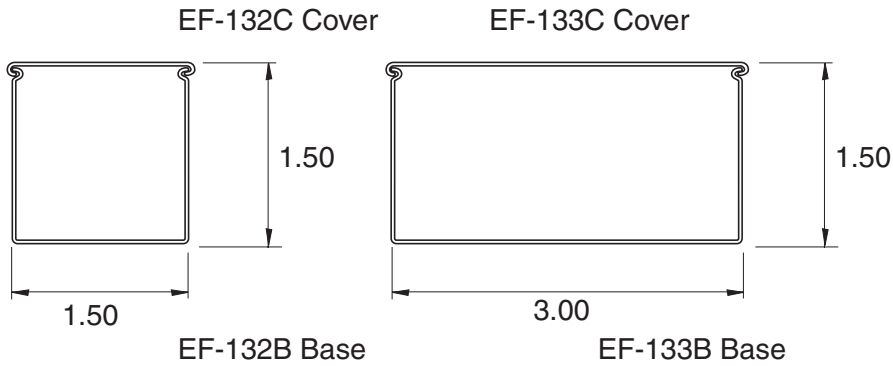
Panduit™ Cable and Tubing Duct



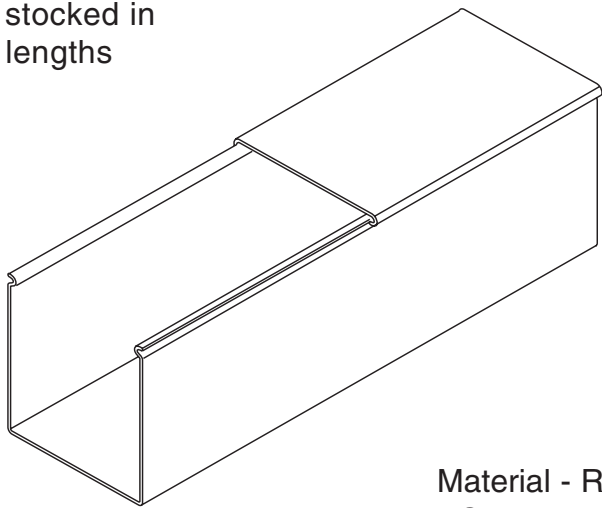
| | |
|----------------|--------------------------|
| EF-132C | 1.5" x 1.5" Cover |
| EF-132B | 1.5" x 1.5" Base |
| EF-133C | 1.5" x 3" Cover |
| EF-133B | 1.5 x 3" Base |

Cover and Base sold seperately

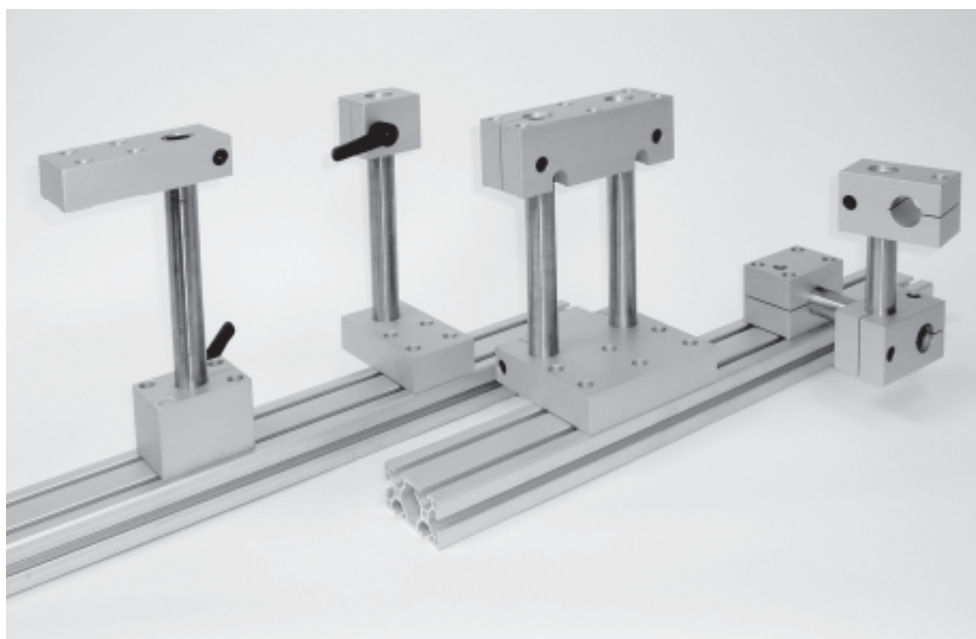
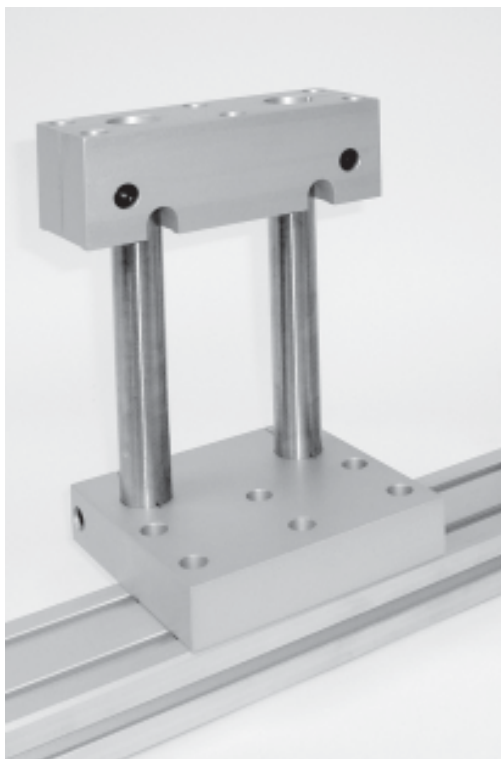
5/16" SLOTS



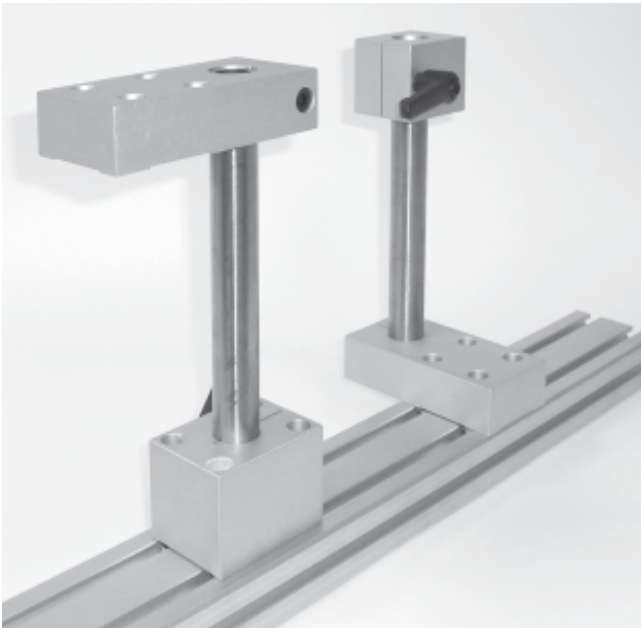
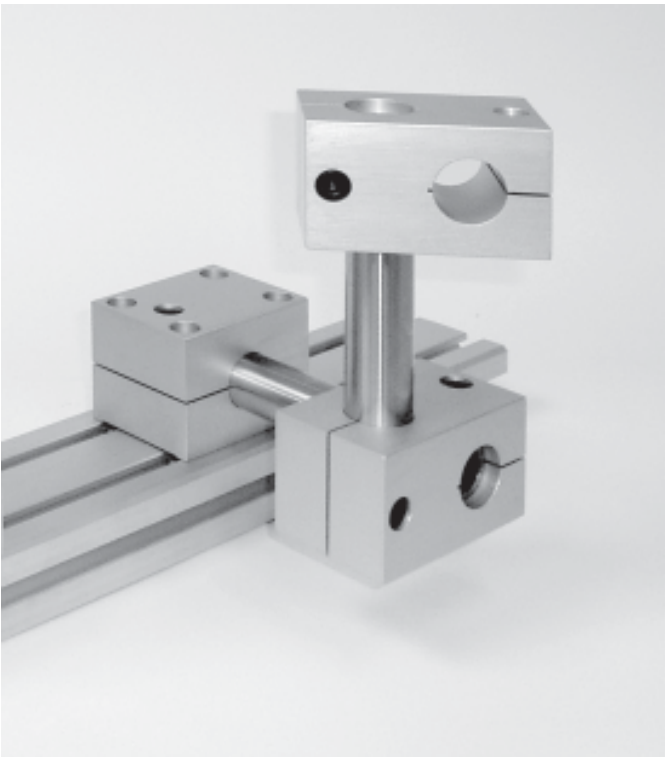
Covers and
Bases stocked in
72" lengths



Material - Rigid PVC
Color - Light Gray

**5/16" SLOTS**

5/16" SLOTS



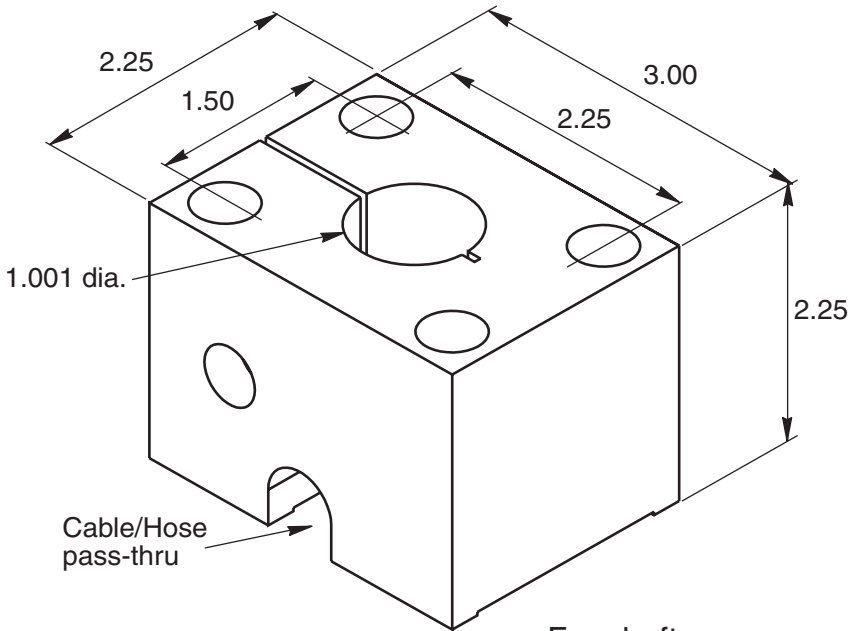


Single Shaft Base

with locking handle
with locking 5/16 SHCS

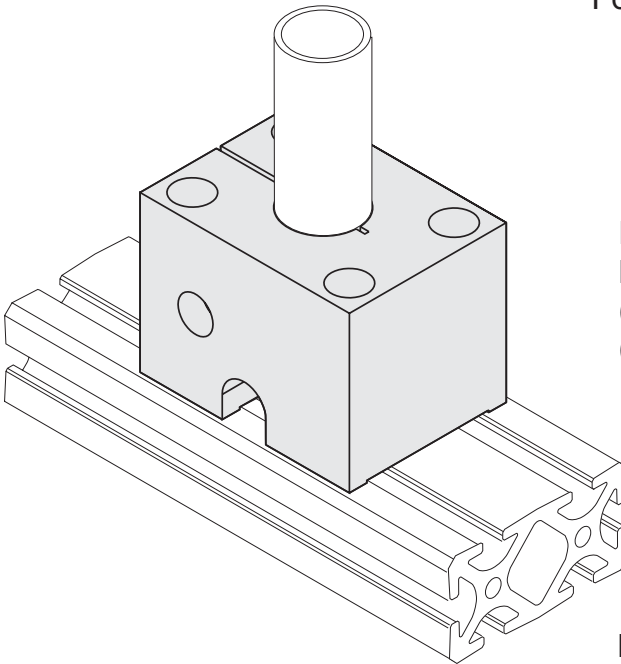
EB-200

EB-201



For shafts, see page 258.

EX-2, EX-67, EX-3



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

Material - Aluminum
Finish - Clear Anodize

Double Shaft Base



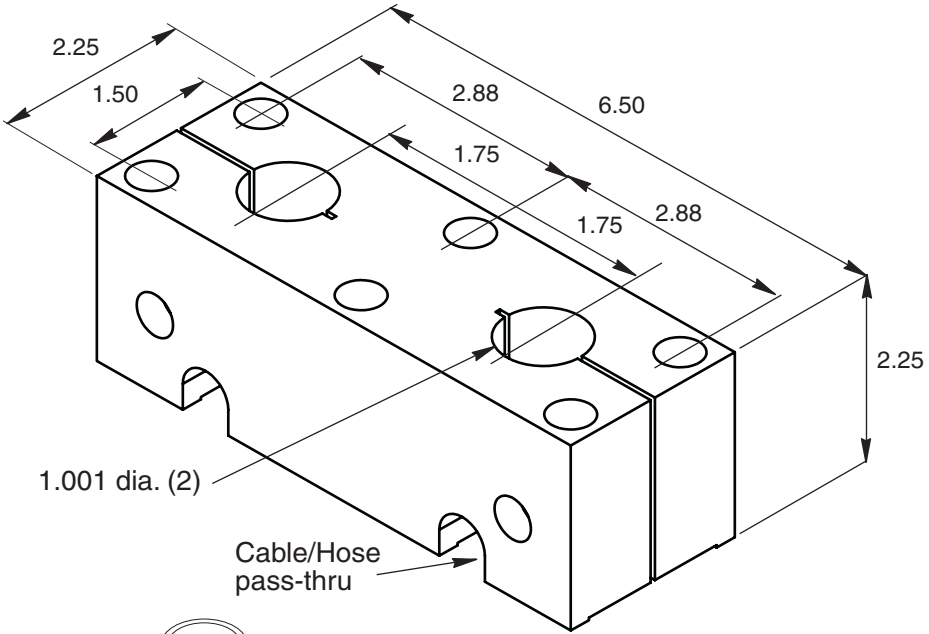
EB-202

with locking handle

EB-203

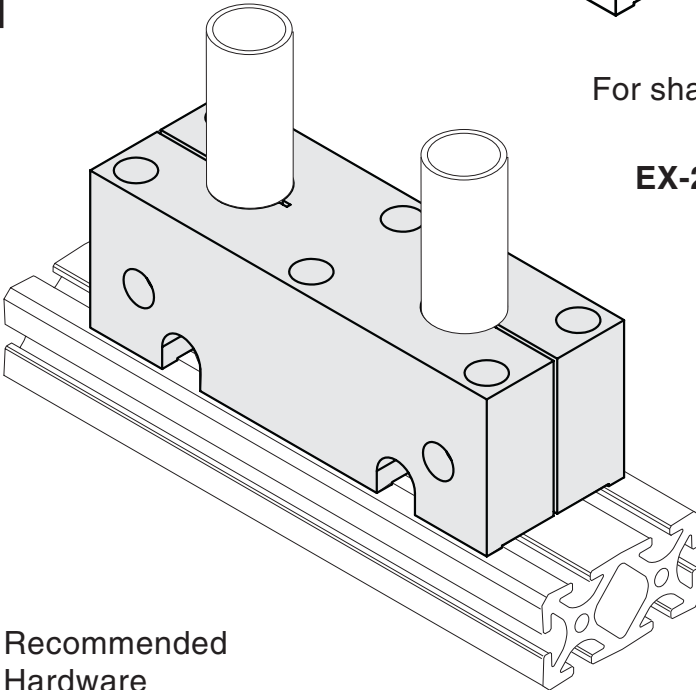
with locking 5/16 SHCS

5/16" SLOTS



For shafts, see page 258.

EX-2, EX-67, EX-3



Recommended
Hardware

(6) EF-11-1.75 SHCS

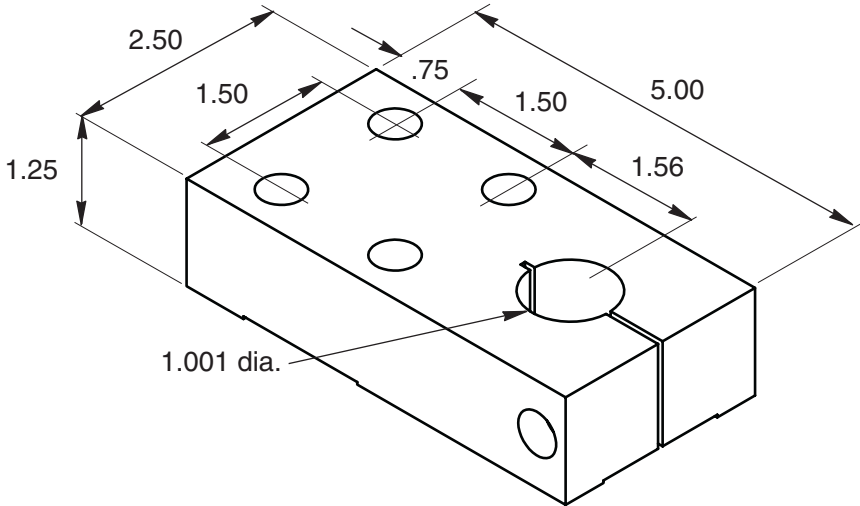
(6) EF-55 T-nut

Material - Aluminum
Finish - Clear Anodize



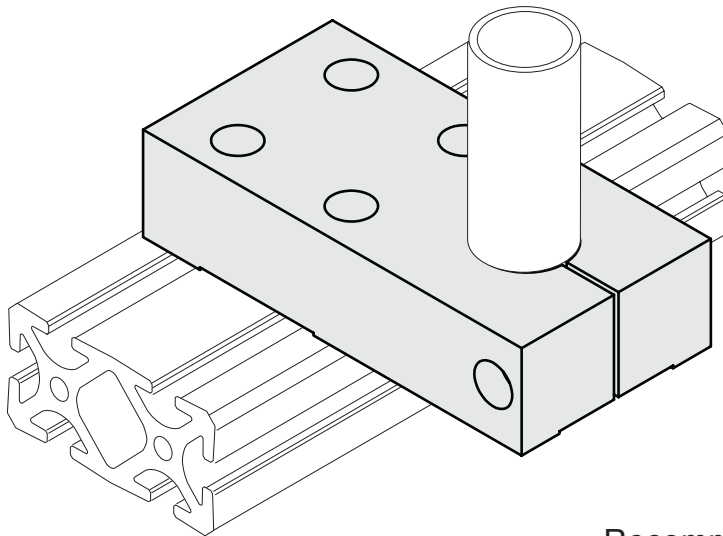
Single Shaft Mounting Plate

with locking handle
with locking 5/16 SHCS

EB-204**EB-205**

For shafts, see page 258

5/16" SLOTS

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

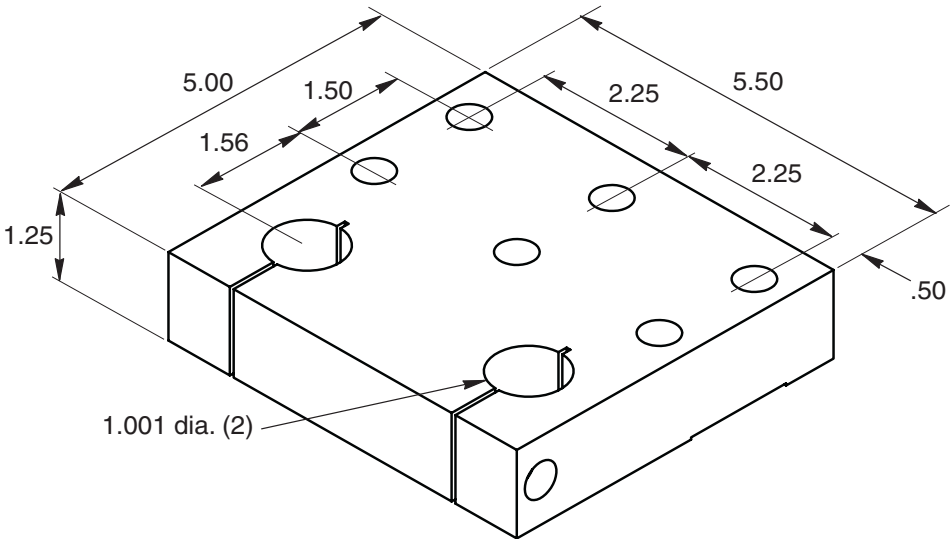
Material - Aluminum
Finish - Clear Anodize

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

Double Shaft Mounting Plate



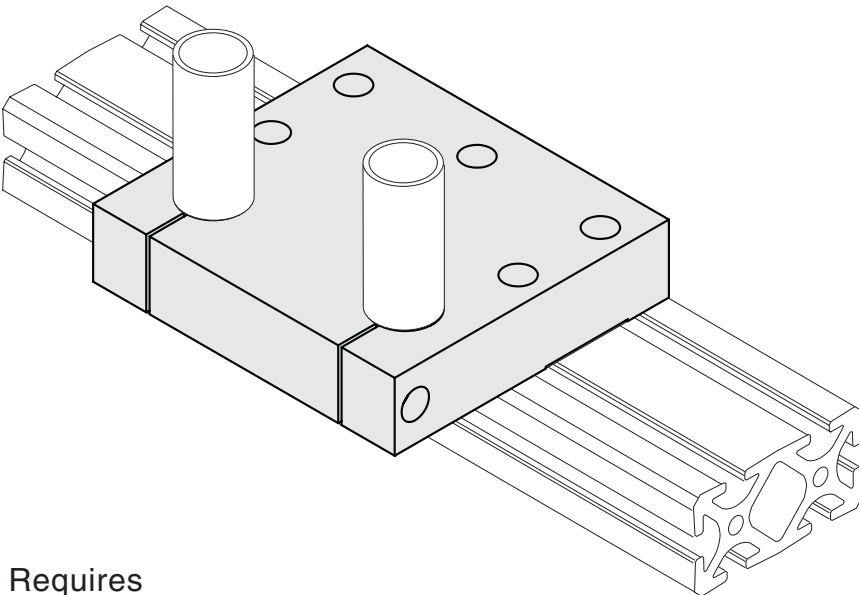
| | |
|---------------|-------------------------------|
| EB-206 | with locking handle |
| EB-207 | with locking 5/16 SHCS |



5/16" SLOTS

EX-2, EX-67, EX-3

For shafts, see page 258.



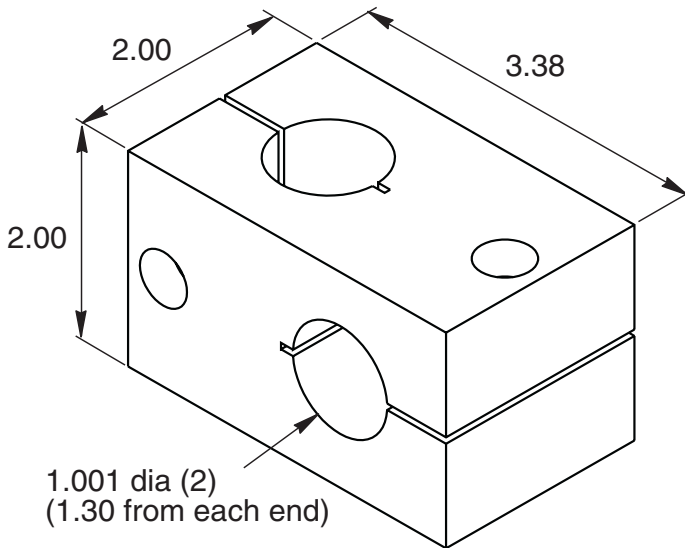
Requires
(6) EF-11-1.0 SHCS
(6) EF-55 T-nut

Material - Aluminum
Finish - Clear Anodize

with locking handle
with locking 5/16 SHCS

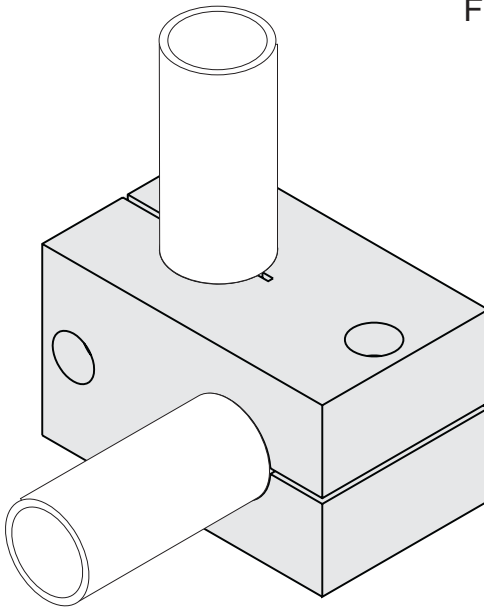
EB-208

EB-209



5/16" SLOTS

For shafts, see page 258.

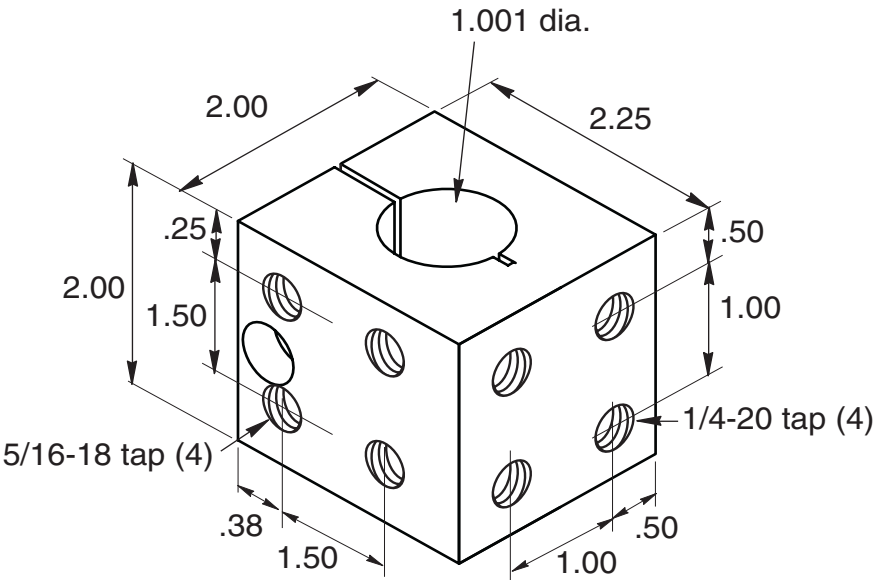


Material - Aluminum
Finish - Clear Anodize

Single Shaft Mounting Block

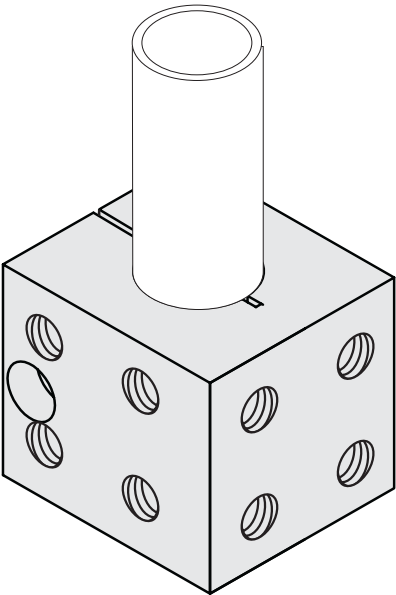


| | |
|---------------|------------------------|
| EB-210 | with locking handle |
| EB-211 | with locking 5/16 SHCS |



5/16" SLOTS

For shafts, see page 258.



Material - Aluminum
Finish - Clear Anodize

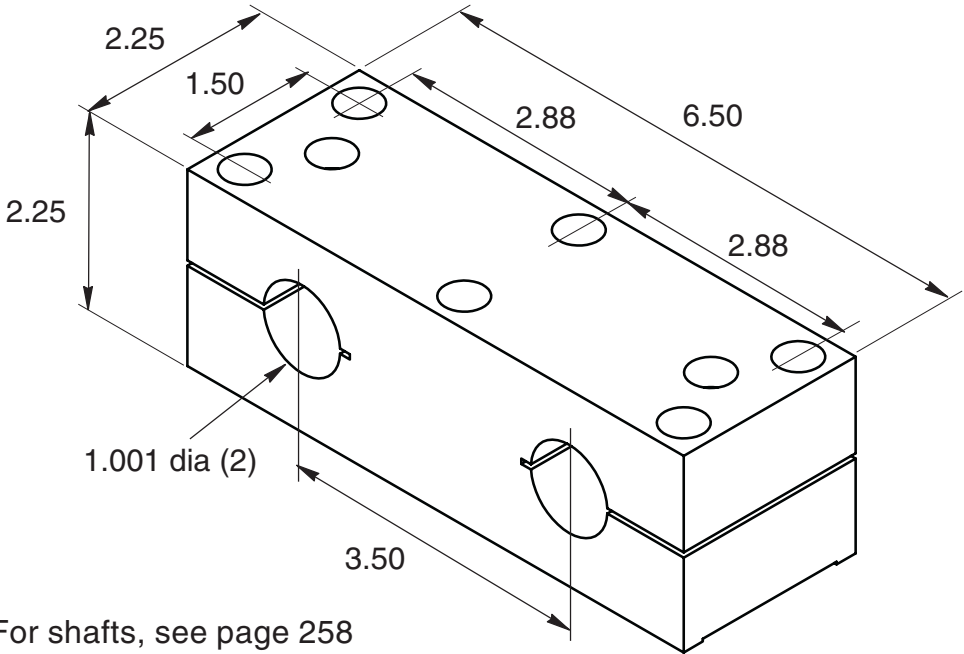


Double Shaft Mounting Block

with locking handle
with locking 5/16 SHCS

EB-212

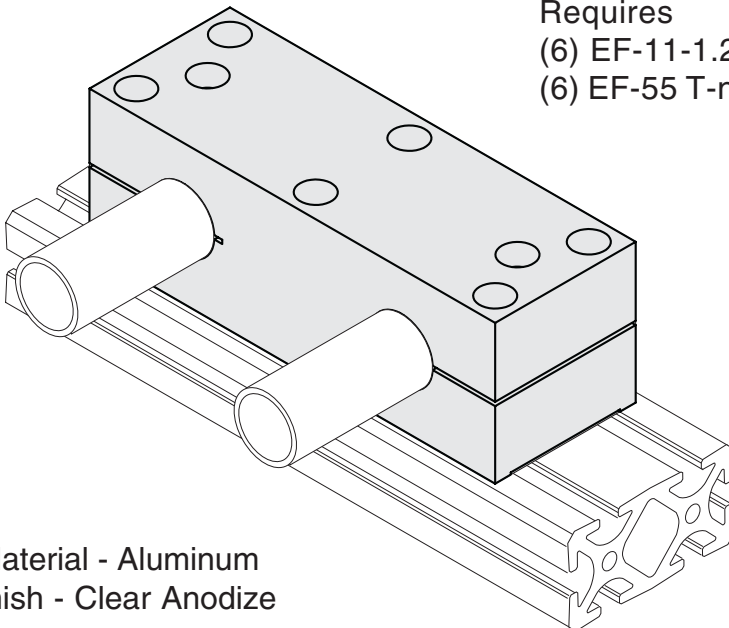
EB-213



5/16" SLOTS

For shafts, see page 258
EX-2, EX-67, EX-3

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



Material - Aluminum
Finish - Clear Anodize

Single Horizontal Base



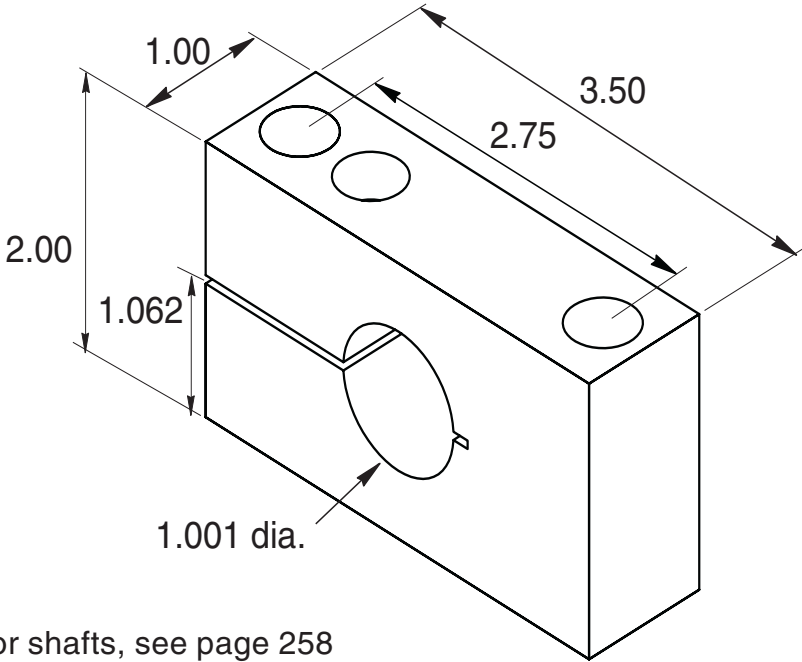
EB-214

with locking handle

EB-215

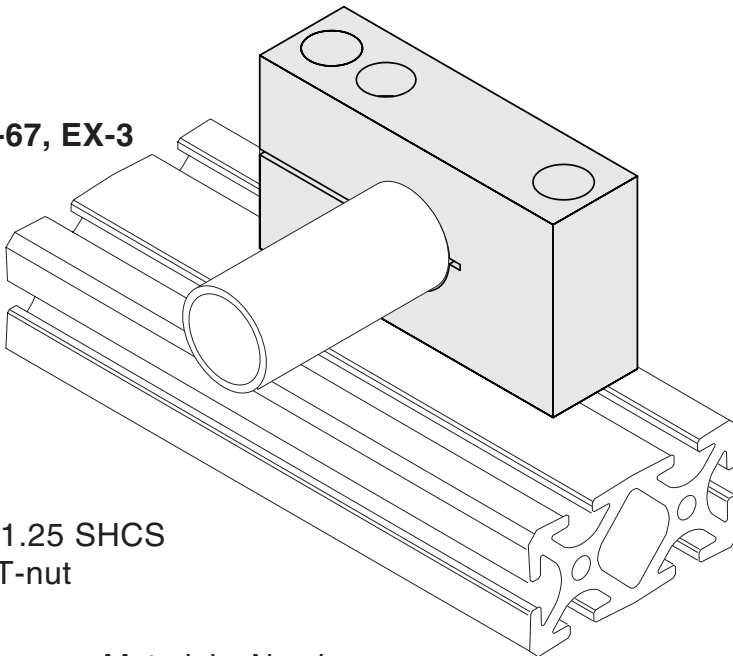
with locking 5/16 SHCS

5/16" SLOTS



For shafts, see page 258

EX-2, EX-67, EX-3



Requires

(2) EF-11-1.25 SHCS

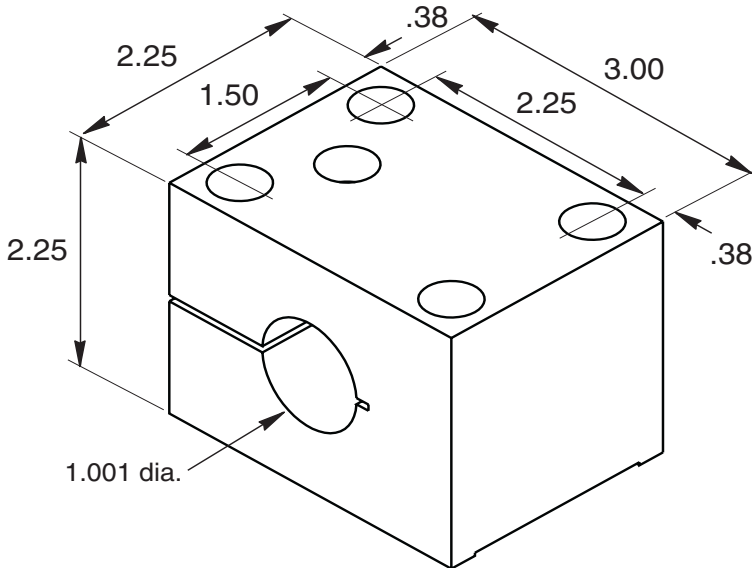
(2) EF-55 T-nut

Material - Aluminum
Finish - Clear Anodize



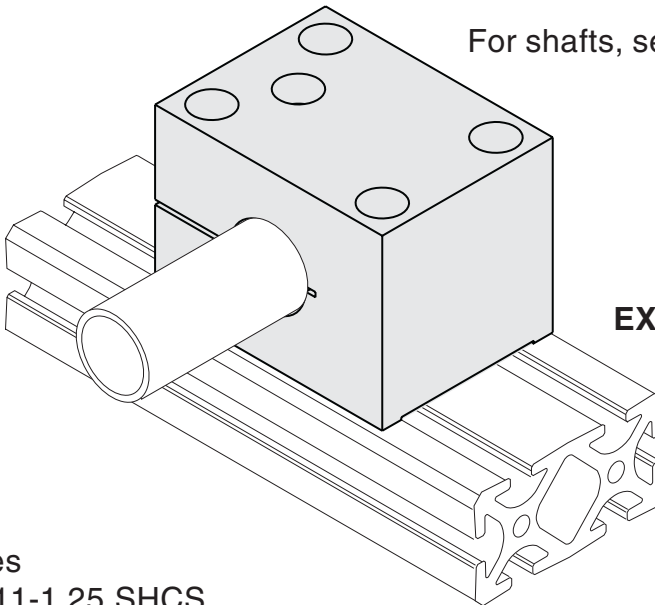
Single Horizontal Base

with locking handle
with locking 5/16 SHCS

EB-216**EB-217**

5/16" SLOTS

For shafts, see page 258

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

Requires

(4) EF-11-1.25 SHCS

(4) EF-55 T-nut

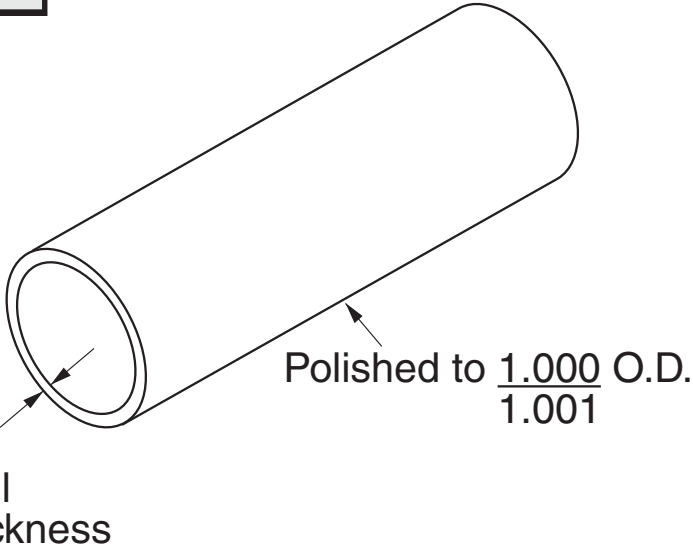
Material - Aluminum
Finish - Clear Anodize

Stanchion Shafts



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



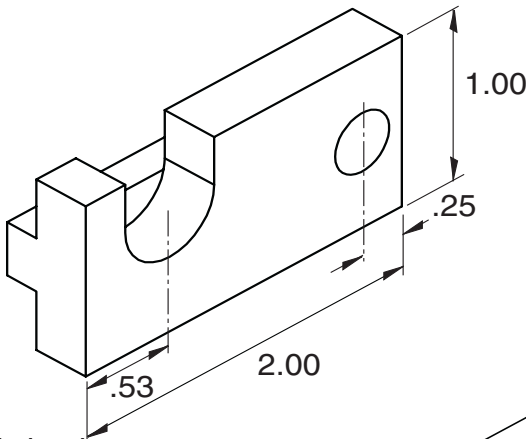
Conveyor Roller Mounting Block

5/16" profiles

EF-150

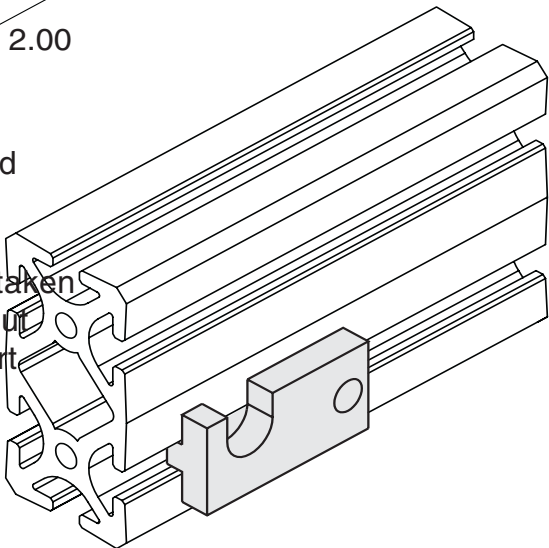
1/4" profiles

EF-151



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



5/16" SLOTS

| | | 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 |

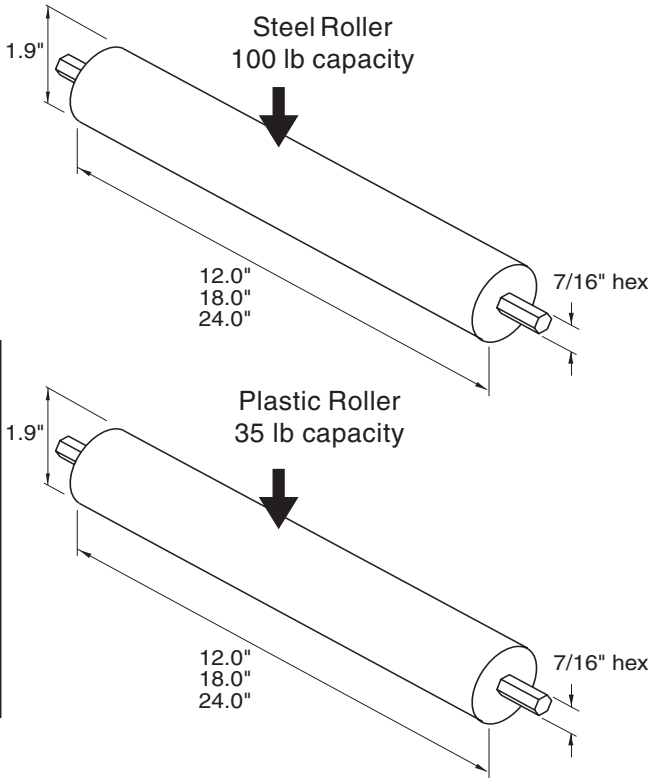
Note: See page 264 for rollers.

Material - Aluminum
Finish - Clear Anodize

Conveyor Rollers



EF-160

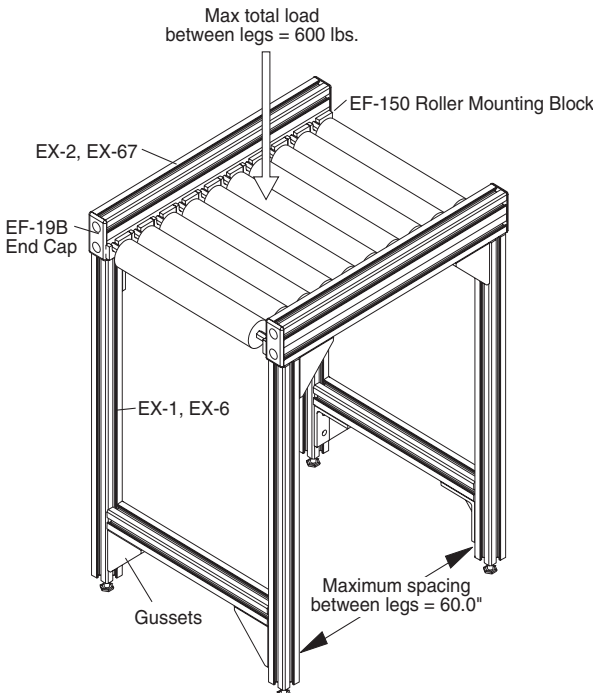


Steel Rollers (Mild-uncoated)

| | |
|--------|-------------|
| 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.

Fractional

EF-11 (5/16-18 thd)

L - inch

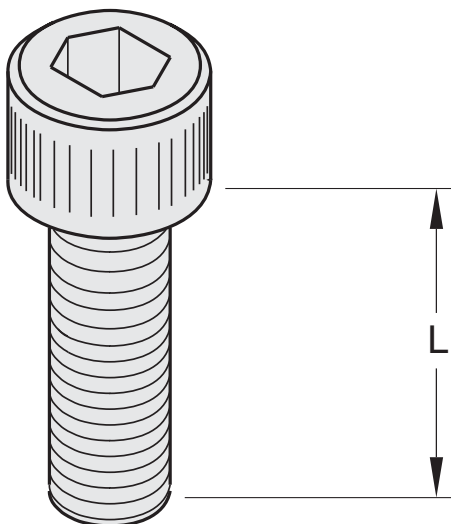
.5
.63
.75
.875
1.0
1.25
1.5
1.75
2.0

Metric

EF-11M (m8 thd)

L - mm

12
16
20
25
30
35



5/16" SLOTS

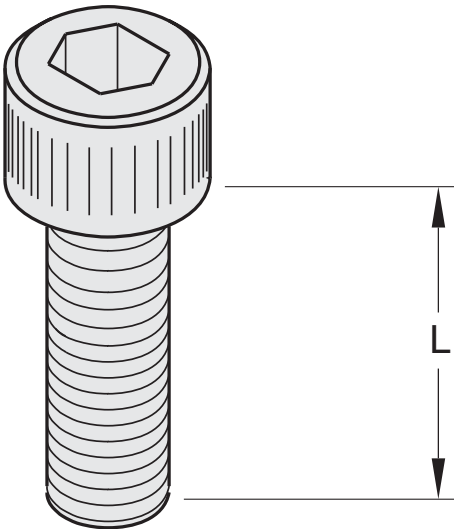
Material - Steel
Finish - Black Oxide Coated

EF-11SS

L-inch

- EF-11SS-.5
- EF-11SS-.63
- EF-11SS-.75
- EF-11SS-1.0
- EF-11SS-1.25

5/16" SLOTS



Material - Stainless Steel

EF-12

Fractional

EF-12

(5/16-18 thd)

L - inch

.5

.63

.75

.875

1.0

1.25

1.5

Metric

EF-12M

(m8 thd)

L - mm

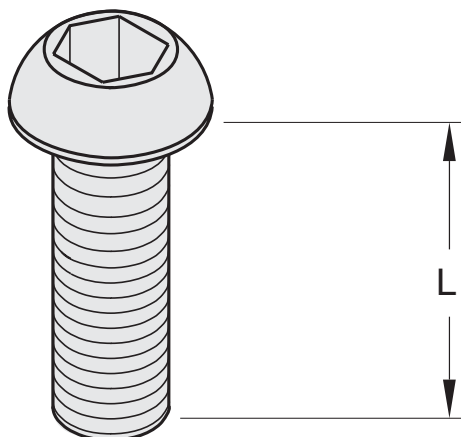
12

16

20

25

30



Material - Steel

Finish - Black Oxide Coated

5/16" SLOTS

EF-12F

(Flanged)

EF-12F (flanged)

(5/16-18 thd)

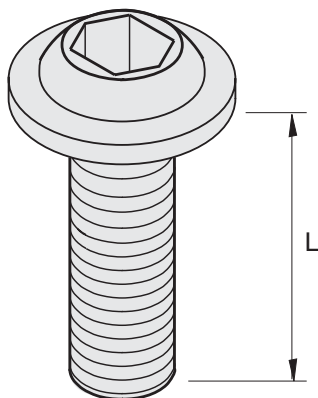
L - inch

.5

.63

.75

1.0



Material - Steel

Finish - Black Oxide Coated

Stainless Steel
Button Head Cap Screw

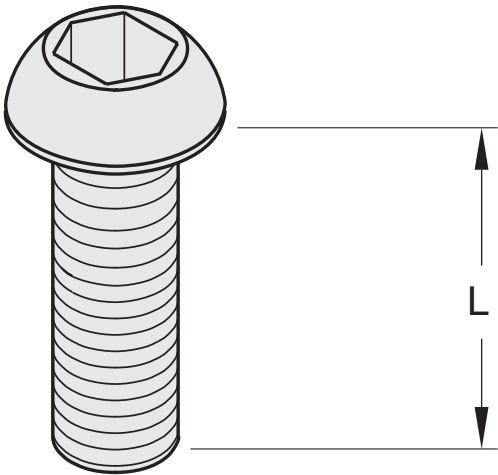


EF-12SS

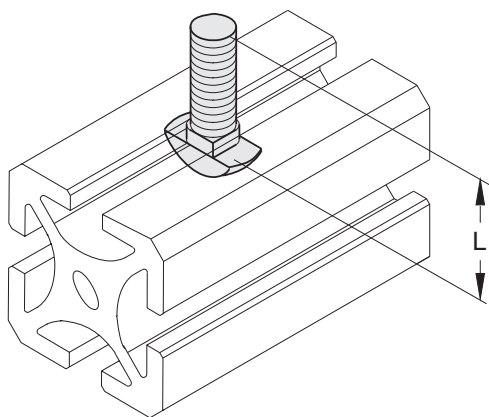
L-inch

- EF-12SS-.5
- EF-12SS-.63
- EF-12SS-.75
- EF-12SS-1.0
- EF-12SS-1.25

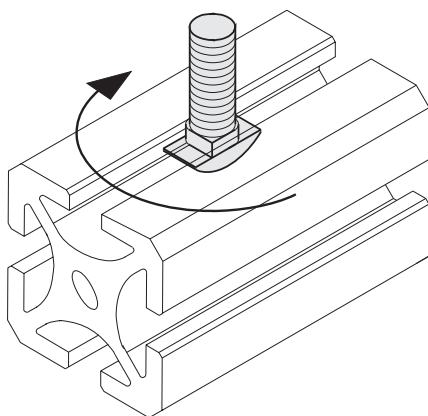
5/16" SLOTS



Material - Stainless Steel



L - inch
 -.75
 -1.0
 -1.25
 -1.50



5/16" SLOTS

Material - Steel
 Finish - Zinc Plated

EF-10

Fractional
EF-10 (5/16-18 thd)

L - inch

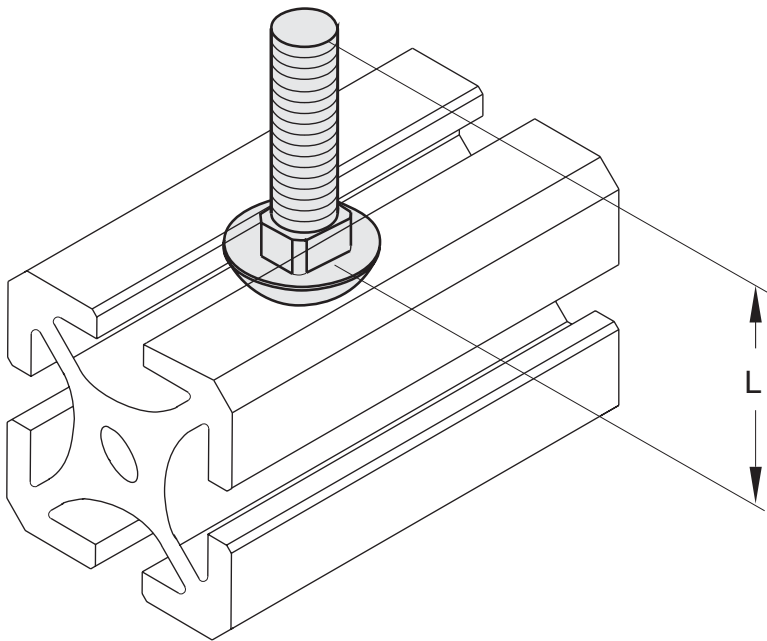
.75
1.0
1.25
1.5
2.0

Metric
EF-10M (m8 thd)

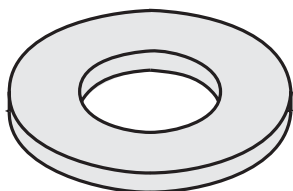
L - mm

20
25
35
45

5/16" SLOTS



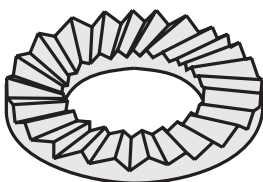
Material - Steel
Finish - Zinc Plated



Material - Steel
Finish - Black Oxide Coated

EF-13A (Hardened Steel Heavy Duty)

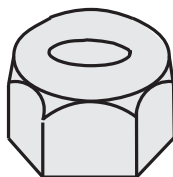
(use with m8 also)

EF-SS13A (Stainless Steel)

Material - Steel
Finish - Black Oxide Coated

EF-13B (Serrated Belleville)

(use with m8 also)

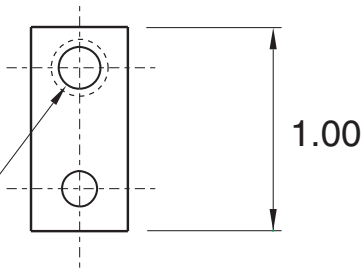
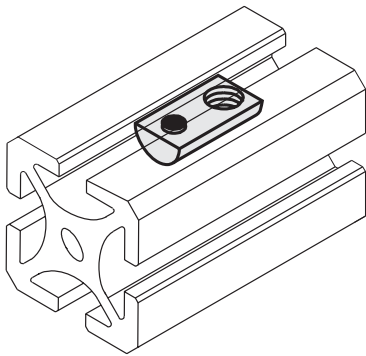


Material - Steel
Finish - Zinc Plated

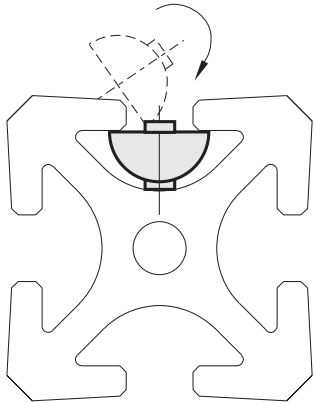
EF-13C 5/16-18 Hex Nuts
EF-13CM m8 Hex Nuts

EF-1

5/16" SLOTS

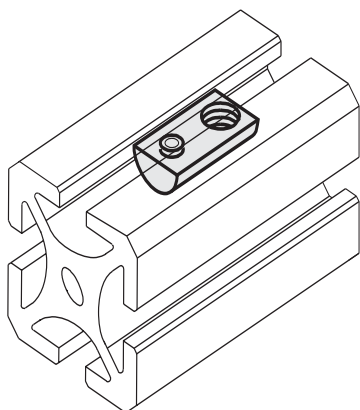


- EF-1** 5/16-18 thd
- EF-1A** 1/4-20 thd
- EF-1B** 10-32 thd
- EF-1C** m8 thd
- EF-1D** m6 thd
- EF-1E** 8-32 thd

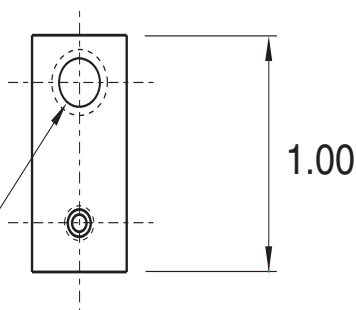


**Not used with
EX-4 & EX-5**

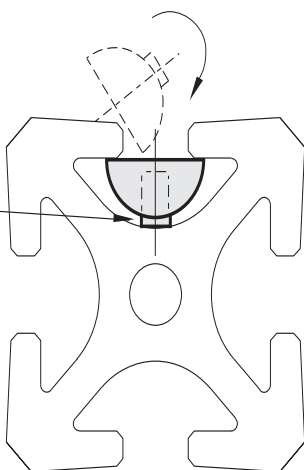
Material - Steel
Finish - Zinc Plated


EF-65
EF-66
EF-67
EF-68
EF-69

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



10-32 setscrew
included


5/16" SLOTS

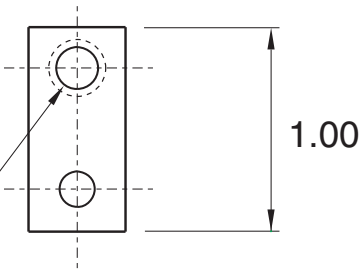
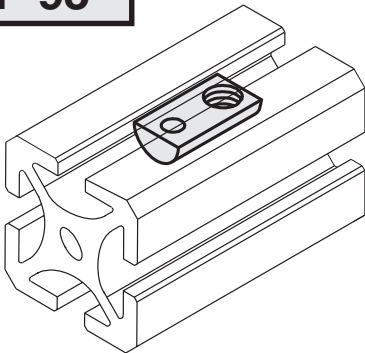
Material - Steel
Finish - Zinc Plated

Ball and Spring Pivot T-nut

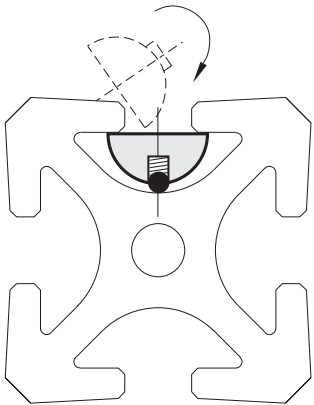


| |
|--------------|
| EF-91 |
| EF-92 |
| EF-93 |
| EF-94 |
| EF-95 |

use with EX-1, EX-2, EX-26, EX-3,
and EX-36 only

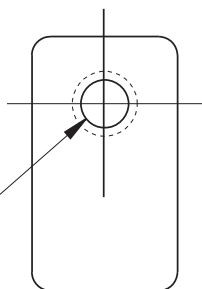
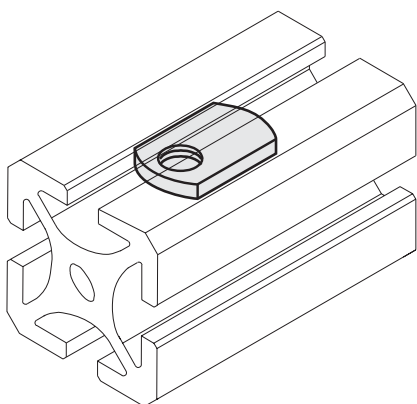


- EF-91** 5/16-18 thd
- EF-92** 1/4-20 thd
- EF-93** 10-32 thd
- EF-94** m8 thd
- EF-95** m6 thd

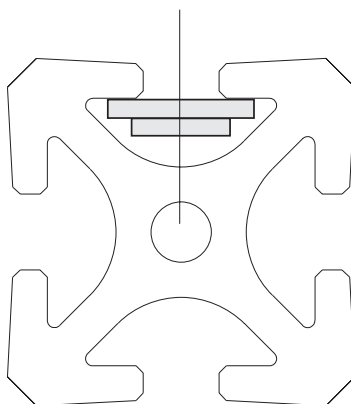


Material - Steel
Finish - Zinc Plated

5/16" SLOTS



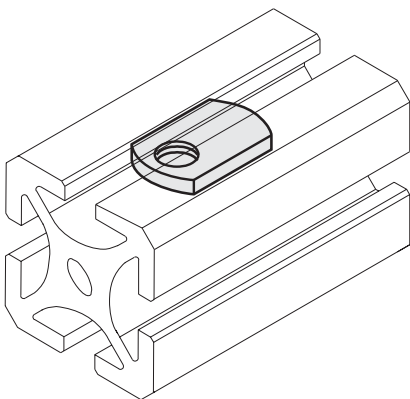
EF-2 5/16-18 thd
EF-2A 1/4-20 thd
EF-2B 10-32 thd
EF-2C m8 thd
EF-2E m6 thd
EF-2G 8-32 thd
EF-2H 6-32 thd



5/16" SLOTS

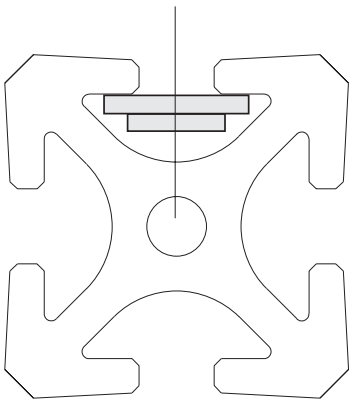
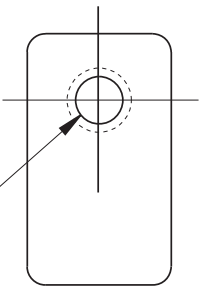
Material - Steel
Finish - Zinc Plated

EF-2ST
EF-2AST

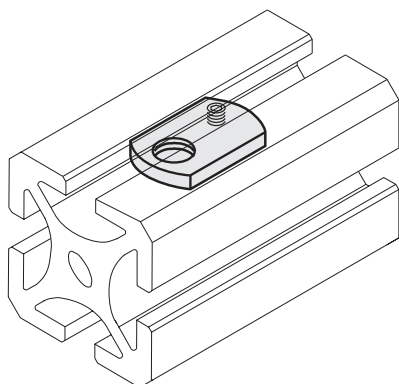


EF-2ST
EF-2AST

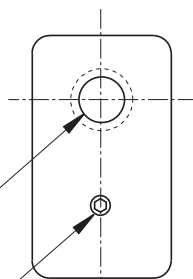
5/16-18 thd
1/4-20 thd



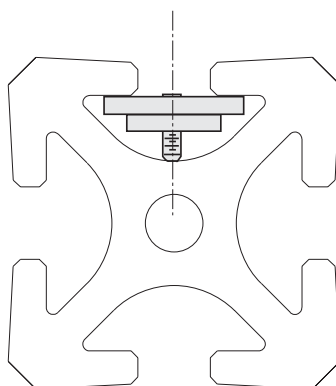
5/16" SLOTS

EF-50
EF-51
EF-52


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



set screw
(included)

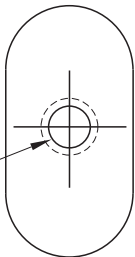
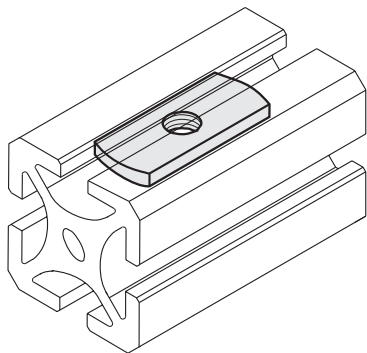


Set screw holds
T-nut in place

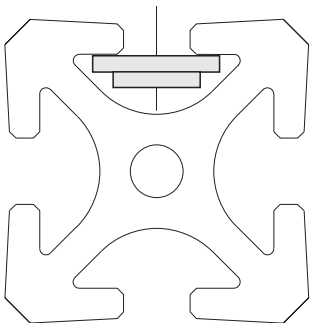
Material - Steel
 Finish - Zinc Plated

5/16" SLOTS

EF-4



| | |
|---------------|-------------|
| EF-4 | 5/16-18 thd |
| EF-4A | 1/4-20 thd |
| EF-4B | 10-32 thd |
| EF-4C | m8 thd |
| EF-4D | m6 thd |
| 11-217 | 8-32 thd |
| 11-219 | 6-32 thd |

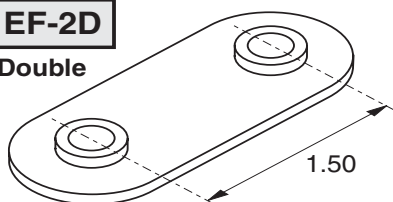


Material - Steel
Finish - Zinc Plated

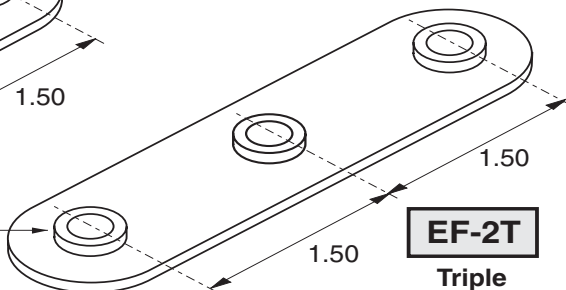
5/16" SLOTS

EF-2D

Double

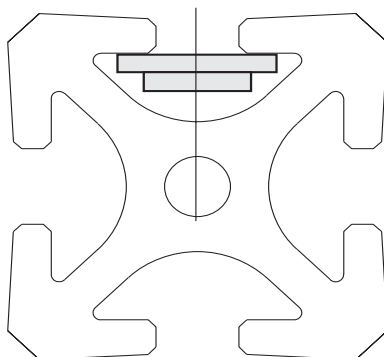
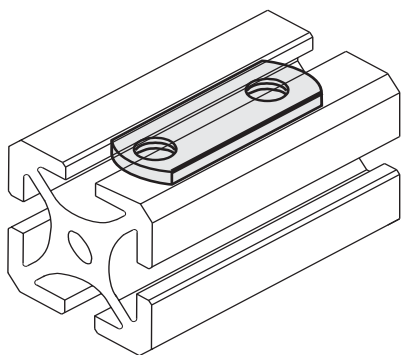


5/16-18 thd (typ.)



EF-2T

Triple

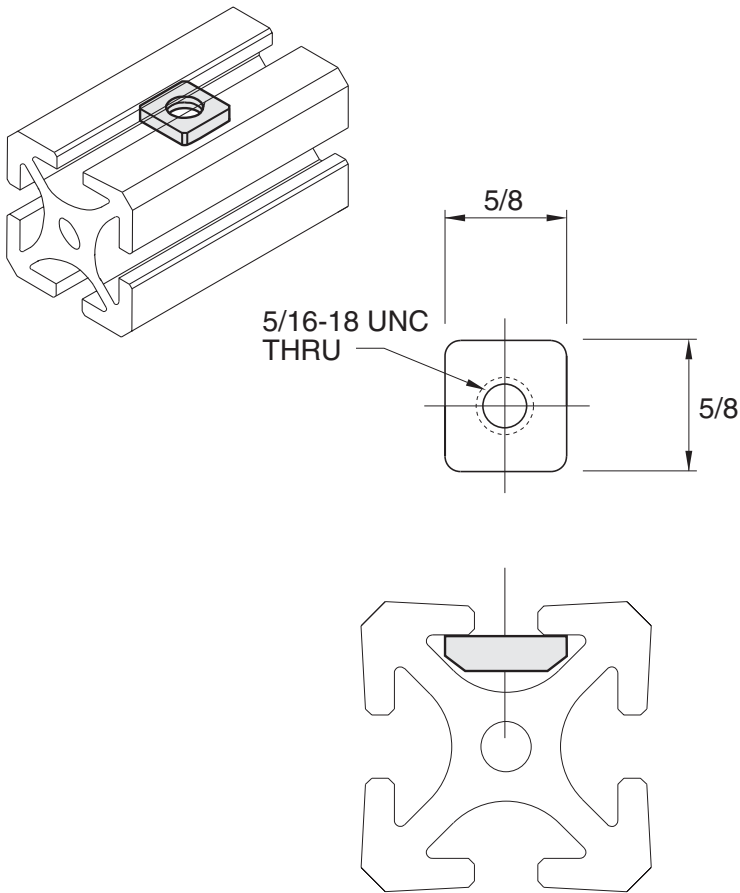


5/16" SLOTS

Material - Steel
Finish - Zinc Plated

EF-3

5/16" SLOTS



Material - Steel
Finish - Zinc Plated

.33 Slot Width
EF-55
EF-56
EF-57
EF-58
EF-59
EF-55 5/16-18 thd

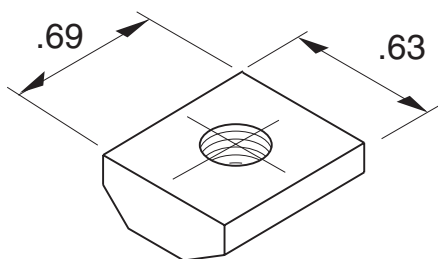
EF-56 1/4-20 thd

EF-57 10-32 thd

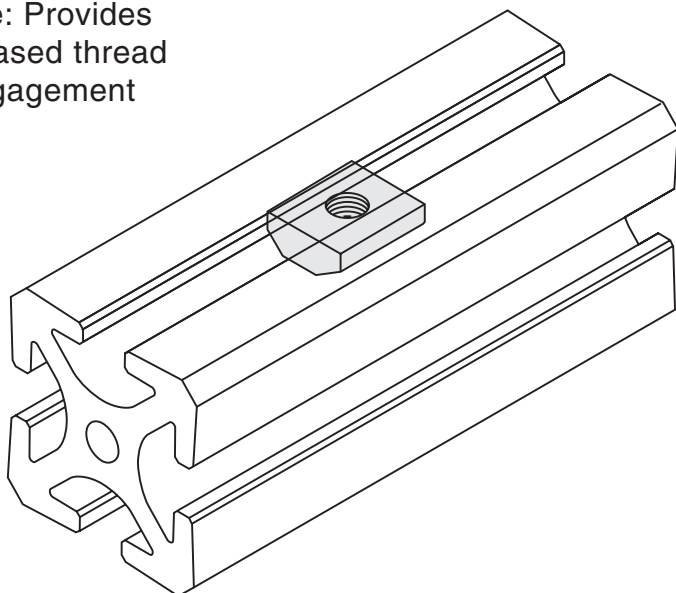
EF-58 m8 thd

EF-59 m6 thd

EF-83 8-32 thd

EF-84 6-32 thd


Note: Provides
increased thread
engagement

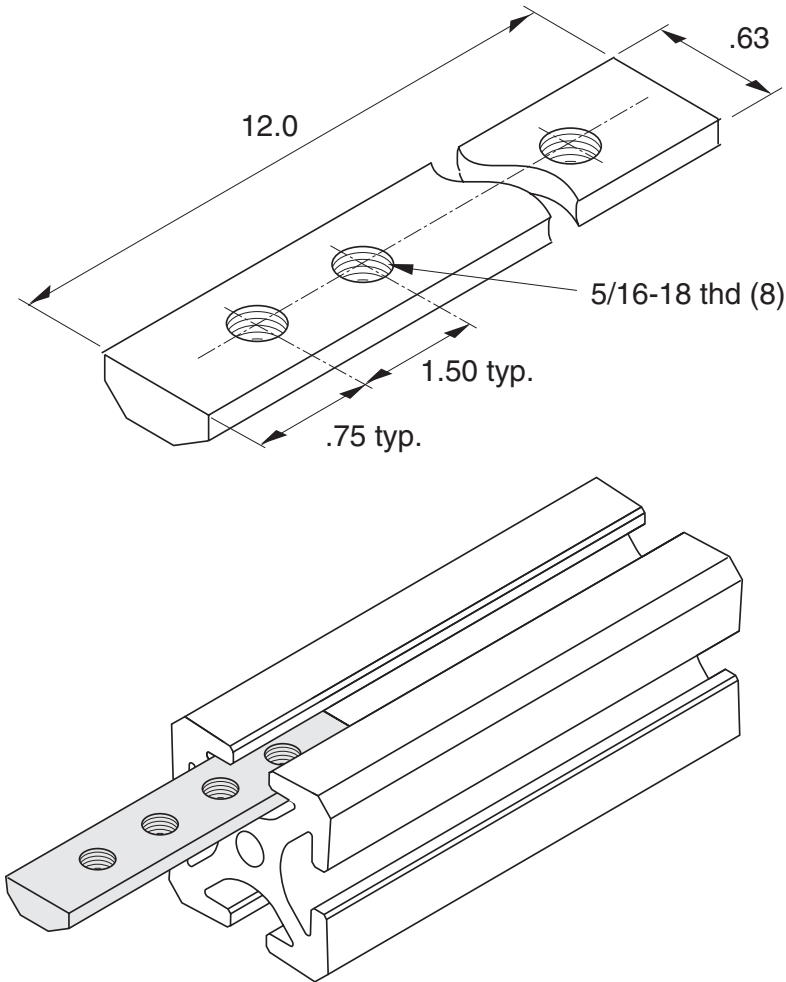

5/16" SLOTS

Material - Steel
Finish - Zinc Plated

EF-53

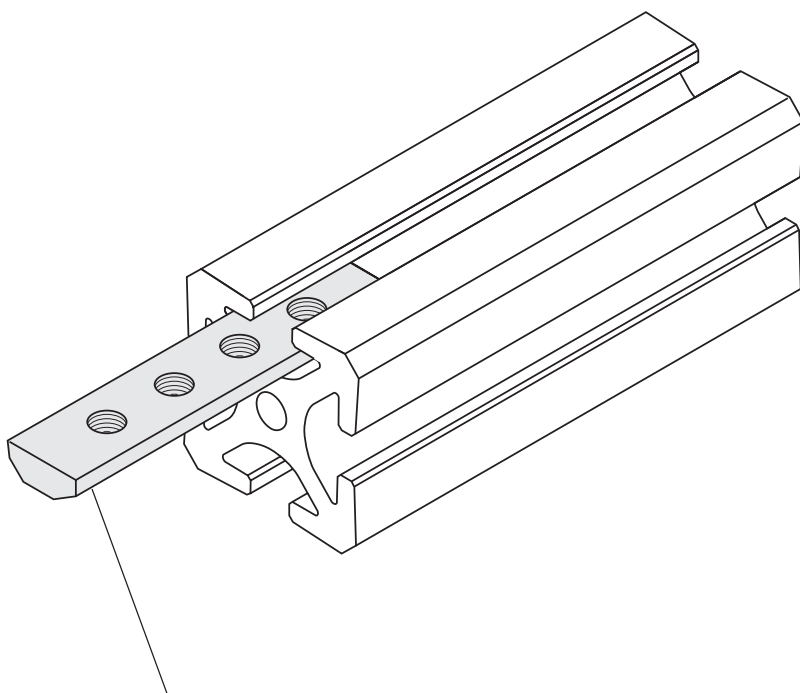
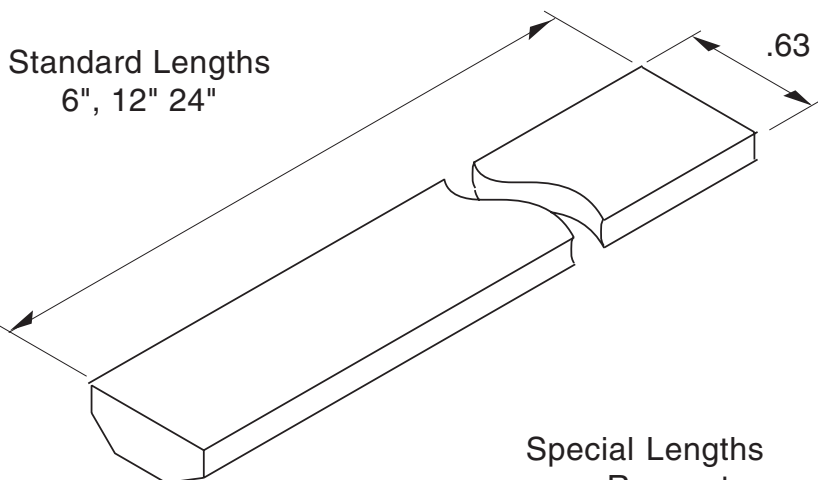
.33 Slot Width

5/16" SLOTS



Special lengths can be provided on request

Material - Steel
Finish - Zinc Plated

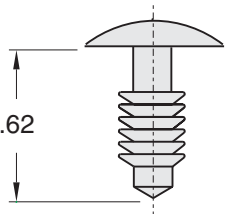


Note: Factory supplied tapped holes
can be supplied per customer specification

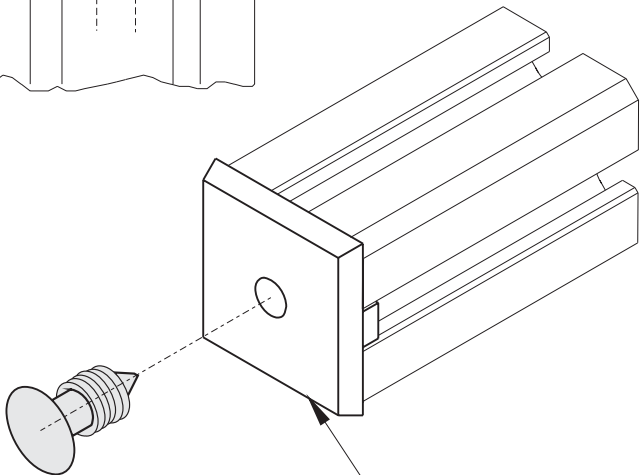
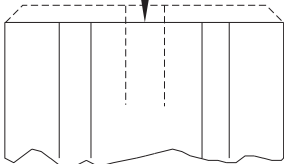
Material - Steel
Finish - Zinc Plated

5/16" SLOTS

EF-14



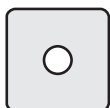
Note: Hole can be threaded
for permanent installation



EF-19 Plastic
End Plates

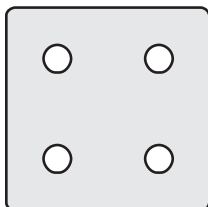
Material - Nylon

5/16" SLOTS



EF-19-A

use with EX-1,
EX-6, EX-61,
EX-63, EX-64,
EX-65 and EF-14



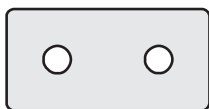
EF-19-C

use with EX-3,
EX-36 and EF-14



EF-19-D

use with EX-7



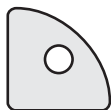
EF-19-B

use with EX-2,
EX-67, EX 68
and EF-14



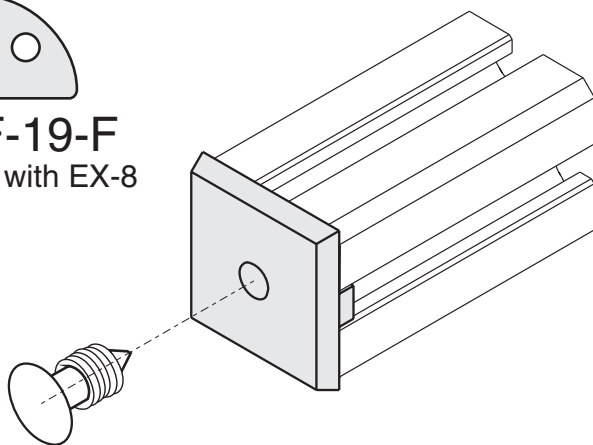
EF-19-E

use with EX-52,
and 11-251



EF-19-F

use with EX-8



Push Lock Fasteners included with ALL end plates

Material - Black ABS Plastic

Note: for metal covers, consult the factory.

Pneumatic Manifold End Plate and Gasket

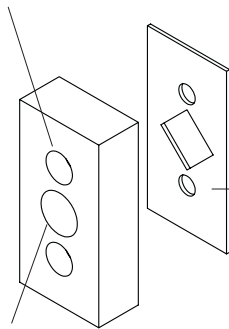


PM-2

PM-2

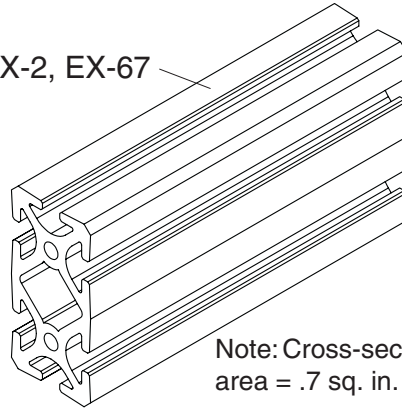
EX-2, EX-67

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



3/8 NPT

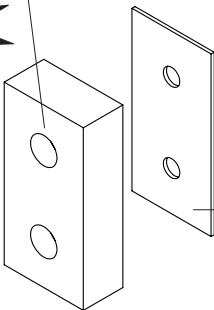
Cork Gasket Included



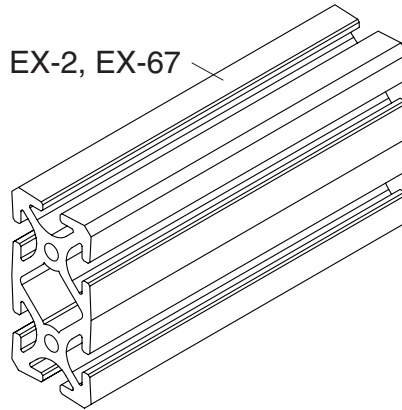
Note: Cross-sectional internal
area = .7 sq. in.

PM-2B

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



Cork Gasket Included



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

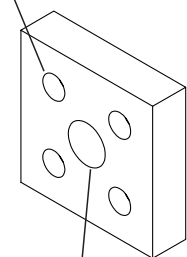
Note: tap extrusion holes
5/16-18 thread

Recommended Hardware
(2) EF-11-1.0

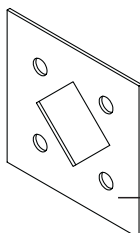
5/16" SLOTS

PM-3

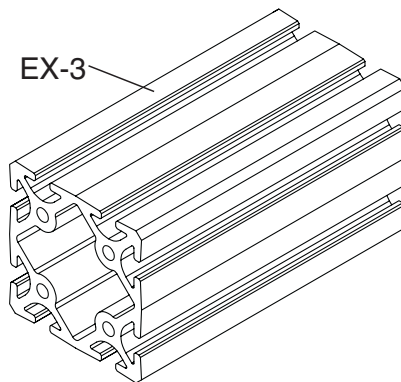
Drilled and C'bored
for 5/16-18 SHCS (4)



1/2 NPT



EX-3

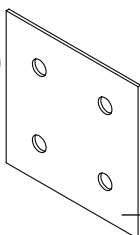
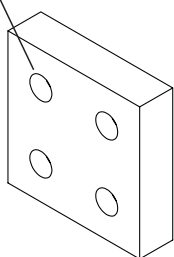


Cork Gasket Included

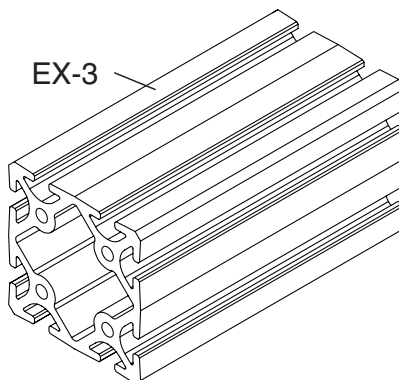
Note: Cross-sectional internal
area = 3.5 sq. in.

PM-3B

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



EX-3



Cork Gasket Included

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

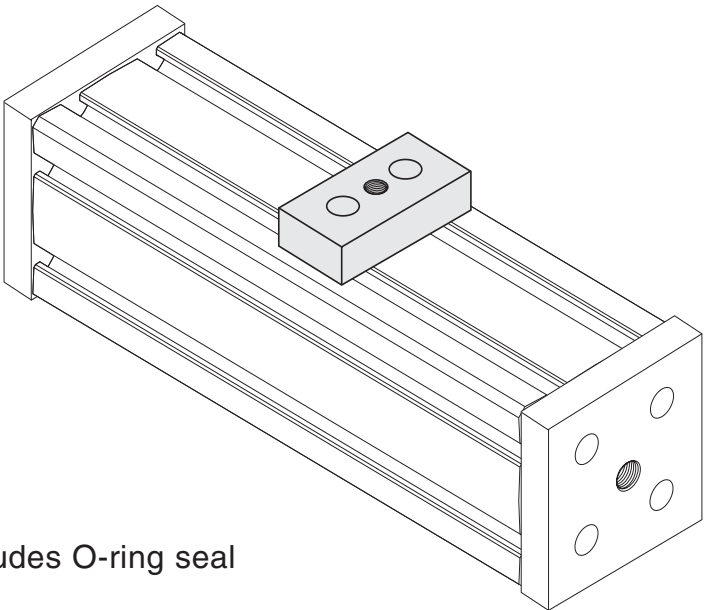
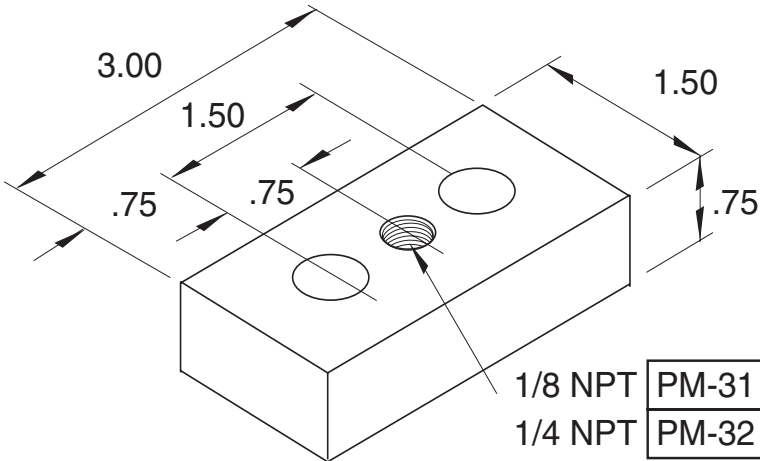
5/16" SLOTS

Recommended Hardware
(4) EF-11-1.0

Pressure Manifold Plate



| |
|-------|
| PM-31 |
| PM-32 |



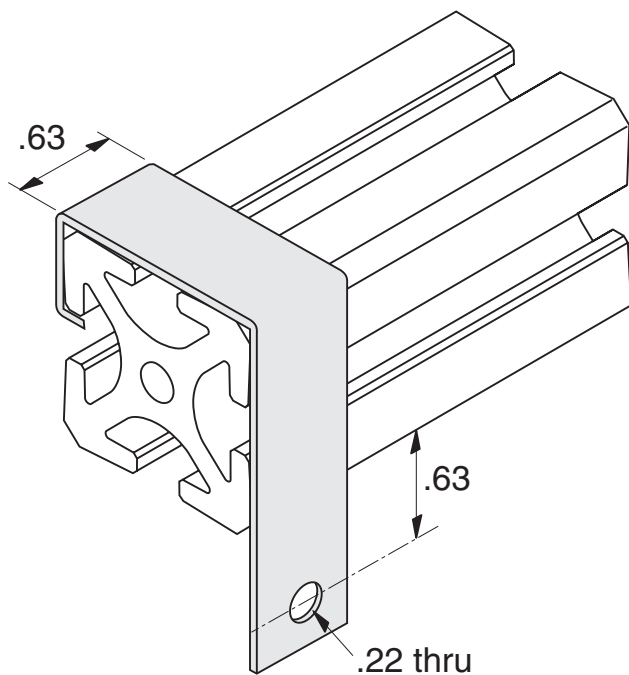
includes O-ring seal

Recommended Hardware

- (2) EF-11-1.0 SHCS
- (2) EF-2 T-nuts

Material - Aluminum
Finish - Clear Anodize

5/16" SLOTS



Material
Zinc Plated Steel

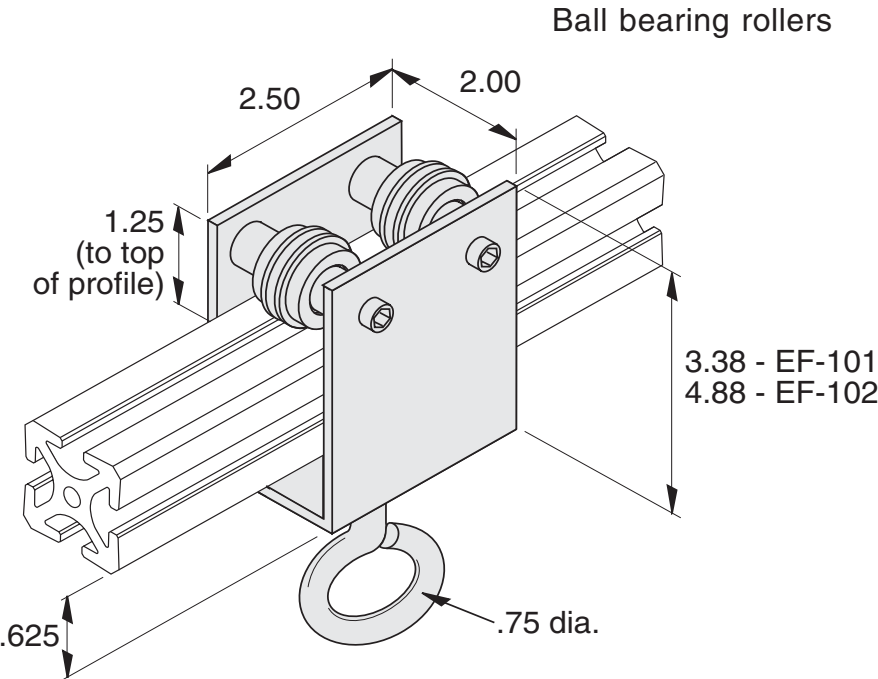
Roller Bearing Tool Hanger



| |
|---------------|
| EF-101 |
| EF-102 |

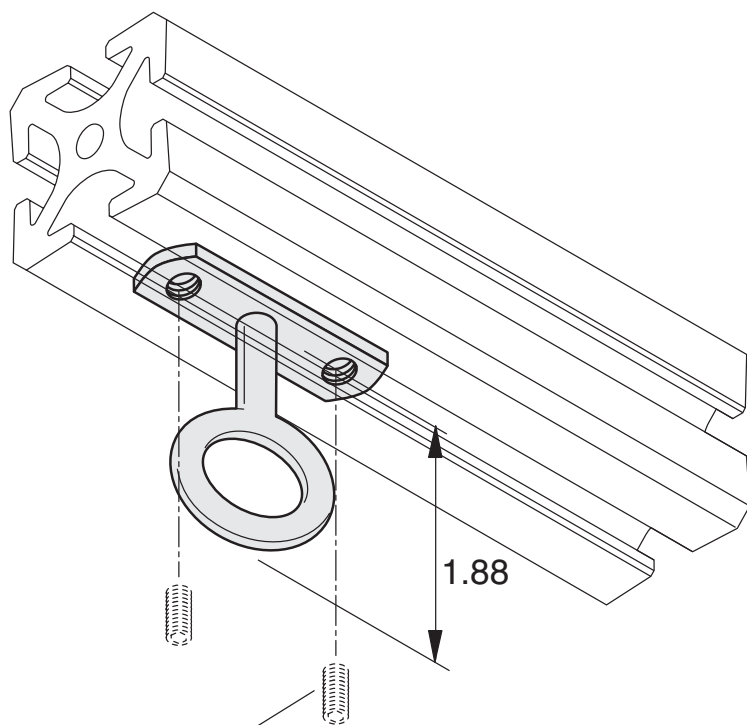
for 1.5" x 1.5" extrusions
for 1.5" x 3.0" extrusions

5/16" SLOTS



Max Load is 150 lbs.

Material - Steel
Bearings and Eyelet Material - Steel
Finish - Powder Coat

**5/16" SLOTS**

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

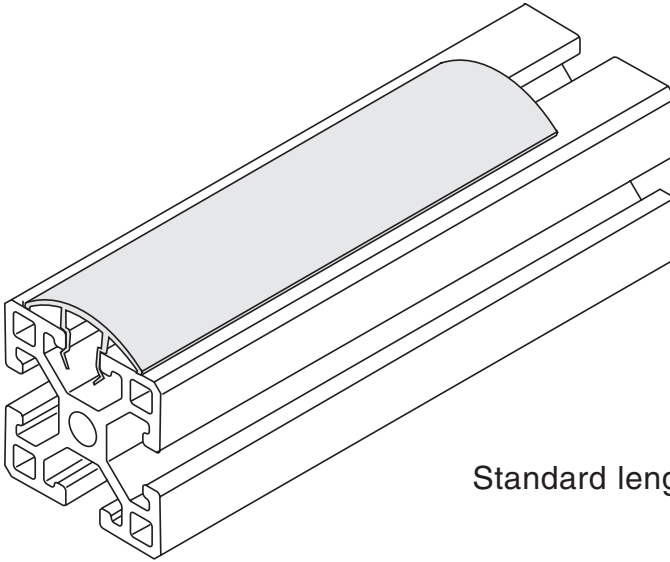
Max. load 40 lbs

Material - Steel
Finish - Zinc Plated

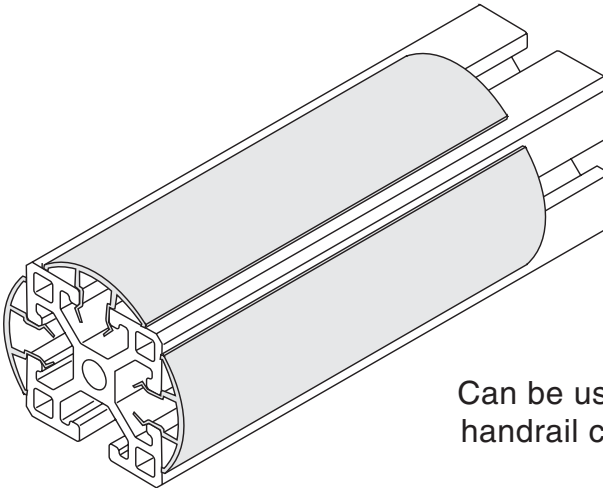
EF-28

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

5/16" SLOTS

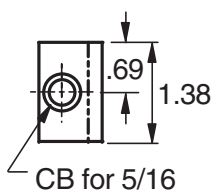
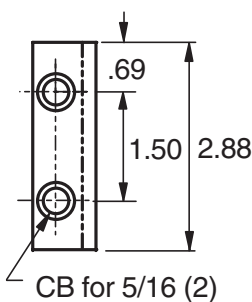
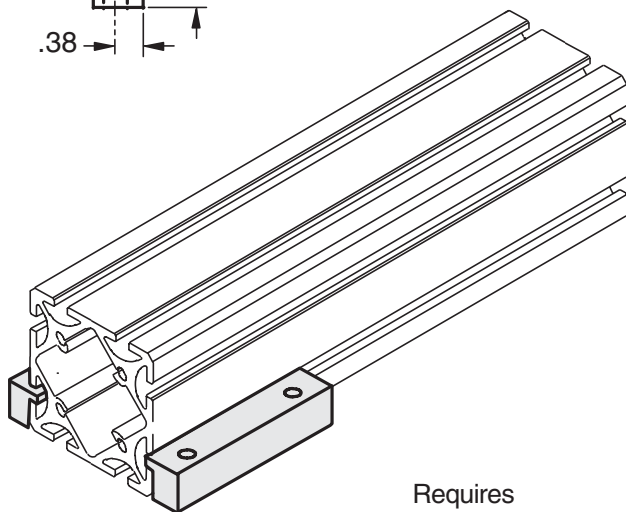
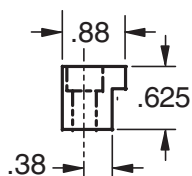
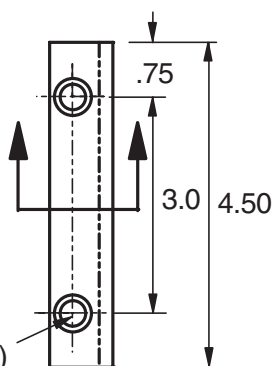


Standard length 72"



Can be used as
handrail covers

Material - Rigid PVC
Color - Black

EF-30A

EF-30B

EF-30C


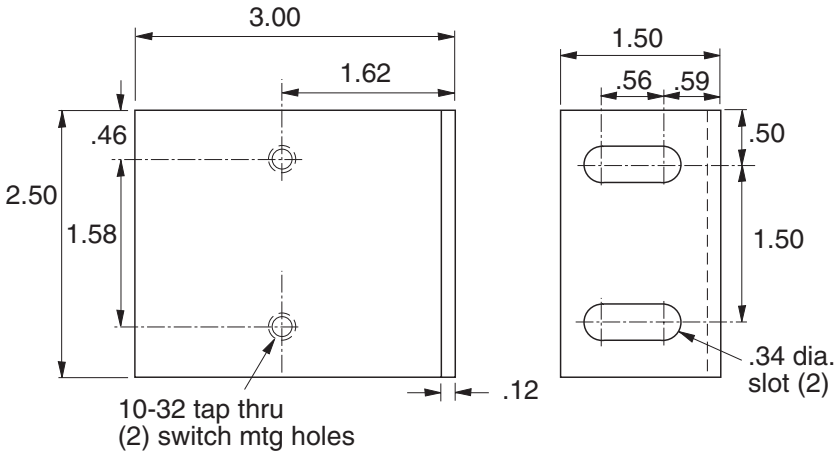
Requires
(2) EF-11-63 SHCS
(2) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

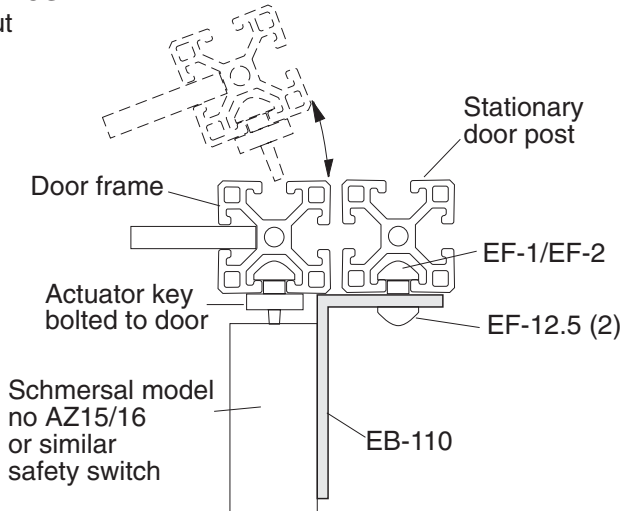
5/16" SLOTS

EB-110

5/16" SLOTS

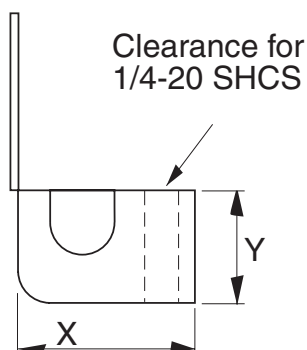


Requires
(2) EF-12.5 BHCS
(2) EF-2 T-nut



Material - Aluminum
Finish - Clear Anodize

| | Tubing Size | X | Y |
|---------------|----------------|------|------|
| EF-42A | 3/8" | 1.06 | .59 |
| EF-42B | 1/2" | 1.38 | .94 |
| EF-42C | 3/4" | 1.63 | 1.25 |
| EF-42D | 1" | 1.69 | 1.25 |



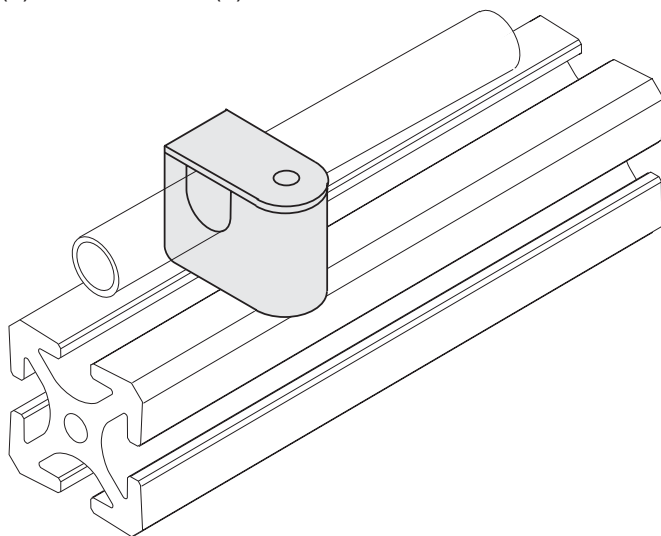
Hardware Required:

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

5/16" SLOTS

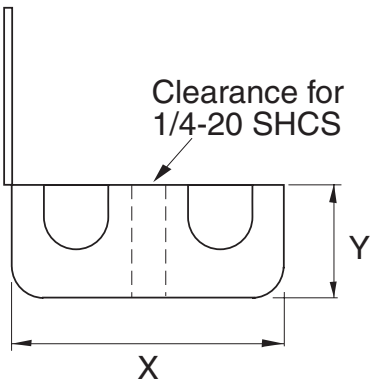
Double Tubing Clamp



EF-43

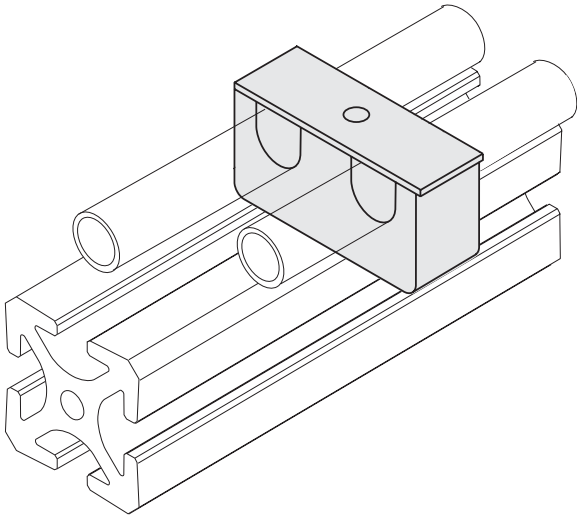
5/16" SLOTS

| | Tubing Size | X | Y |
|--------|-------------|------|------|
| EF-43A | 3/8" | 1.66 | .59 |
| EF-43B | 1/2" | 2.18 | .94 |
| EF-43C | 3/4" | 2.81 | 1.25 |
| EF-43D | 1" | 2.88 | 1.25 |

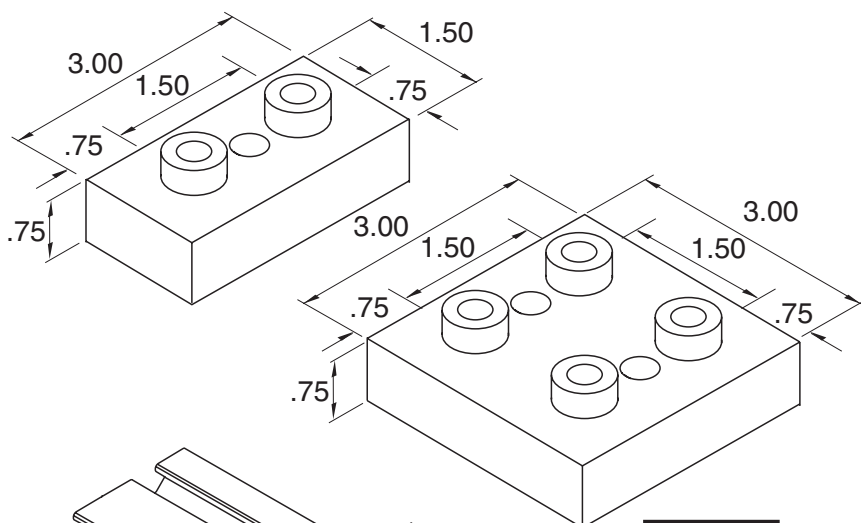
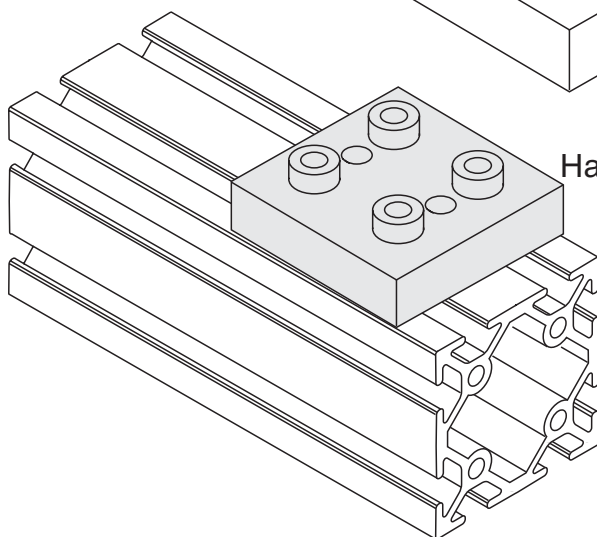


Hardware Required:

- 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

EF-80
EF-80
EF-81
Hardware Included

EF-81
Hardware Included


Note: Use on EX-1, EX-2, EX-3, EX-7, EX-36, EX-61, EX-63, EX-64, EX-65, EX-67, EX-68 for drilling access holes for universal connector style corners.

Plate Material - Aluminum
Finish - Clear Anodize

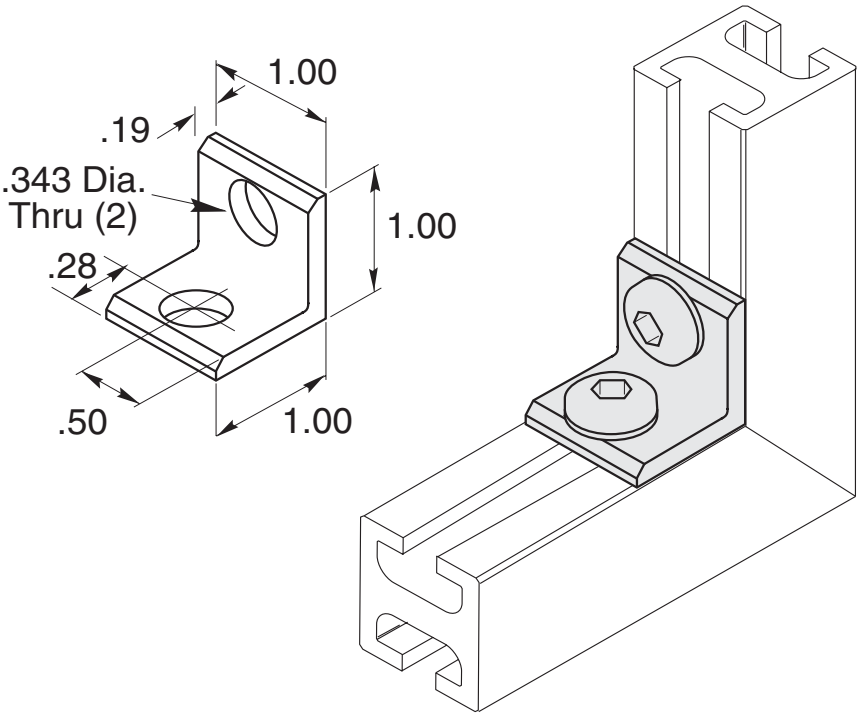
Corner Angle

(used with EX-4, EX-5, EX-52 & EX-54)



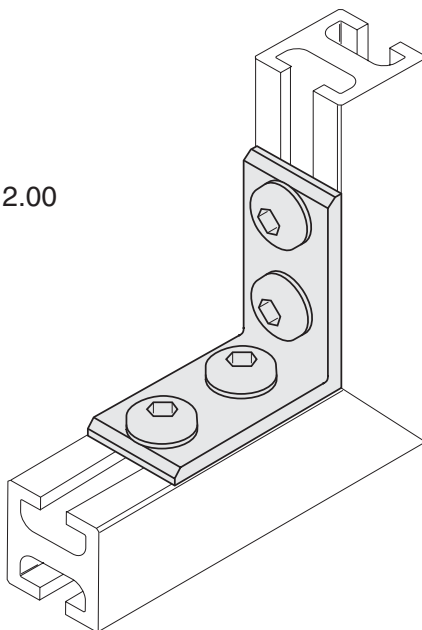
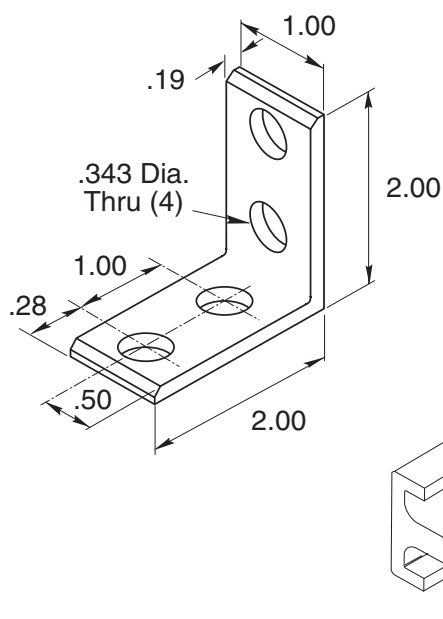
EB-18

5/16" SLOTS



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

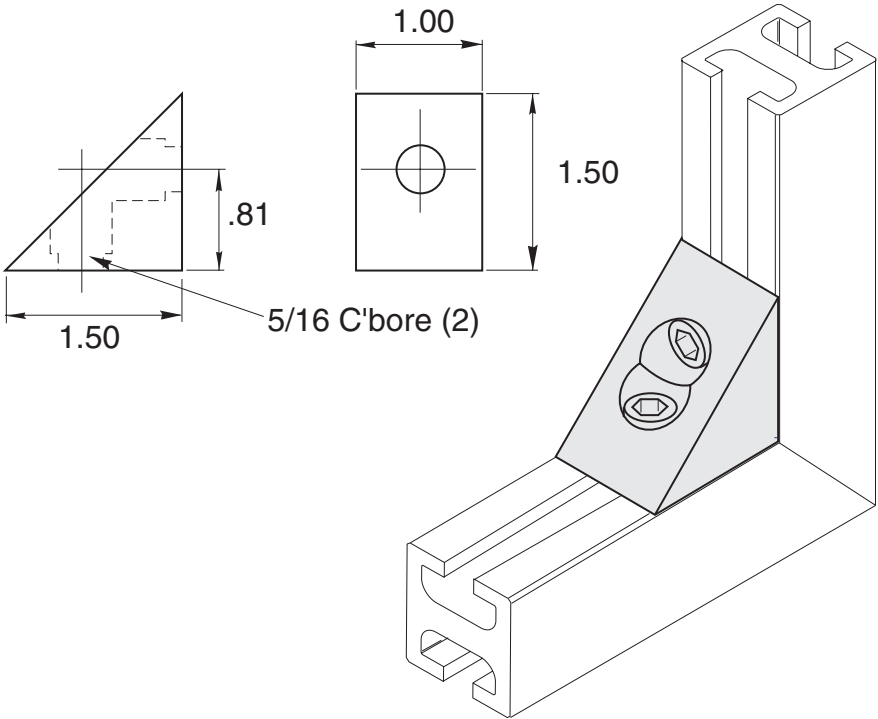
Corner Gusset

(used with EX-4, EX-5, EX-52 & EX-54)



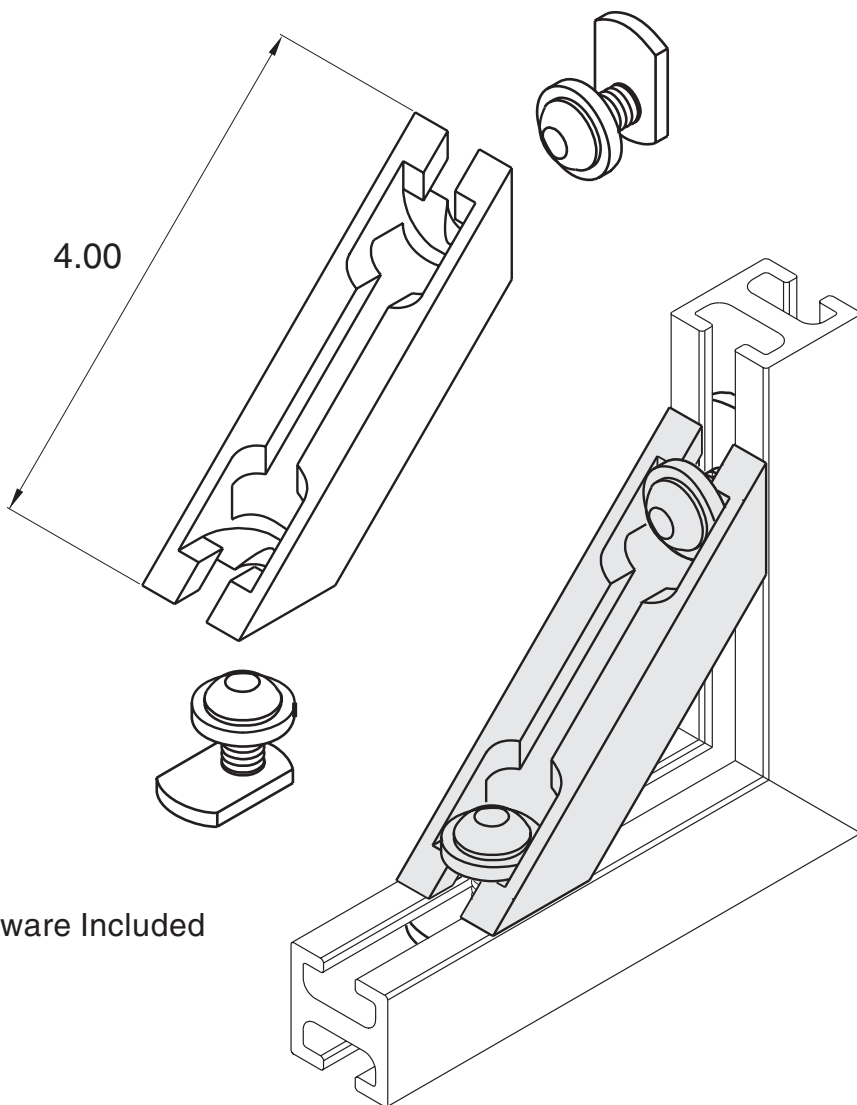
EB-20

5/16" SLOTS



Recommended
Hardware
(2) EF-11-.5 SHCS
(2) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize



Hardware Included

5/16" SLOTS

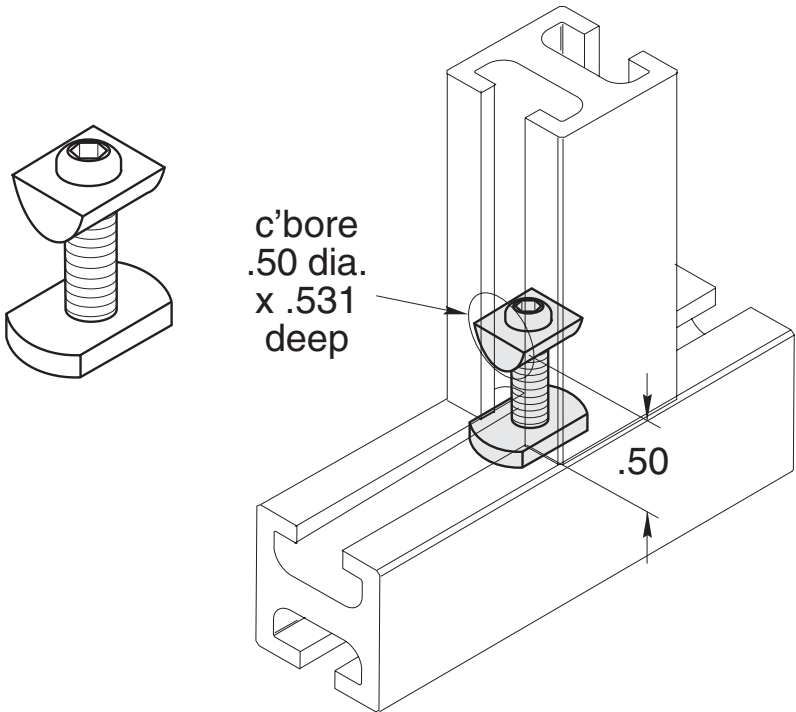
Material - Aluminum (EX-4)
Finish - Clear Anodize

Single Cross Connector



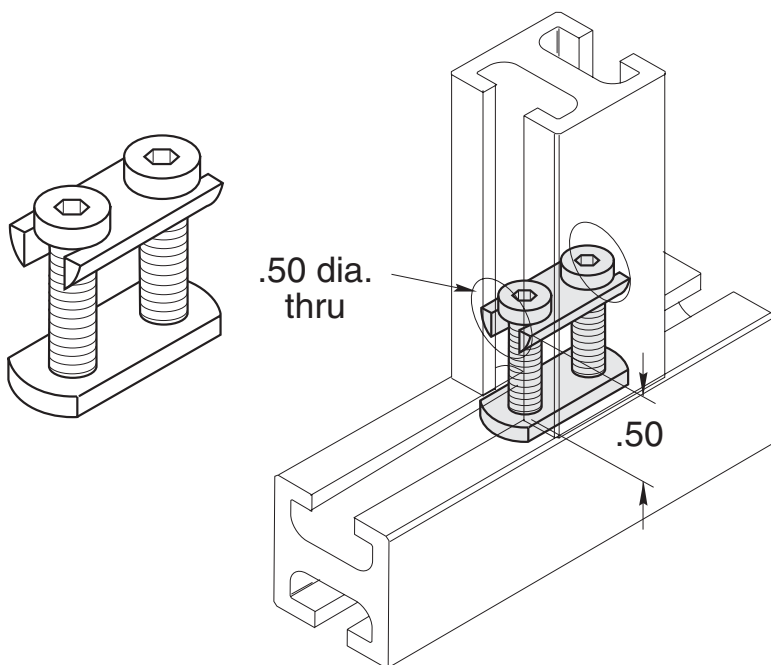
EF-7A For EX-4, EX-5

5/16" SLOTS



Hardware Included

Material - Steel
Finish - Zinc Plated

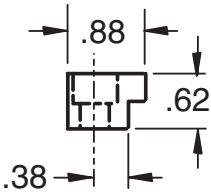
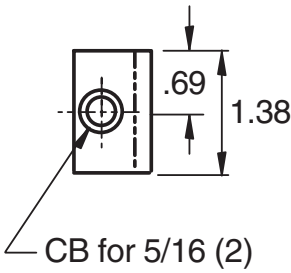


Hardware Included

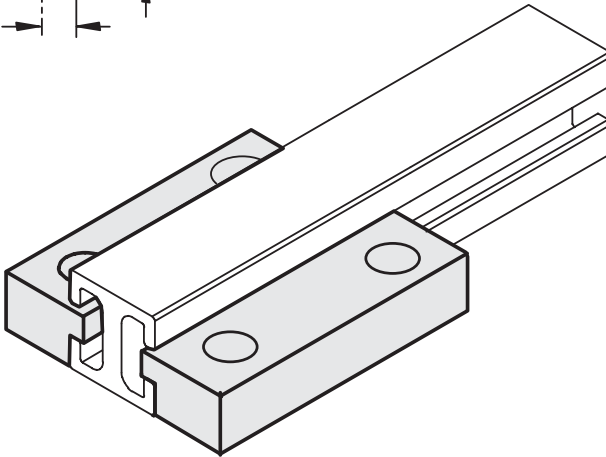
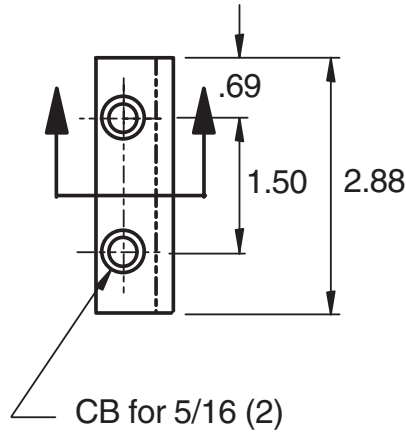
Material - Steel
Finish - Zinc Plated

EF-31

EF-31A



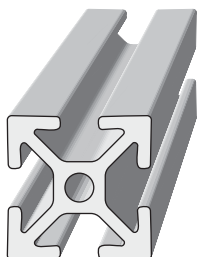
EF-31B



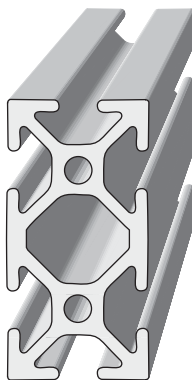
Recommended
Hardware
(2) EF-11-.63 SHCS
(2) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

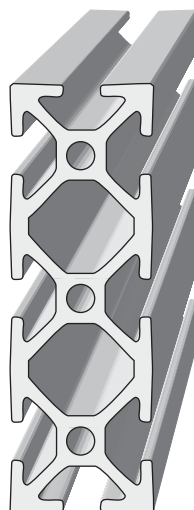
5/16" SLOTS



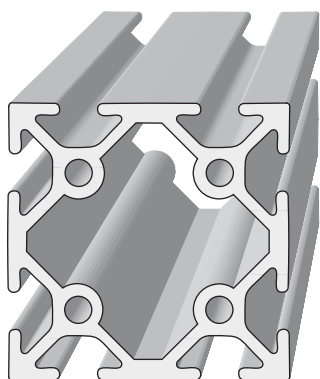
EX-11
1" x 1"



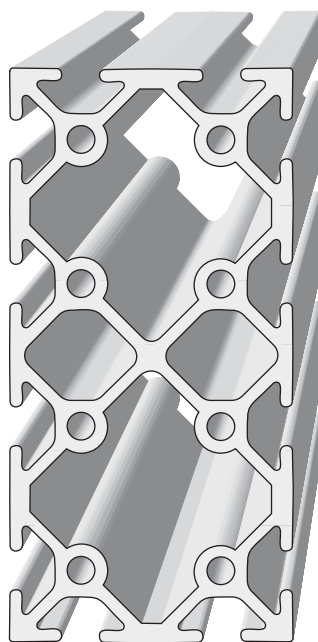
EX-12
1" x 2"



EX-13
1" x 3"



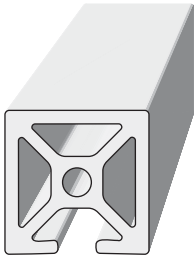
EX-22
2" x 2"



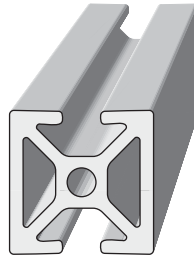
EX-24
2" x 4"

1/4" SLOTS

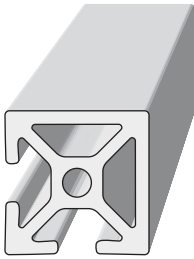
SMOOTH-Series



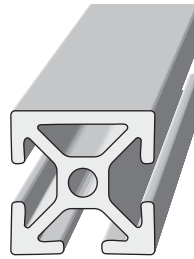
EX-70
1" x 1"



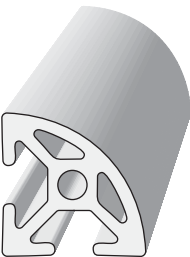
EX-71
1" x 1"



EX-72
1" x 1"



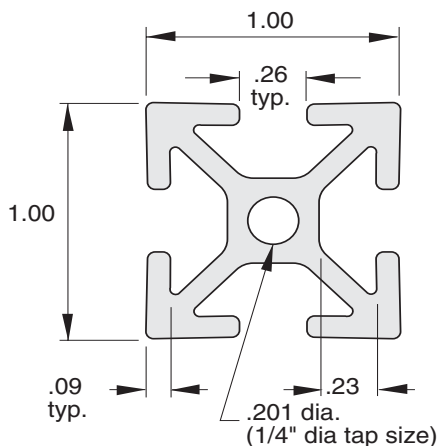
EX-73
1" x 1"



EX-14
1" x 1"

1/4" SLOTS

EX-11

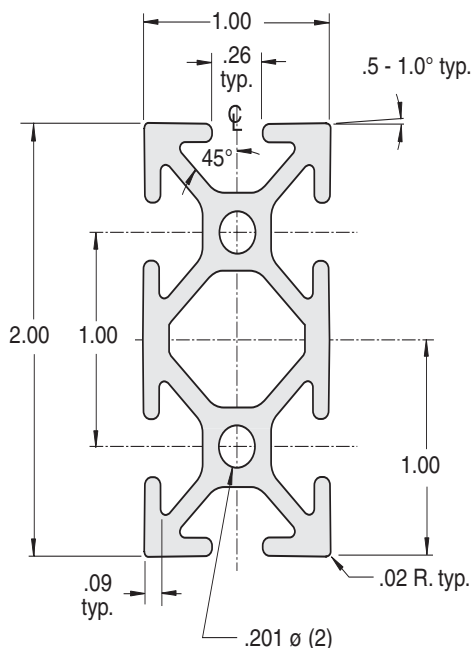


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .530 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

Moment of Inertia in⁴ .049
Section modulus in³ .097

EX-12



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .807 Sq. In.
- Weight/ft = .949 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

Moment of Inertia in⁴
Section modulus in³



.316
.316

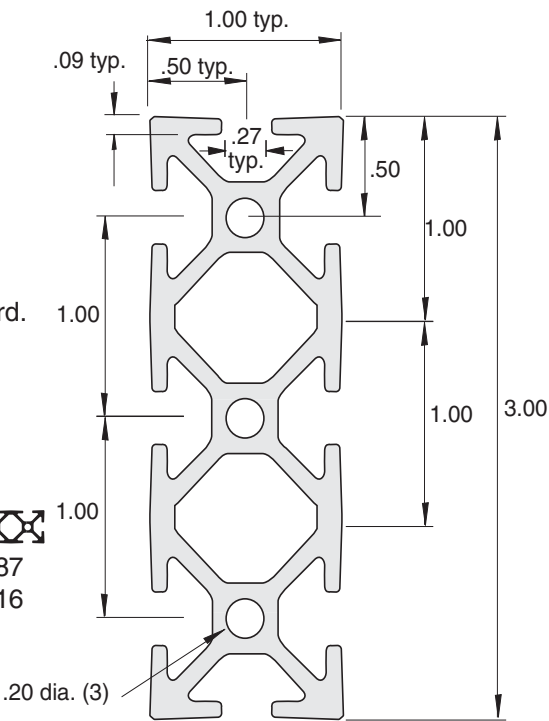


.088
.176

1/4" Wide Slot Profiles

EX-13

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.162 Sq. In.
- Weight/ft = 1.367 lbs.
- 96", 144.75", 193.5" Lengths standard.



Section Properties:

Moment of Inertia in⁴

Section modulus in³



1.376

0.917



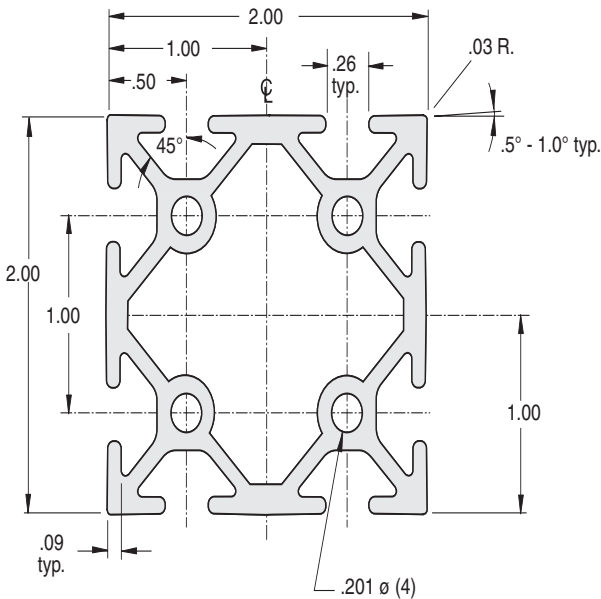
0.387

0.516

EX-22

1/4" SLOTS

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = 1.468 lbs.
- 96", 144.75", 193.5" Lengths standard.



Section Properties:

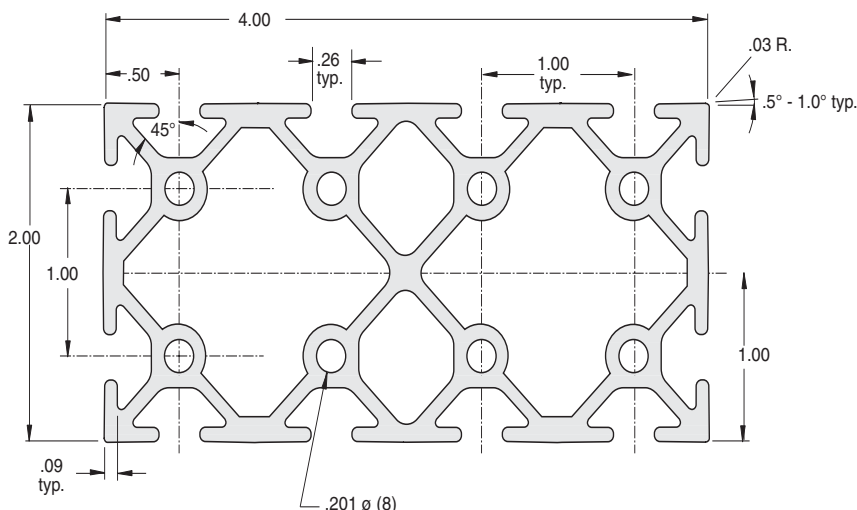
Moment of Inertia in⁴

Section modulus in³

.49

.097

EX-24



- Finish = Clear anodized
- Material = 6063-T6HT Aluminum
- Est. Area = 2.352 Sq. In.
- Weight/ft = 2.766 lbs.
- 96", 144.75", 193.5" Lengths standard.

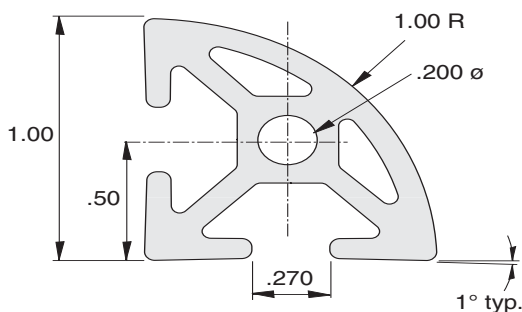
Section Properties:

| | | |
|-----------------------------------|-------|-------|
| 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-T6 Aluminum
- Est. Area = .438 Sq. In.

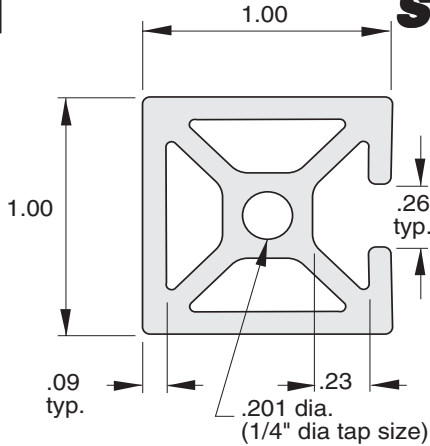
- Weight/ft = .515 lbs.
- 96", 193.5" Lengths standard.

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", 144.75", 193.5" Lengths standard.

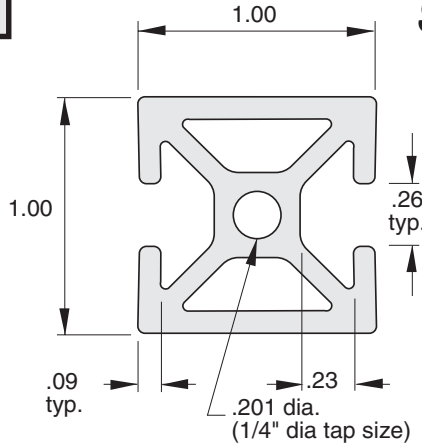


Section Properties:

| | | |
|------------------------------------|------|------|
| Moment of Intertia 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", 144.75", 193.5" Lengths standard.

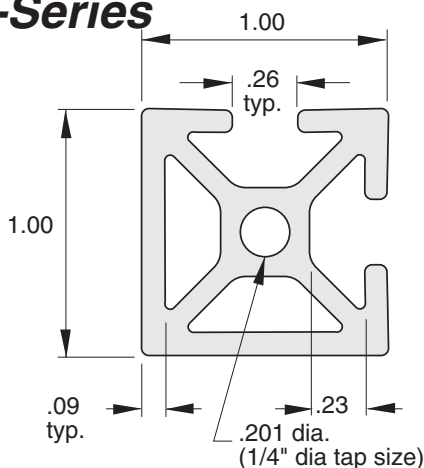


Section Properties:

| | | |
|------------------------------------|------|------|
| Moment of Intertia in ⁴ | .057 | .046 |
| Section modulus in ³ | .114 | .093 |

SMOOTH-Series

EX-72



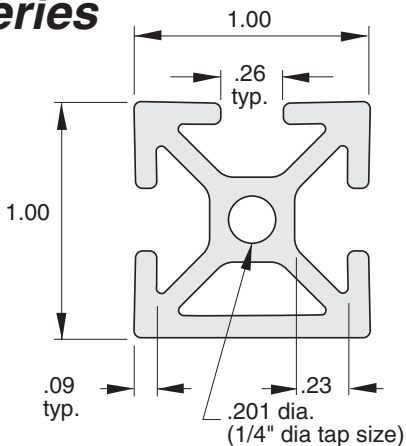
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .546 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

| | |
|------------------------------------|------|
| Moment of Intertia 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", 144.75", 193.5" Lengths

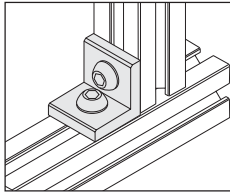
standard.

Section Properties:

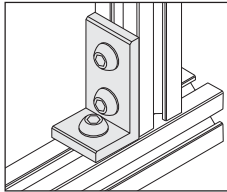
| | | |
|------------------------------------|------|------|
| Moment of Intertia in ⁴ | .051 | .046 |
| Section modulus in ³ | .099 | .092 |



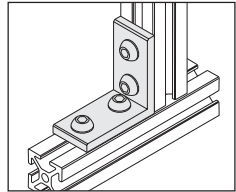
Section F.1 Corner Angle Brackets



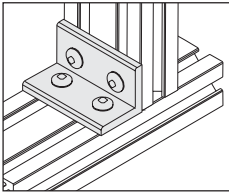
page 322



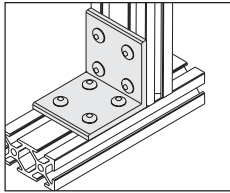
page 323



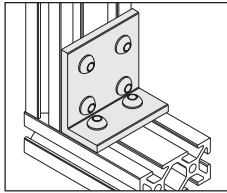
page 324



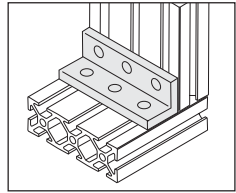
page 325



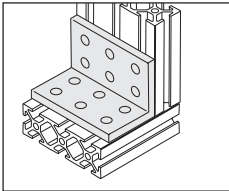
page 326



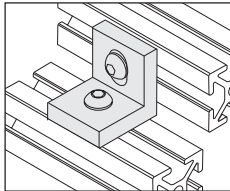
page 327



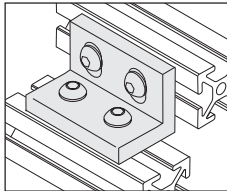
page 328



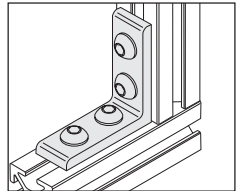
page 329



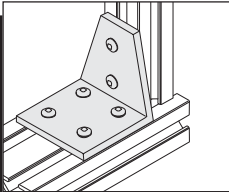
page 330



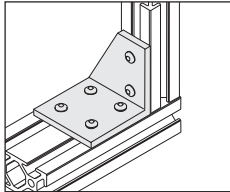
page 331



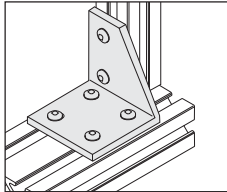
page 332



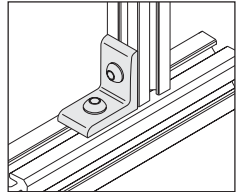
page 333



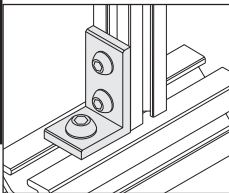
page 334



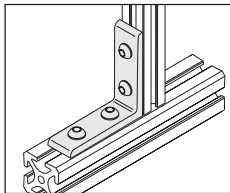
page 335



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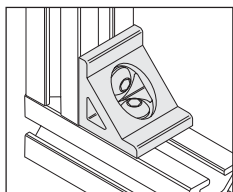
page 337



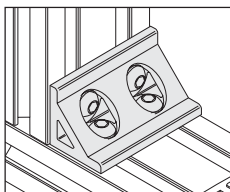
page 338

Section F.2

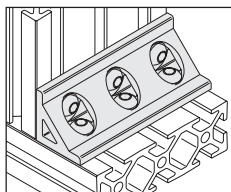
Gusseted Corner Angle Brackets



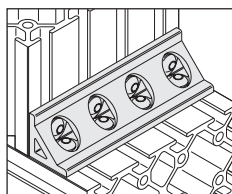
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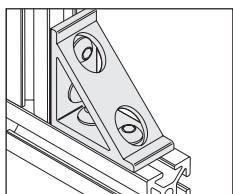
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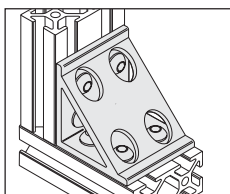
page 341



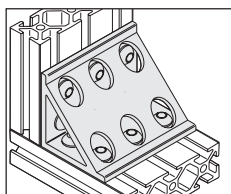
page 342



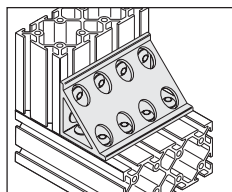
page 343



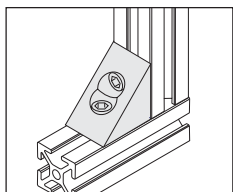
page 344



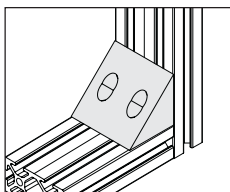
page 345



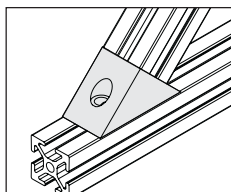
page 346



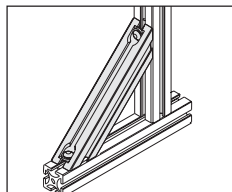
page 347



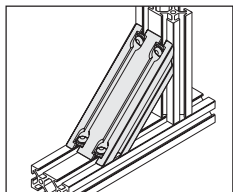
page 348



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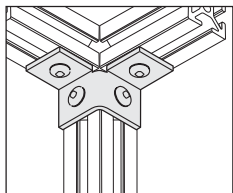
page 350



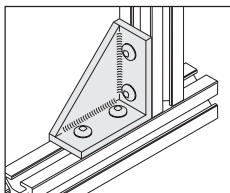
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Section F.3

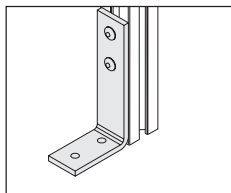
Steel Corner Angle Brackets



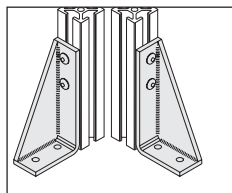
page 352



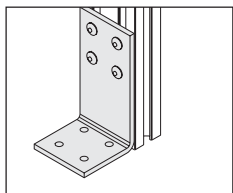
page 353



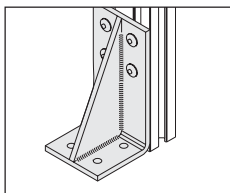
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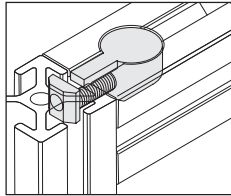


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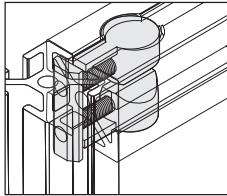


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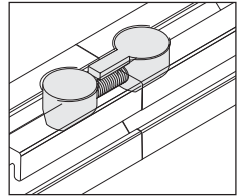
Section F.4 Internal & Adjustable Corner Brackets



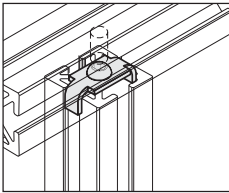
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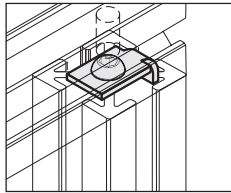
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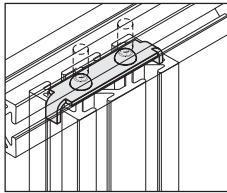
page 360



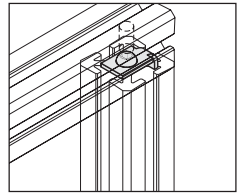
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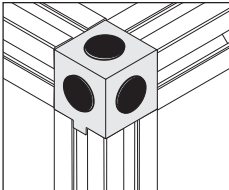
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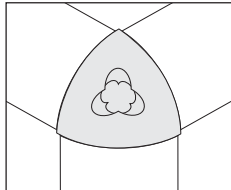
page 362



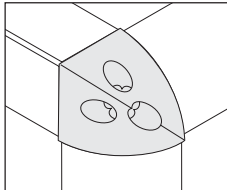
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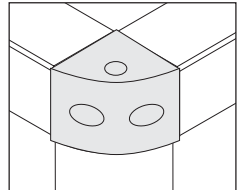
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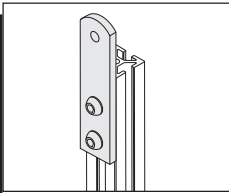
page 365



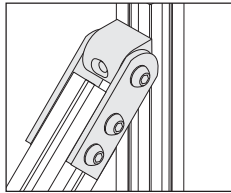
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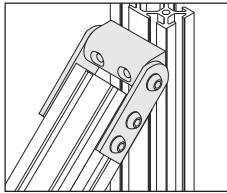
page 367



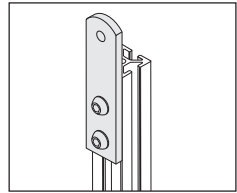
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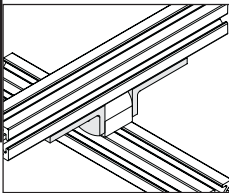
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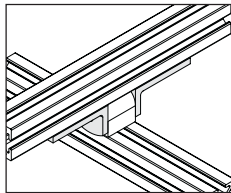
page 370



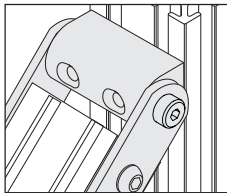
page 371



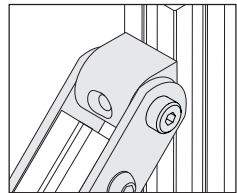
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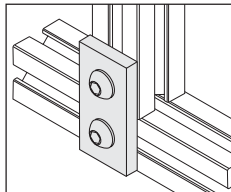


page 374

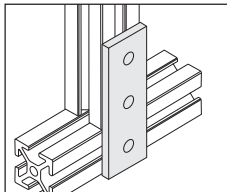


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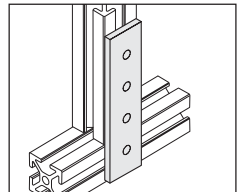
Section F.5 Joining Plates



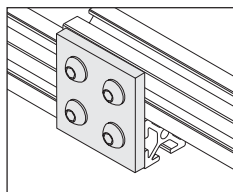
page 376



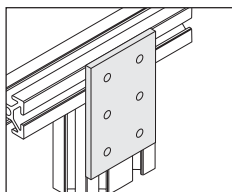
page 377



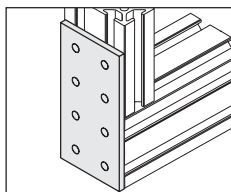
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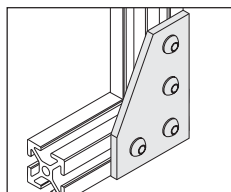
page 379



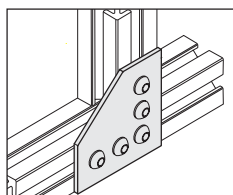
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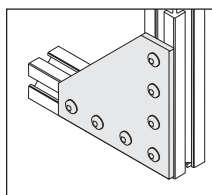
page 381



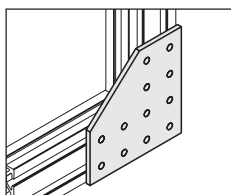
page 382



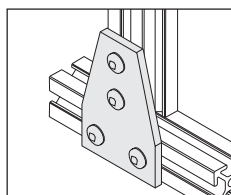
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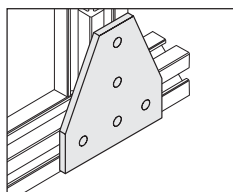
page 384



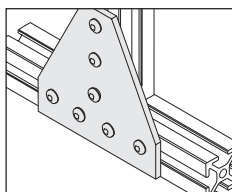
page 385



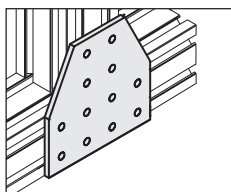
page 386



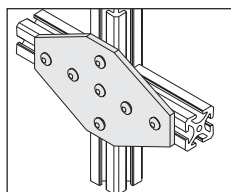
page 387



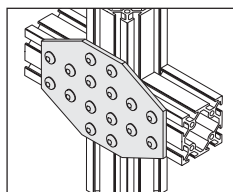
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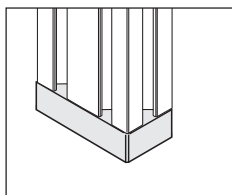
page 390



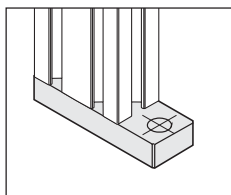
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Section F.6

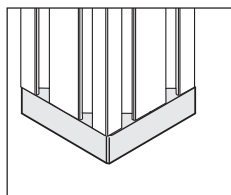
Floor Mounts, Casters and Adjustable Feet



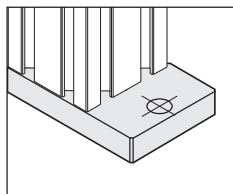
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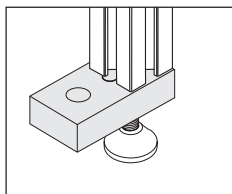
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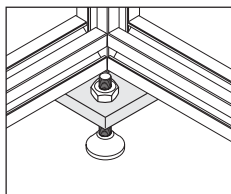
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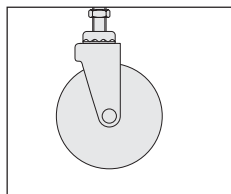
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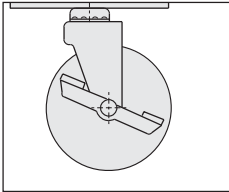


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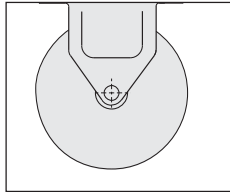


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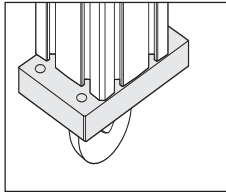
1/4" Wide Slot Connectors



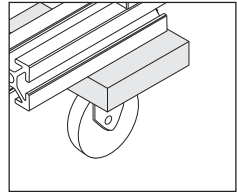
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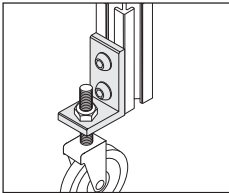
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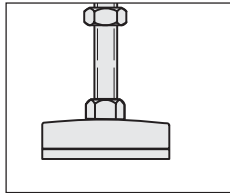
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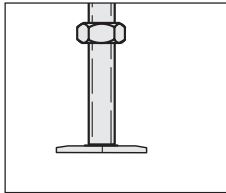
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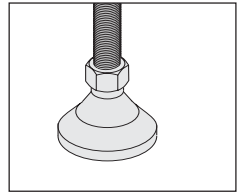
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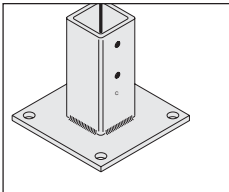
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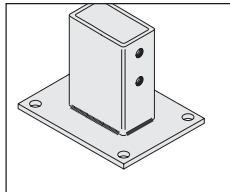
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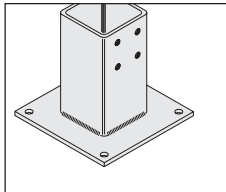
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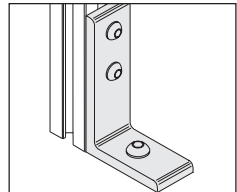
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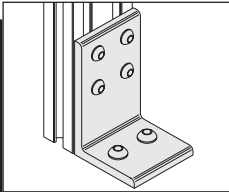
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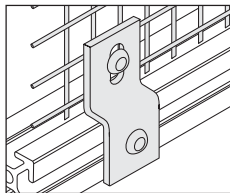
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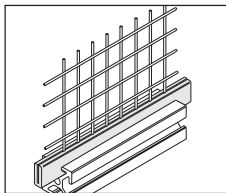
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1/4" SLOTS

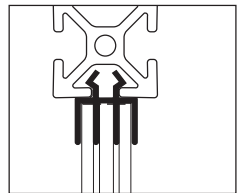
Section F.7 Panels, Doors and Hardware



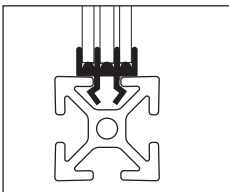
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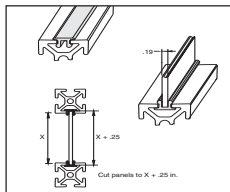
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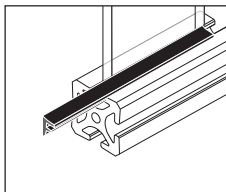
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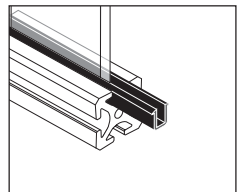
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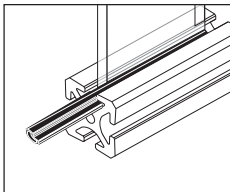
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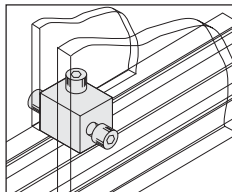
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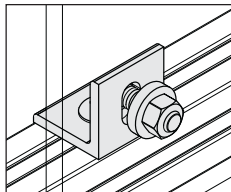
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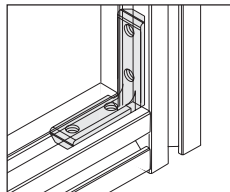
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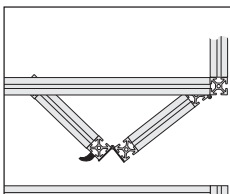
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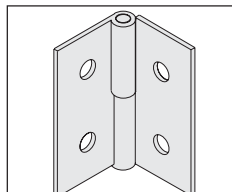
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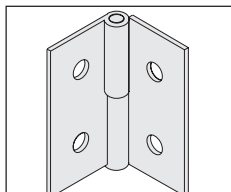
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Section F.8

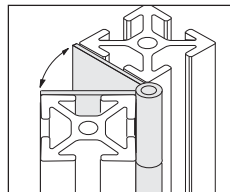
Hinges, Handles and Latches



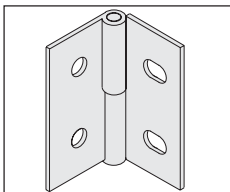
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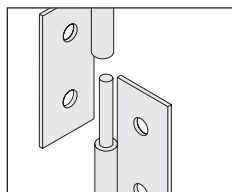
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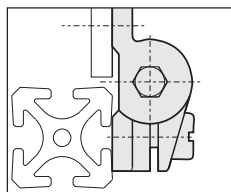
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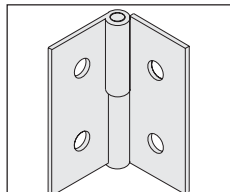
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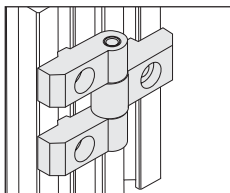
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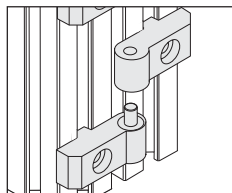
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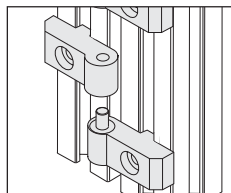
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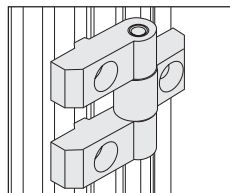
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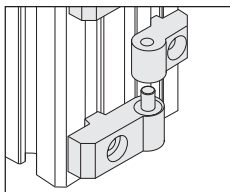
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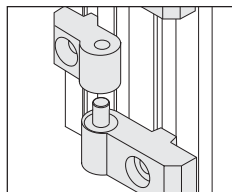
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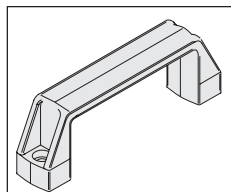
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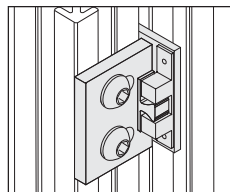
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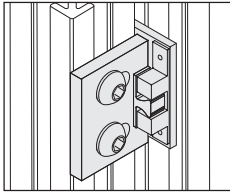
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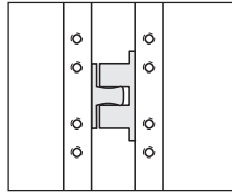
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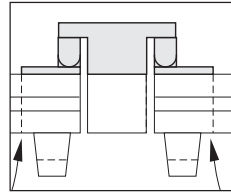
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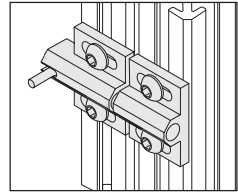
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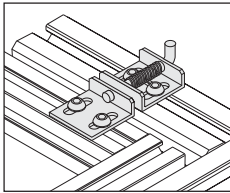
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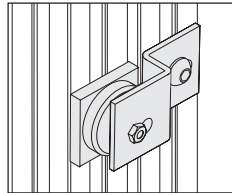
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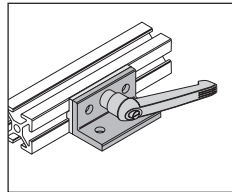
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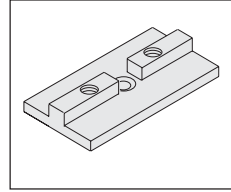
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Section F.9

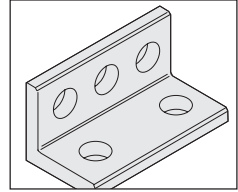
Sliding Components and Bearings



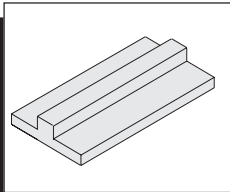
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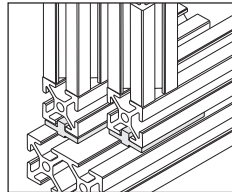
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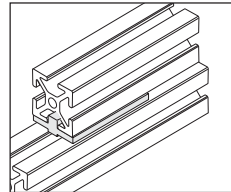
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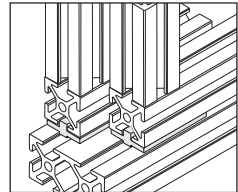
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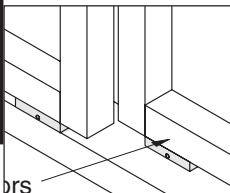
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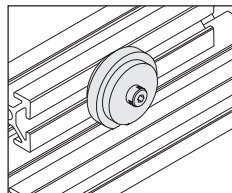
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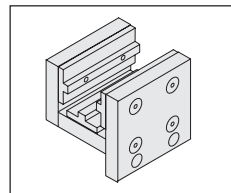
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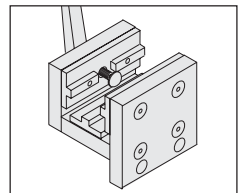
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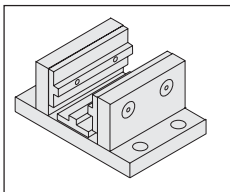
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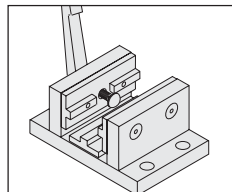
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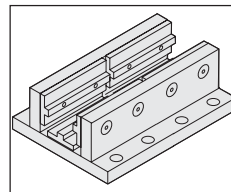
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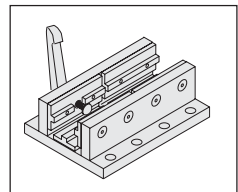
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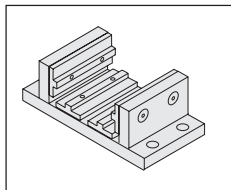
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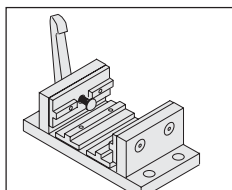
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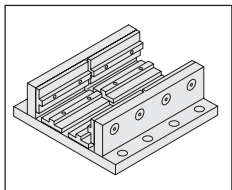
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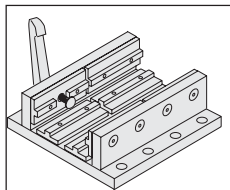
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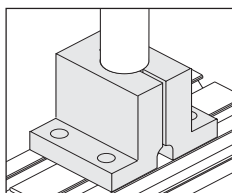


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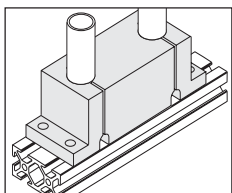


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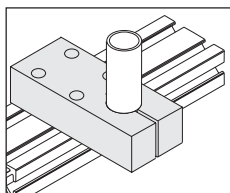
Section E.10 Stanchions



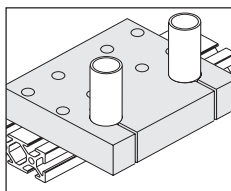
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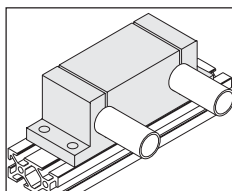
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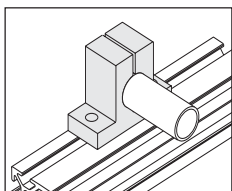
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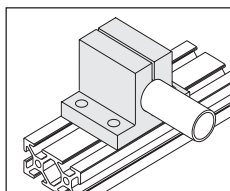
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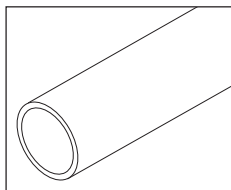
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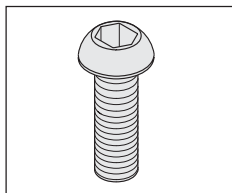


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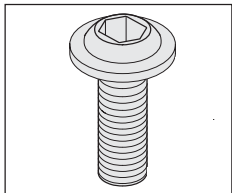


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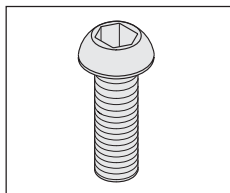
Section E.10 Screws, Nuts & Fasteners



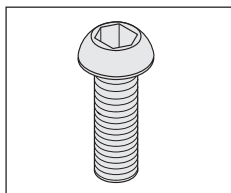
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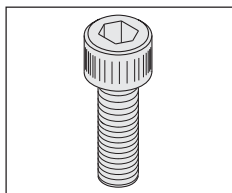
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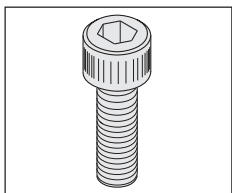
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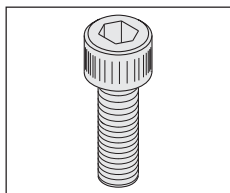
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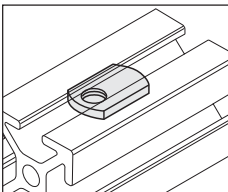


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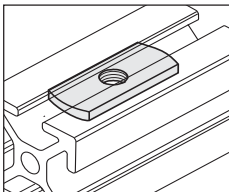


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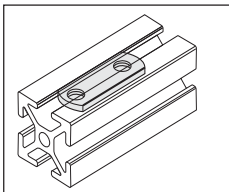
1/4" Wide Slot Connectors



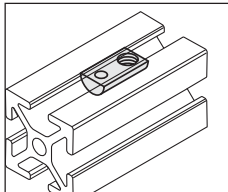
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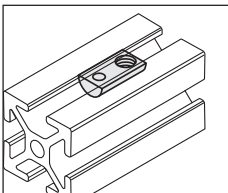
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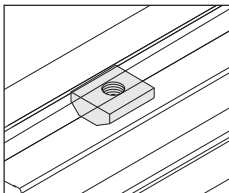
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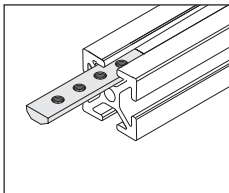
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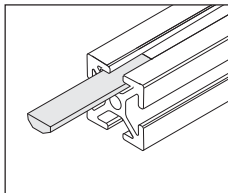
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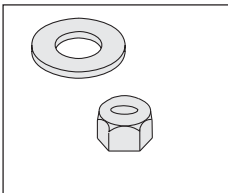
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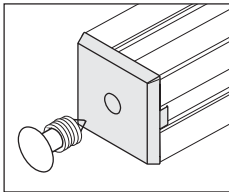


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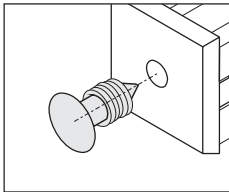


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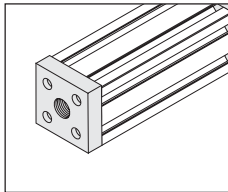
Section E.11
Miscellaneous
Components



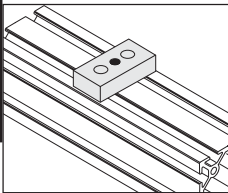
page 484



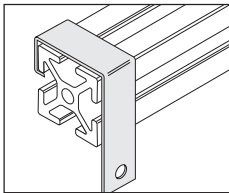
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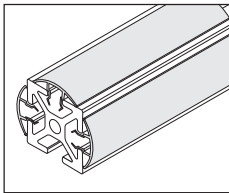
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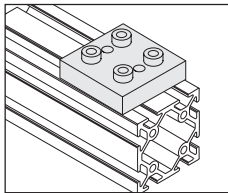
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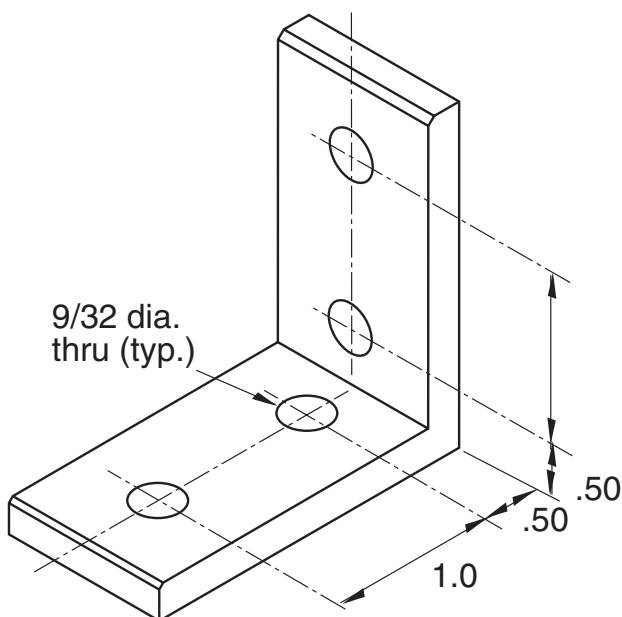


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1/4" SLOTS



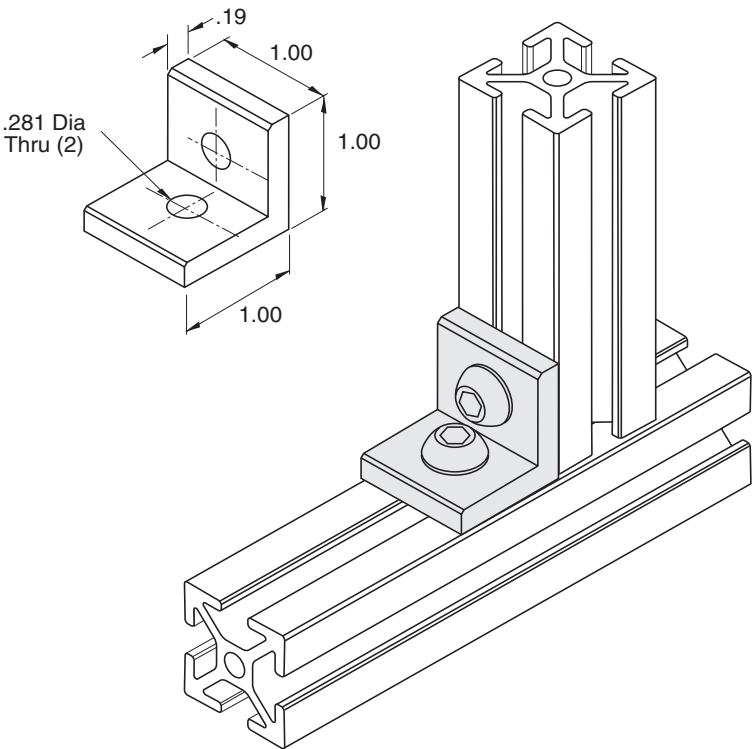
Mounting brackets and plates are made from clear anodized aluminum unless specified.

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.

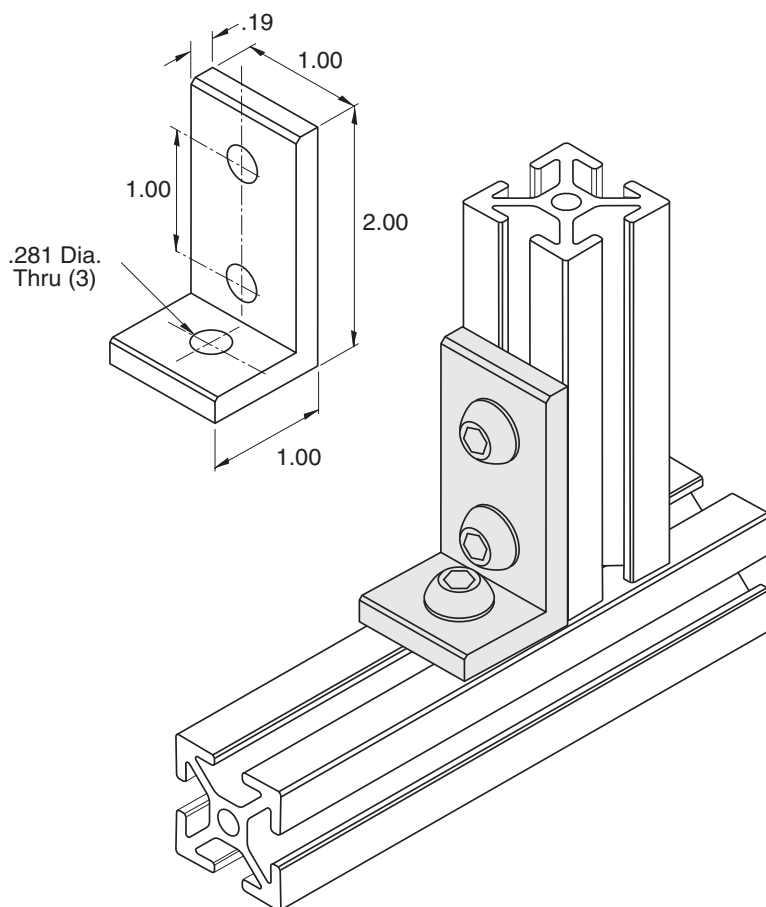
11-1



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

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

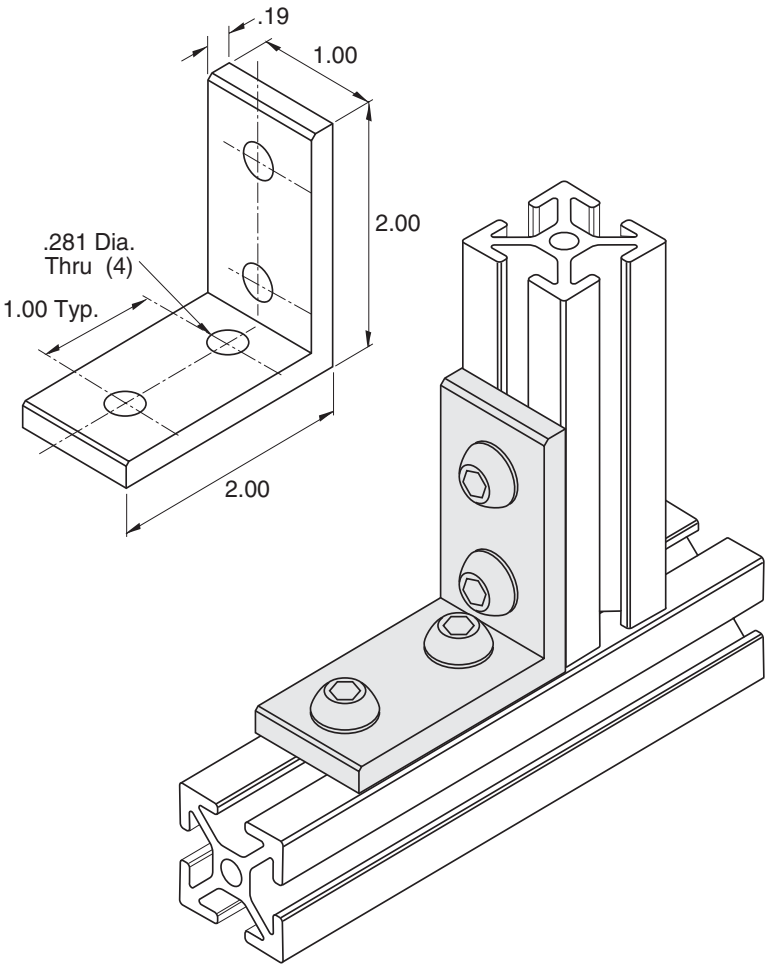


Recommended Hardware
 (3) 11-231 BHCS
 (3) 11-210 T-nut

Material - Aluminum
 Finish - Clear Anodize

1/4" SLOTS

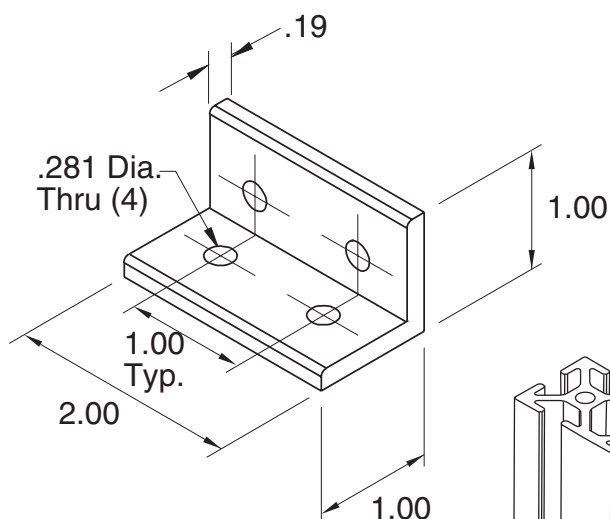
11-3



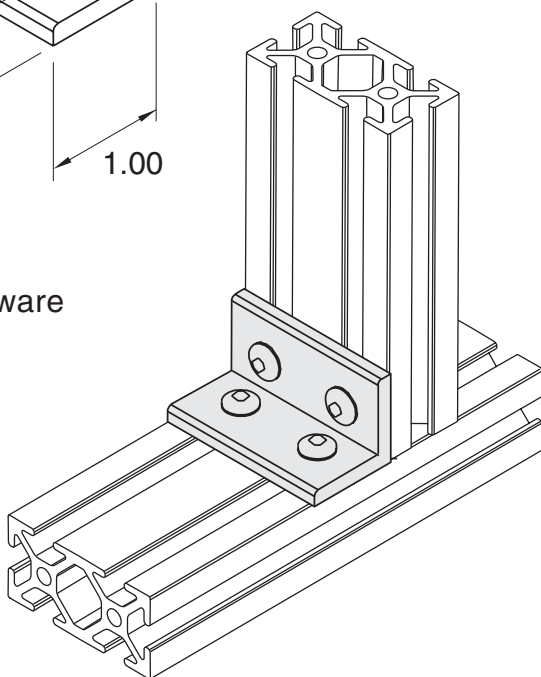
Recommended Hardware
(4) 11-231 BHCS
(4) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



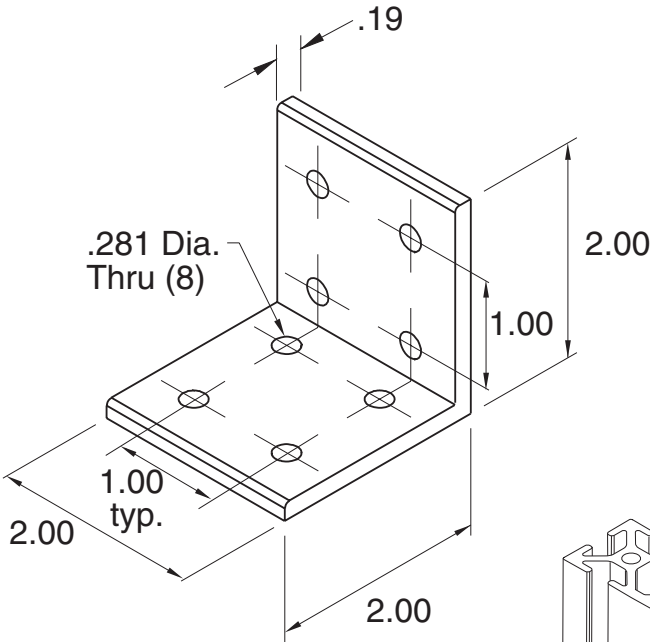
Recommended Hardware
 (4) 11-231 BHCS
 (4) 11-210 T-nut



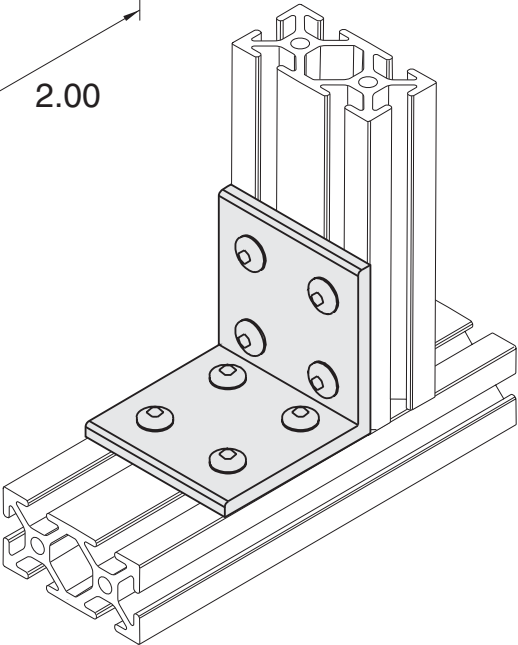
1/4" SLOTS

Material - Aluminum
 Finish - Clear Anodize

11-6

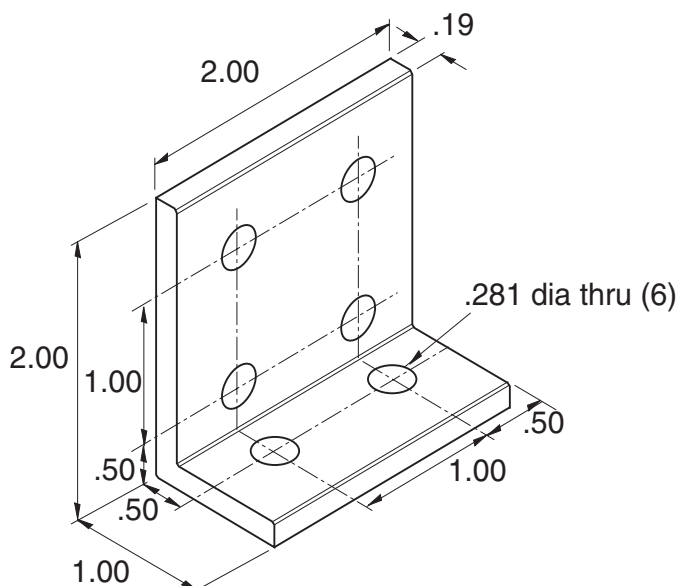


Recommended Hardware
(8) 11-231 BHCS
(8) 11-210 T-nut

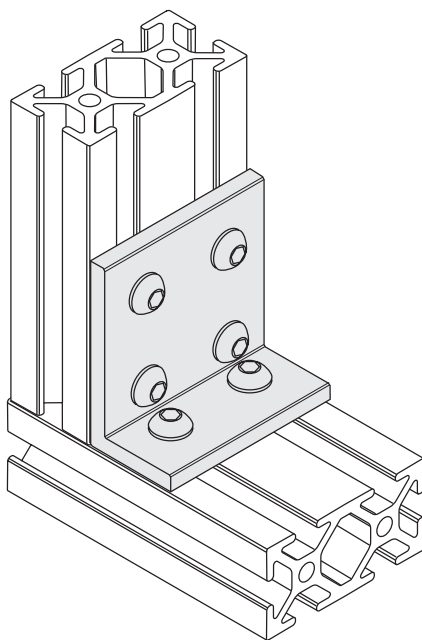


Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



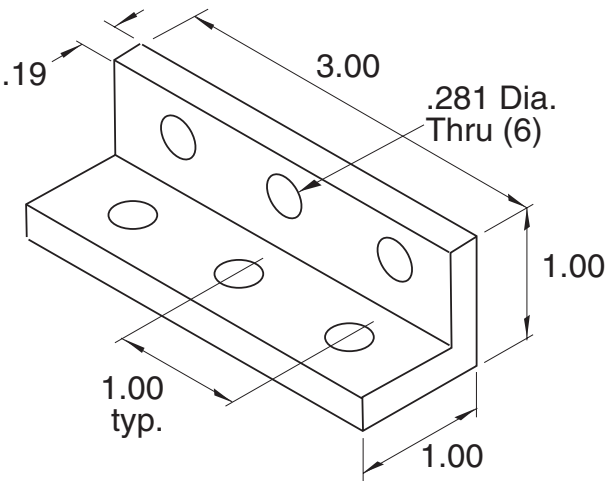
Recommended Hardware
 (6) 11-231 BHCS
 (6) 11-210 T-nut



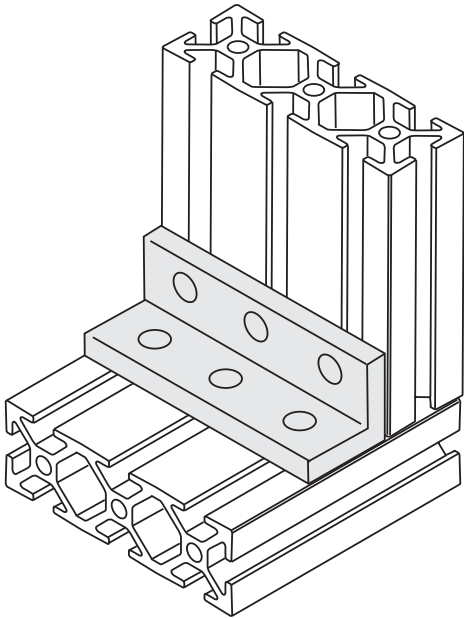
1/4" SLOTS

Material - Aluminum
 Finish - Clear Anodize

11-13

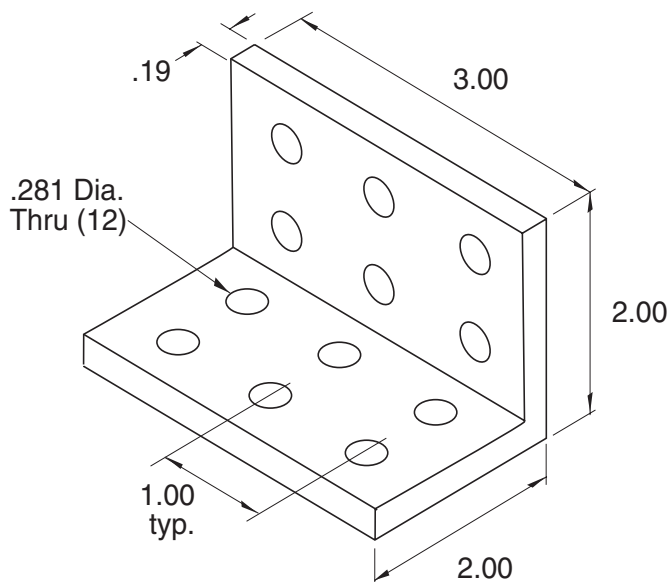


Recommended
Hardware
(6) 11-231 BHCS
(6) 11-210 T-nut

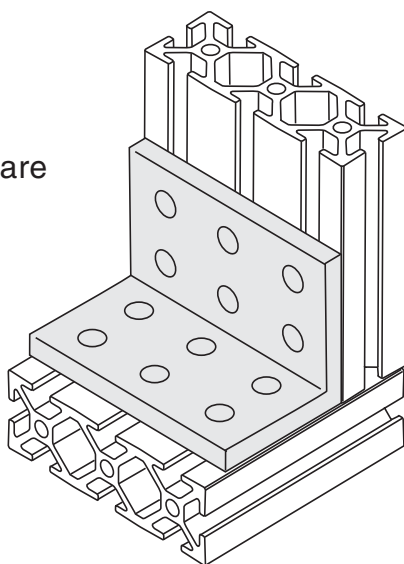


Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



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



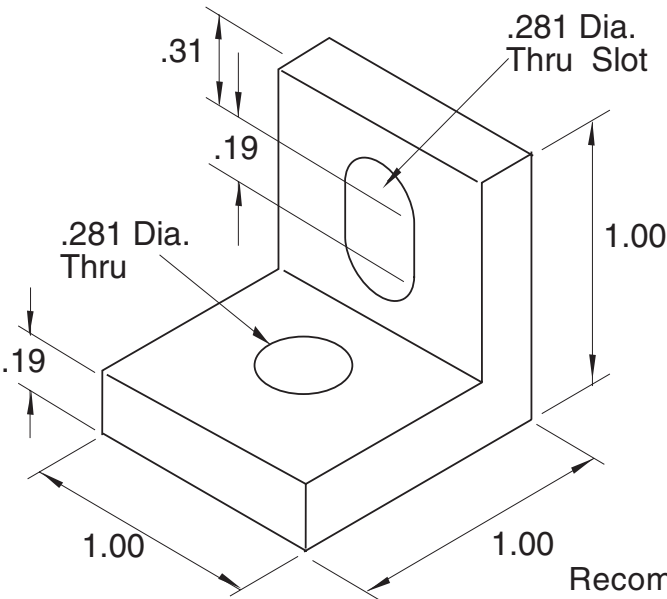
1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

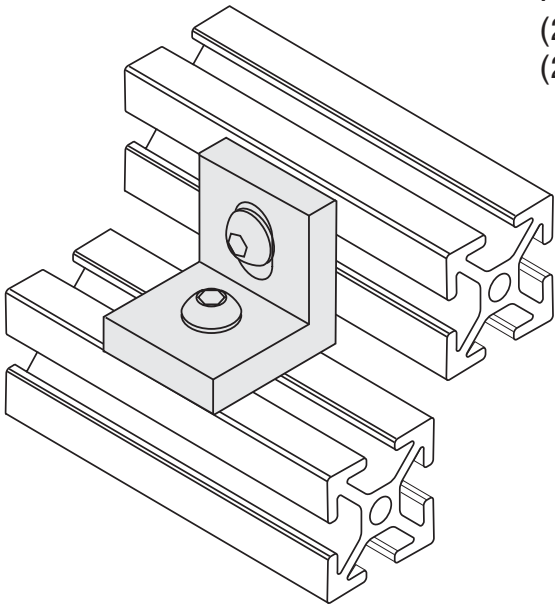
Slotted Corner Angle



11-15

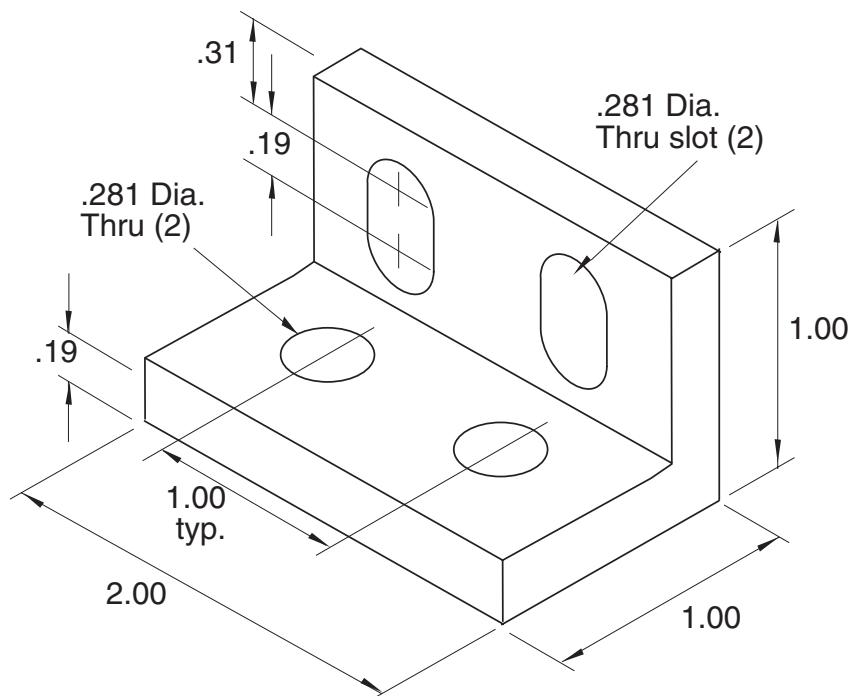


Recommended
Hardware
(2) 11-231 BHCS
(2) 11-210 T-nut

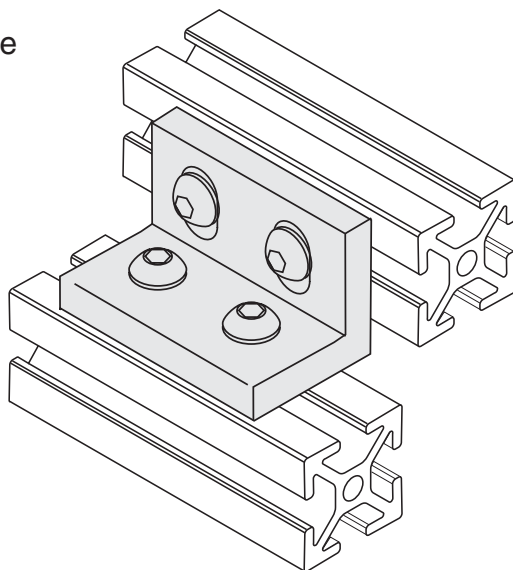


Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



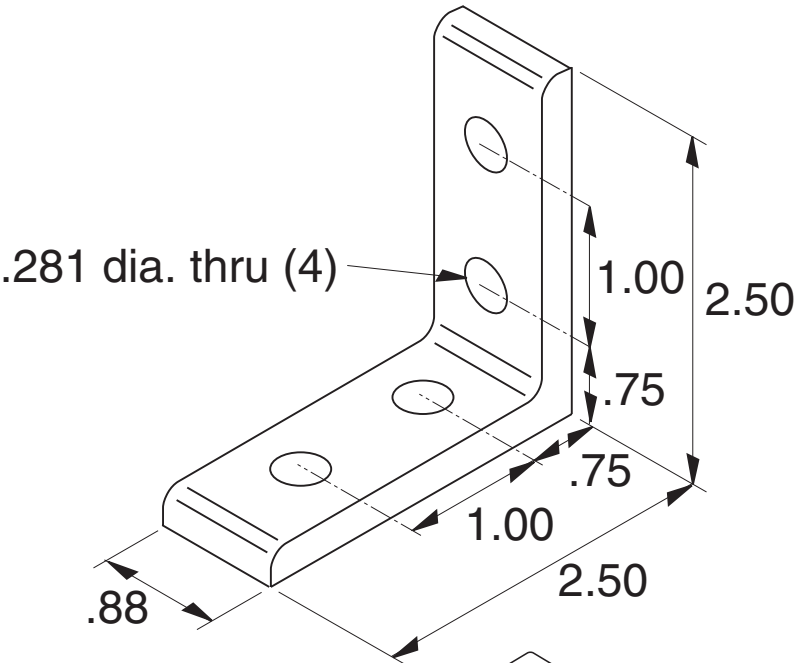
Recommended Hardware
 (4) 11-231 BHCS
 (4) 11-210 T-nut



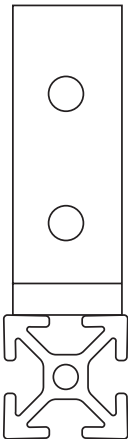
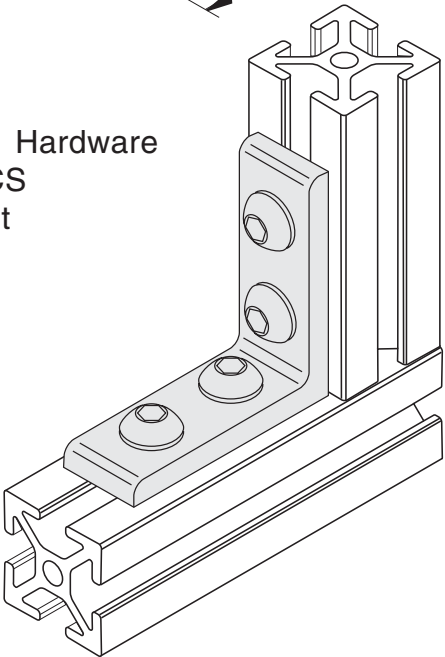
Material - Aluminum
 Finish - Clear Anodize

1/4" SLOTS

11-81

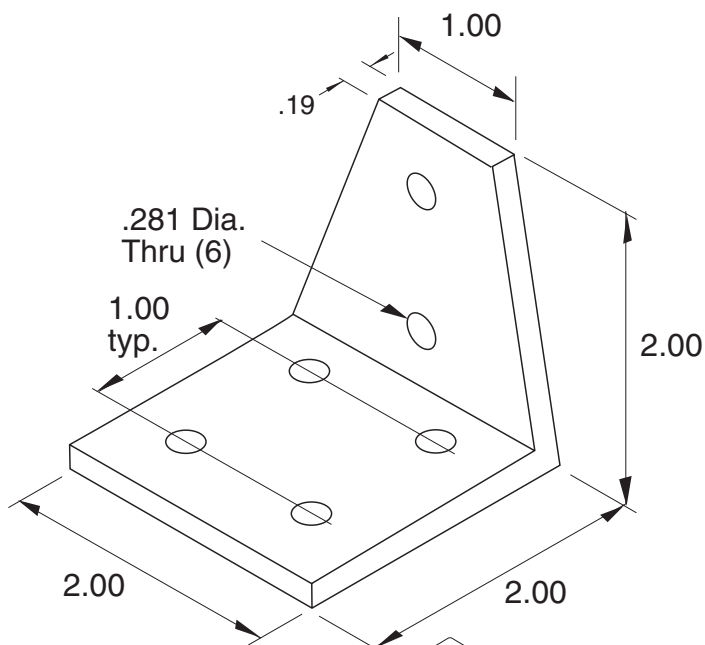


Recommended Hardware
(4) 11-231 BHCS
(4) 11-210 T-nut



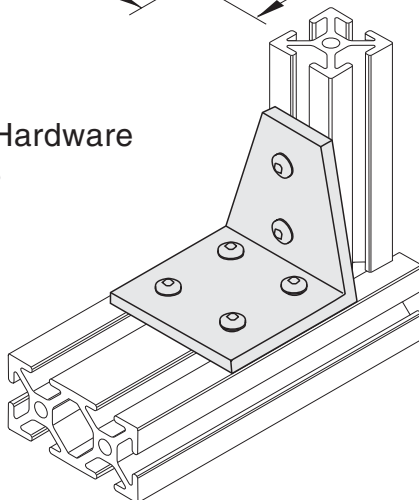
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS


Recommended Hardware

(6) 11-231 BHCS

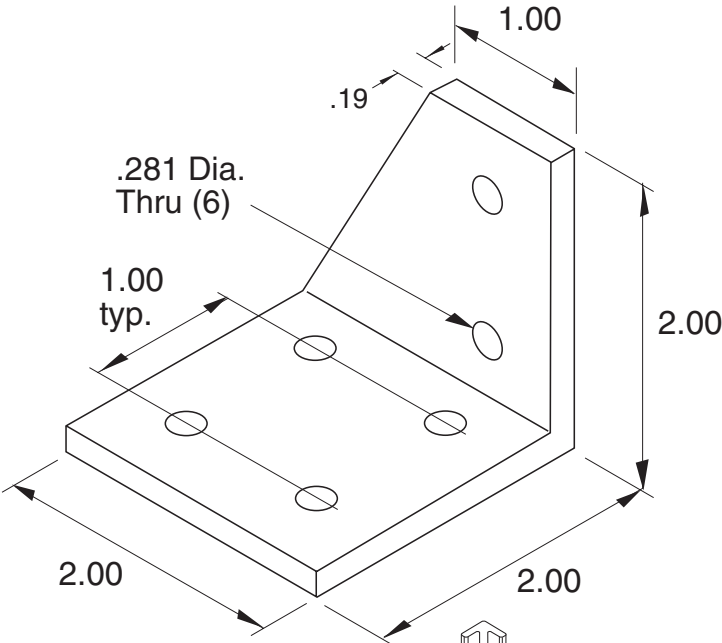
(6) 11-210 T-nut



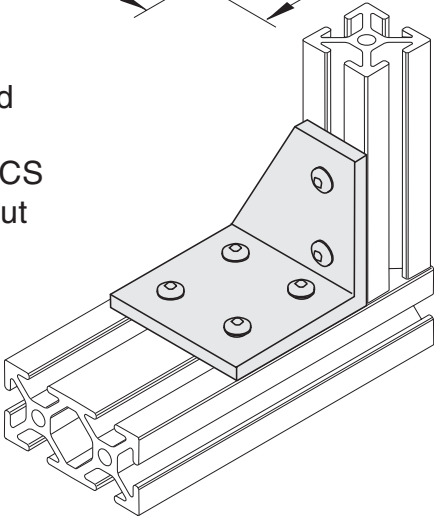
1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

11-19

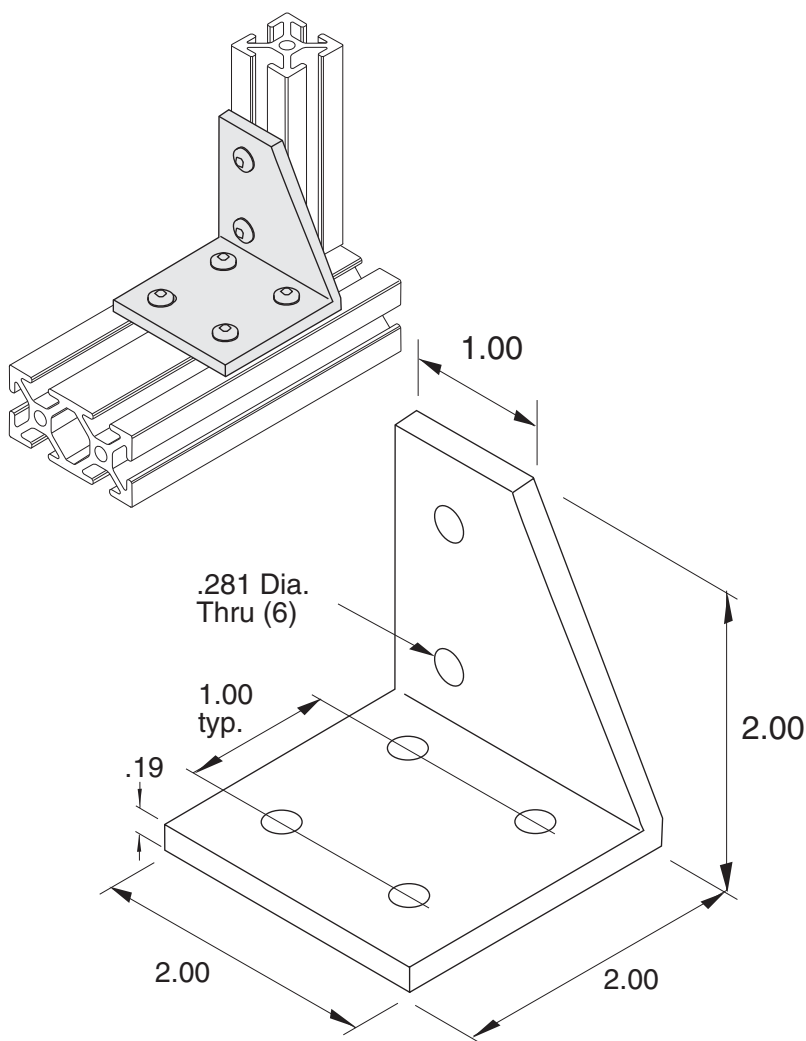


Recommended
Hardware
(6) 11-231 BHCS
(6) 11-210 T-nut



Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

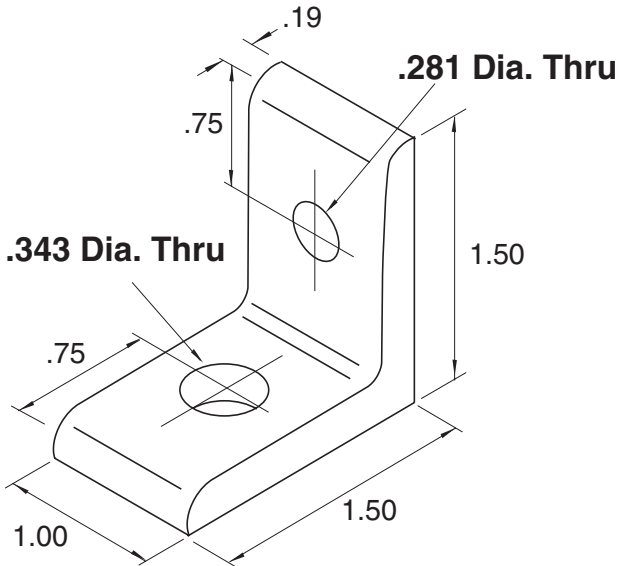


Recommended
Hardware

(6) 11-231 BHCS

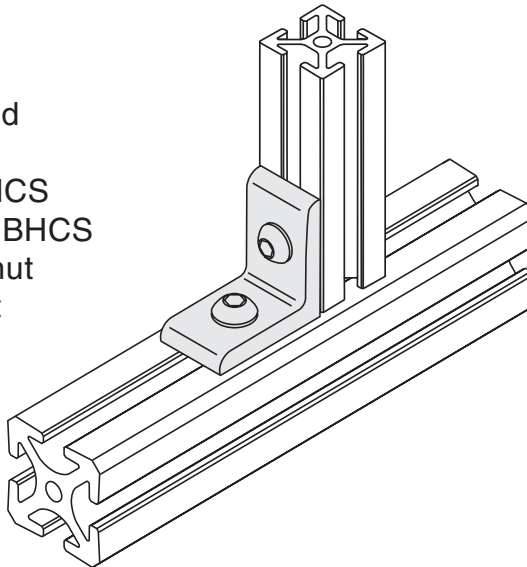
(6) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

11-53**.33 wide slot to .27 wide slot**

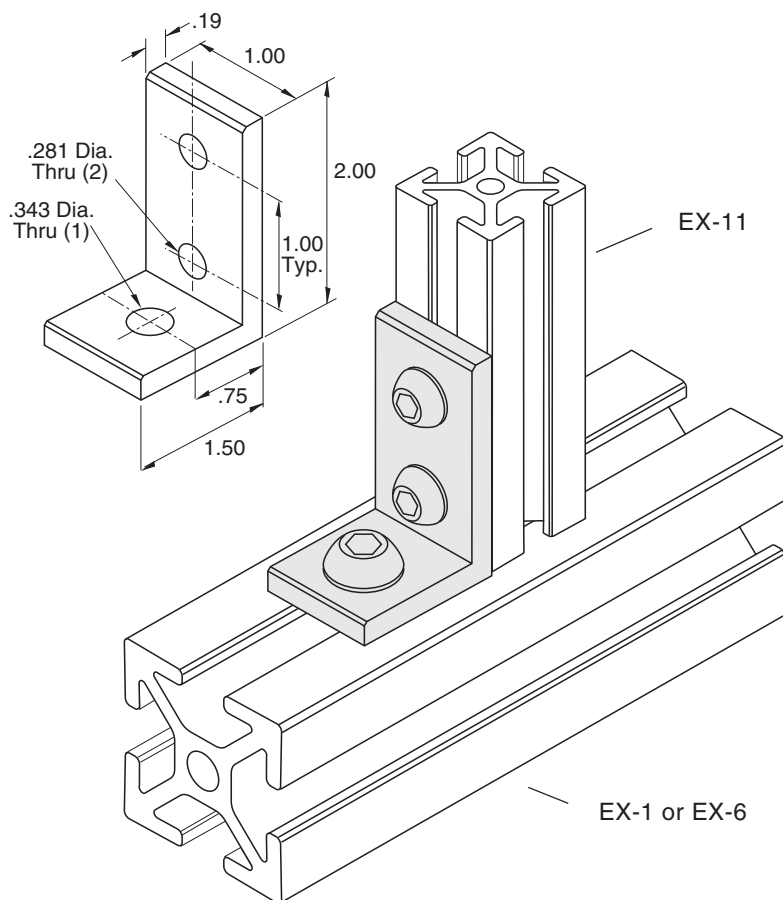
Recommended Hardware

- (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

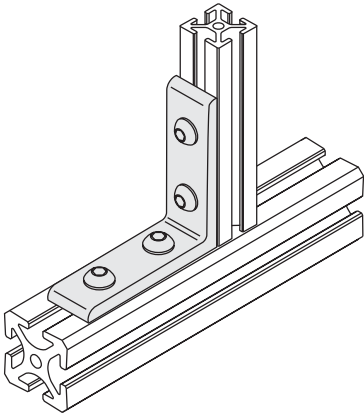
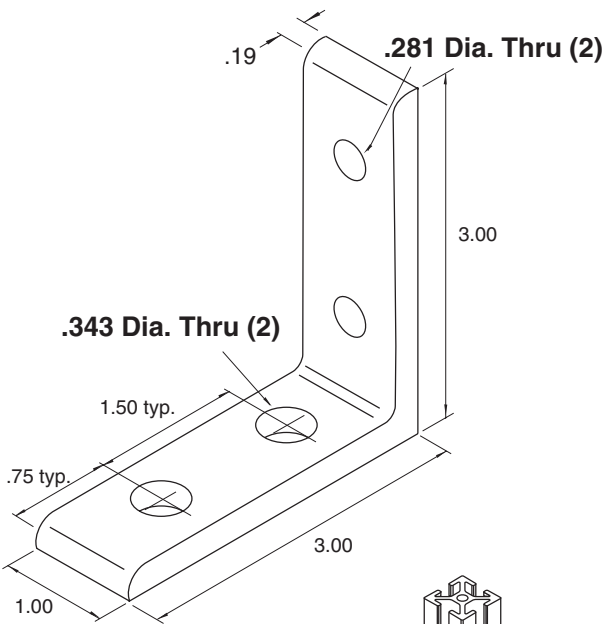


Recommended
Hardware
(2) 11-231 BHCS
(2) 11-210 T-nut
(1) EF-12-.63 BHCS
(1) EF-2 T-nut

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

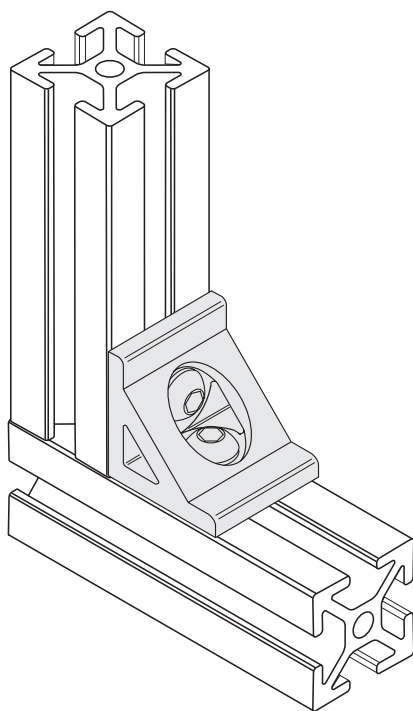
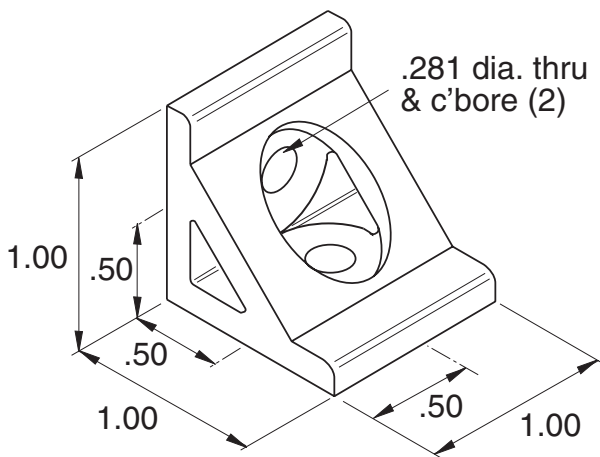
11-54 .33 wide slot to .27 wide slot



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

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

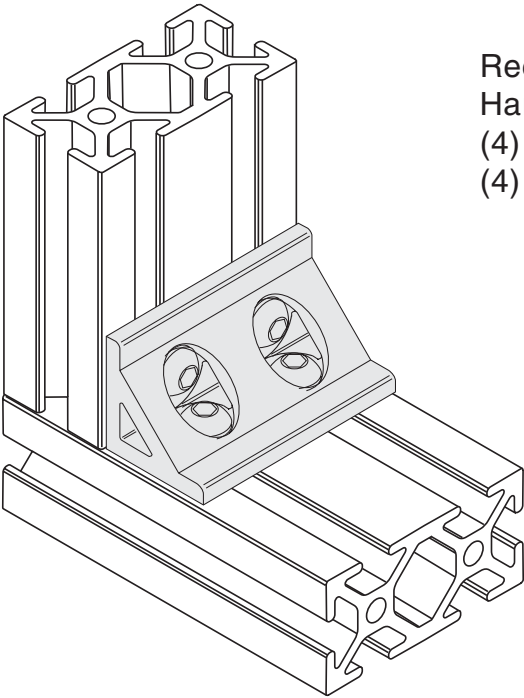
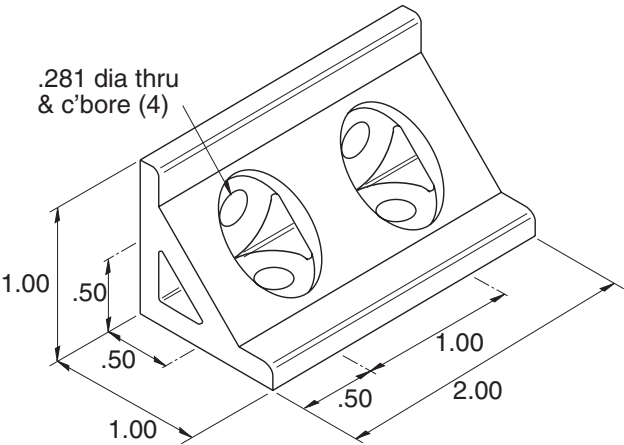


Recommended
Hardware
(2) 11-231 BHCS
(2) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

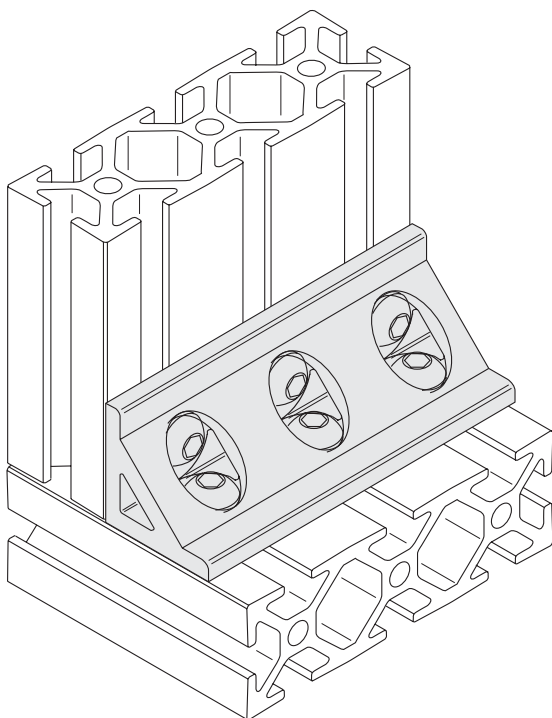
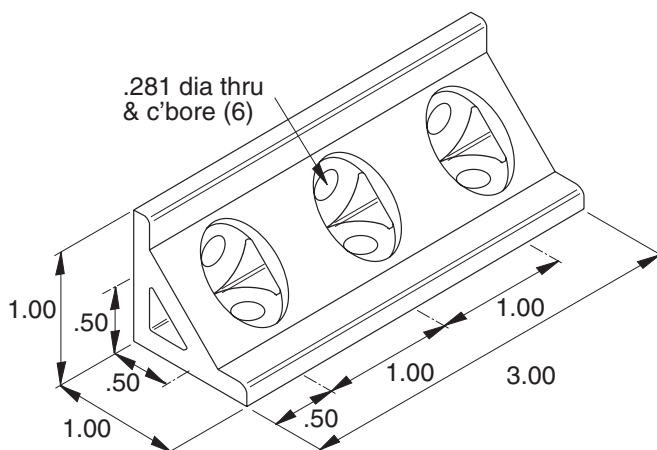
1/4" SLOTS

11-161



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

Material - Aluminum
Finish - Clear Anodize

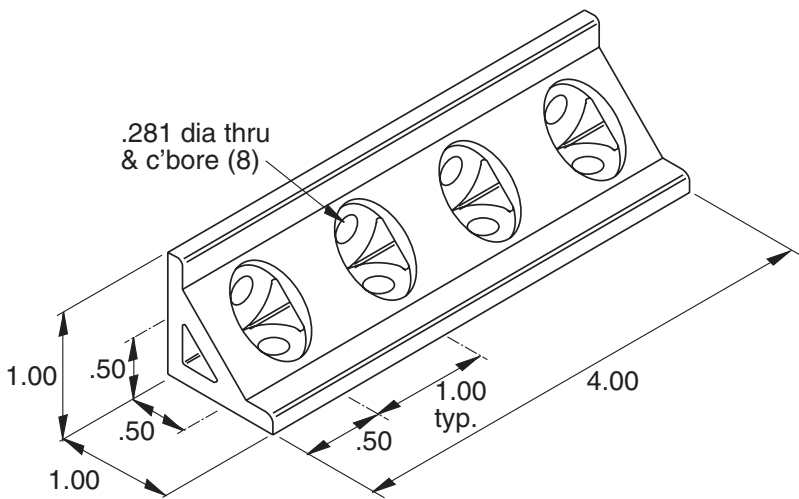


Recommended
Hardware
(6) 11-231 BHCS
(6) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

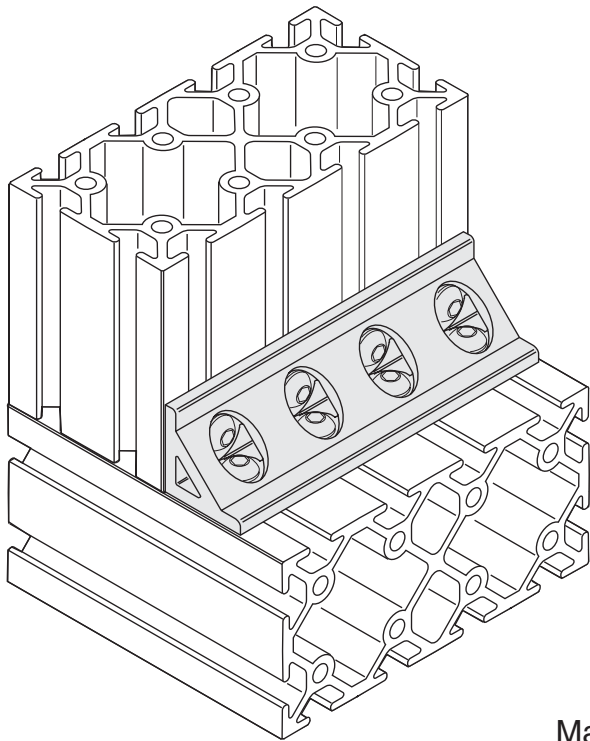
1/4" SLOTS

11-163

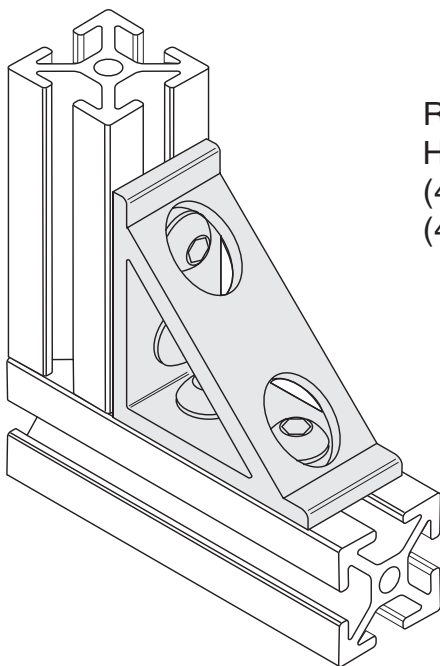
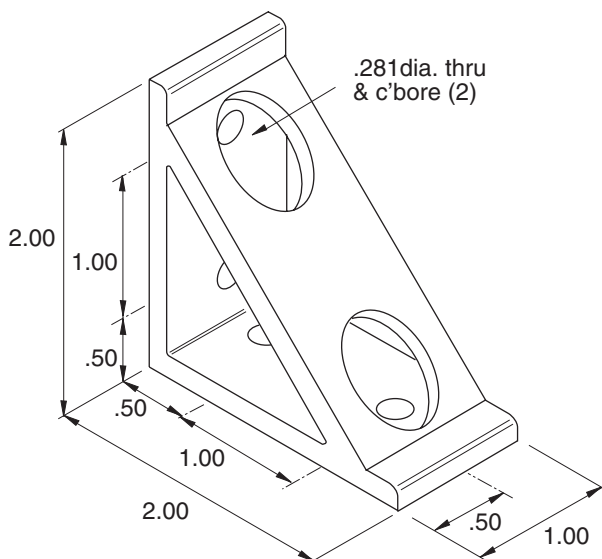


Recommended
Hardware
(8) 11-231 BHCS
(8) 11-210 T-nut

1/4" SLOTS



Material - Aluminum
Finish - Clear Anodize

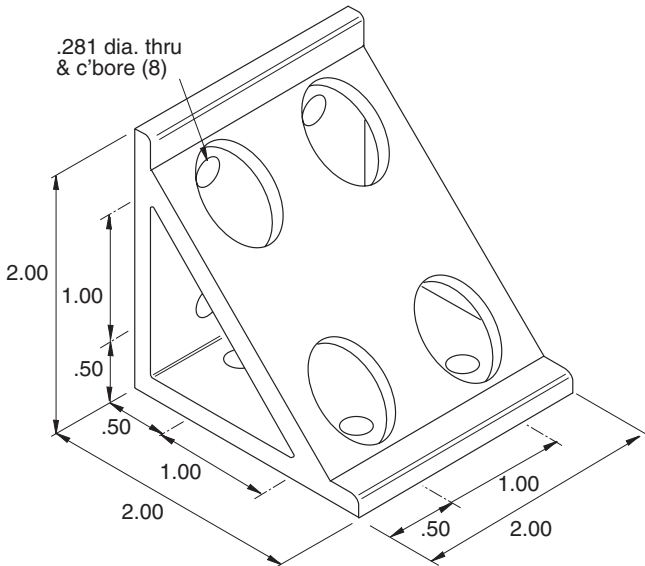


**Recommended
Hardware**
(4) 11-231 BHCS
(4) 11-210 T-nut

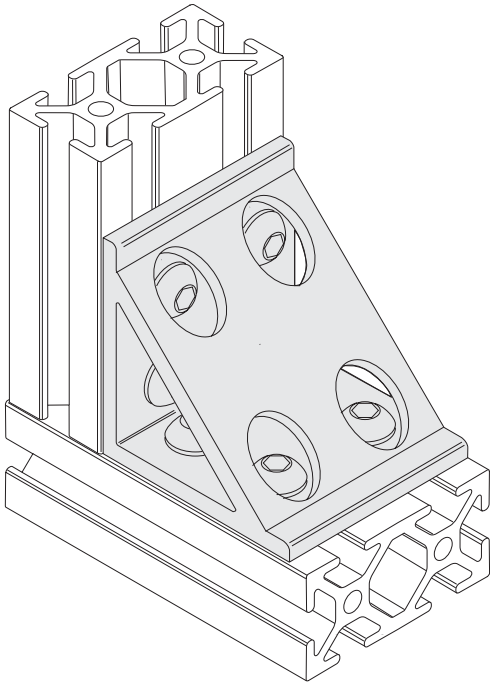
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

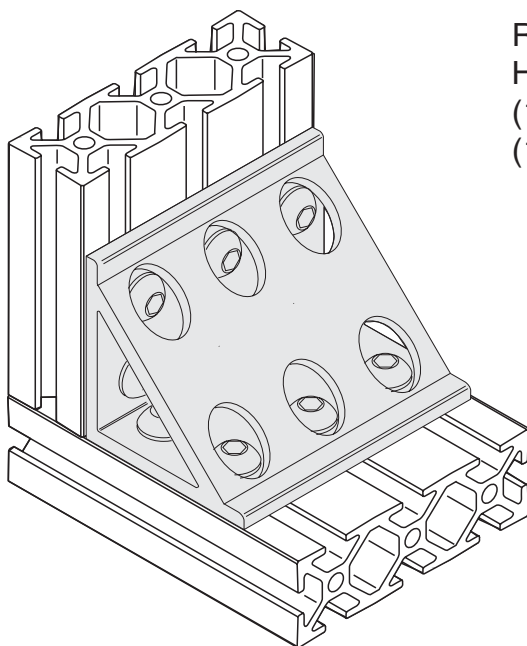
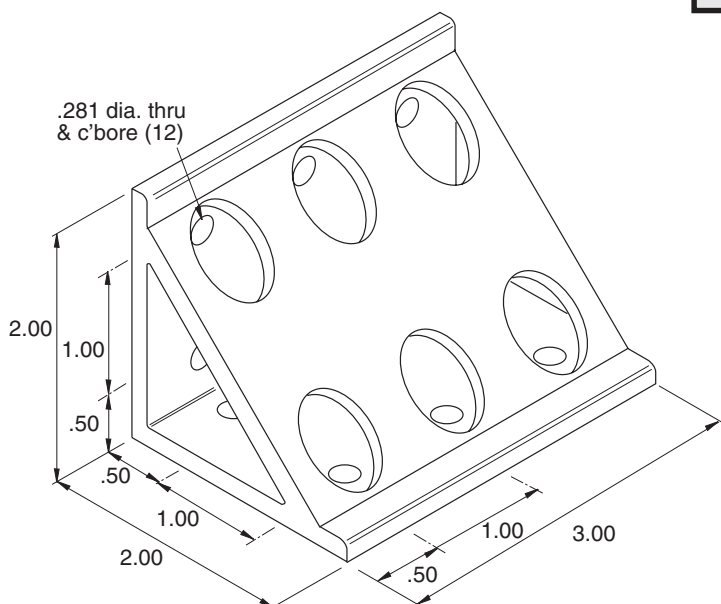
11-171



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



Material - Aluminum
Finish - Clear Anodize

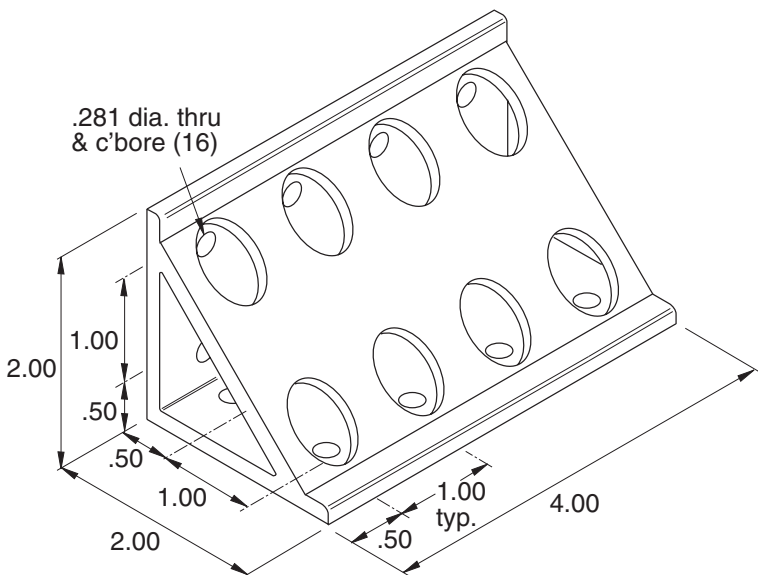


**Recommended
Hardware**
(12) 11-231 BHCS
(12) 11-210 T-nut

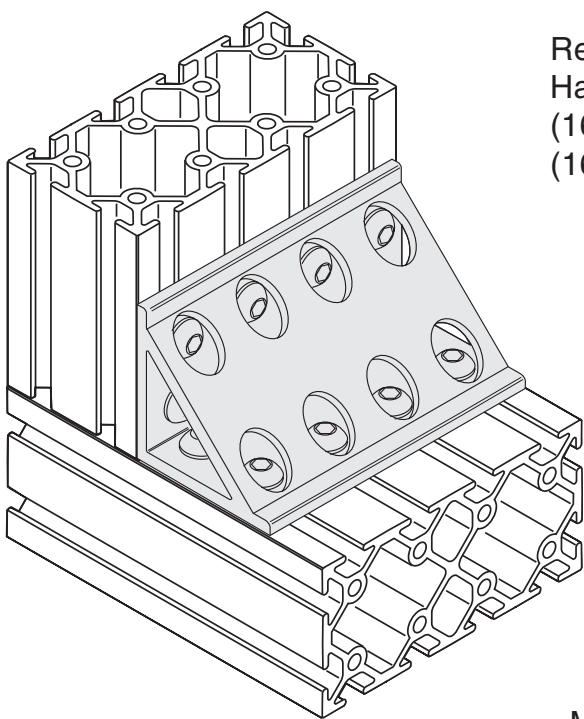
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

11-173

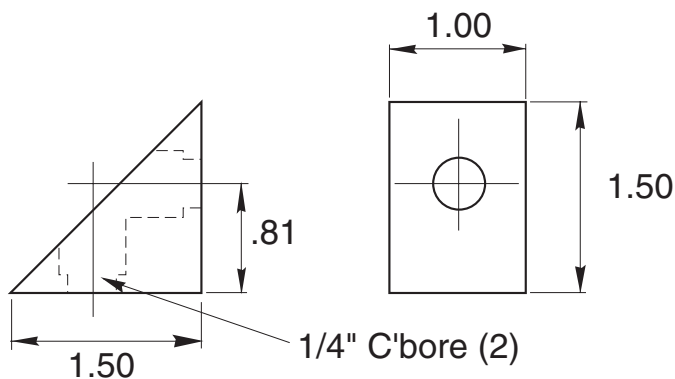


1/4" SLOTS

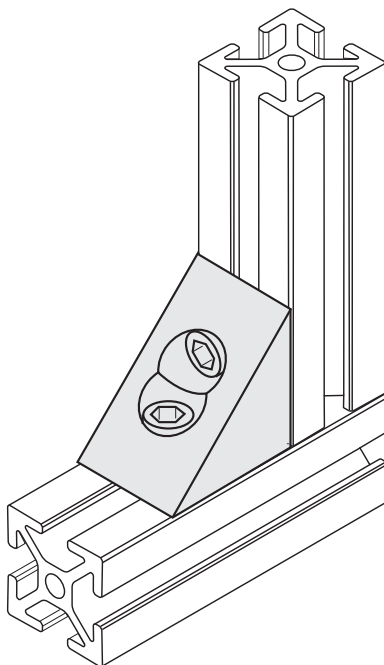


Recommended
Hardware
(16) 11-231 BHCS
(16) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize



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



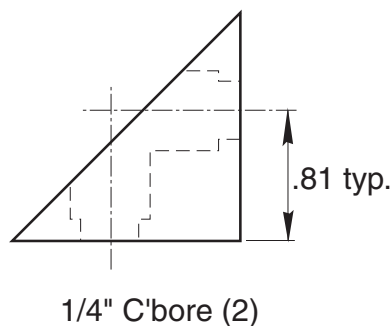
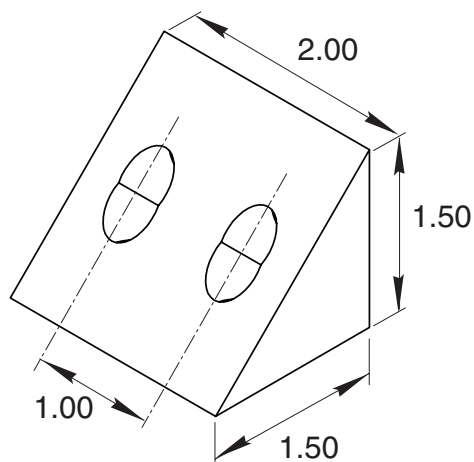
1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

Corner Gusset

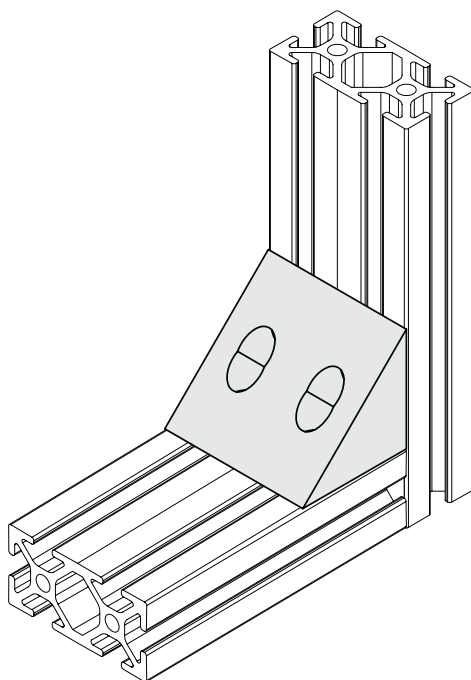


11-34

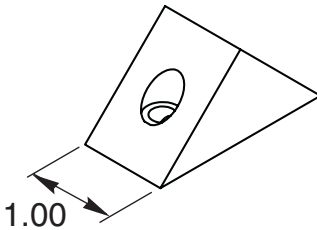
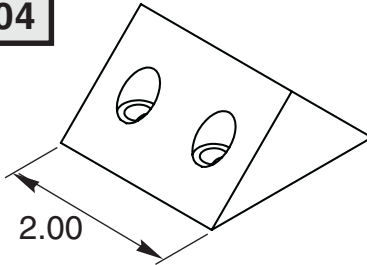
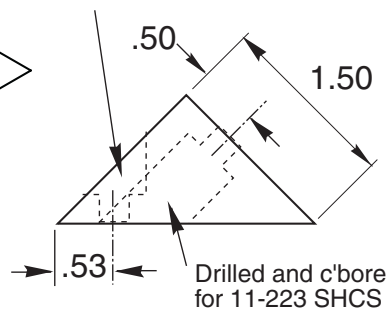


Recommended
Hardware
(4) 11-221 SHCS
(4) 11-210 T-nut

1/4" SLOTS



Material - Aluminum
Finish - Clear Anodize

11-103**11-104****11-104**Drilled and c'bore
for 11-222 SHCS**11-103**Recommended
Hardware

11-103

(1) 11-222 SHCS

(1) 11-223 SHCS

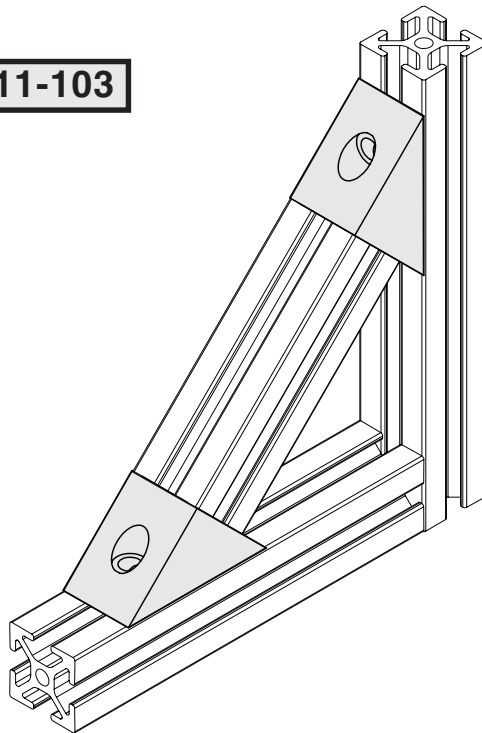
(1) 11-210 T-nut

11-104

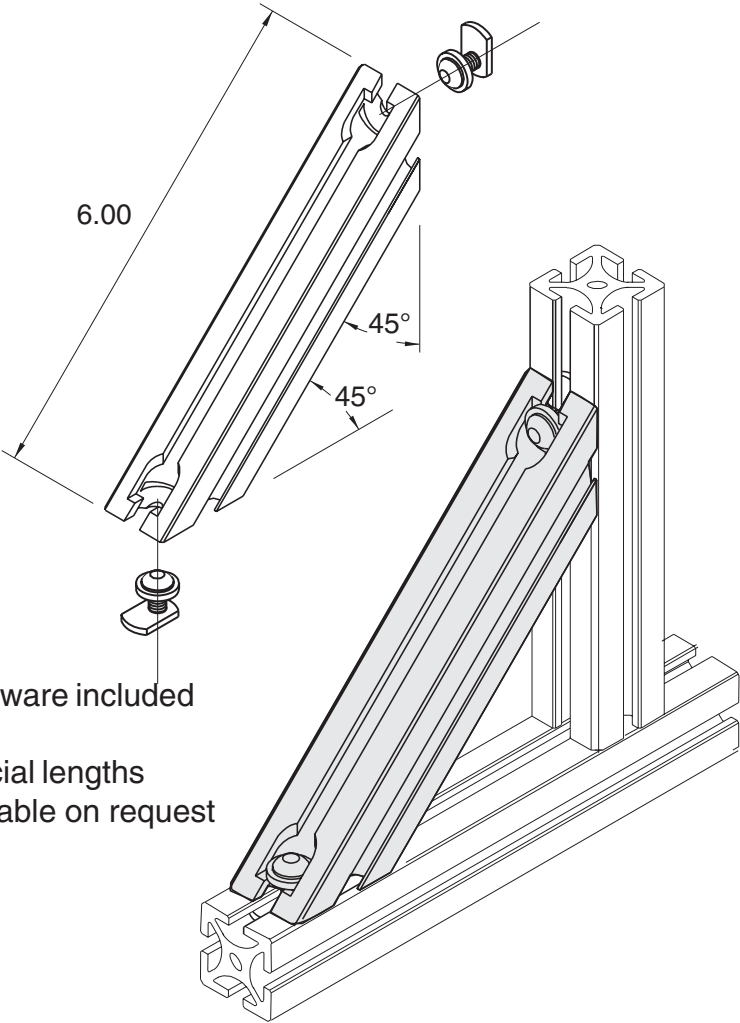
(2) 11-222 SHCS

(2) 11-223 SHCS

(2) 11-210 T-nut

**1/4" SLOTS**Material - Aluminum
Finish - Clear Anodize

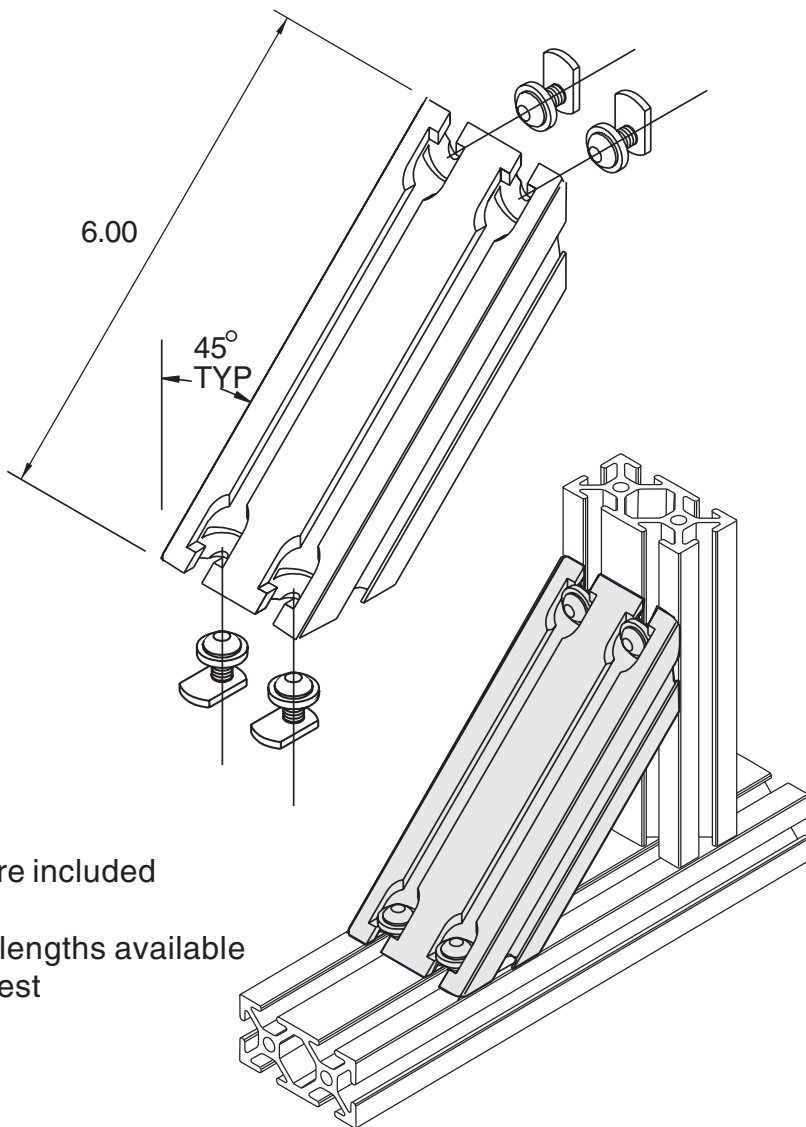
11-7



Hardware included
Special lengths
available on request

Material - Aluminum (EX-11)
Finish - Clear Anodize

1/4" SLOTS



Hardware included

Special lengths available
on request

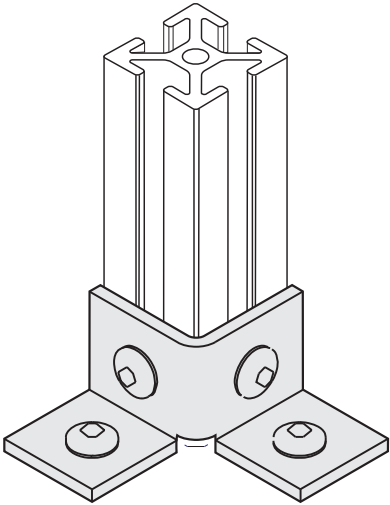
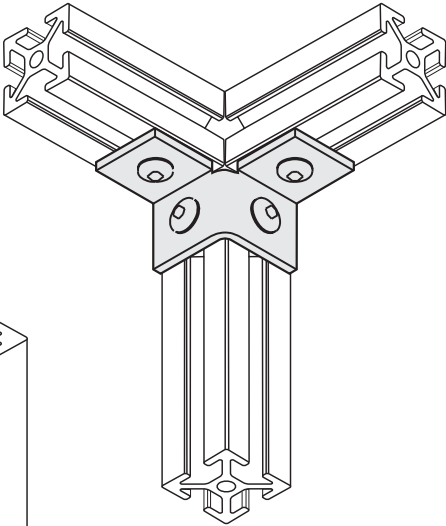
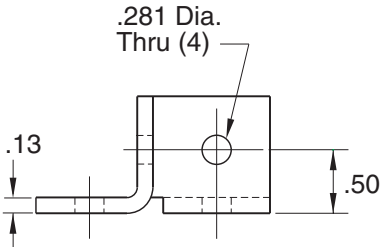
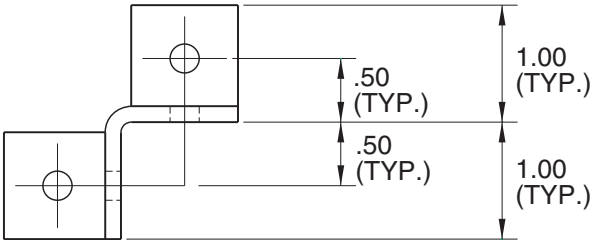
Material - Aluminum (EX-12)
Finish - Clear Anodize

1/4" SLOTS

Double Steel Corner Bracket



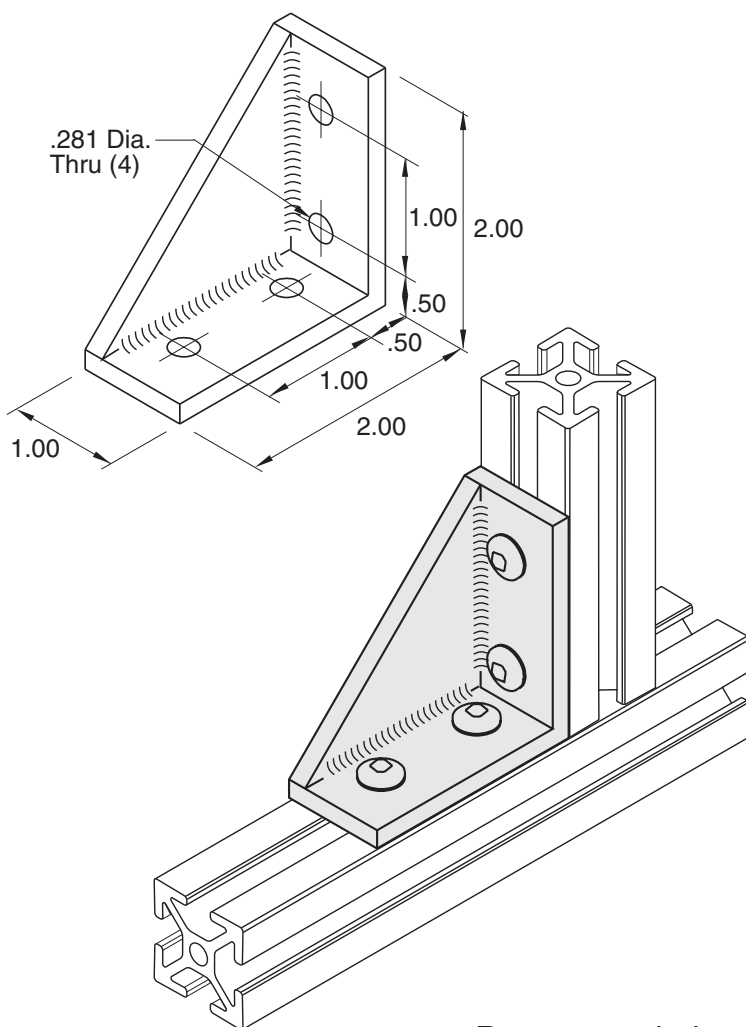
11-8



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

Material - Steel
Finish - Zinc Plating

1/4" SLOTS

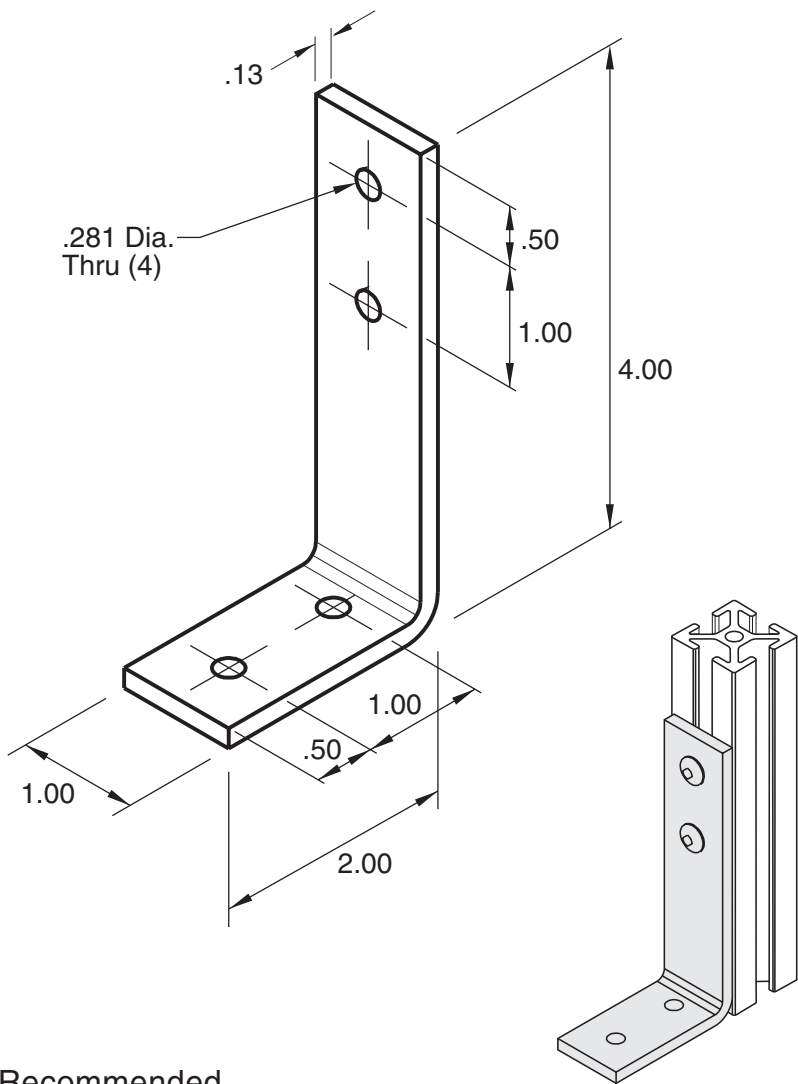


Recommended
Hardware
(4) 11-230 BHCS
(4) 11-210 T-nut

Material - Steel
Finish - Black Powder Coat

1/4" SLOTS

11-64

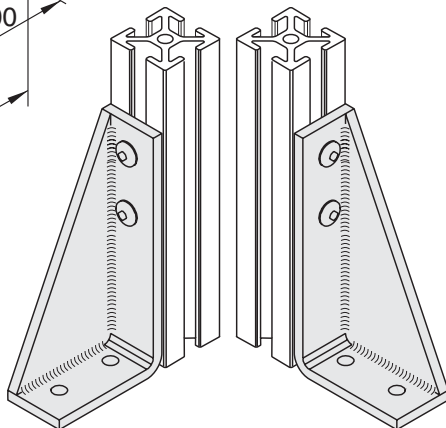
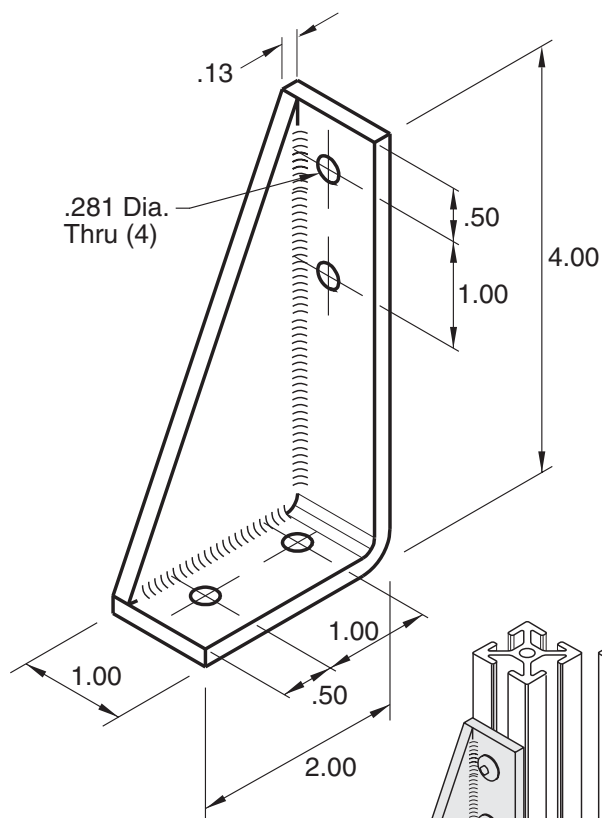


1/4" SLOTS

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

Material - Steel
Finish - Black Powder Coat

| | |
|-------------------|--------------|
| Left Hand | 11-61 |
| Right Hand | 11-62 |



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

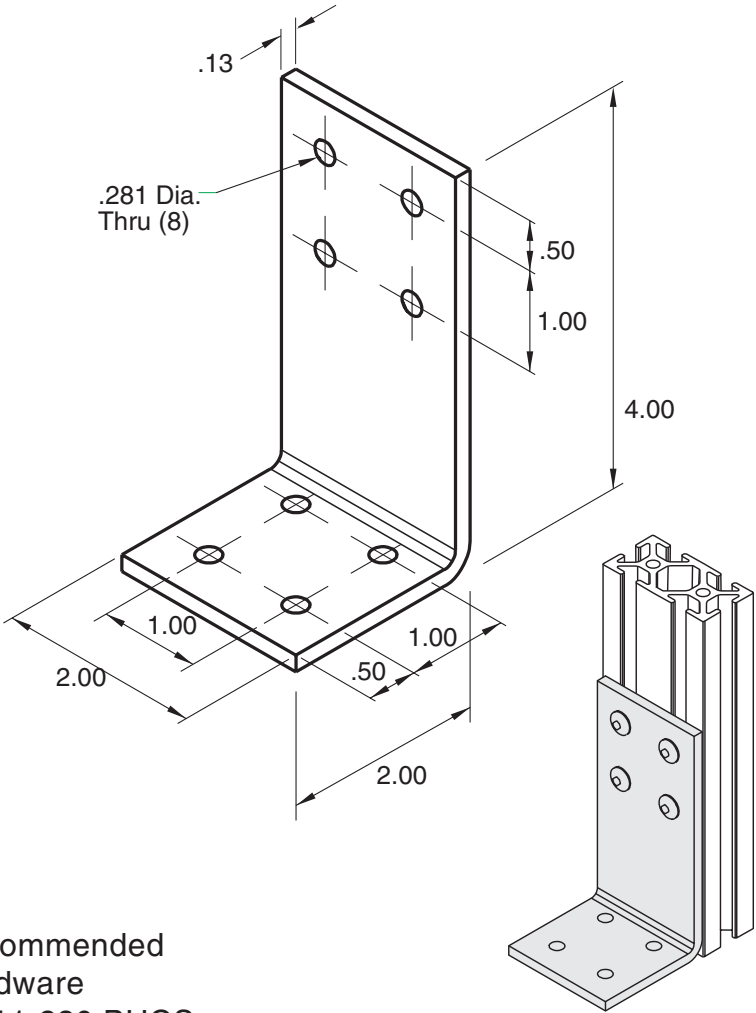
**11-61
Left Hand**

**11-62
Right Hand**

Material - Steel
Finish - Black Powder Coat

1/4" SLOTS

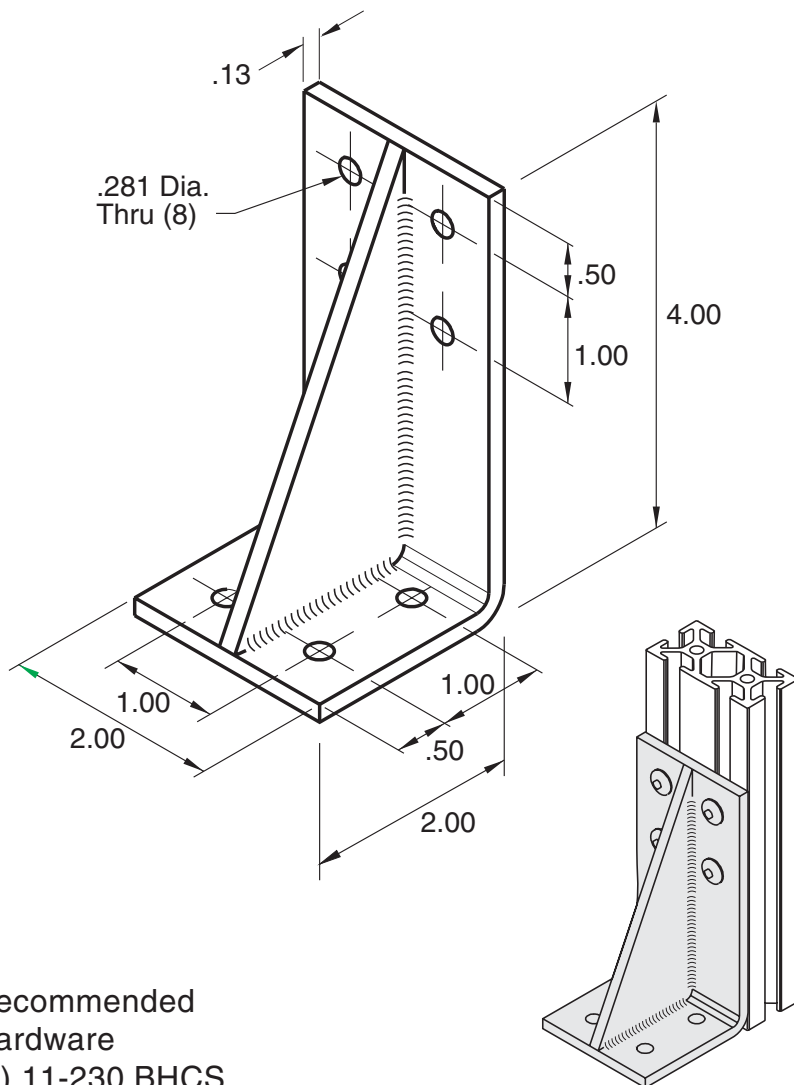
11-65



1/4" SLOTS

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

Material - Steel
Finish - Black Powder Coat

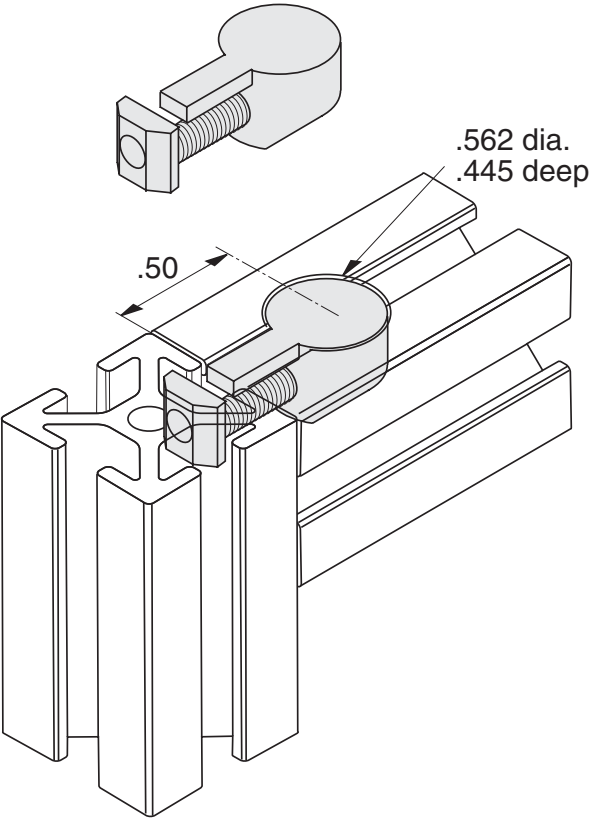


Recommended
Hardware
(8) 11-230 BHCS
(8) 11-210 T-nut

Material - Steel
Finish - Black Powder Coat

1/4" SLOTS

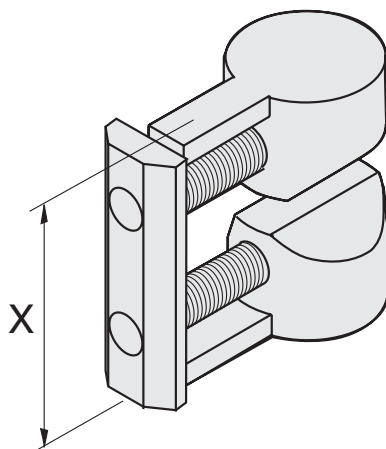
| | |
|----------------|------------------|
| 11-242 | with Hardware |
| 11-242P | without Hardware |



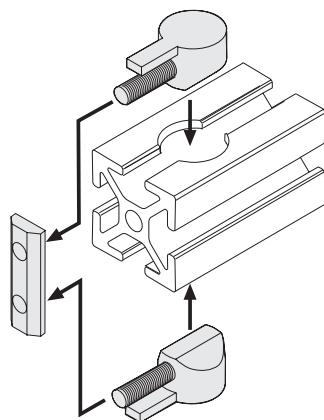
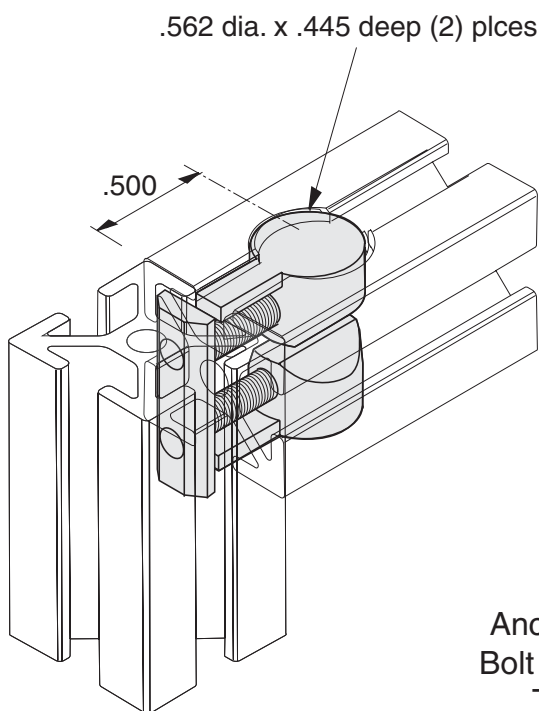
1/4" SLOTS

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

11-248
11-249
11-248 x=1.0

11-249 x=2.0


Hardware Included

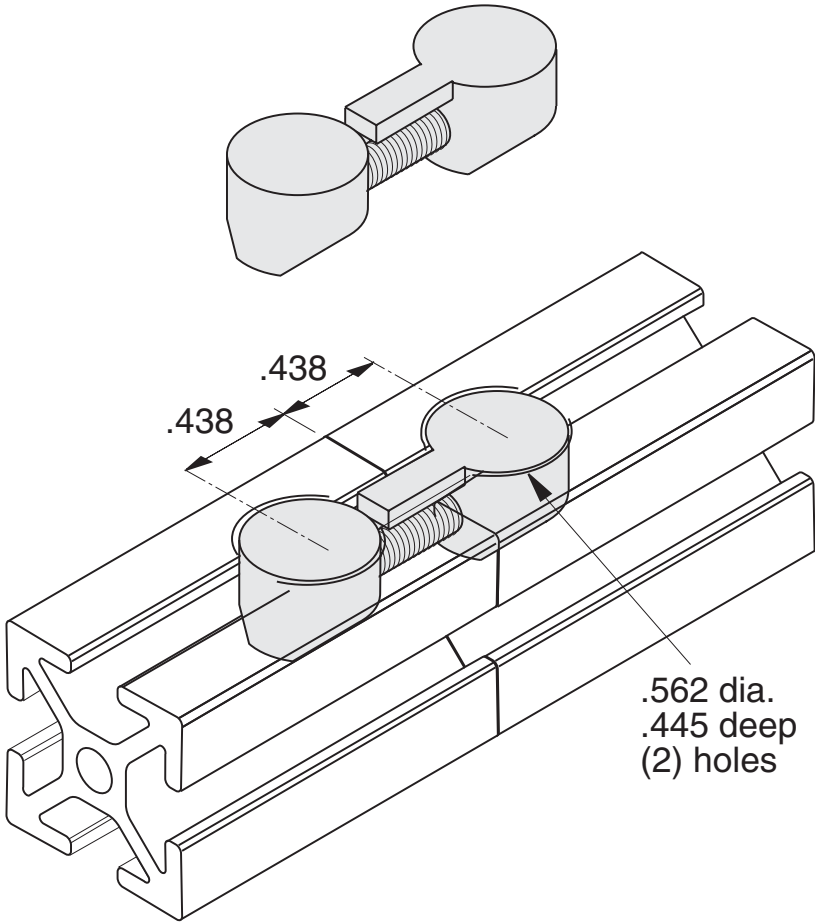


1/4" SLOTS

Material:

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

11-243



Hardware Included

Material:

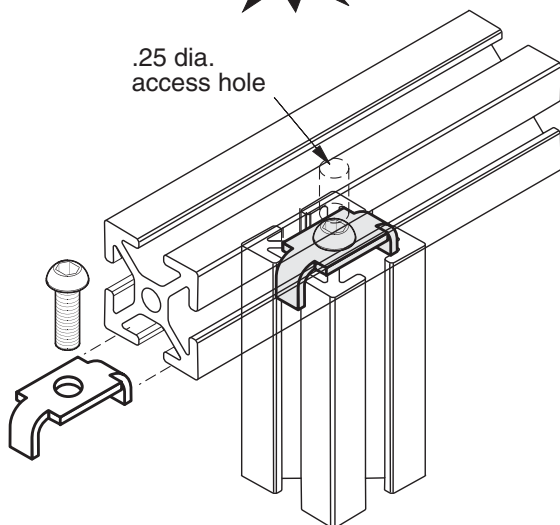
Anchor - Cast Zinc, Zinc Plated
Bolt - Steel, Black Oxide Coating
T-nut - Steel Zinc Coated

Zinc Plated Steel

11-262

Stainless Steel

11-262SS



Requires
(1)11-233 BHCS

Universal Panel Connector

Zinc Plated Steel

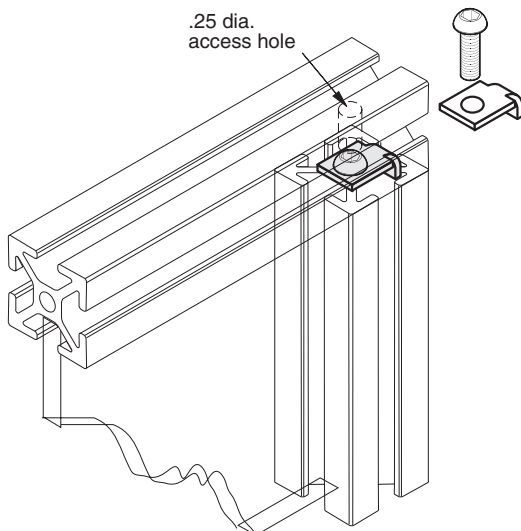
11-267

Stainless Steel

11-267SS



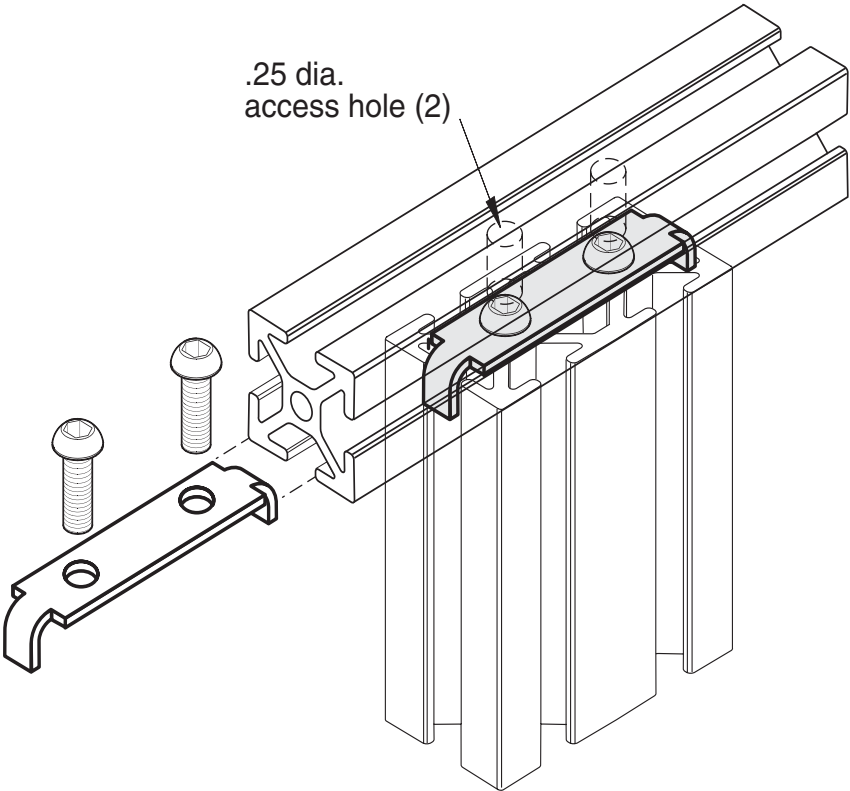
Requires
(1)11-233 BHCS



No panel
trimming
required

1/4" SLOTS

11-268

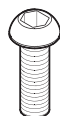
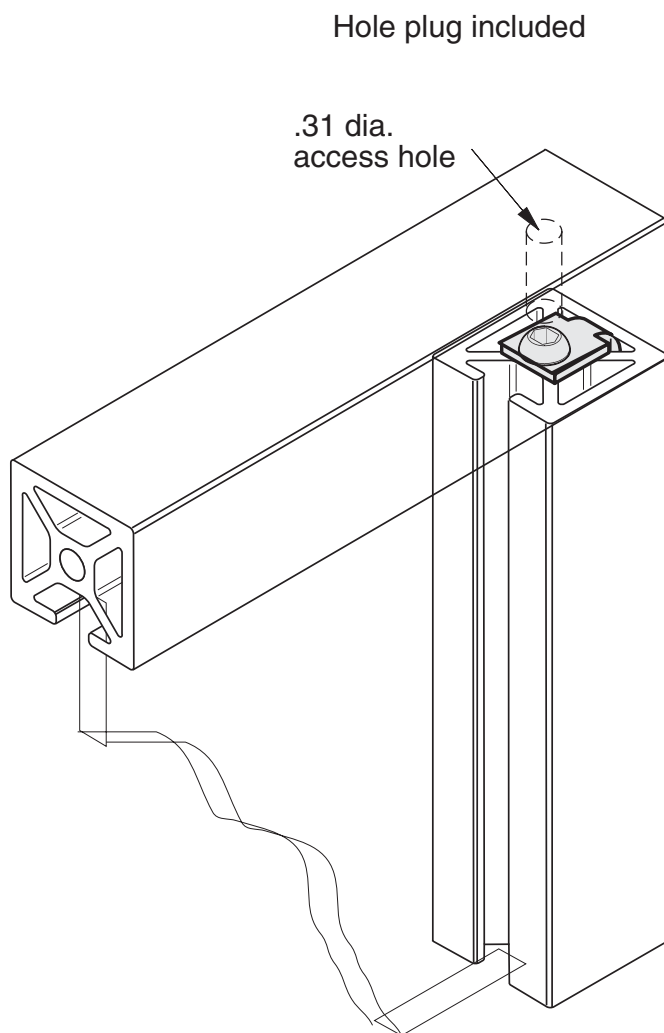


1/4" SLOTS

Recommended
Hardware
(2) 11-233 BHCS

Material - Steel
Finish - Zinc Plated

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

11-269

Recommended
Hardware
(1) 11-233 BHCS

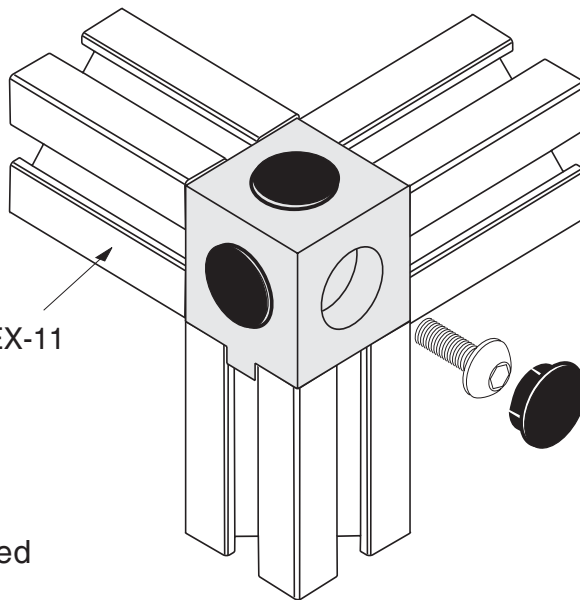
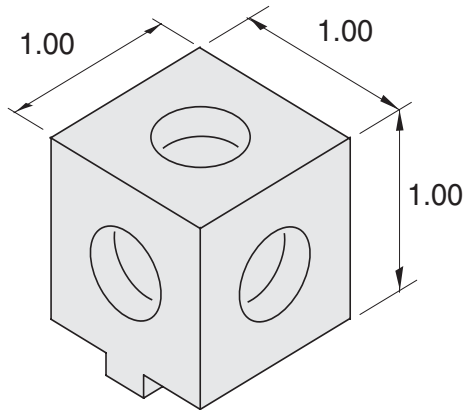
Material - Steel
Finish - Zinc Plated

1/4" SLOTS

3-way Castle Corner



11-24



Use with EX-11

Hole Plugs Included

Recommended
Hardware
(3) 11-233 BHCS

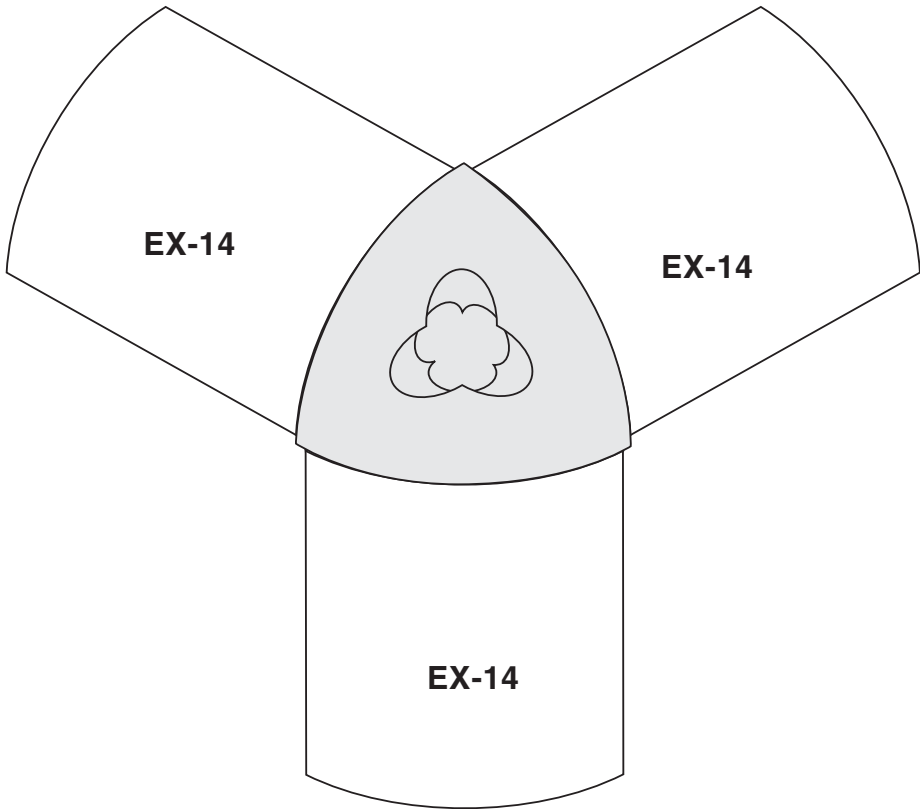
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



Castle Corner

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

11-56

1/4" SLOTS

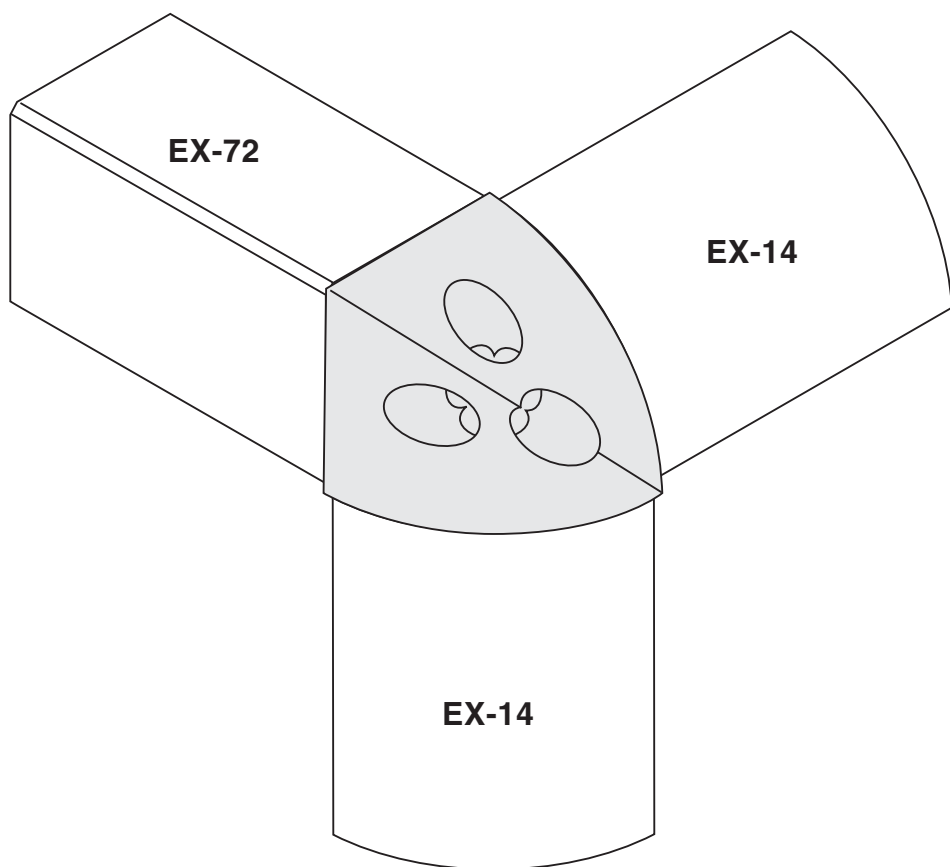
Hardware Included
Material - Aluminum
Finish - Clear Anodize

Castle Corner



11-57

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



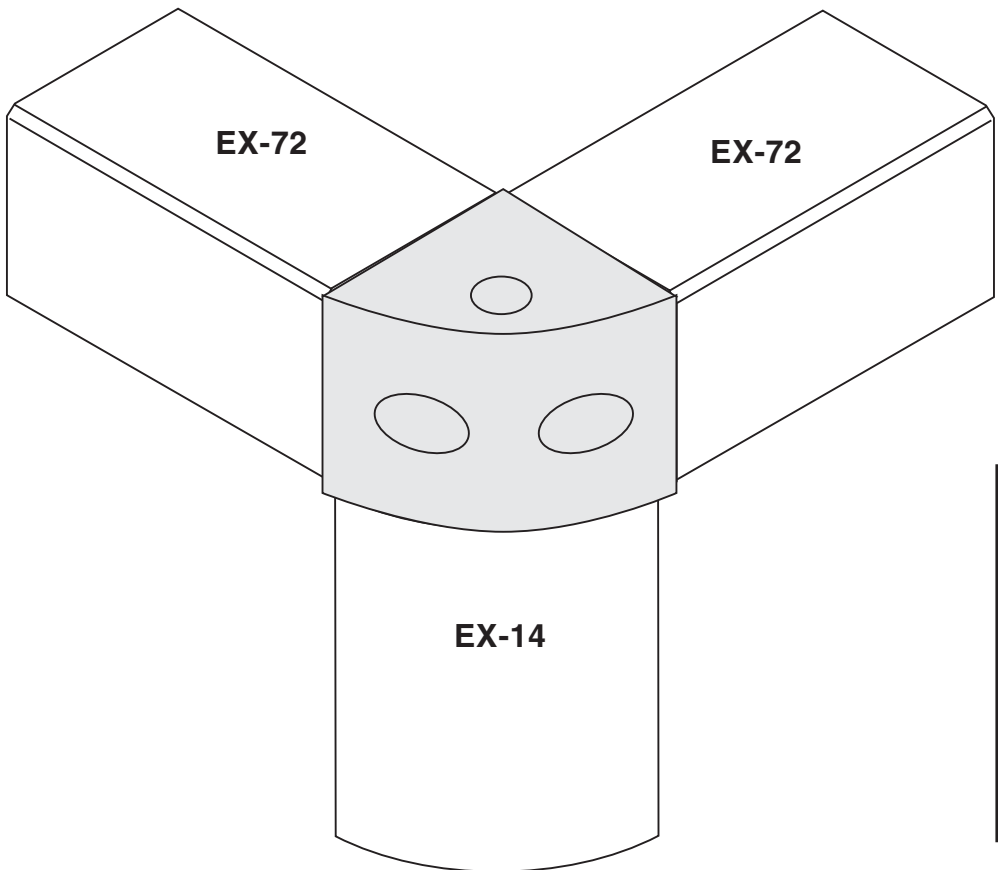
1/4" SLOTS

Hardware Included
Material - Aluminum
Finish - Clear Anodize



Castle Corner

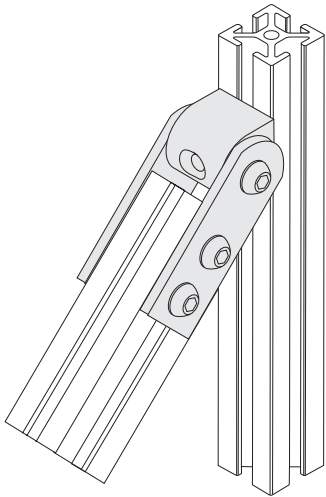
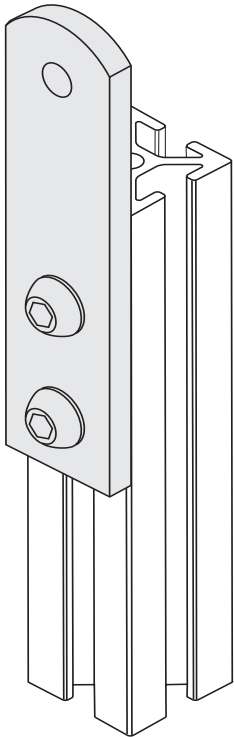
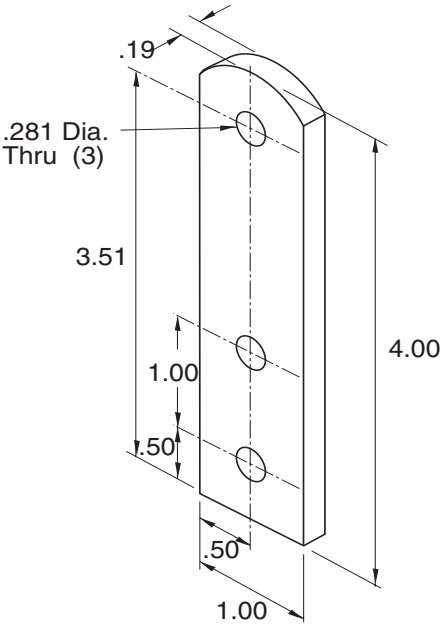
For 1" x 1" 1/4" Slot Profiles

11-58

1/4" SLOTS

Hardware Included
Material - Aluminum
Finish - Clear Anodize

11-11

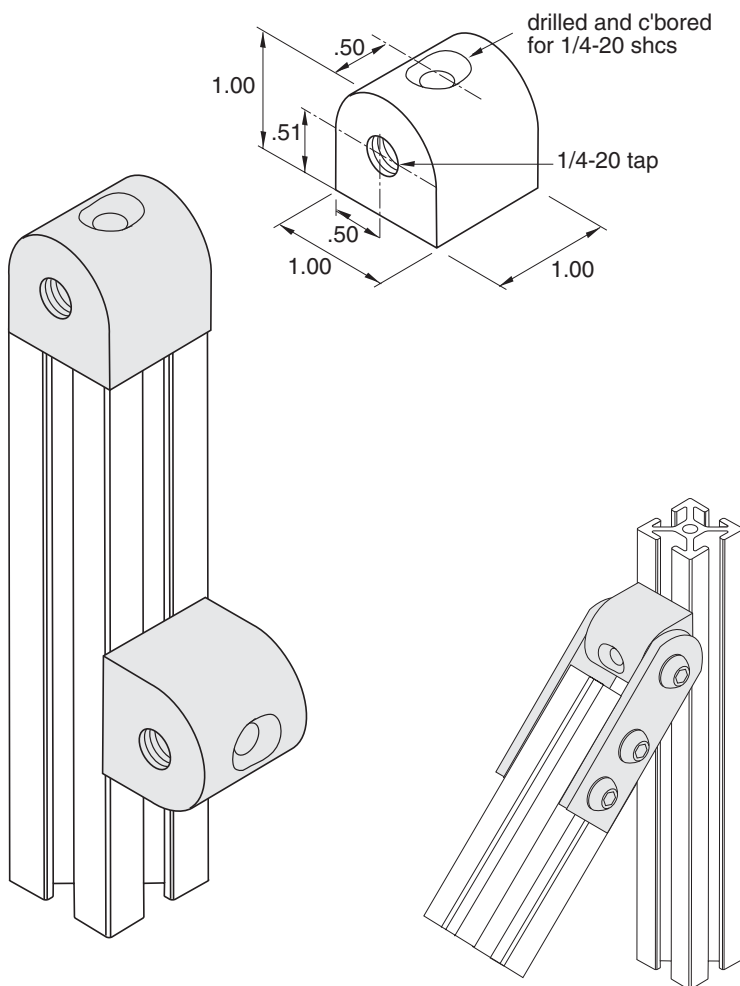


Assembled
(1) 11-10
(2) 11-11

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

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



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

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

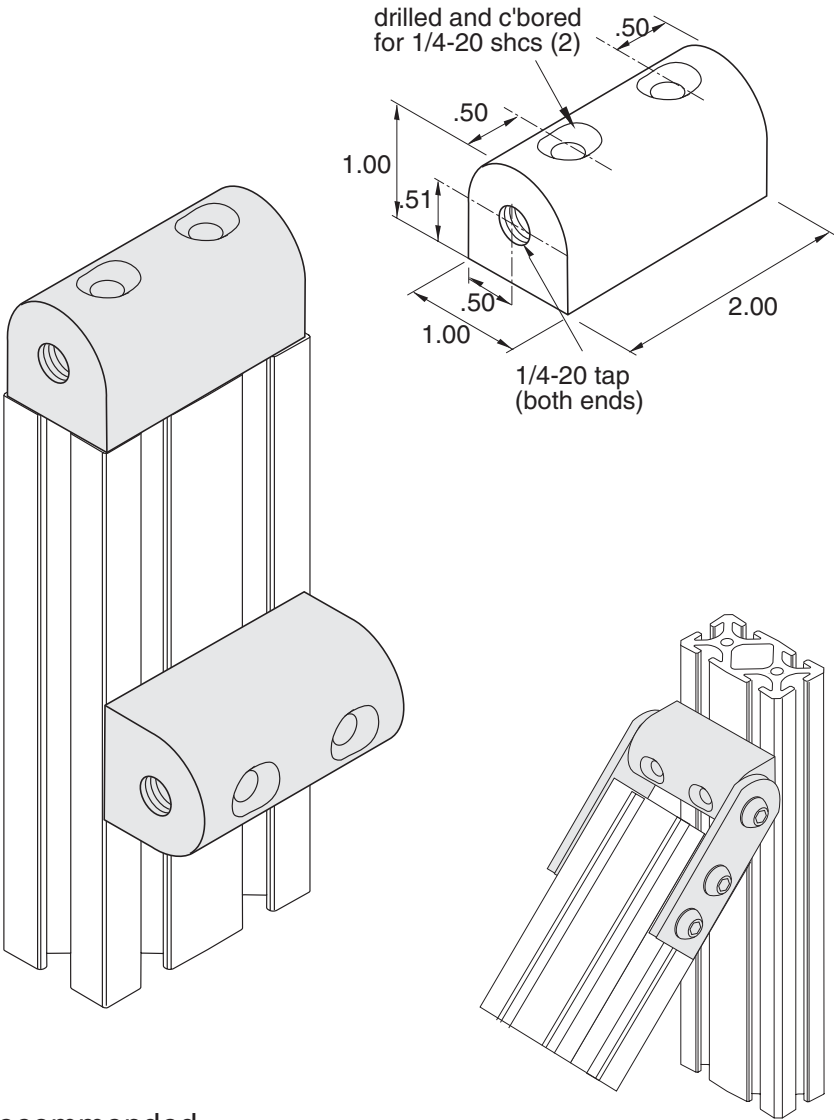
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Adjustable Corner Post



11-9



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



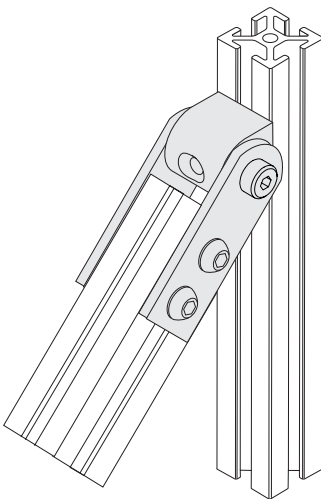
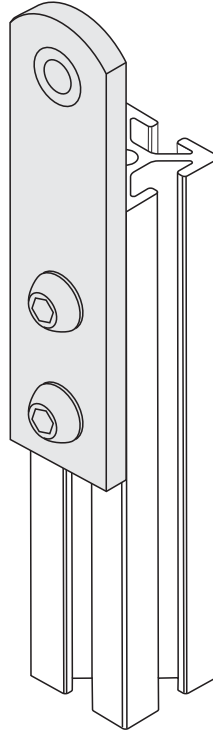
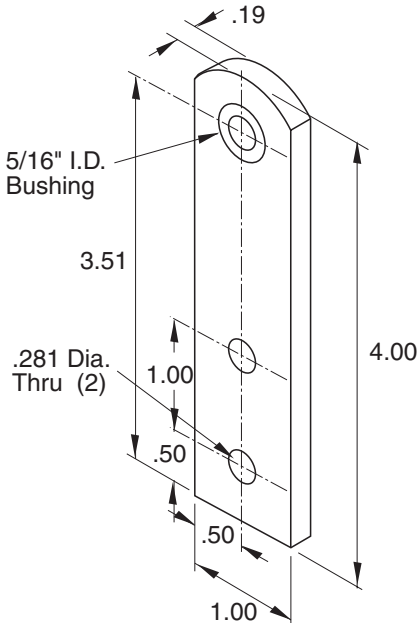
Pivoting Post Arm with Bushing

use with 11-108 or 11-109

11-105

For shoulder bolt
and washer
assembly, order
(1) 11-204

Fastening
hardware to
extrusion
included



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

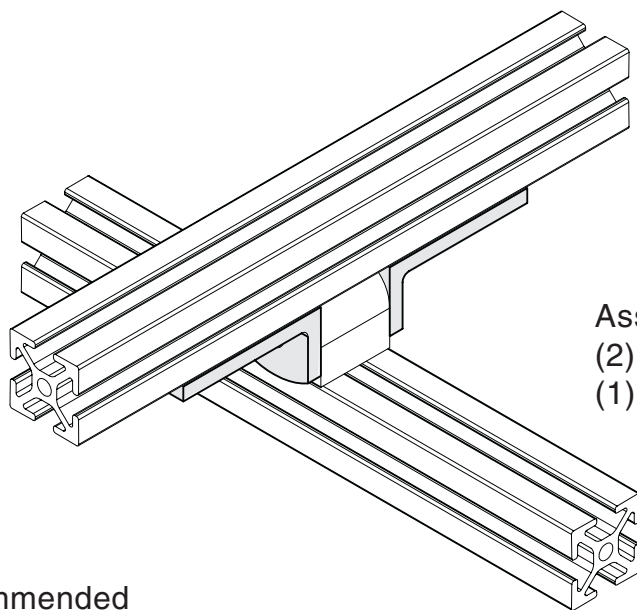
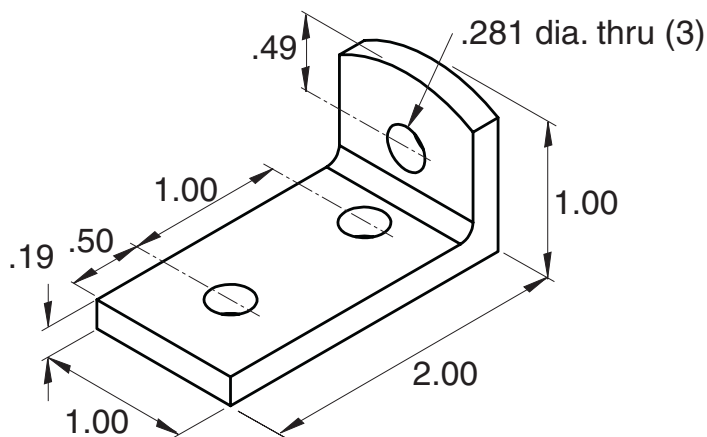
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Adjustable Post Angle



11-106



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

Recommended
Hardware
(3) 11-223 BHCS
(2) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

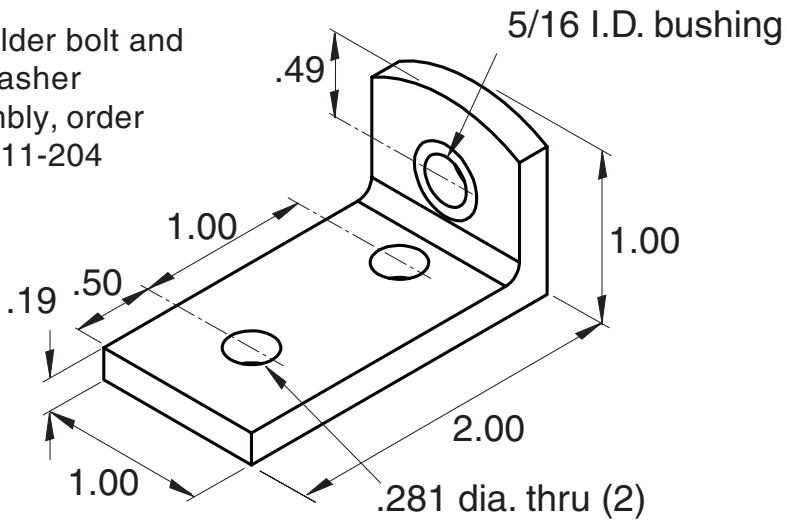


Pivoting Post Angle with Bushing

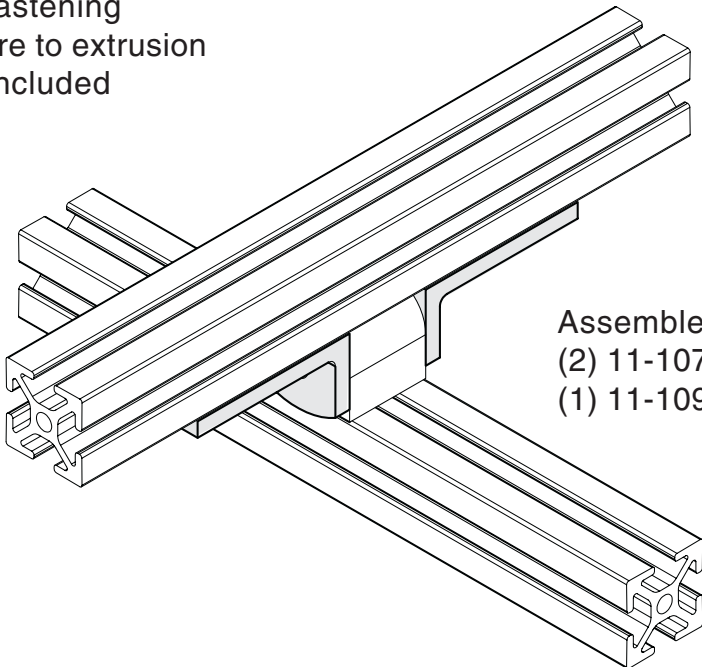
use with 11-108 or 11-109

11-107

For shoulder bolt and
washer
assembly, order
(1) 11-204



Fastening
hardware to extrusion
included



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

1/4" SLOTS

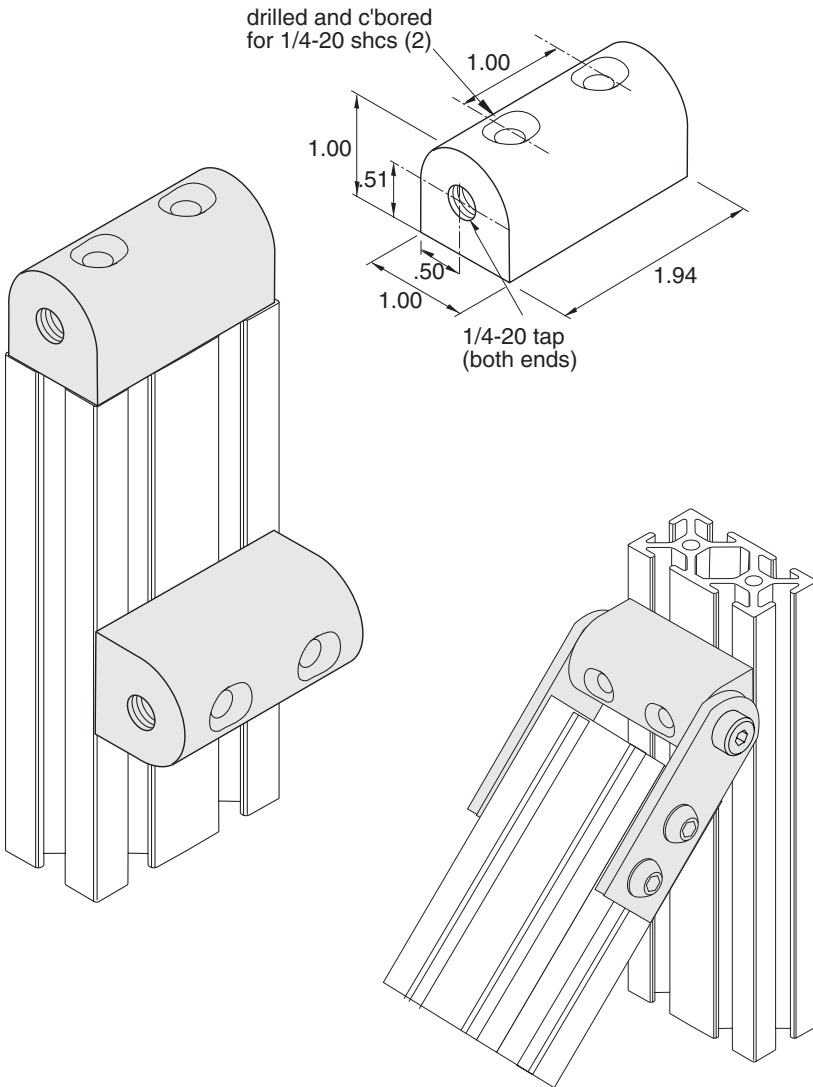
Material - Aluminum
Finish - Clear Anodize

Adjustable Corner Post Arm



11-108

use with 11-105 or 11-107



1/4" SLOTS

Recommended
Hardware
(2) 11-220 BHCS
(2) 11-210 T-nut

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

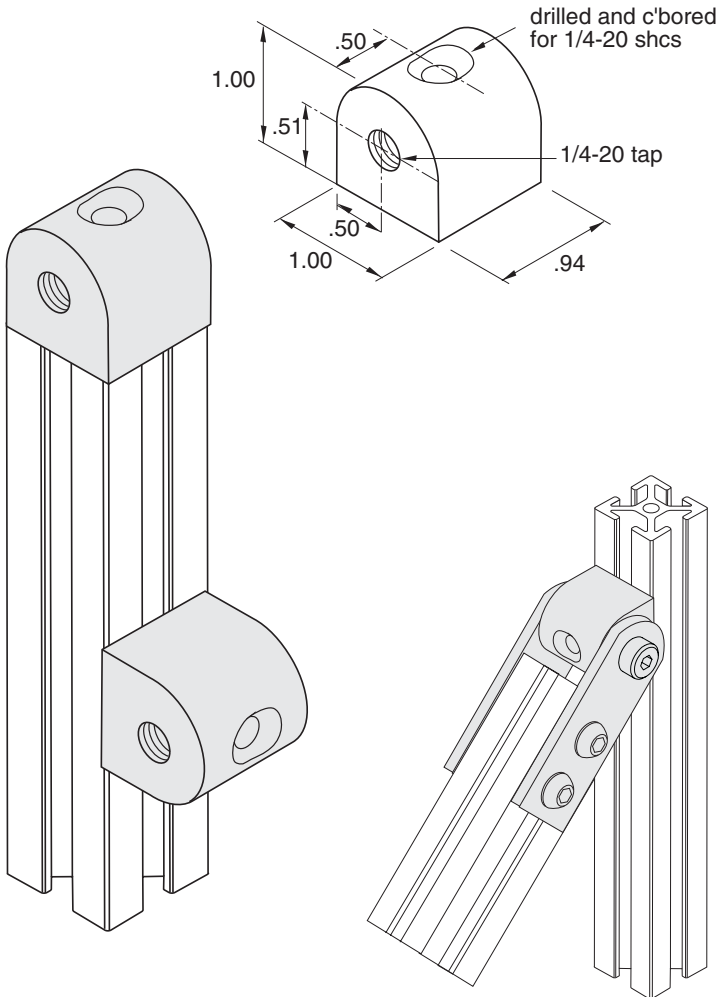
Material - Aluminum
Finish - Clear Anodize



Pivoting Corner Post

use with 11-105 or 11-107

11-109



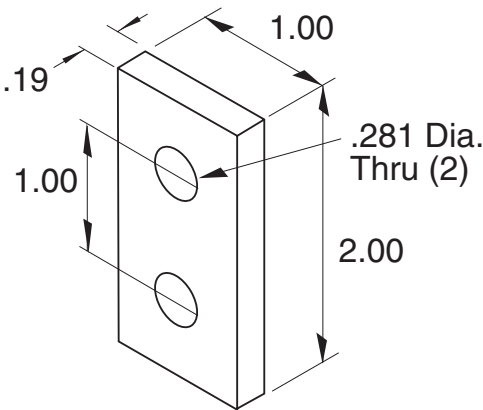
**Recommended
Hardware**
(1) 11-220 BHCS
(1) 11-210 T-nut

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

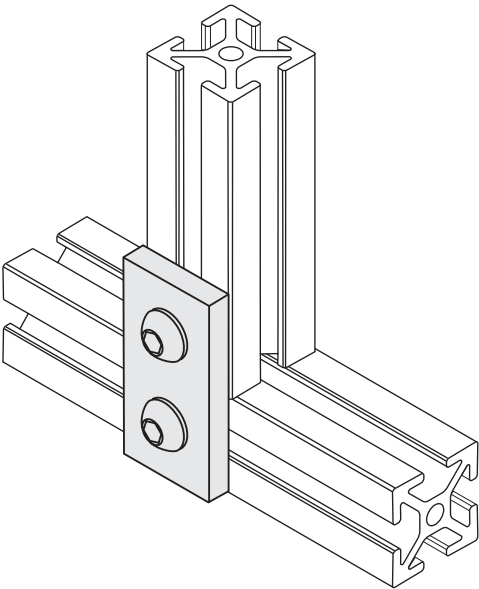
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

11-38

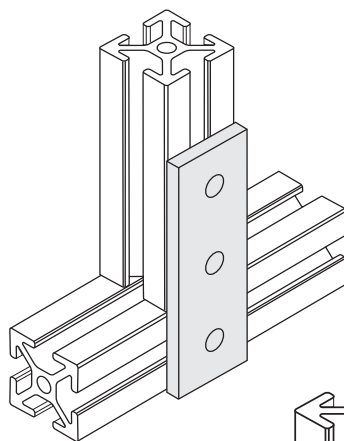
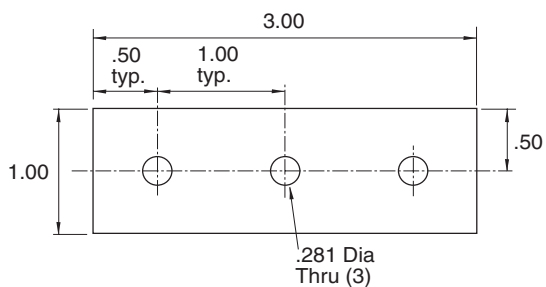


Recommended
Hardware
(2) 11-231 BHCS
(2) 11-210 T-nut



Material - Aluminum
Finish - Clear Anodize

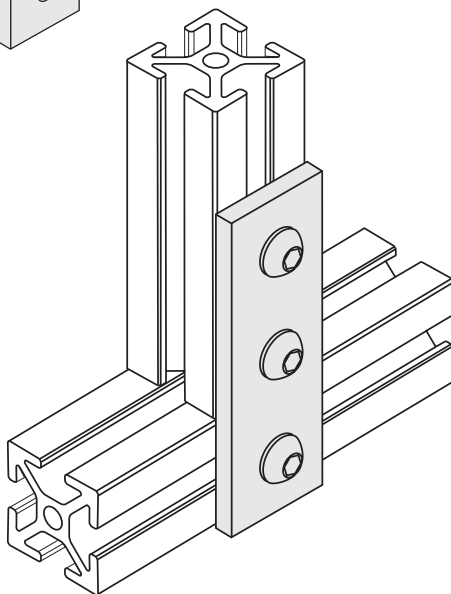
1/4" SLOTS



Recommended
Hardware

(3) 11-231 BHCS

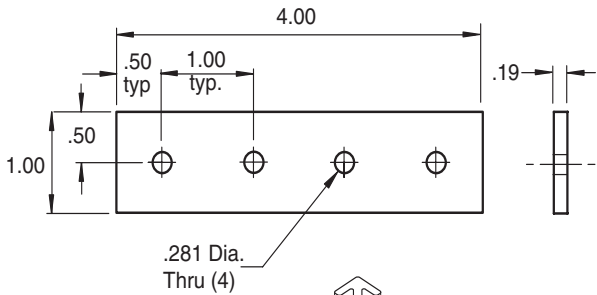
(3) 11-210 T-nut



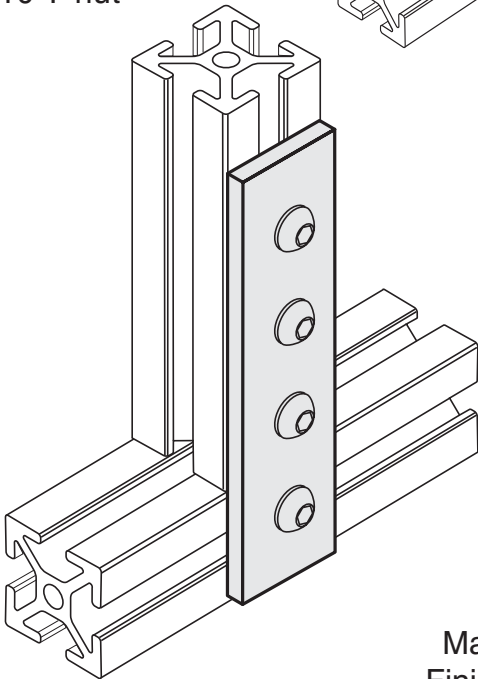
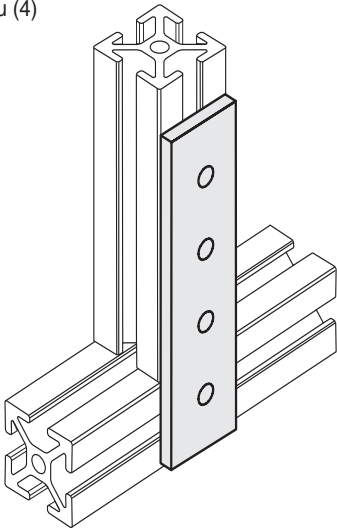
1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

11-22

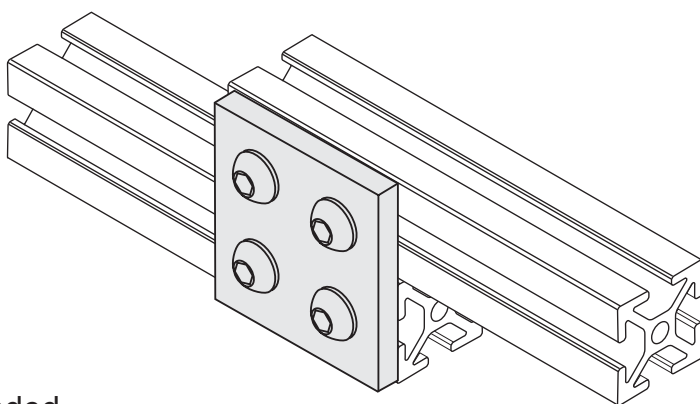
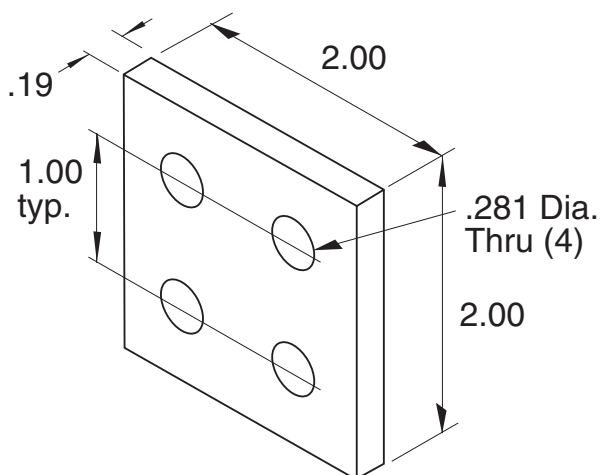


Recommended
Hardware
(4) 11-231 BHCS
(4) 11-210 T-nut



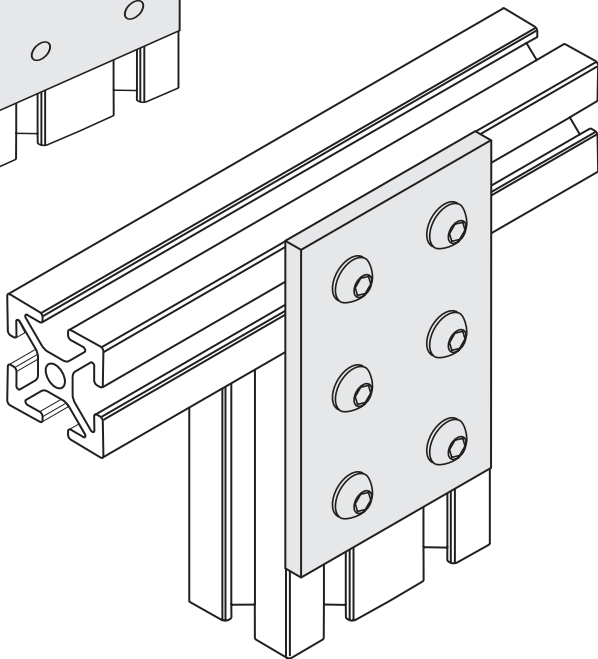
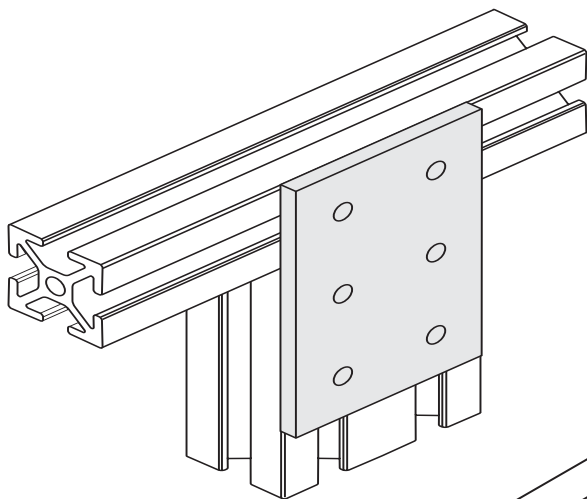
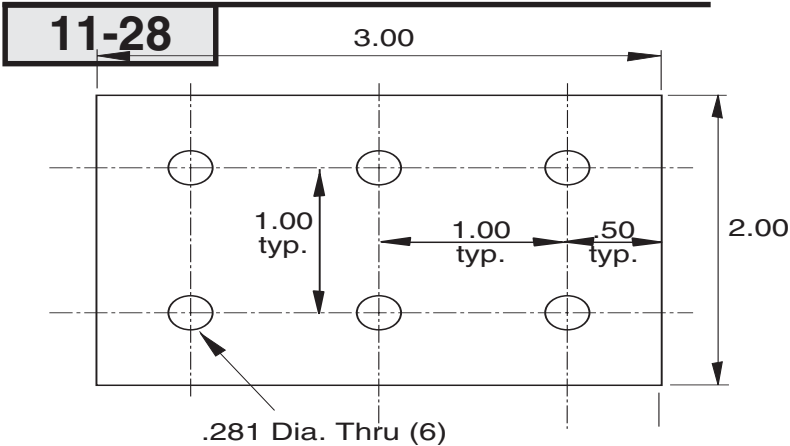
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

**1/4" SLOTS**

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

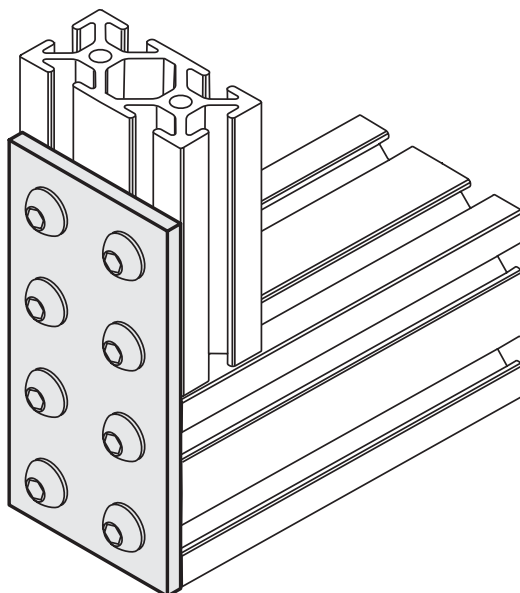
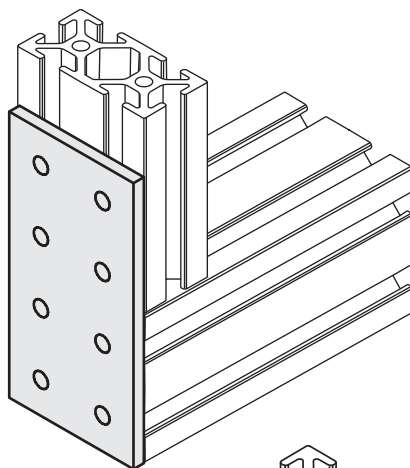
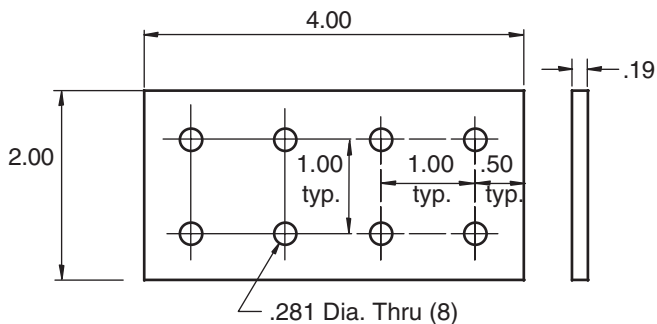
Material - Aluminum
Finish - Clear Anodize



1/4" SLOTS

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

Material - Aluminum
Finish - Clear Anodize

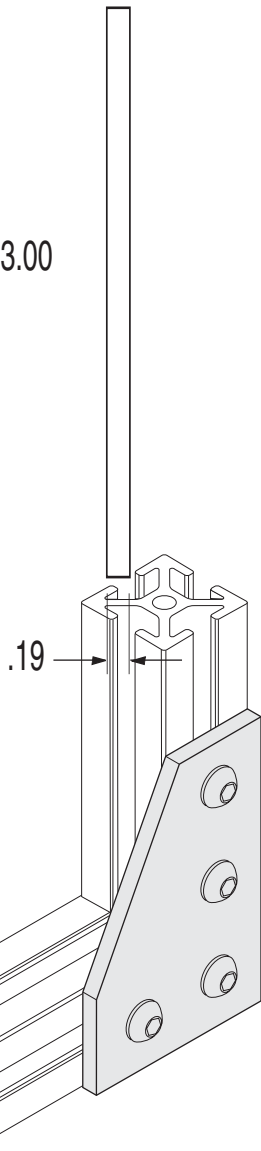
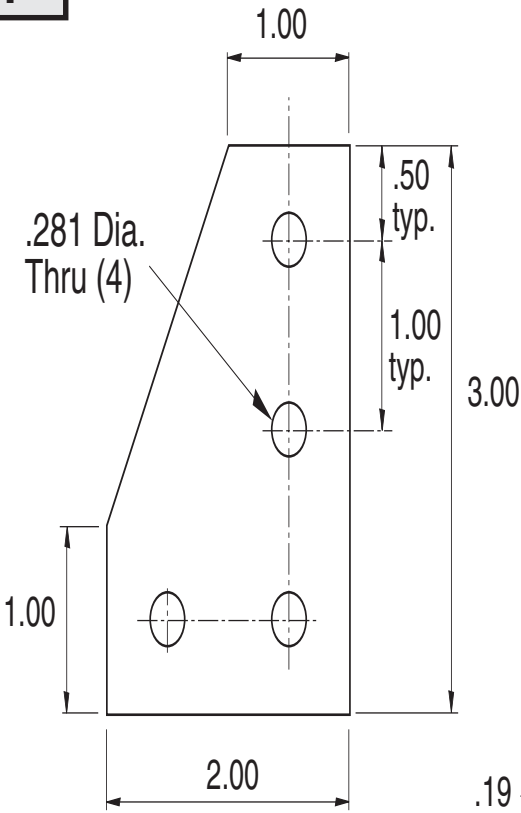
11-27


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

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

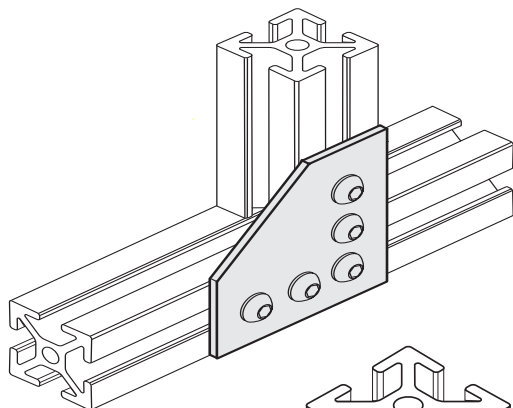
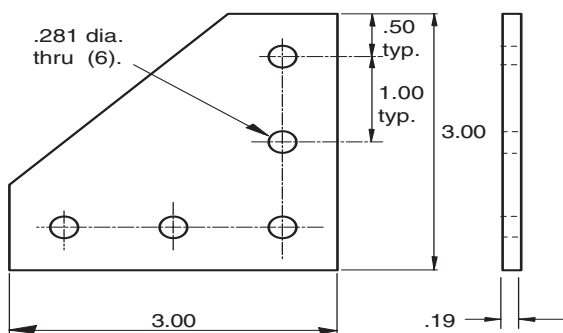
11-41



1/4" SLOTS

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

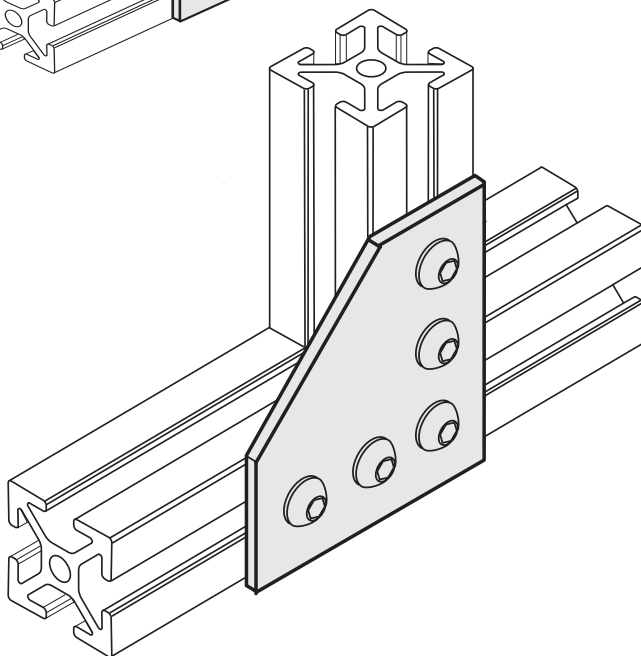
Material - Aluminum
Finish - Clear Anodize



Recommended
Hardware

(5) 11-231 BHCS

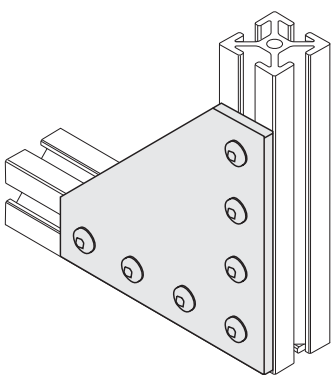
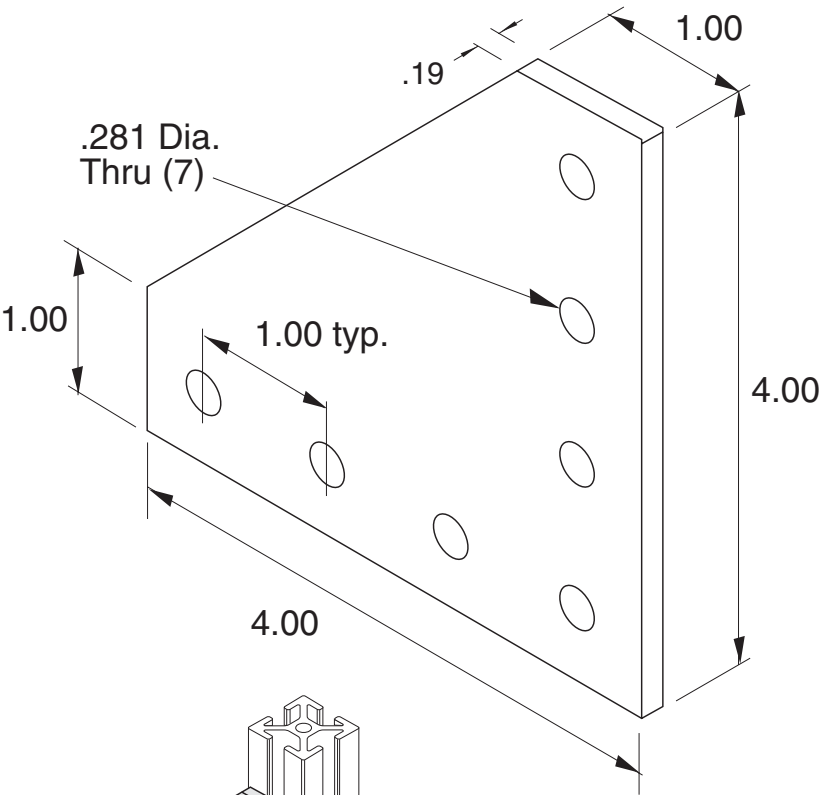
(5) 11-210 T-nut



Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

11-42

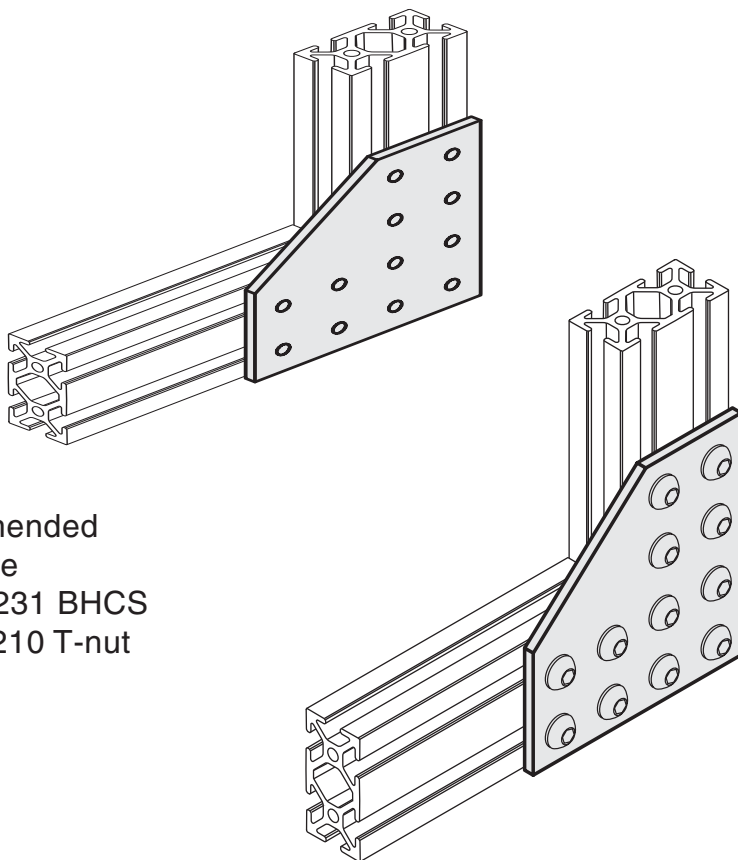
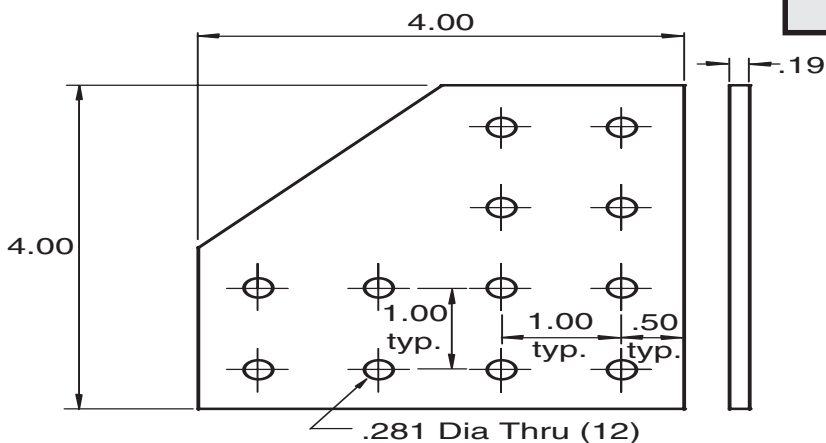


Recommended
Hardware
(7) 11-231 BHCS
(7) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

11-25

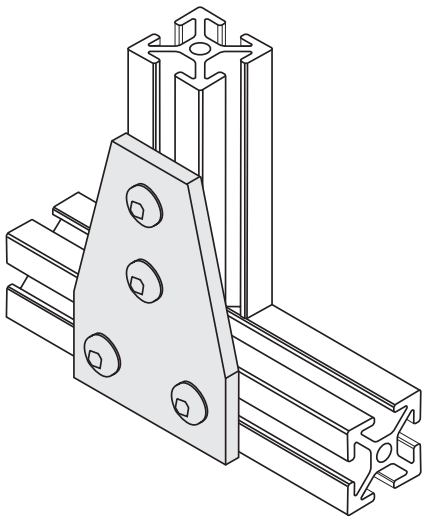
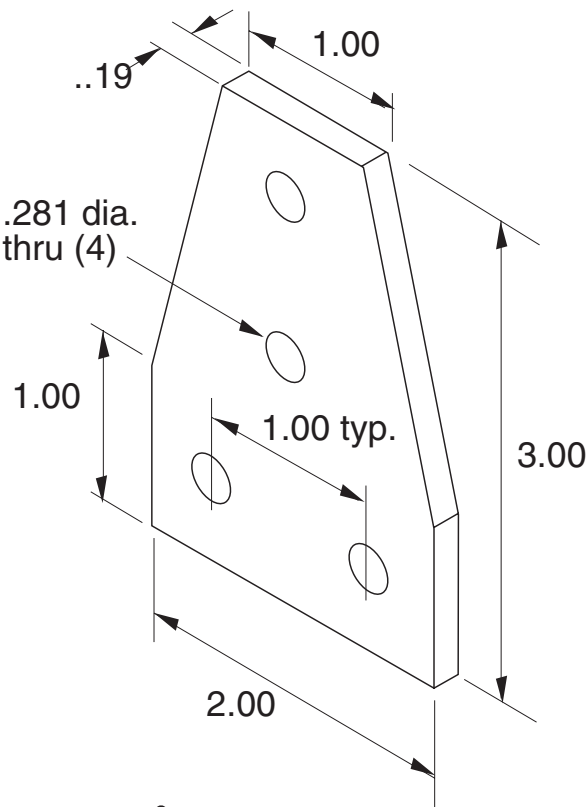


Recommended
Hardware
(12) 11-231 BHCS
(12) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

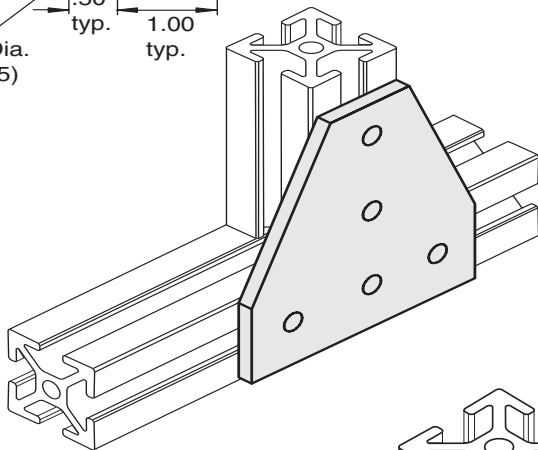
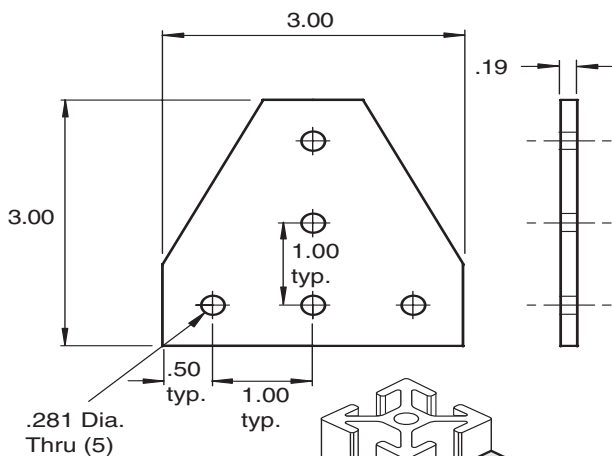
11-44



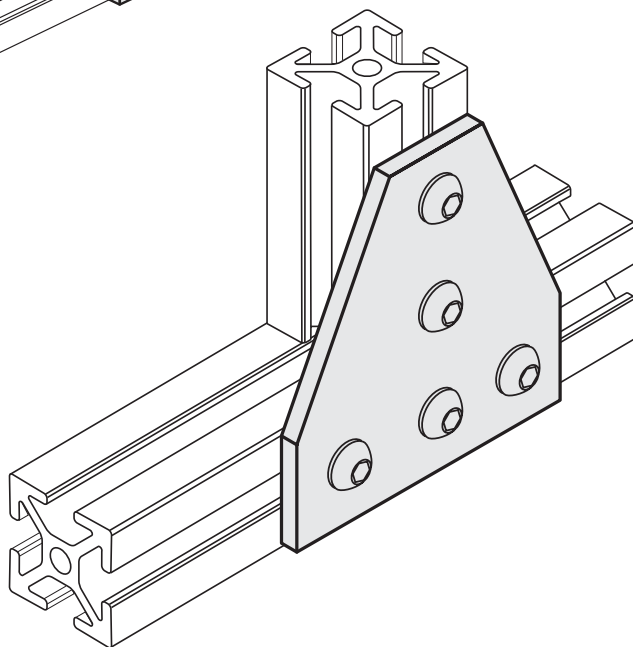
Recommended
Hardware
(4) 11-231 BHCS
(4) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



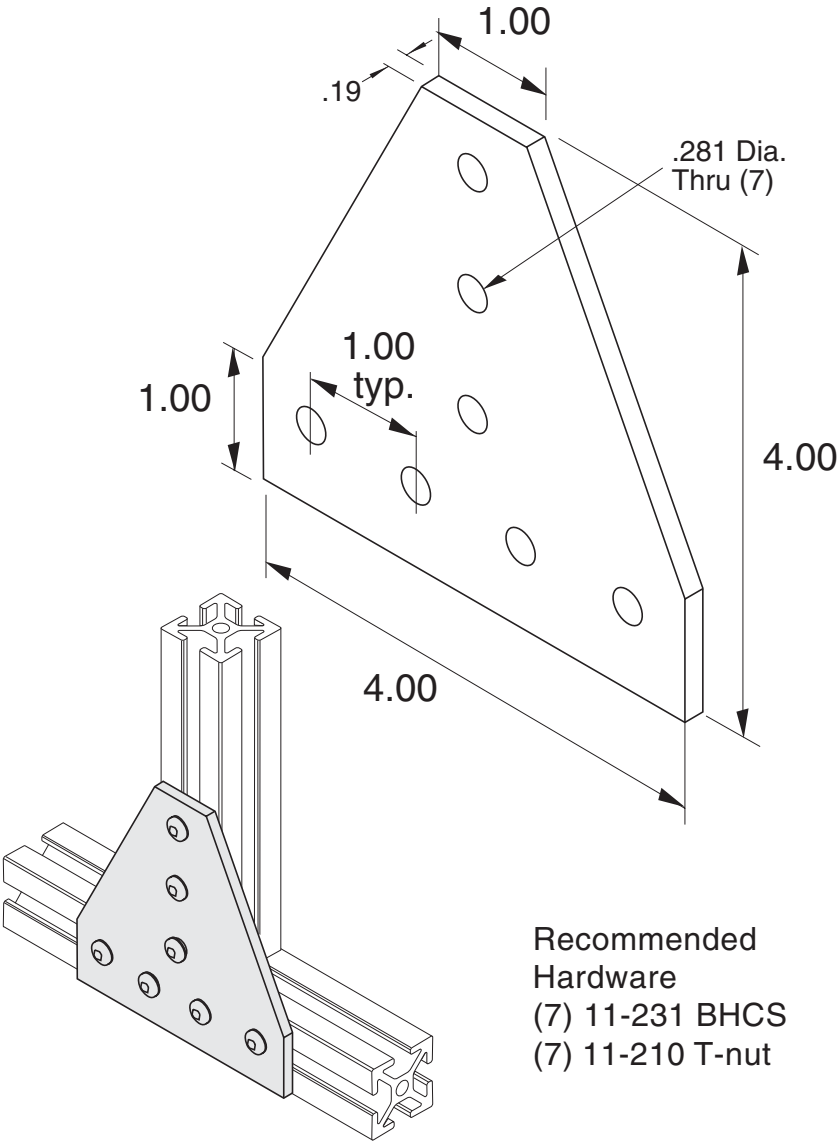
Recommended
Hardware
(5) 11-231 BHCS
(5) 11-210 T-nut



Material - Aluminum
Finish - Clear Anodize

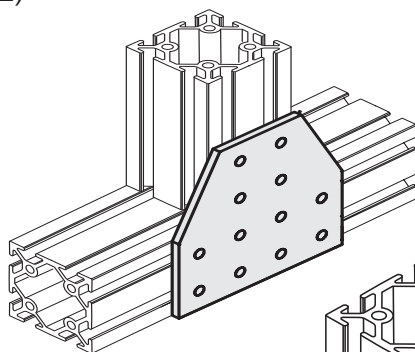
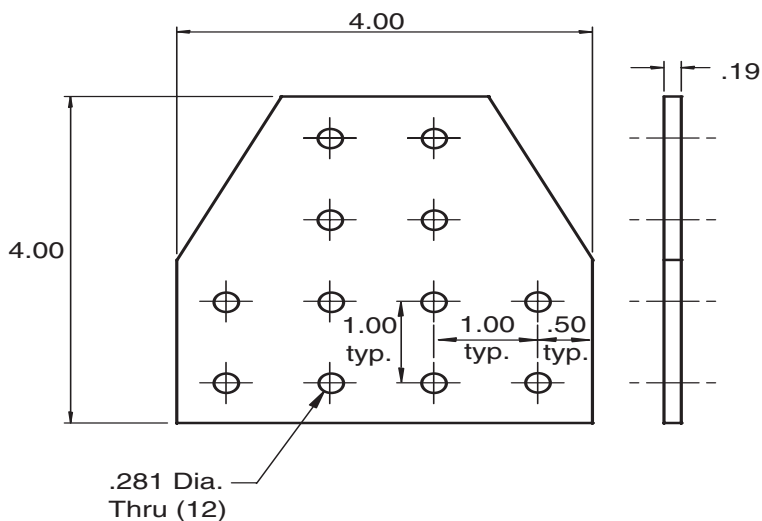
1/4" SLOTS

11-43

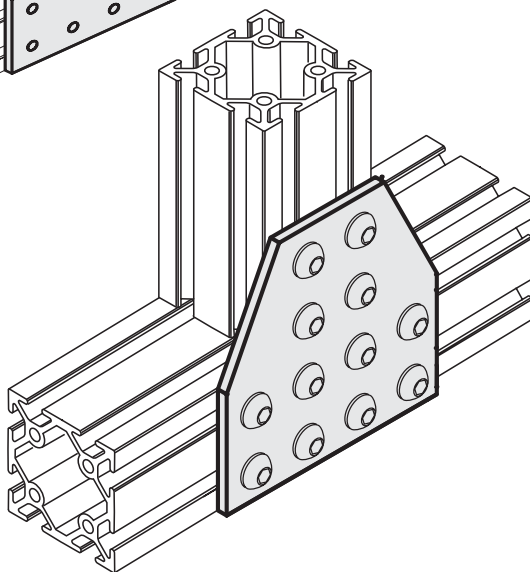


Recommended
Hardware
(7) 11-231 BHCS
(7) 11-210 T-nut

Material - Aluminum
Finish - Clear Anodize



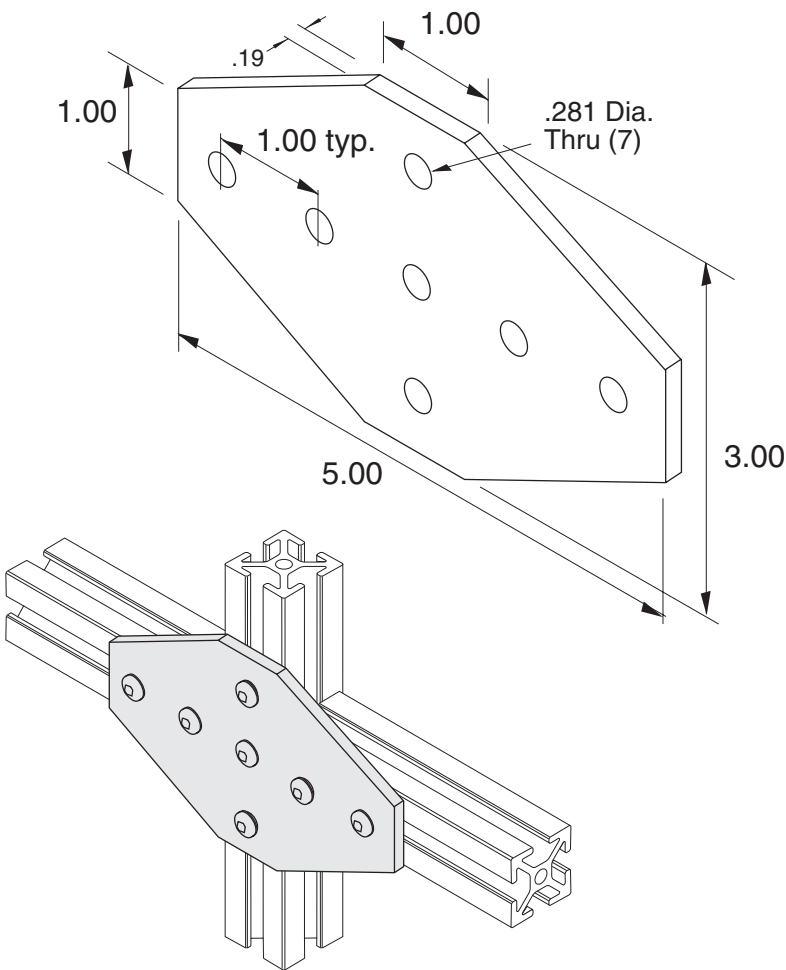
Recommended
Hardware
(12) 11-231 BHCS
(12) 11-210 T-nut



1/4" SLOTS

Material - Aluminum
Finish - Clear Anodize

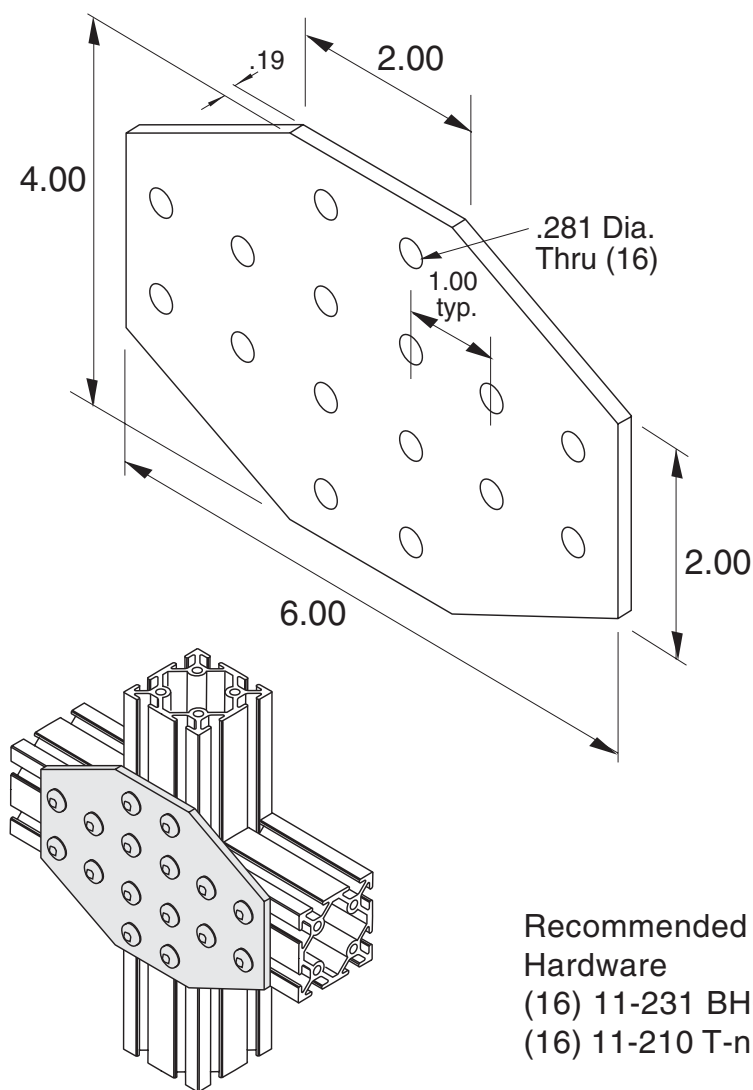
11-51



1/4" SLOTS

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

Material - Aluminum
Finish - Clear Anodize

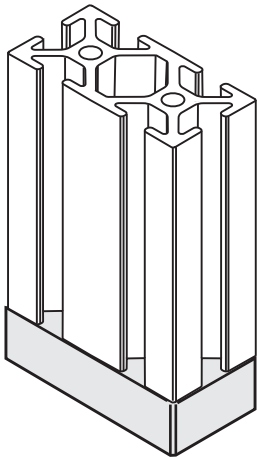


Recommended
Hardware
(16) 11-231 BHCS
(16) 11-210 T-nut

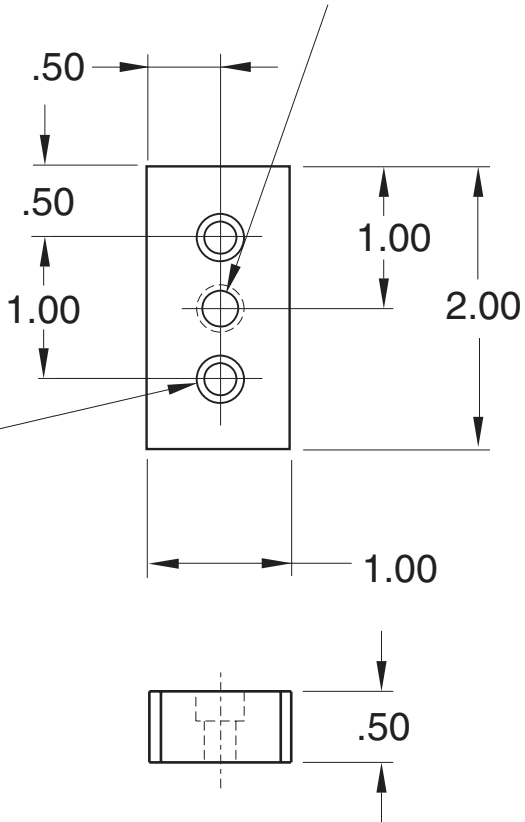
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

11-45



11-45A 3/8-16 UNC thru
11-45B 1/2-13 UNC thru

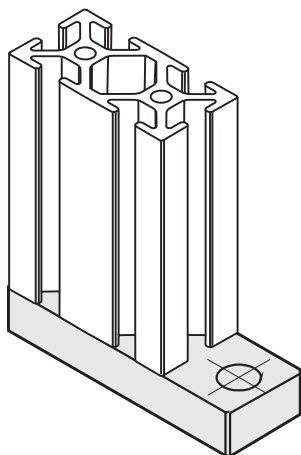


Drilled @ C'Bored
for 1/4-20 SHCS
(2) plc's

Recommended
Hardware
(2) 11-223 SHCS

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

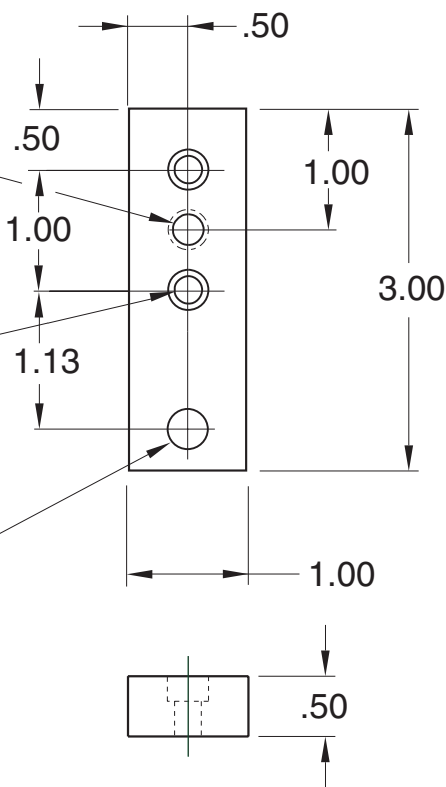


11-48A 3/8-16 UNC thru
11-48B 1/2-13 UNC thru

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

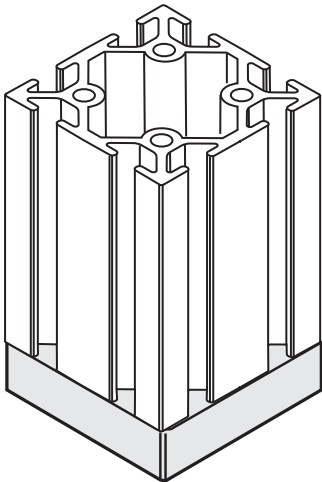
7/16" Dia. thru
for floor anchor

Recommended
Hardware
(2) 11-223 SHCS

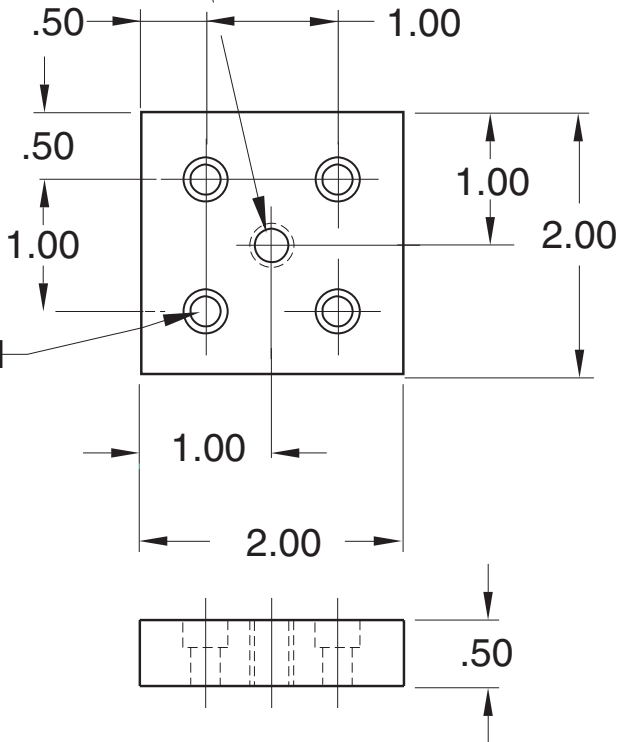


Material - Aluminum
Finish - Clear Anodize

11-46



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

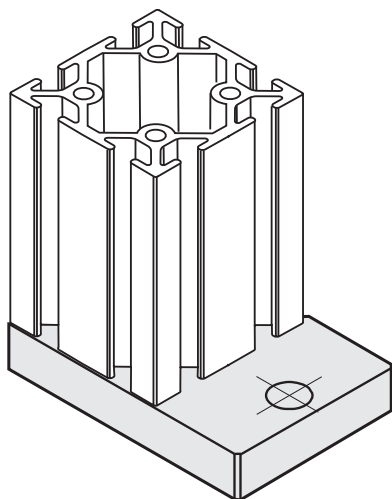


Drilled @ C'Bored
for 1/4-20 SHCS
(4) plc's

1/4" SLOTS

Recommended
Hardware
(4) 11-223 SHCS

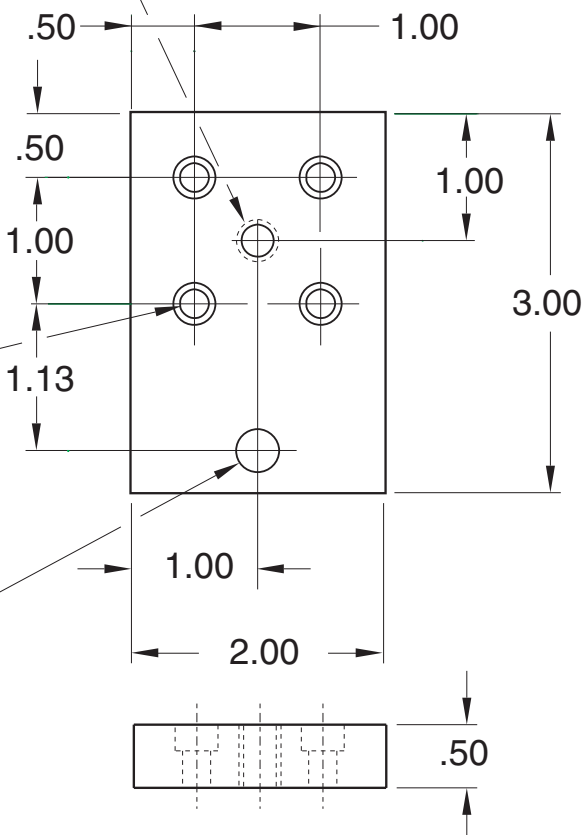
Material - Aluminum
Finish - Clear Anodize



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

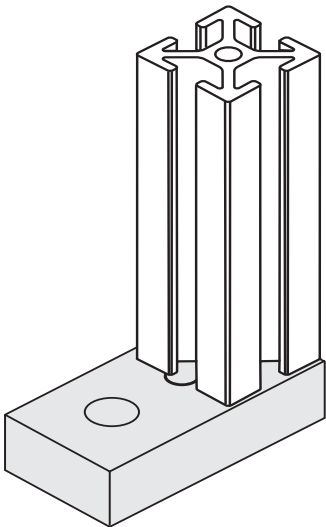
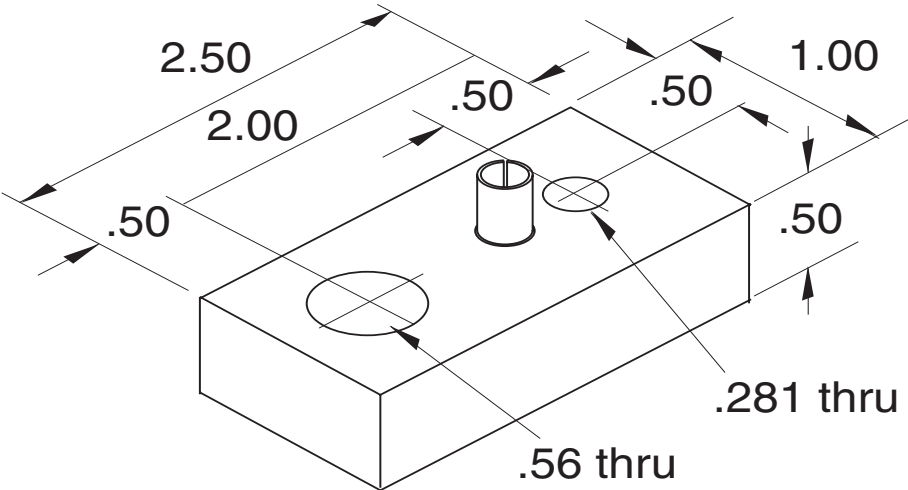


1/4" SLOTS

Recommended
Hardware
(4) 11-223 SHCS

Material - Aluminum
Finish - Clear Anodize

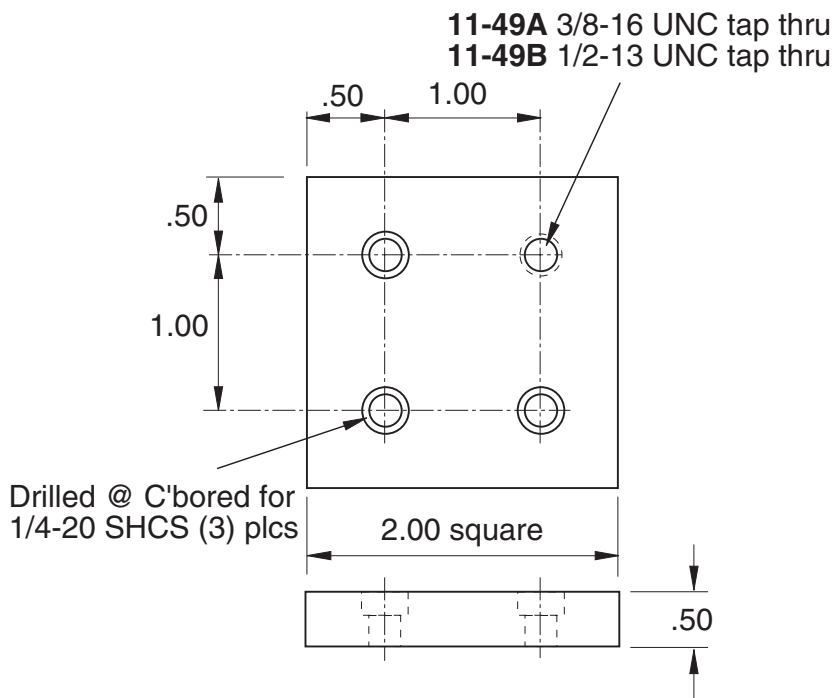
11-66



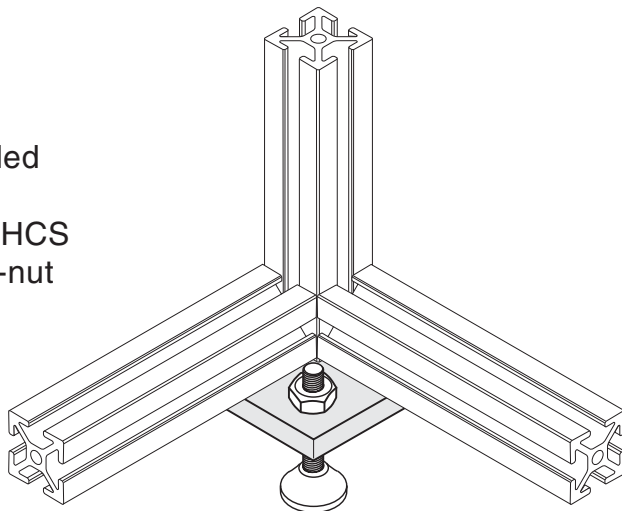
1/4" SLOTS

Recommended
Hardware
(1) 11-223 SHCS

Material - Aluminum
Finish - Clear Anodize



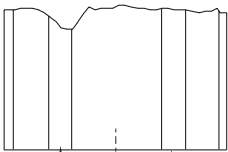
Recommended
 Hardware
 (3) 11-221 SHCS
 (3) 11-220 T-nut



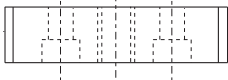
Material - Aluminum
 Finish - Clear Anodize

1/4" SLOTS

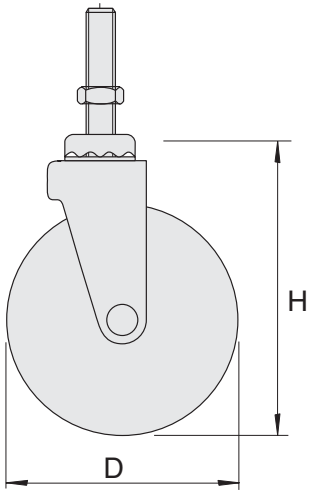
| |
|--------------|
| EC-S1 |
| EC-S2 |
| EC-S3 |



EX-12



11-45A or
11-45B



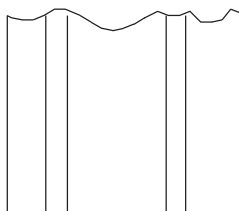
| |
|--------------|
| EC-S1 |
| EC-S2 |
| EC-S3 |

Note: Wheel material is hard plastic

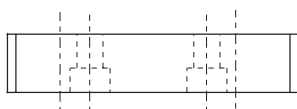
| Part no. | D | H | Stem | Brake | Max. Load |
|--------------|---|---------------------------------|--|-------|--------------|
| EC-S1 | 2 | 2 ¹⁷ / ₃₂ | 3/8-16 x 1 ¹ / ₂ | Yes | 80 lbs |
| EC-S2 | 3 | 3 ¹ / ₂ | 3/8-16 x 1 ¹ / ₂ | Yes | 90 lbs |
| EC-S3 | 4 | 4 ¹¹ / ₁₆ | 1/2-13 x 1 ¹ / ₂ | Yes | 115 lbs |

11-110
11-111
11-112

EX-22 uses caster plate 11-50



EX-22

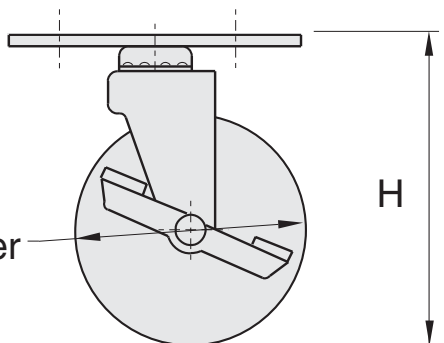


11-50

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

Recommended Hardware
(2) EF-12-.5

A Dia. Caster



1/4" SLOTS

Note: Wheel material is hard plastic

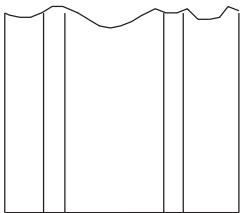
| Part no. | A | H | Brake | Max. Load |
|----------|----|--------|-------|-----------|
| 11-110 | 3" | 3 3/4" | Yes | 210 lbs. |
| 11-111 | 4" | 4 5/8" | Yes | 255 lbs. |
| 11-112 | 5" | 5 5/8" | Yes | 280 lbs. |

Fixed Plate Caster



| |
|--------|
| 11-120 |
| 11-121 |
| 11-122 |

EX-22 uses caster plate 11-50



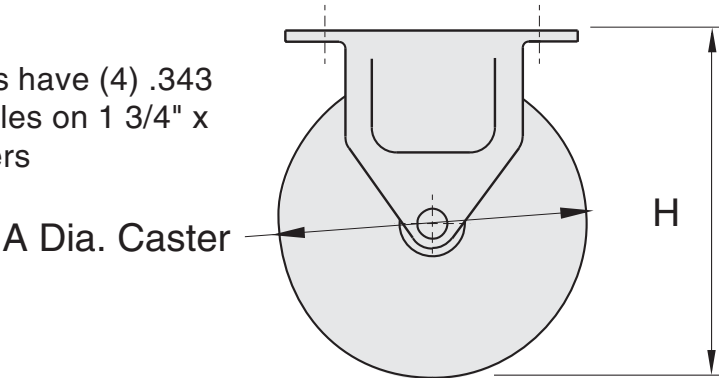
EX-22



11-50

Recommended
Hardware
(4) EF-12.5

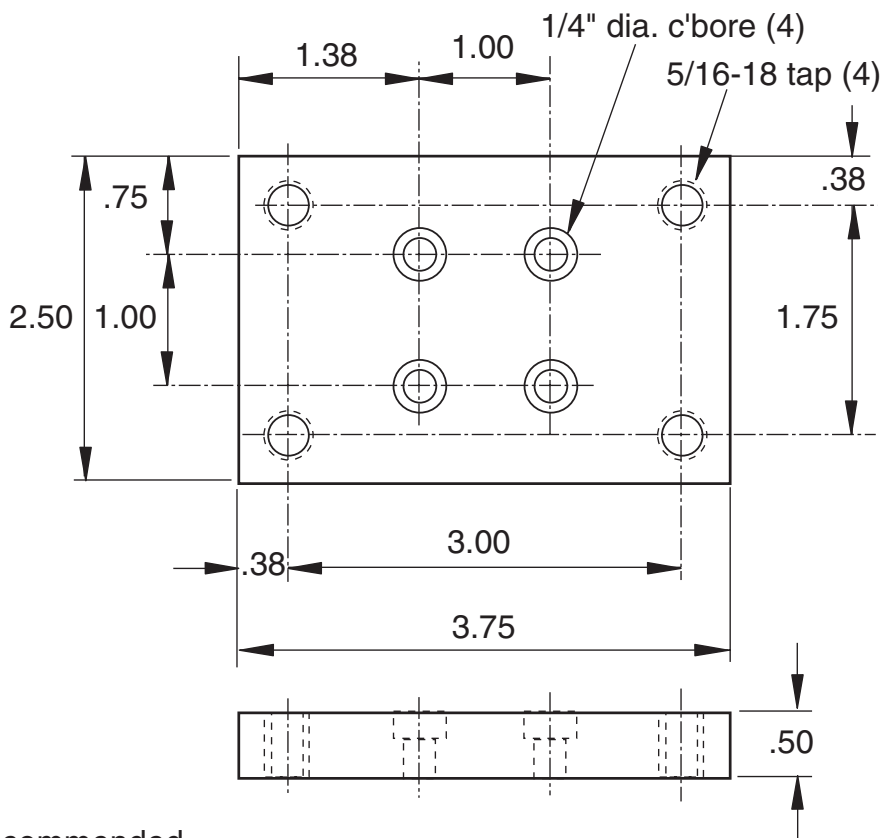
The casters have (4) .343
dia mtg. holes on 1 3/4" x
3.00" centers



Note: Wheel material is hard plastic

| Part no. | A | H | Brake | Max. Load |
|----------|----|--------|-------|-----------|
| 11-120 | 3" | 3 3/4" | No | 210 lbs. |
| 11-121 | 4" | 4 5/8" | No | 255 lbs. |
| 11-122 | 5" | 5 5/8" | No | 280 lbs. |

1/4" SLOTS



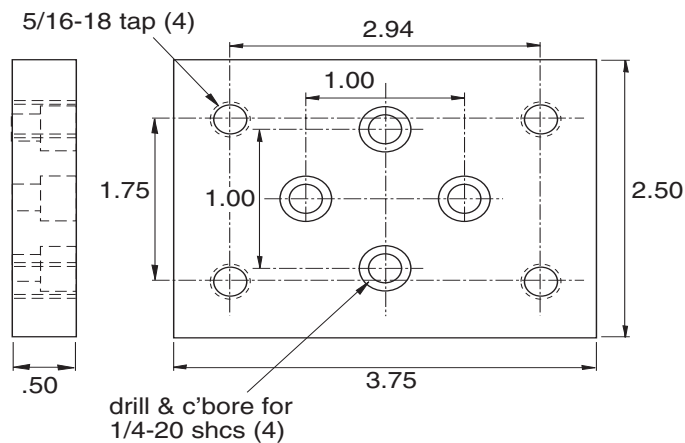
Recommended
Hardware
(4) 11-221 SHCS
or
(4) 11-223 SHCS
(4) 11-210 T-nut

For Casters, See Pages 399 & 400

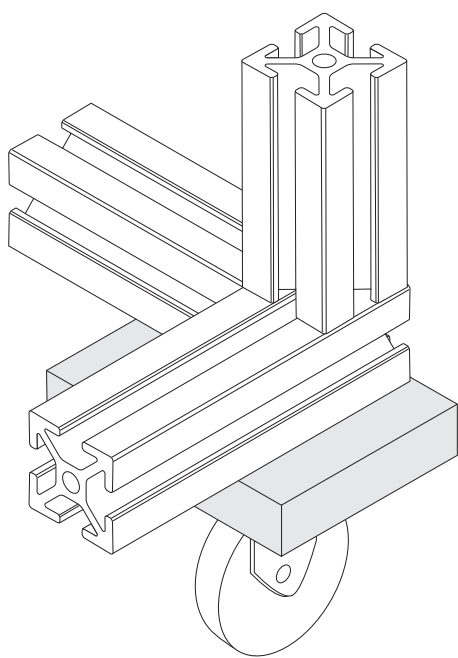
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

11-55

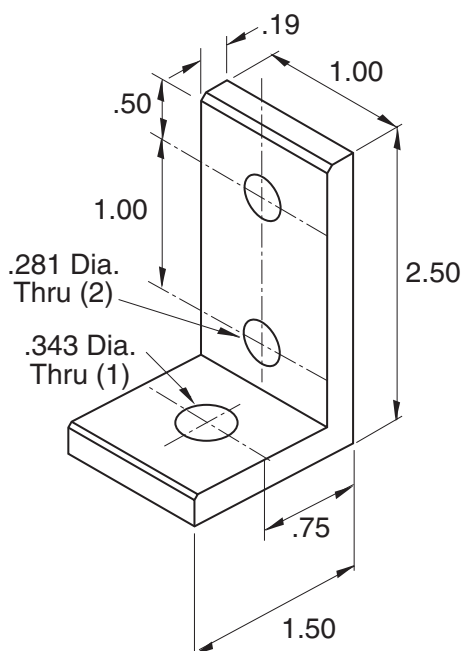


Recommended
Hardware
(2) 11-221 SHCS
(2) 11-210 T-nut



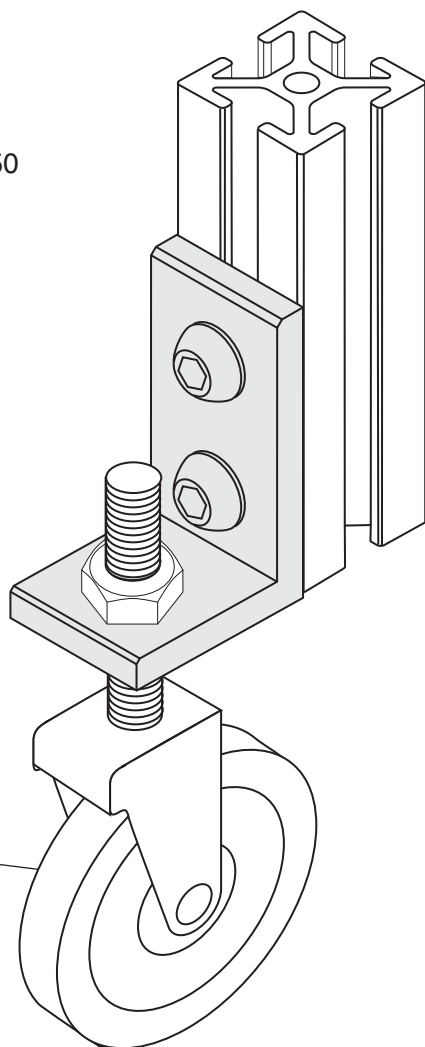
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



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

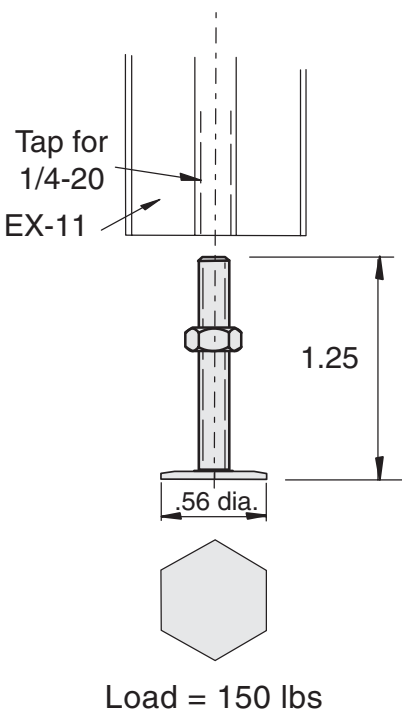
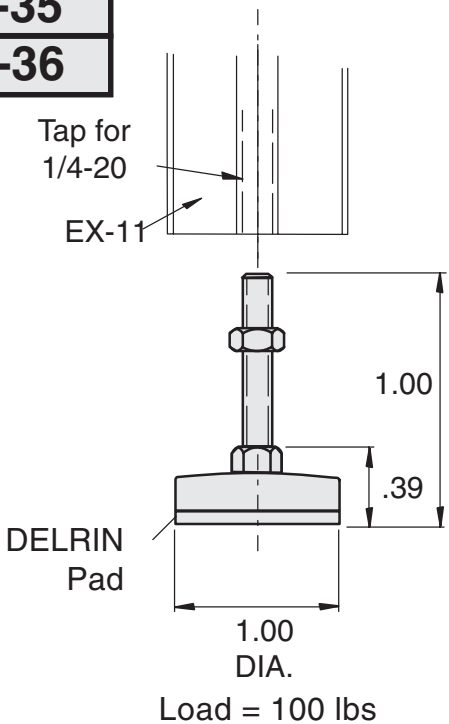
EC-S1
 EC-S2



1/4" SLOTS

Material - Steel
 Finish - Black Powder Coat

| |
|--------------|
| 11-35 |
| 11-36 |



11-35

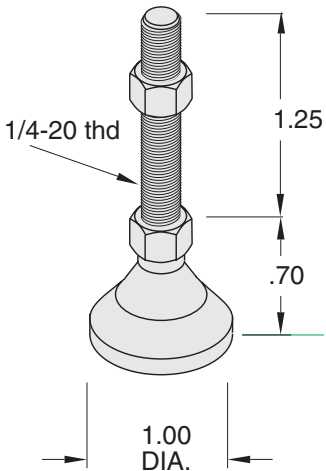
11-36

Material - Steel

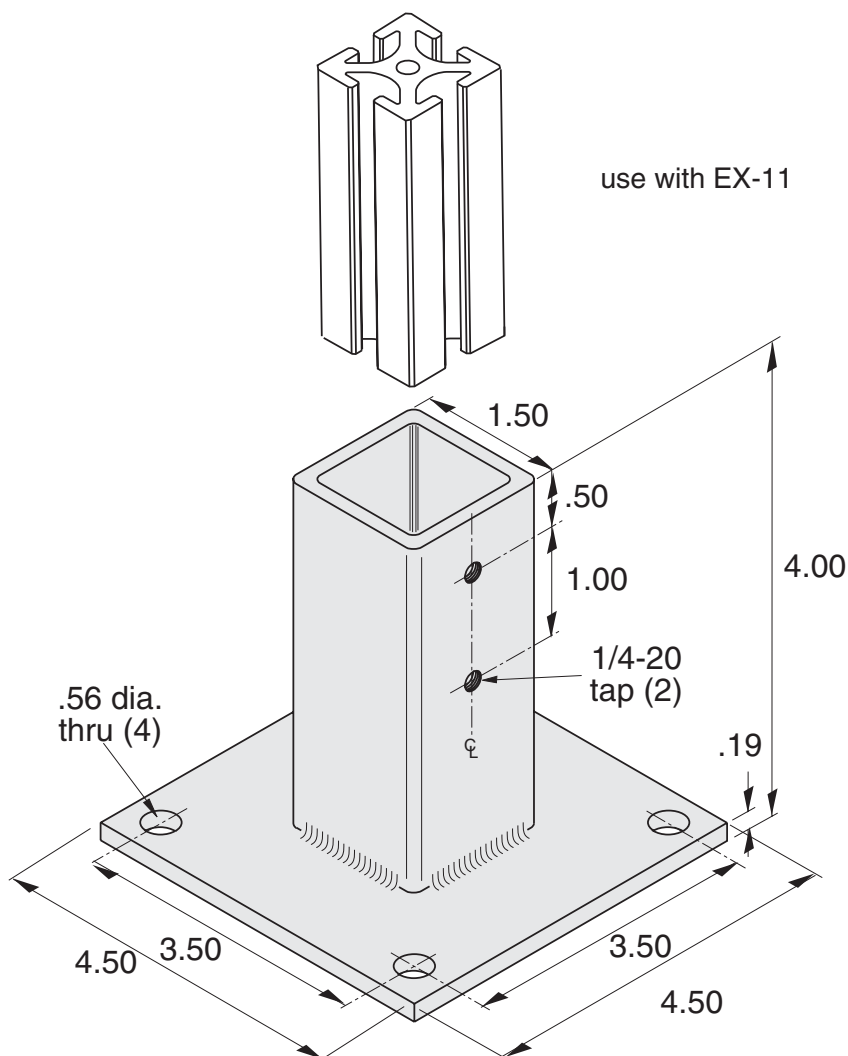
1/4" SLOTS

11-52

Deluxe Leg



Load = 2000 lbs

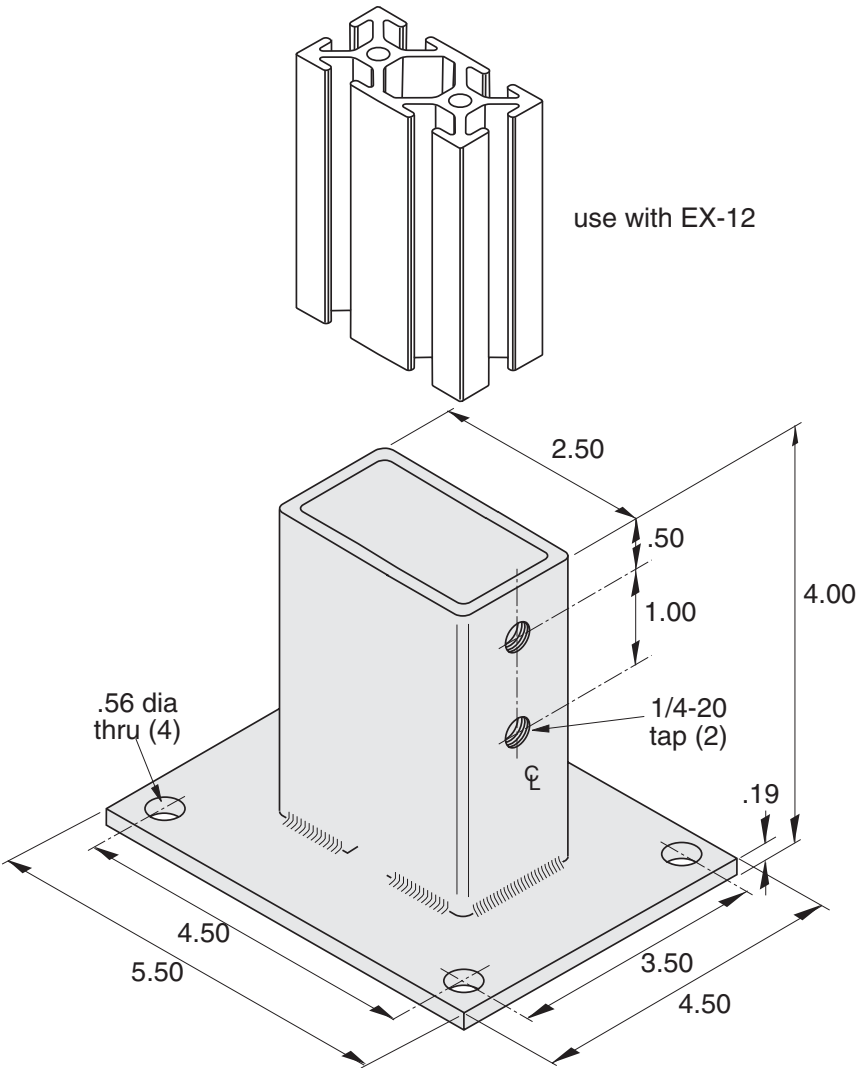


Recommended
Hardware
(2) 11-223 SHCS

Material - Steel
Finish - Black Powder Coat

1/4" SLOTS

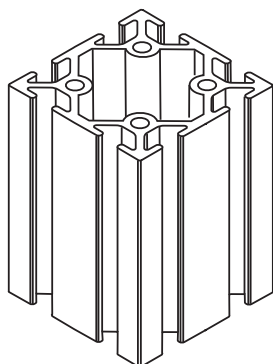
11-71



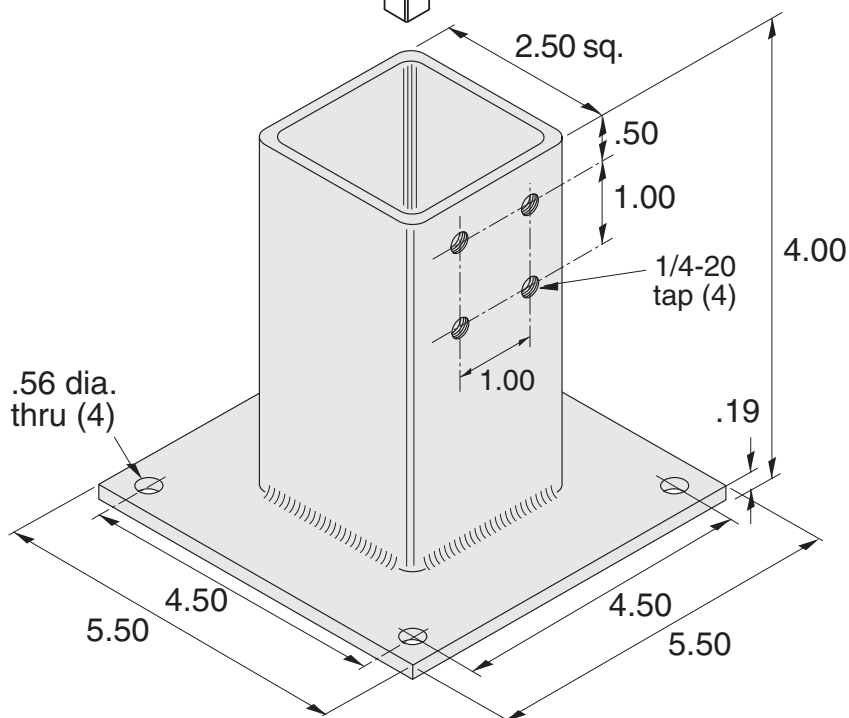
1/4" SLOTS

Recommended
Hardware
(2) 11-223 SHCS

Material - Steel
Finish - Black Powder Coat



use with
EX-22



Recommended
Hardware
(4) 11-223 SHCS

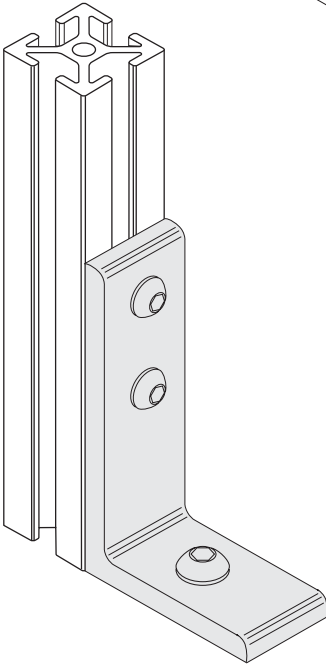
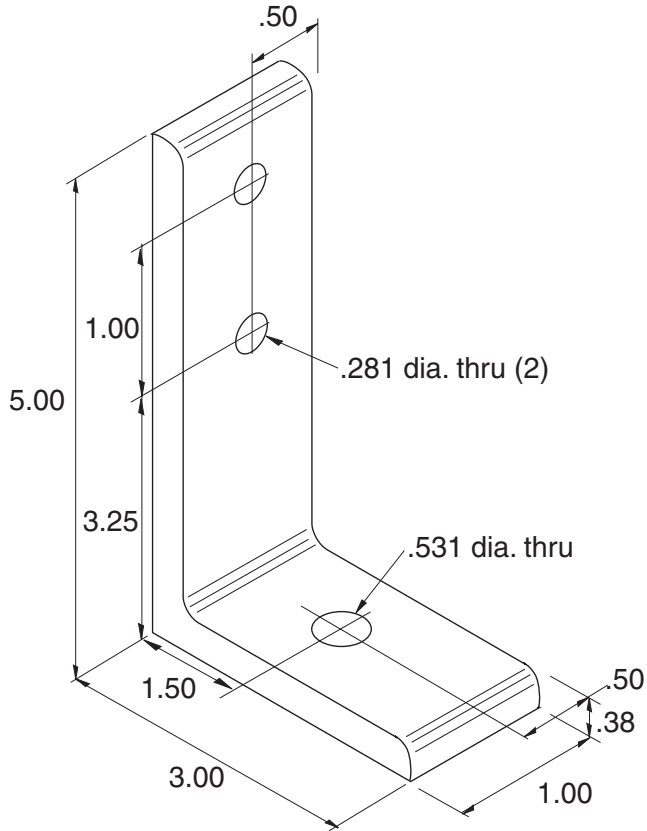
Material - Steel
Finish - Black Powder Coat

1/4" SLOTS

Economy Aluminum Floor Mount



11-73



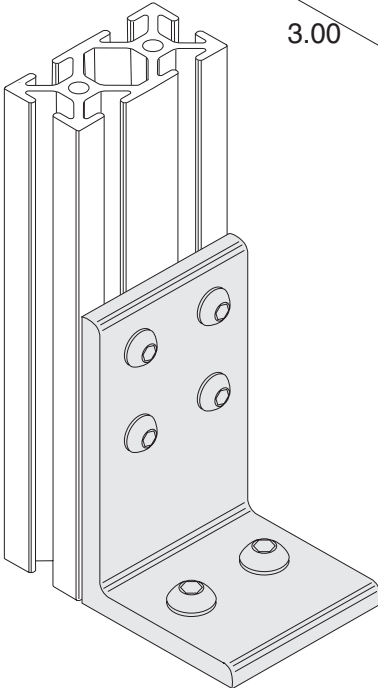
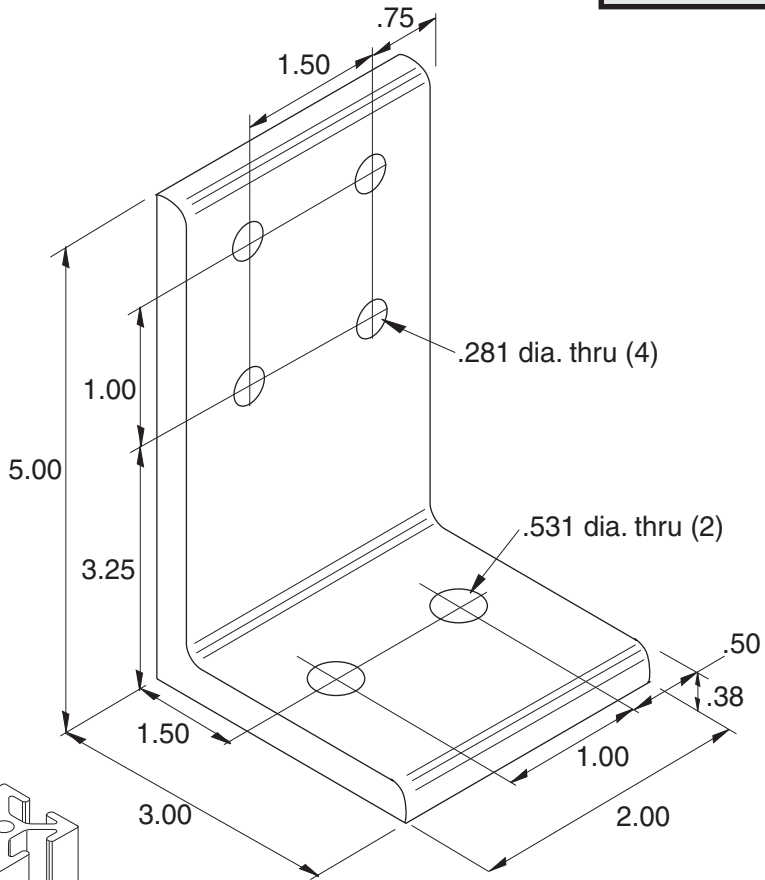
1/4" SLOTS

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

Material - Aluminum
Finish - Clear Anodize



Economy Aluminum Floor Mount

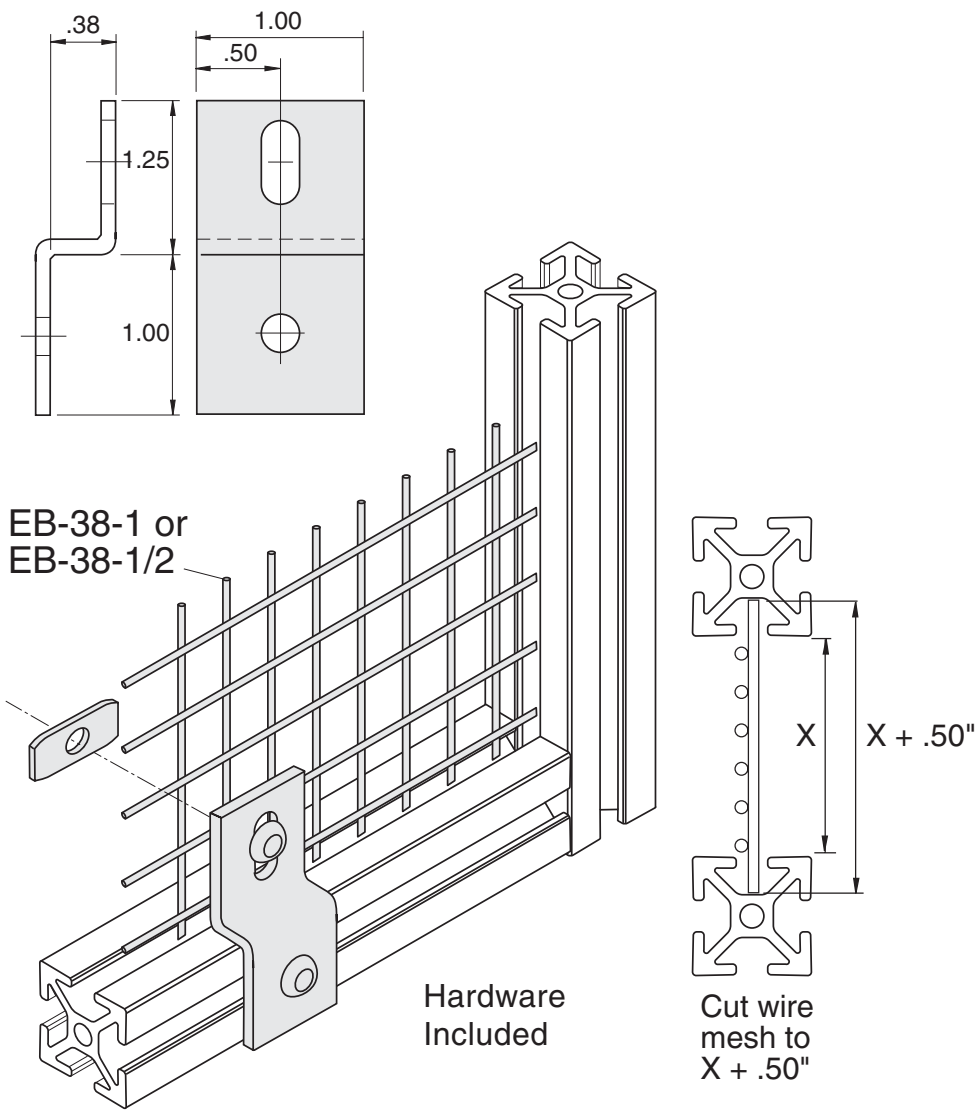
11-74


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

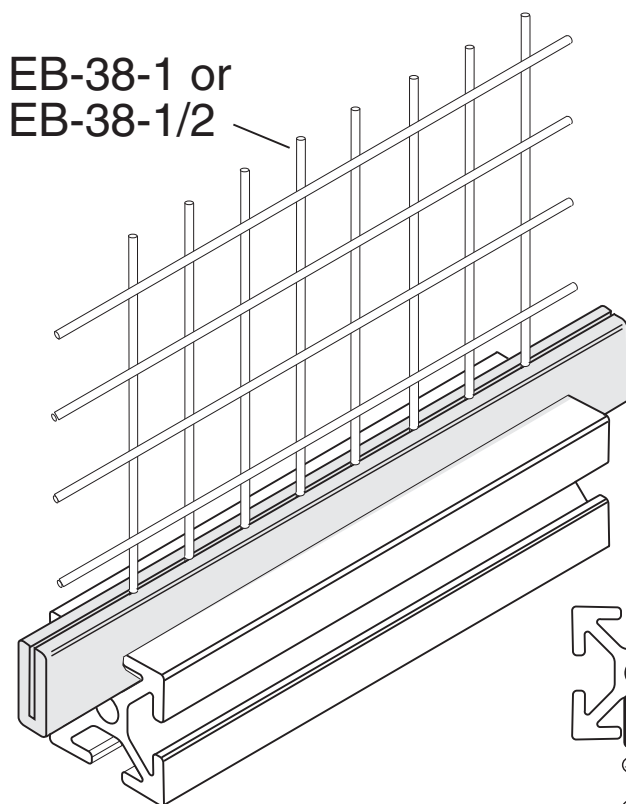
**Material - Aluminum
Finish - Clear Anodize**

1/4" SLOTS

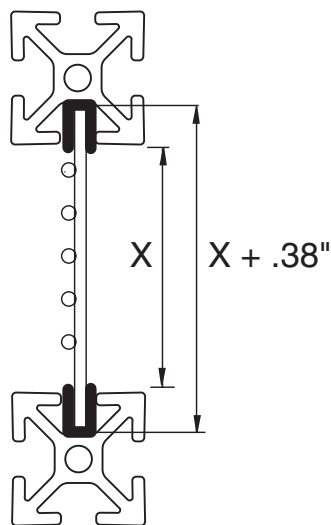
11-30



Material - Steel
Finish -Black Powder Coat



Note: Provides snug fit



Cut wire
mesh to
 $X + .38"$

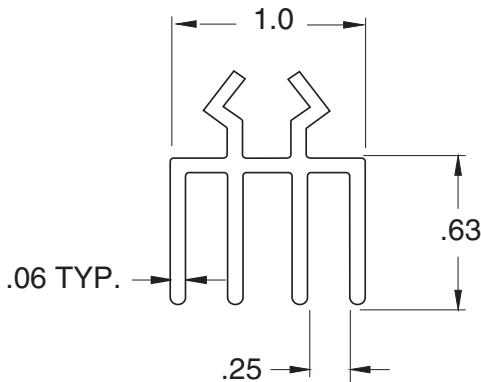
1/4" SLOTS

Door Slide (3 track)



| | |
|--------------|-----------------------------------|
| 11-32 | Upper Door Slide (3 track) |
| 11-33 | Lower Door Slide (3 track) |

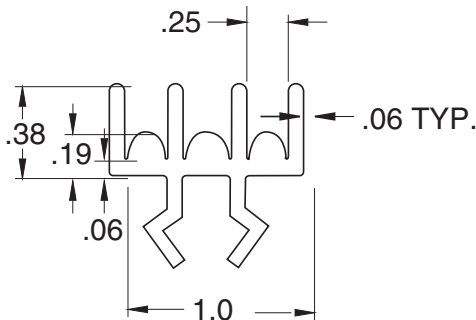
11-32



Material - Rigid PVC

Sold in 6 foot lengths

11-33



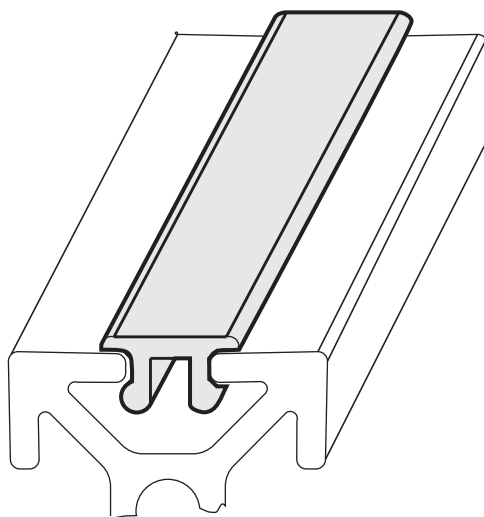
cut panels
to X - 1/2"



Cut Panels to
X - 1/2"

Sold in 6 foot lengths

Material - Rigid PVC

11-245
11-246
11-247
11-244

Part No.

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

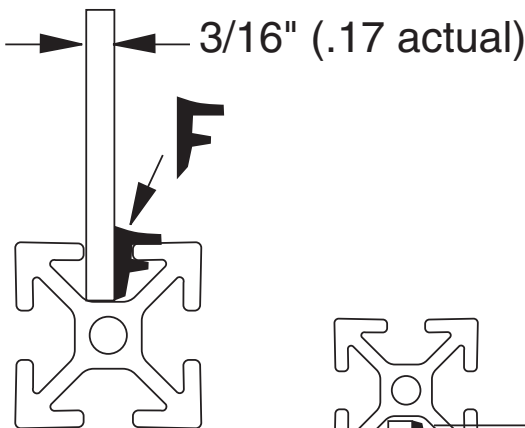


Sold in 6 ft.lengths

Material - Rigid PVC

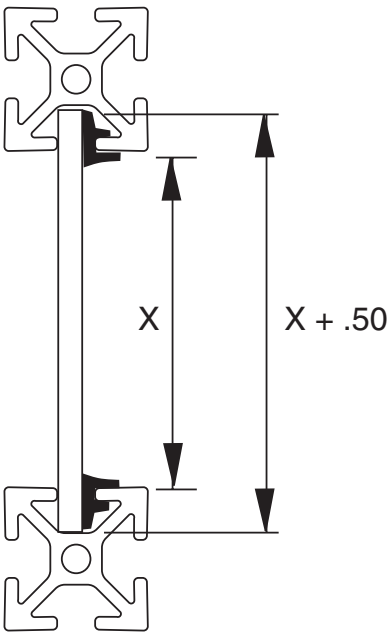
1/4" SLOTS

11-295



EX-11, EX-12, EX-22

Note: Install panel, then gasket

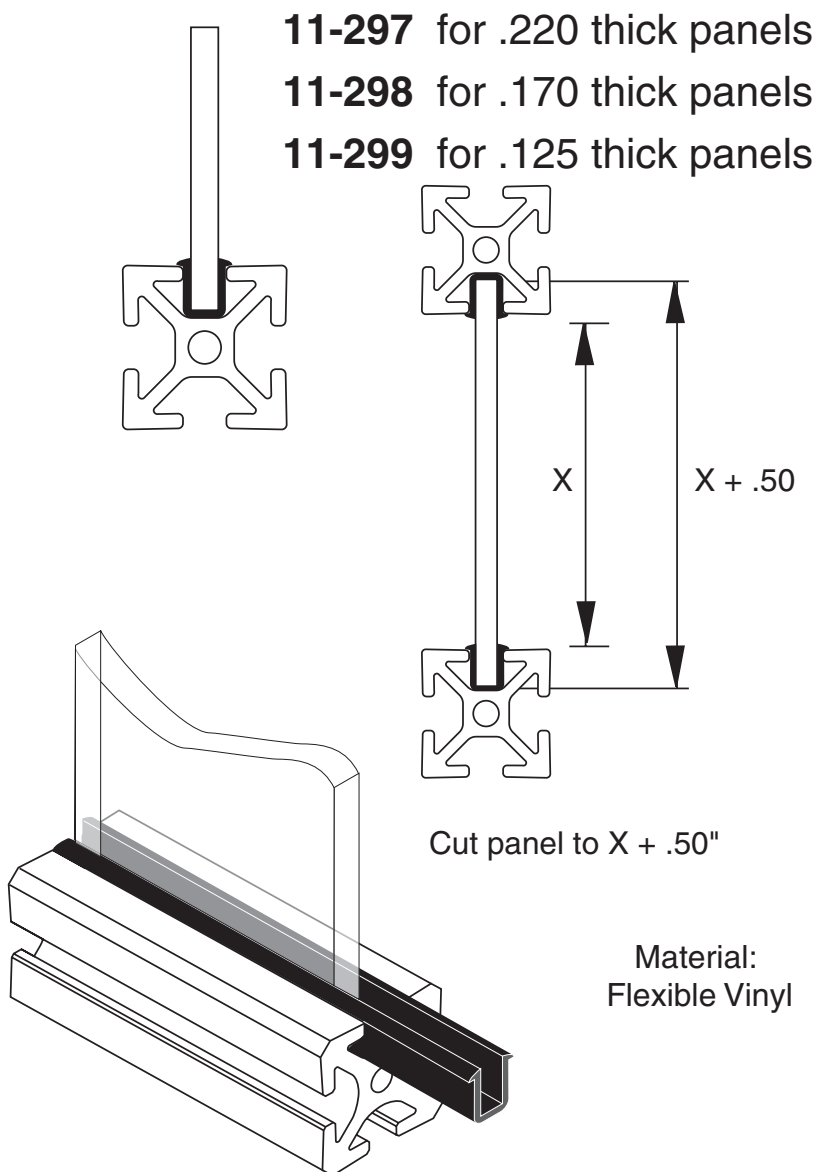


Cut panel to $X + .50$ "

Material - Black Flexible PVC

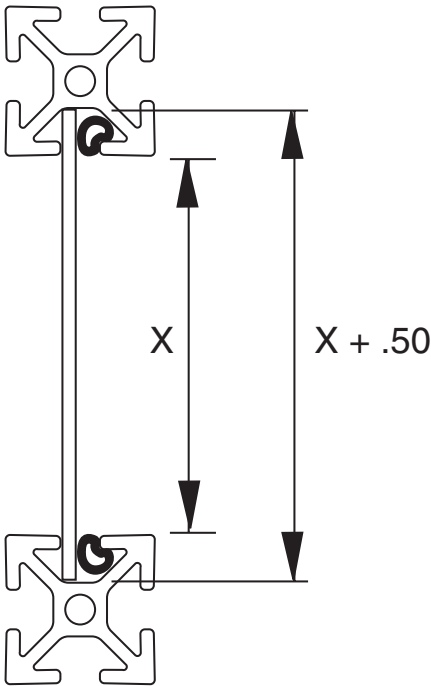
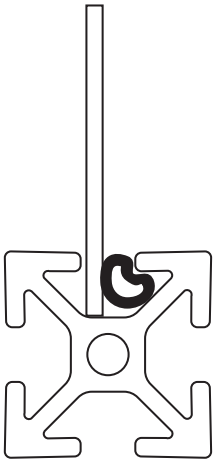
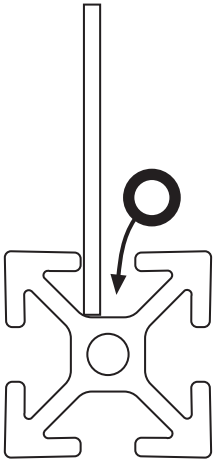
1/4" SLOTS

| | |
|-----------------------|---------------|
| for .220 thick panels | 11-297 |
| for .170 thick panels | 11-298 |
| for .125 thick panels | 11-299 |



1/4" SLOTS

11-296



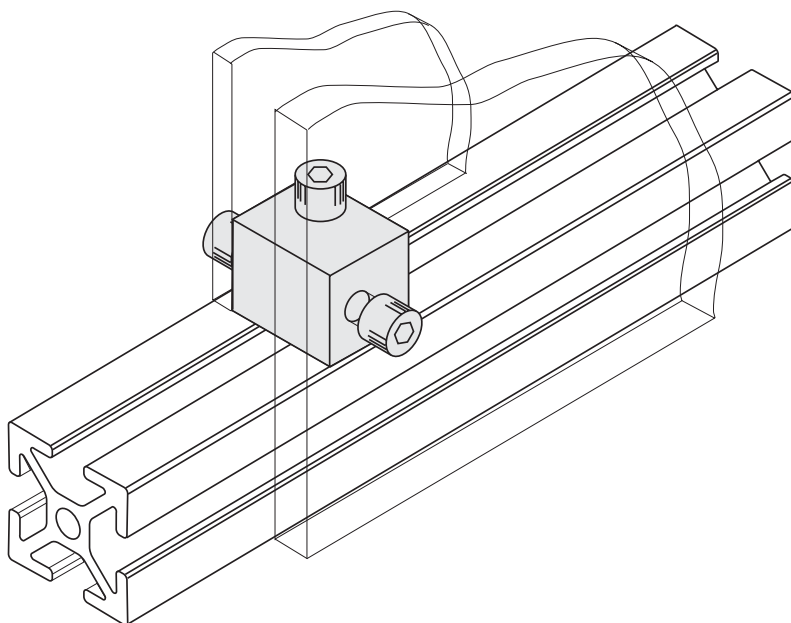
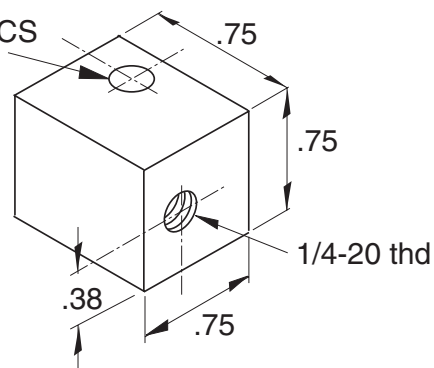
Cut panel to $X + .50$ "

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

Material - Rubber

1/4" SLOTS

Clearance for
1/4-20 x 1.0 SHCS



1/4" SLOTS

Requires

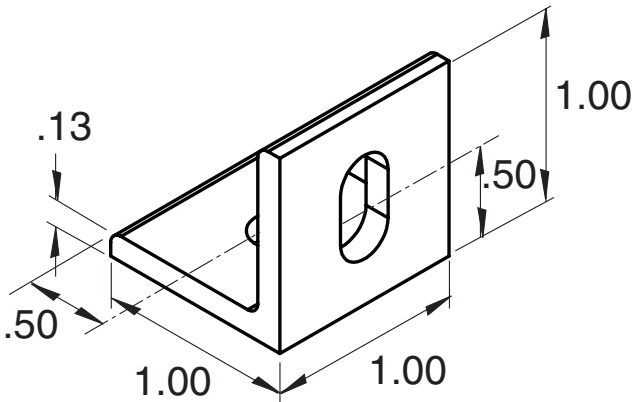
- (1) 11-224 SHCS
- (1) 11-210 T-nut
- (1) 11-231 BHCS

Material - Aluminum
Finish - Clear Anodize

Panel Mounting Bracket

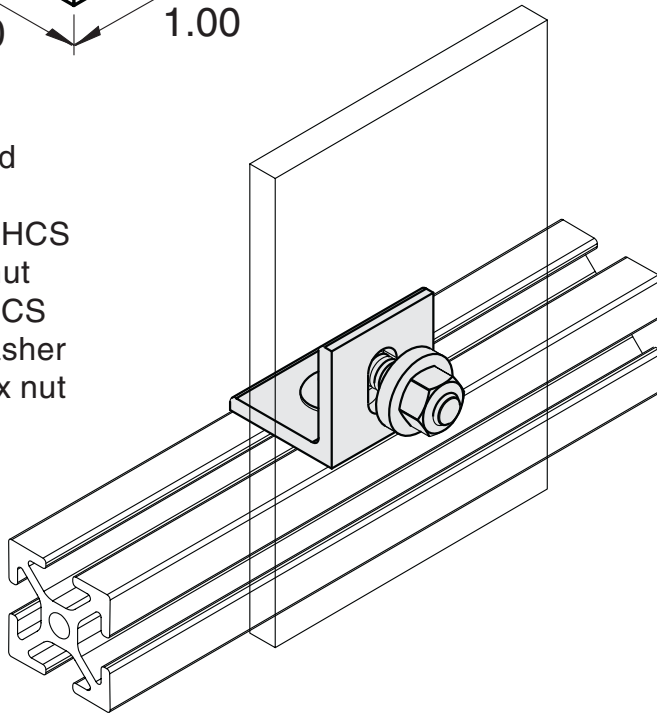


11-275

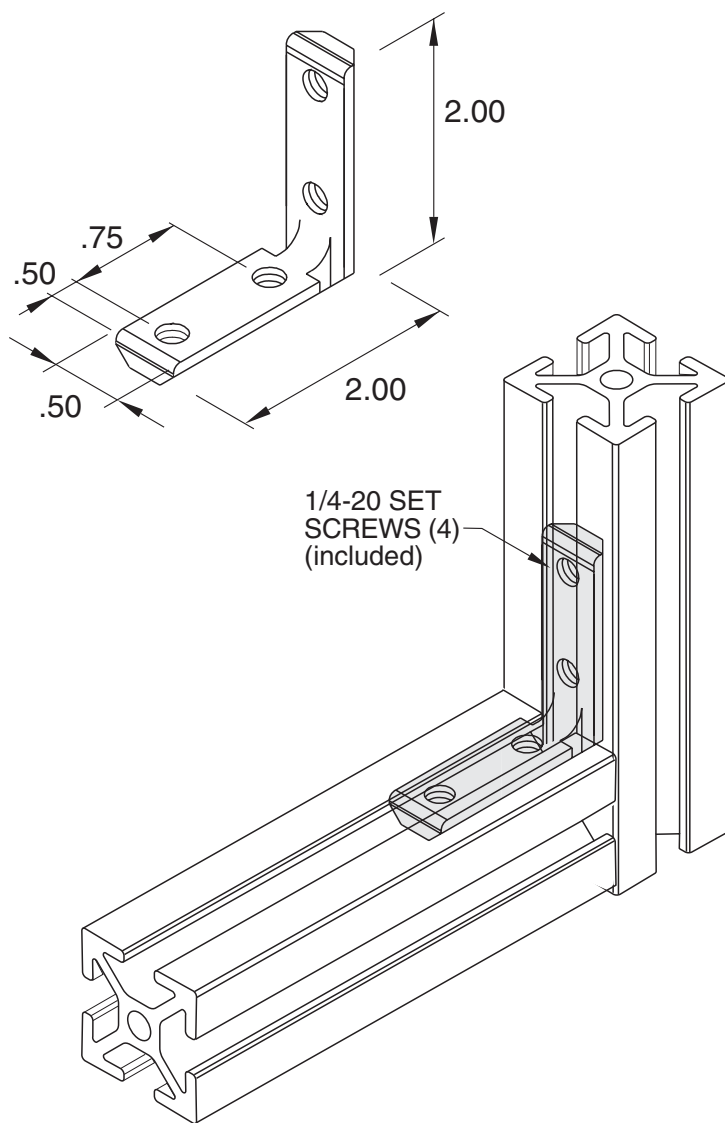


Recommended Hardware

- (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



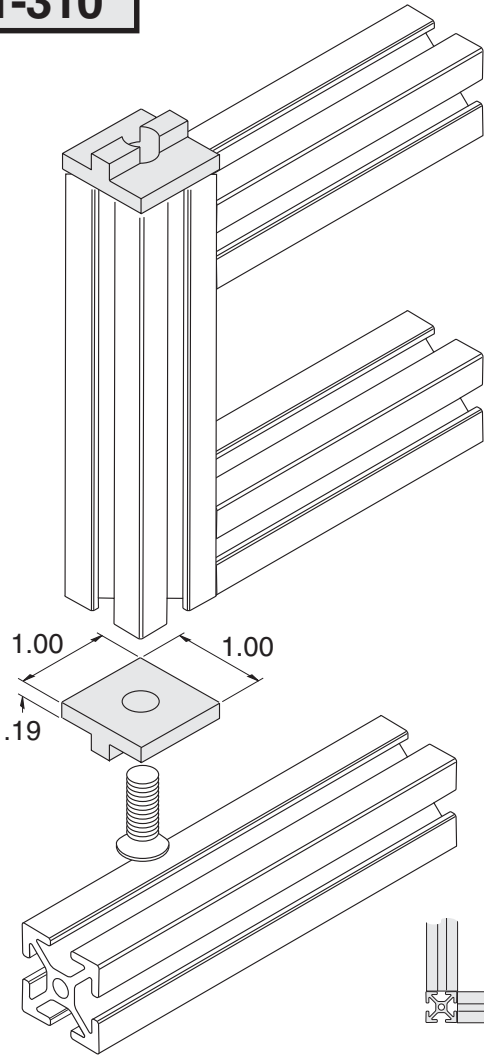
1/4" SLOTS

Material - Steel
Finish - Zinc Plated

Bi-fold Door Pad

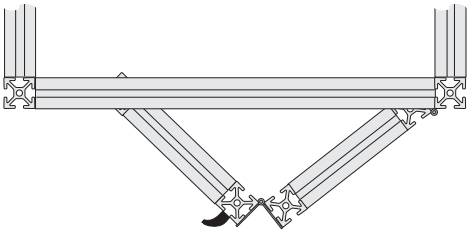


11-310



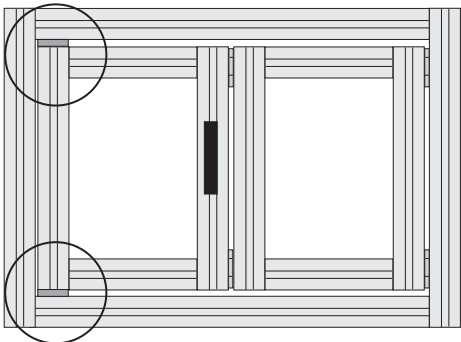
Use on 1" x 1" sq. extrusions
with 1/4" wide slots

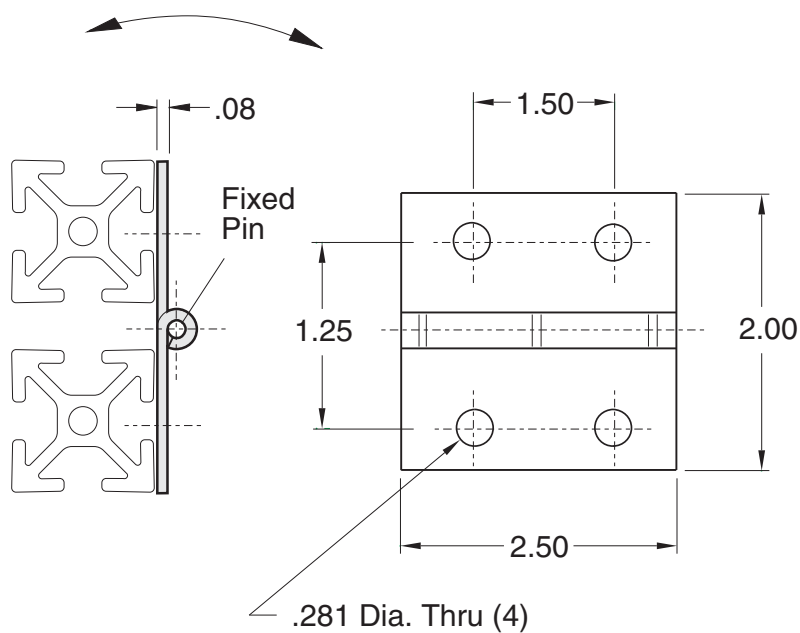
1/4" SLOTS



Hardware Included

Pad material is
DELRIN



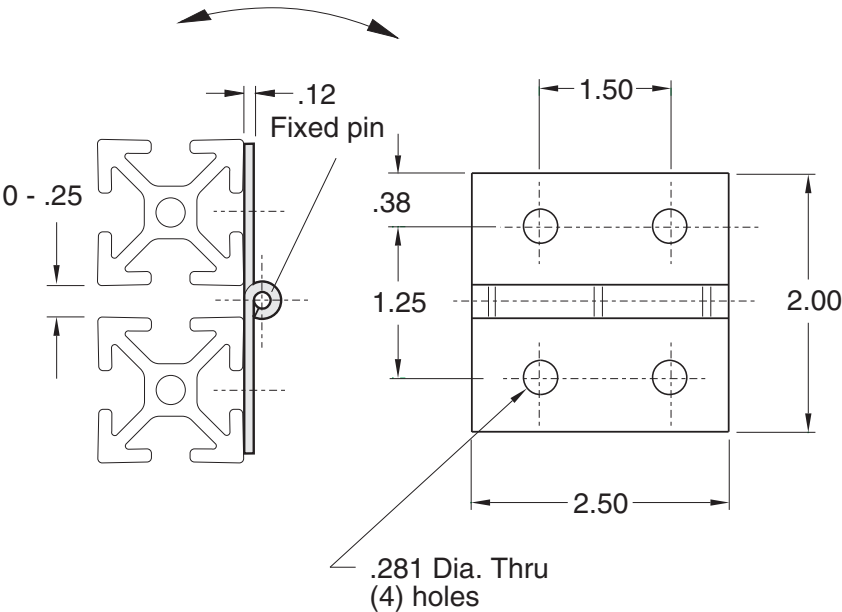


Hardware
Included

Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

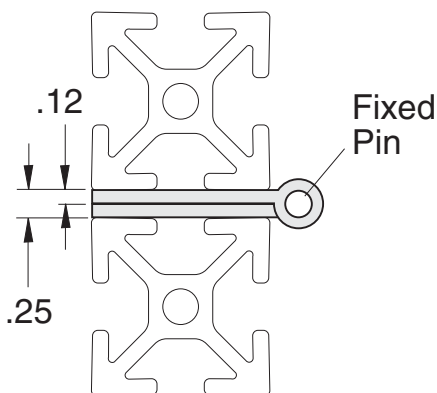
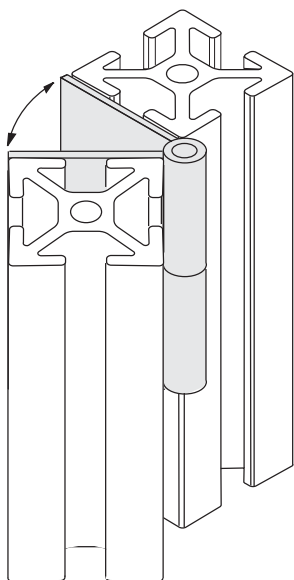
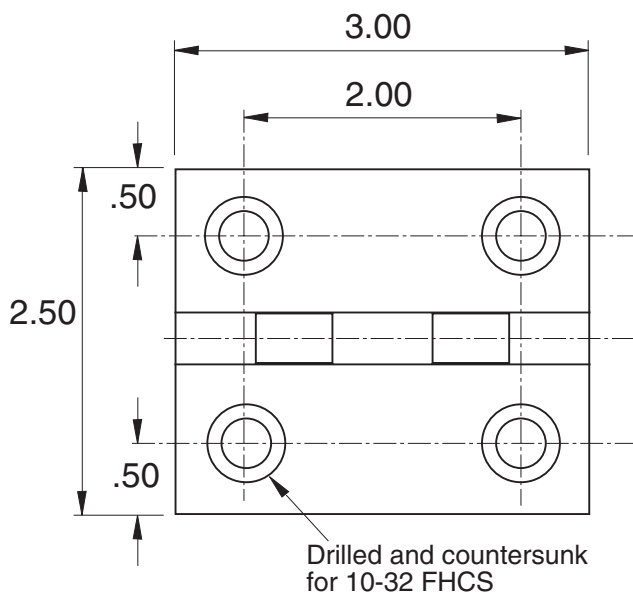
11-287



Hardware
Included

Material Steel
Finish Black Powder Coat

1/4" SLOTS

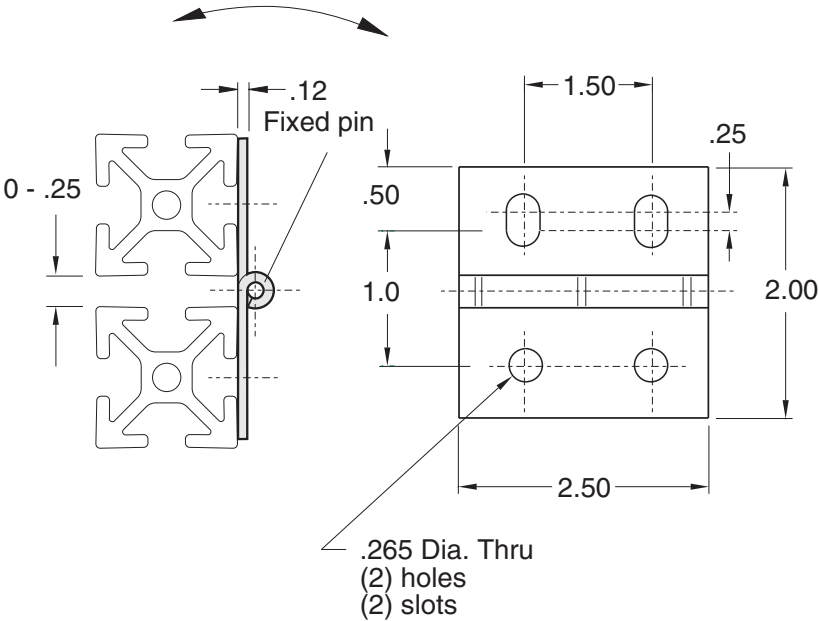


**Hardware
Included**

Material - Steel
Finish - Black Powder Coat

1/4" SLOTS

11-279



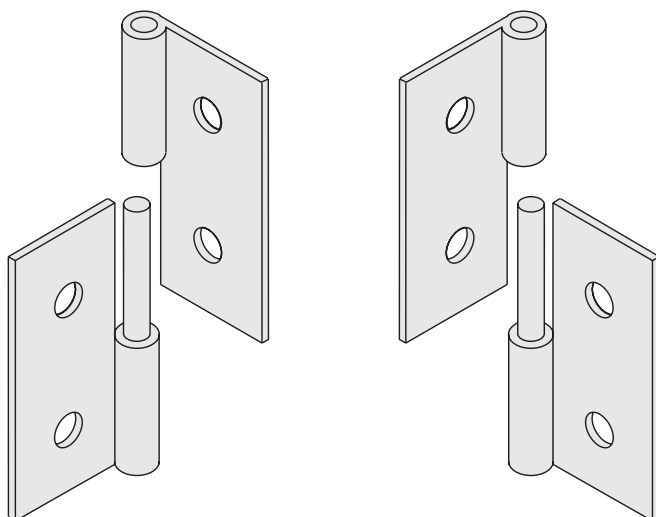
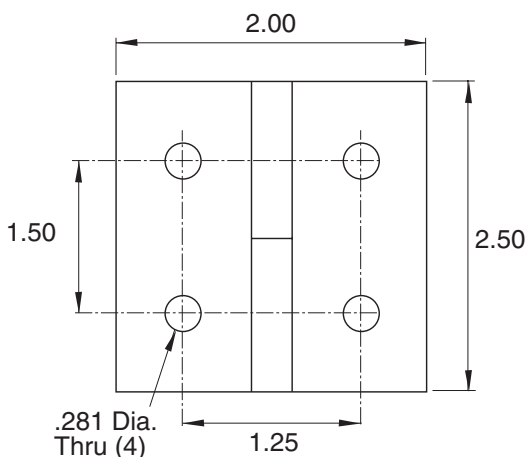
Hardware
Included

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



1/4" SLOTS

11-253

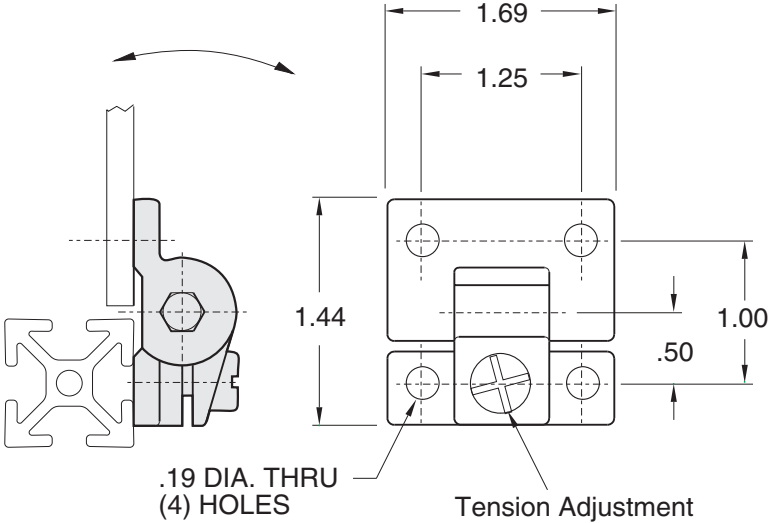
Left Hand

11-254

Right Hand

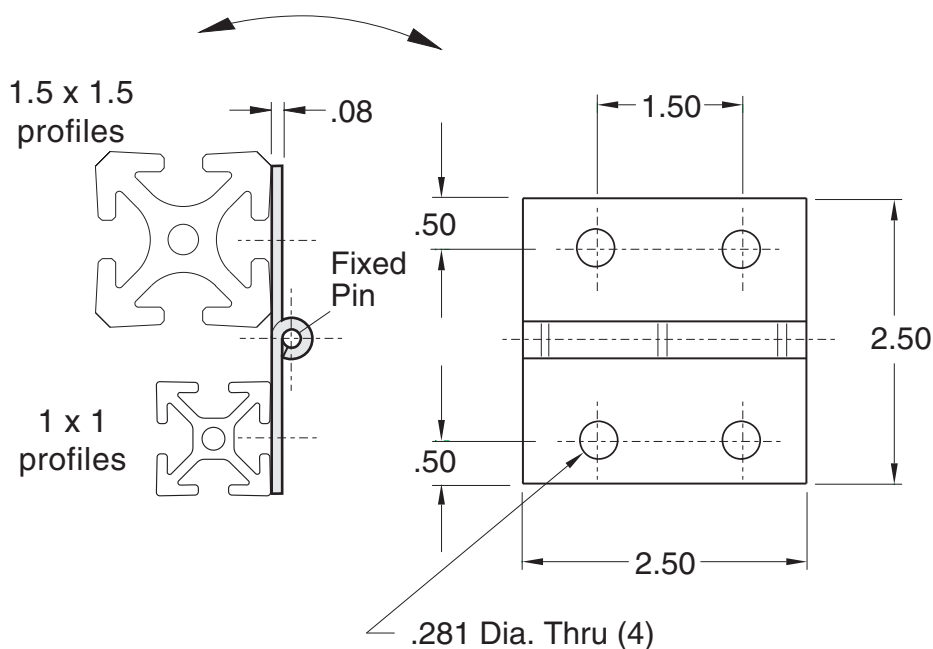
Material - Steel
Finish - Zinc Plated

11-255



Hardware Included

1/4" SLOTS



Hardware Included

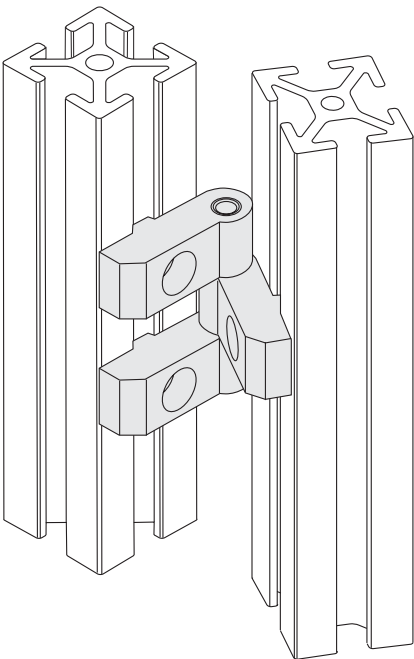
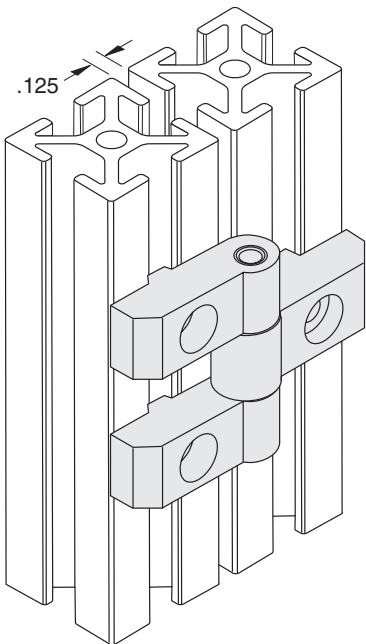
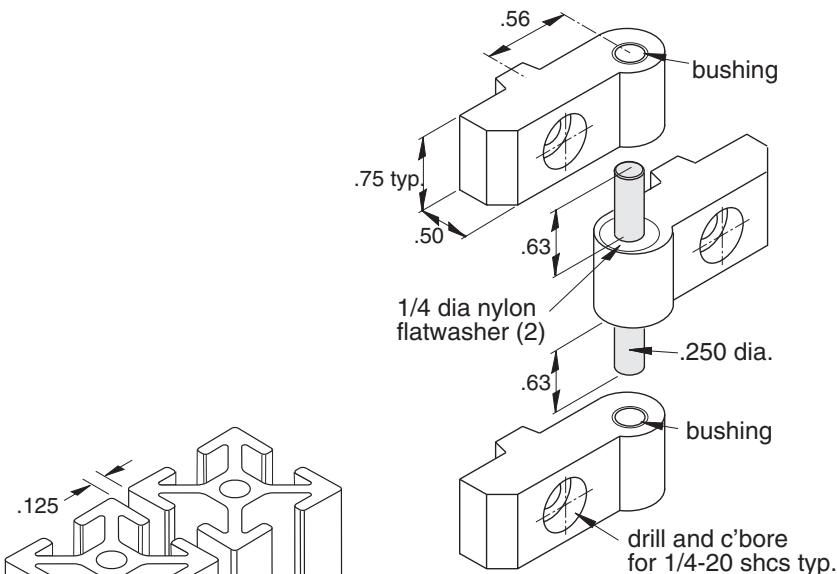
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Heavy Duty Hinge



11-400



Hardware Included
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



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

One Set w/Long & Short Pin Assemblies

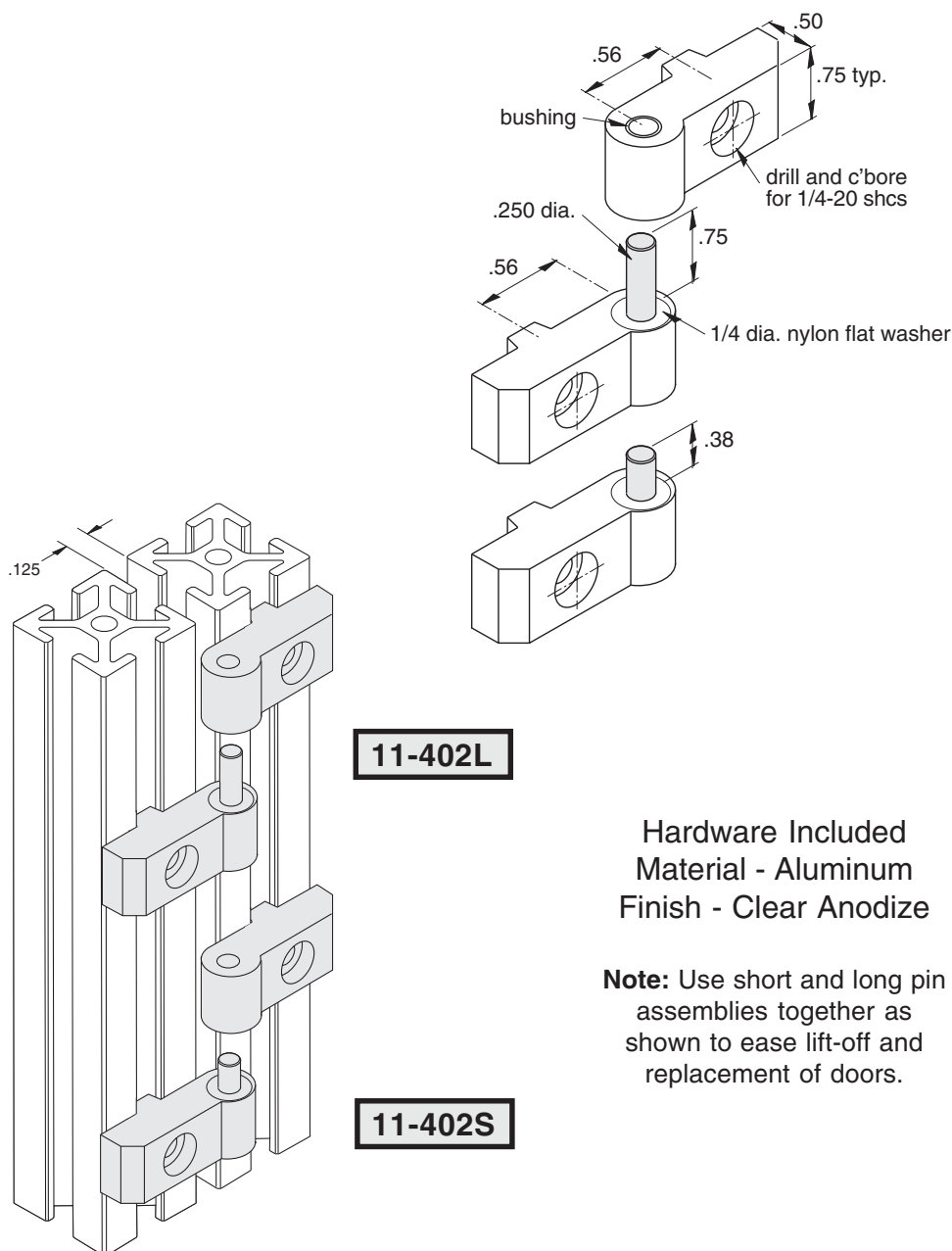
11-402

Long Pin Assembly Only

11-402L

Short Pin Assembly Only

11-402S



11-402L

11-402S

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.

1/4" SLOTS

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



11-403

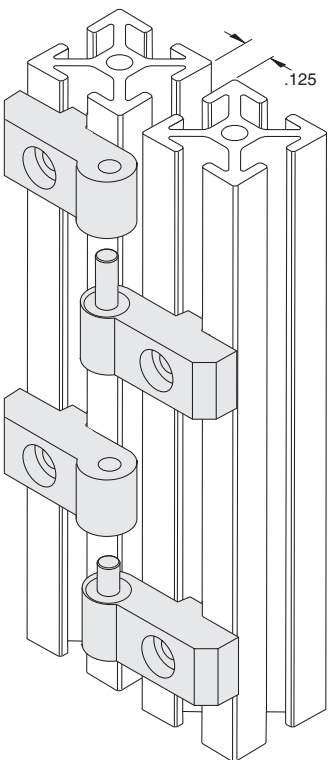
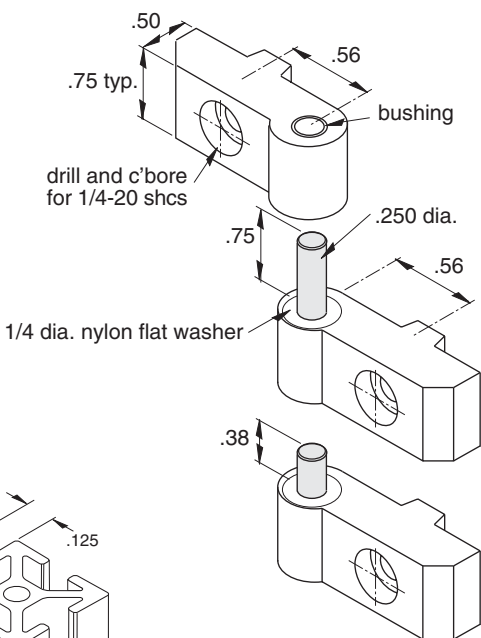
One Set w/Long & Short Pin Assemblies

11-403L

Long Pin Assembly Only

11-403S

Short Pin Assembly Only



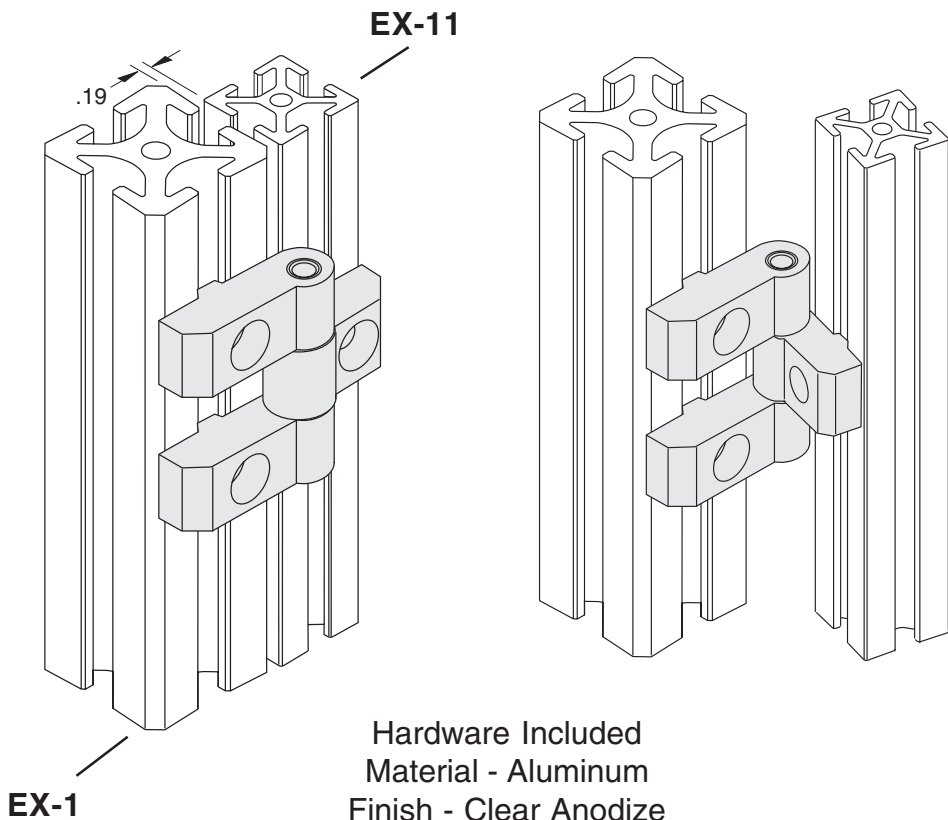
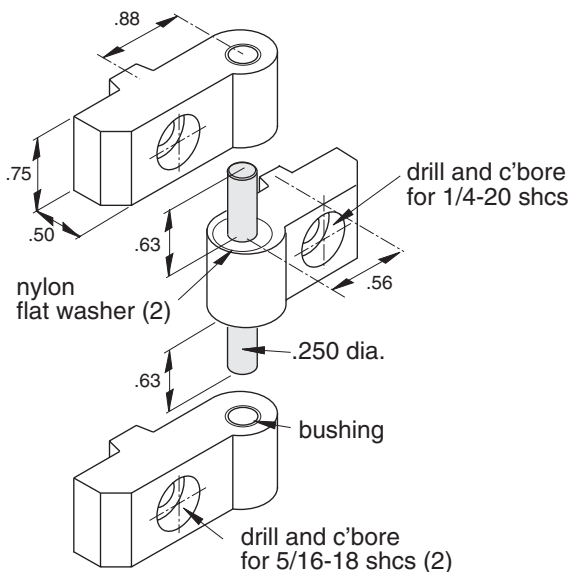
11-403L

11-403S

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.

1/4" SLOTS



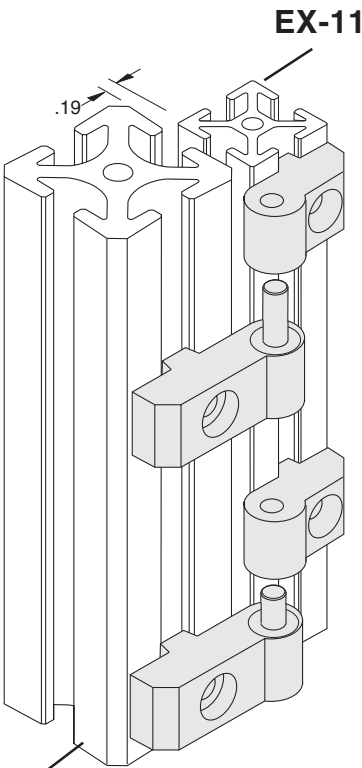
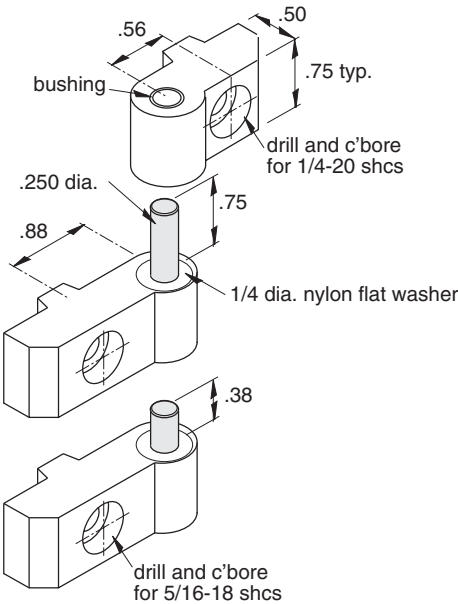
Left Hand Transition Lift-Off Hinge 5/16 - 1/4 slots



| | |
|----------------|---------------------------------------|
| 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

EX-1

One Set w/Long & Short Pin Assemblies

EB-143

Long Pin Assembly Only

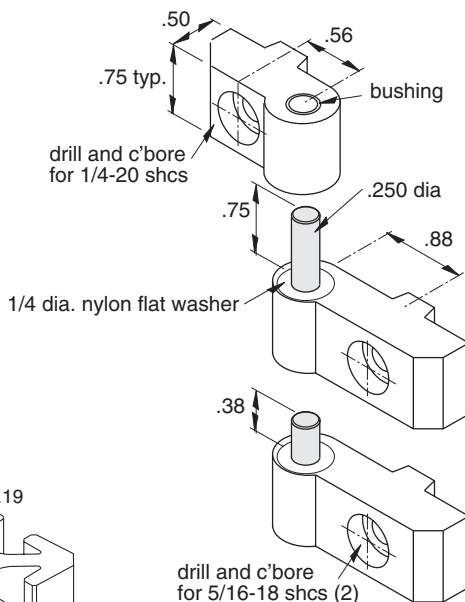
EB-143L

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

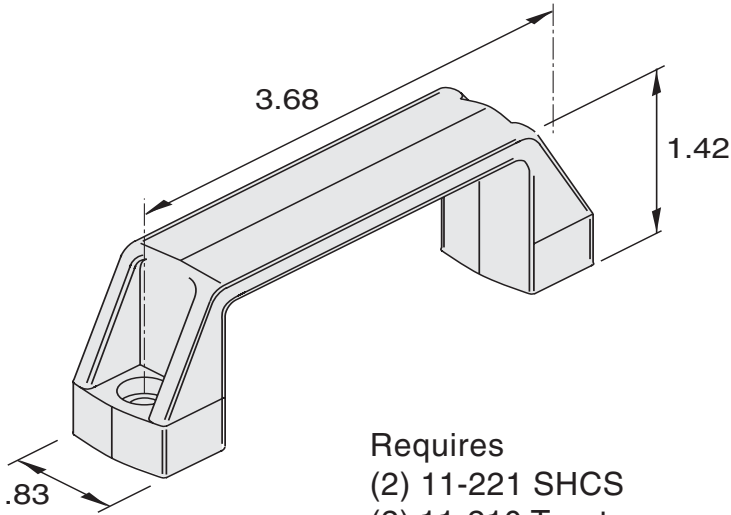
EB-143L

EB-143S

EX-1

1/4" SLOTS

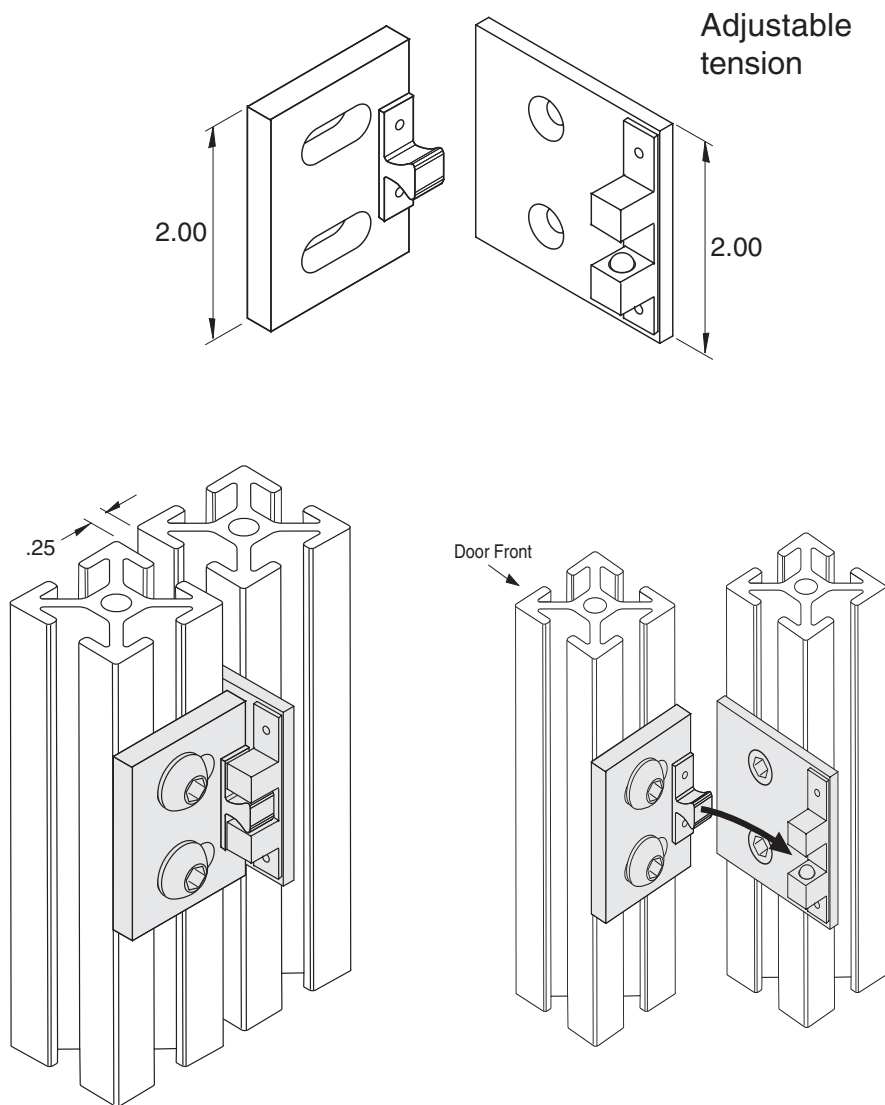
11-256



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

Material - Plastic
Color- Black

1/4" SLOTS

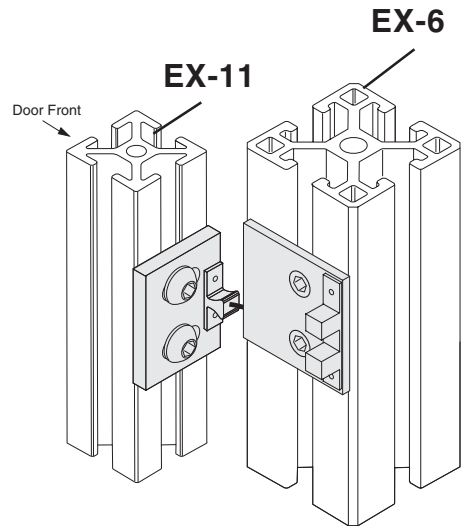
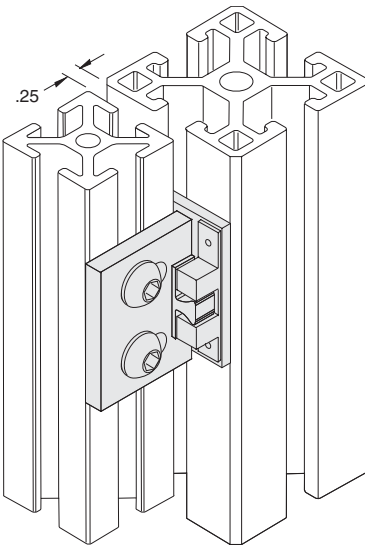
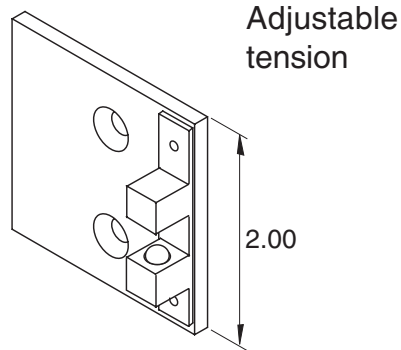
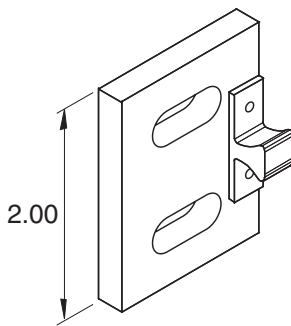


Hardware Included
Material Mounting Plates: Aluminum , Clear Anodize
Latch: Zinc Plated Brass

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



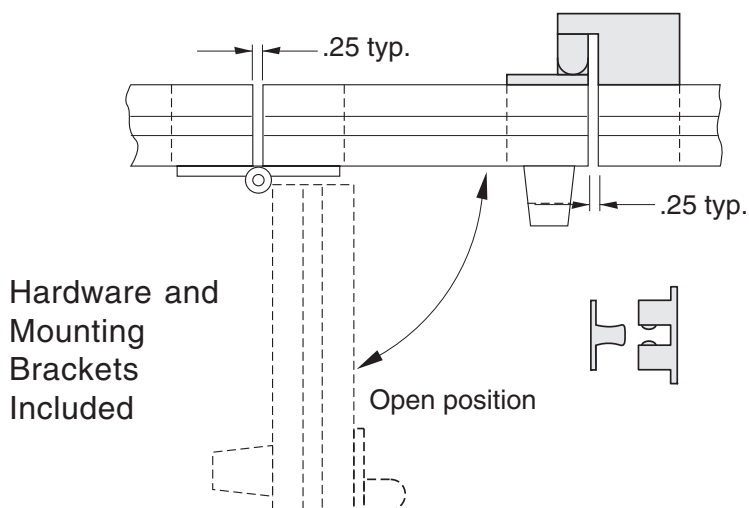
11-283



Hardware Included

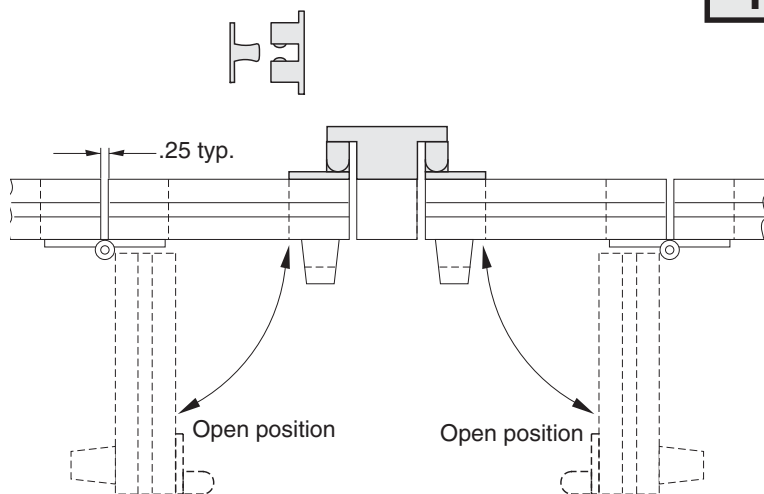
Material Mounting Plates: Aluminum , Clear Anodize

Latch: Zinc Plated Brass



Catch Material - Zinc Plated Brass
Base Material - Aluminum

Double Door Mechanical Latch



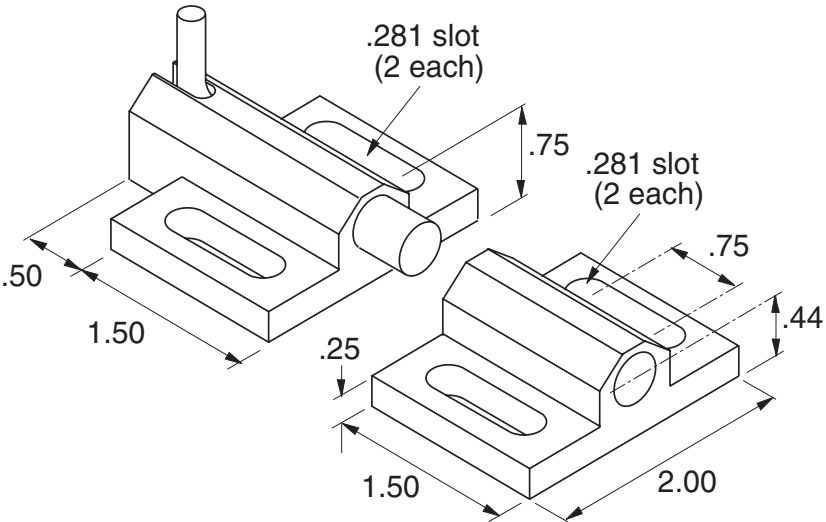
Hardware and Mounting Brackets Included

Catch Material - Zinc Plated Brass
Base Material - Aluminum

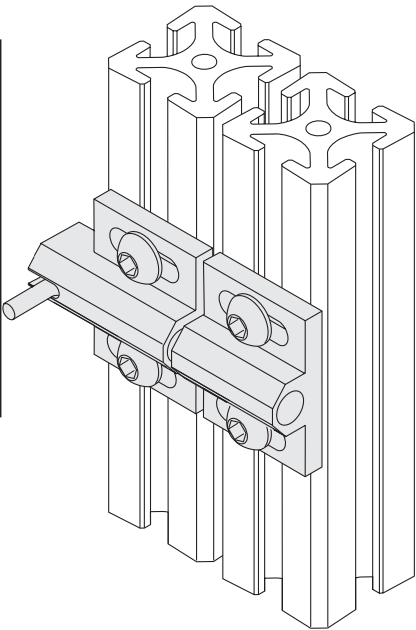
Deluxe Dead Bolt Latch



11-272

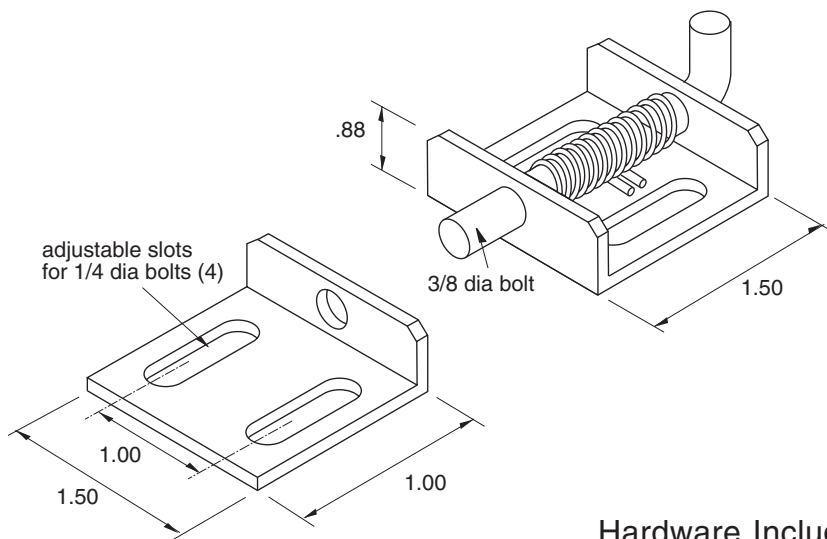


Hardware Included

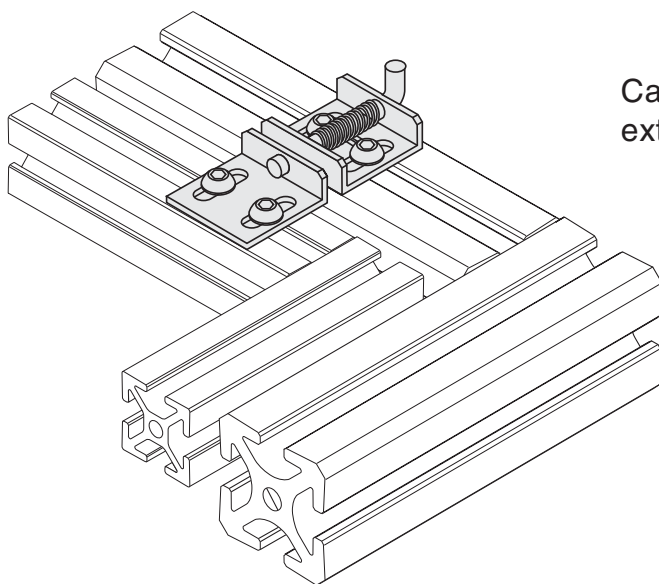


1/4" SLOTS

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



Hardware Included



Can be used with all
extrusion profiles

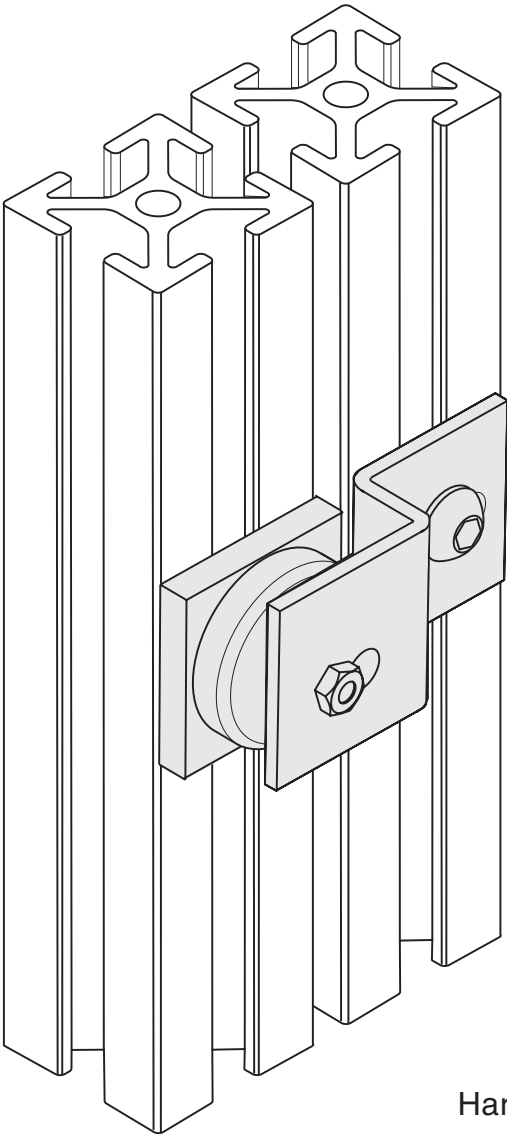
1/4" SLOTS

Material - Steel
Finish - Zinc Plated

**Heavy Duty Magnetic
Door Latch Assembly**



11-263

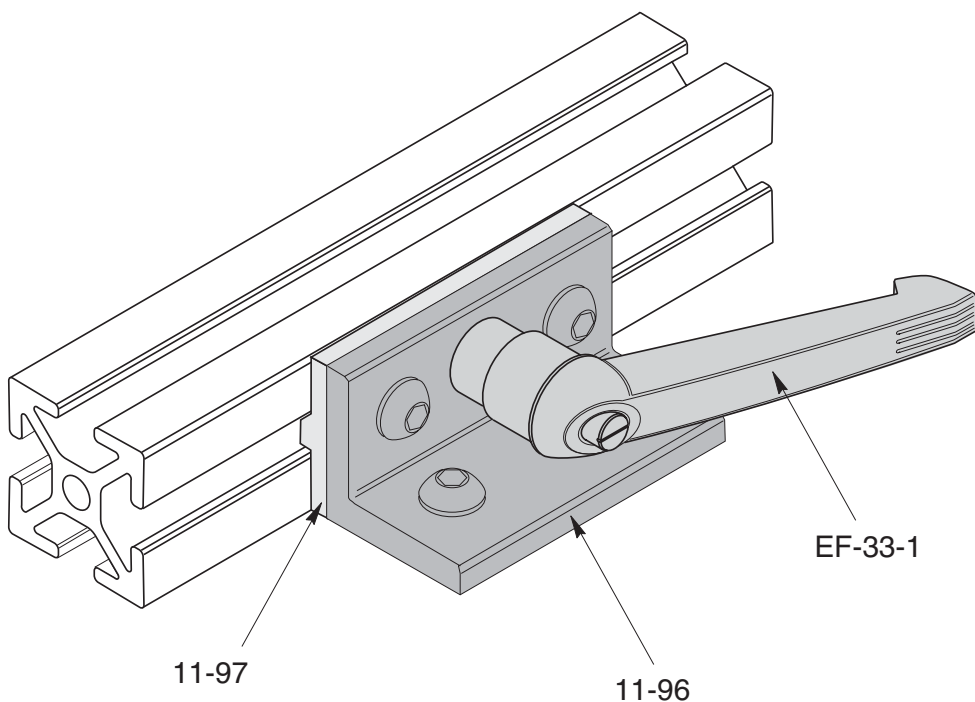


1/4" SLOTS

Hardware Included

**Material - Steel
Finish - Zinc Plated**

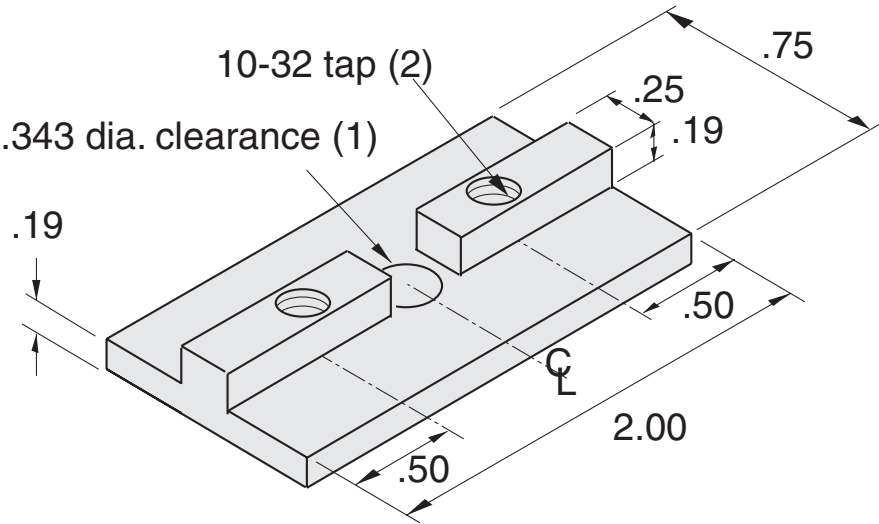
Slider Assembly (as shown)
Slider Assembly
(less clamp handle for sliding only)

11-98
11-99

1/4" SLOTS

Bearing Material is DELRIN

hardware Included with 11-98 and 11-99

11-97



Load Capacity = 50lbs

Bearing Material is DELRIN

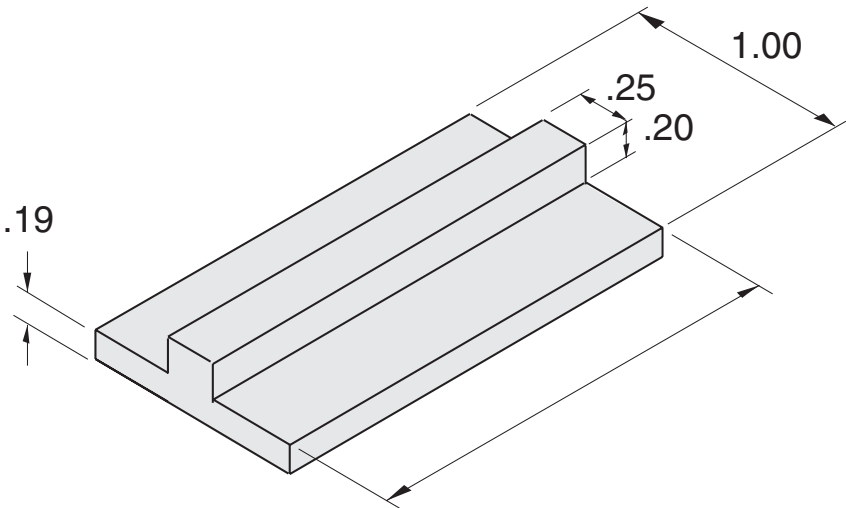
1/4" SLOTS

Blank Bearing Pad UHMW



11-302

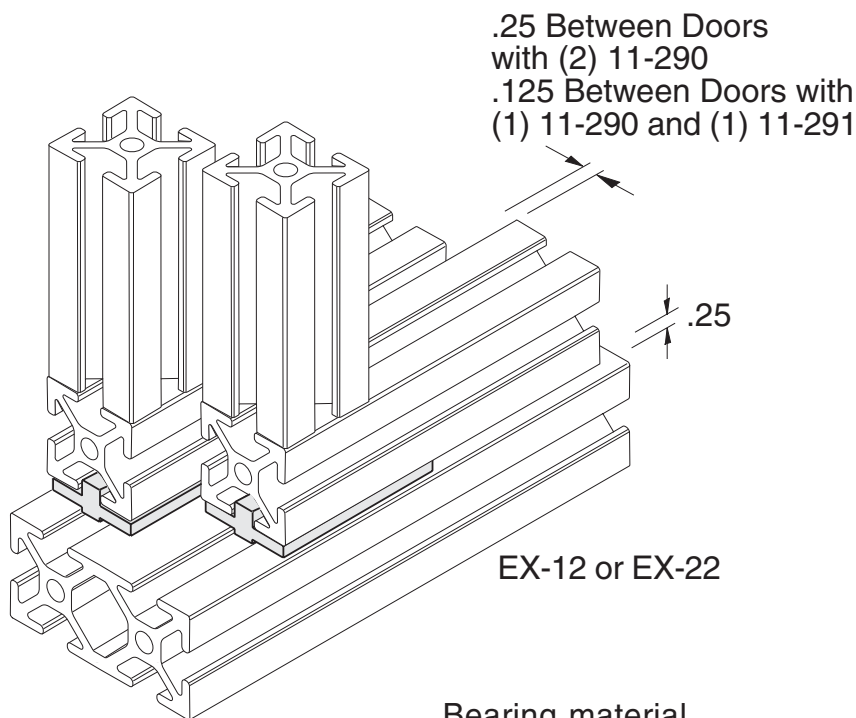
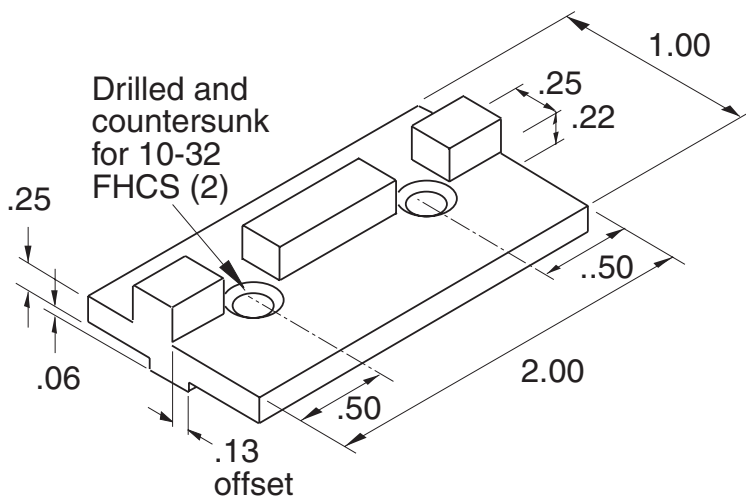
for 1/4" slot extrusions



1/4" SLOTS

Stock Length 60"

Material - UHMW



Bearing material
is DELRIN

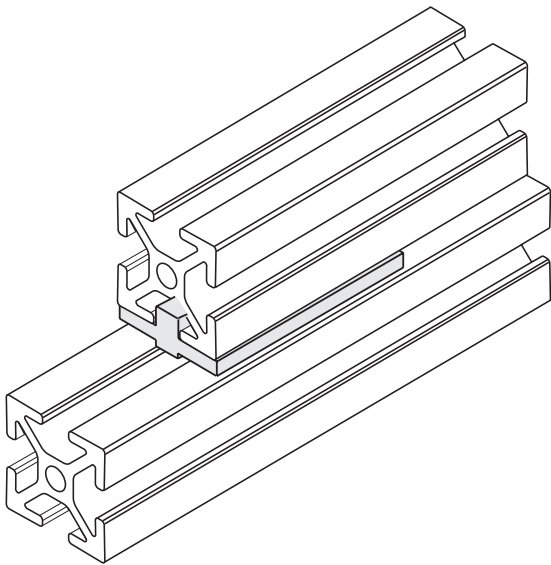
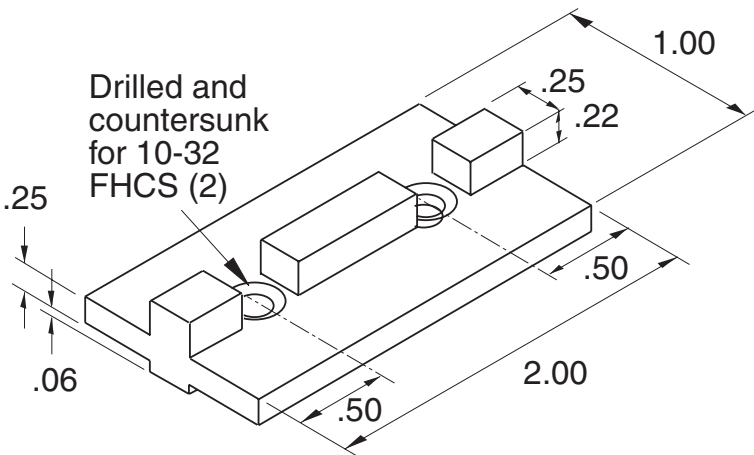
Hardware Included

1/4" SLOTS

Bearing Block (Plastic)



11-291



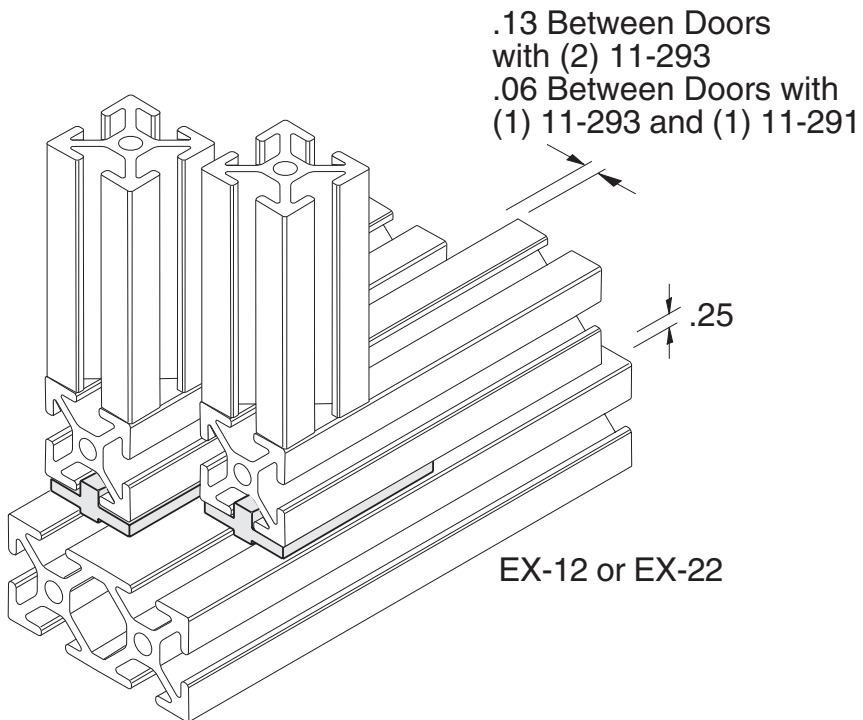
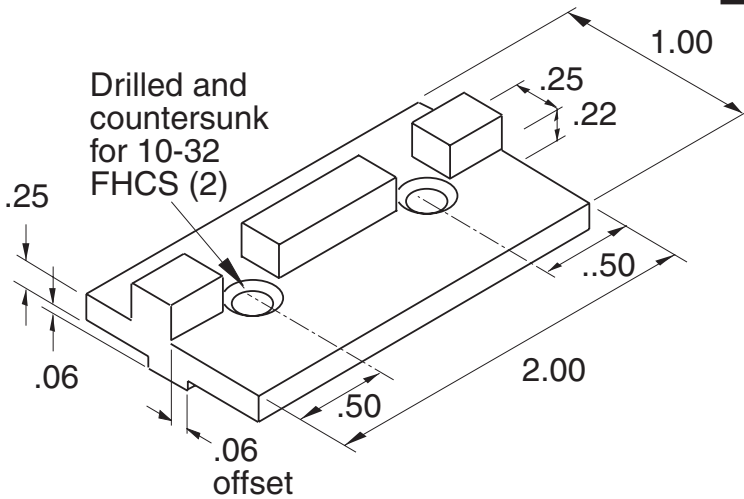
Bearing material
is DELRIN

Hardware Included

1/4" SLOTS



Offset Bearing Block (Plastic)

11-293**1/4" SLOTS**

Hardware Included

Bearing material
is DELRIN

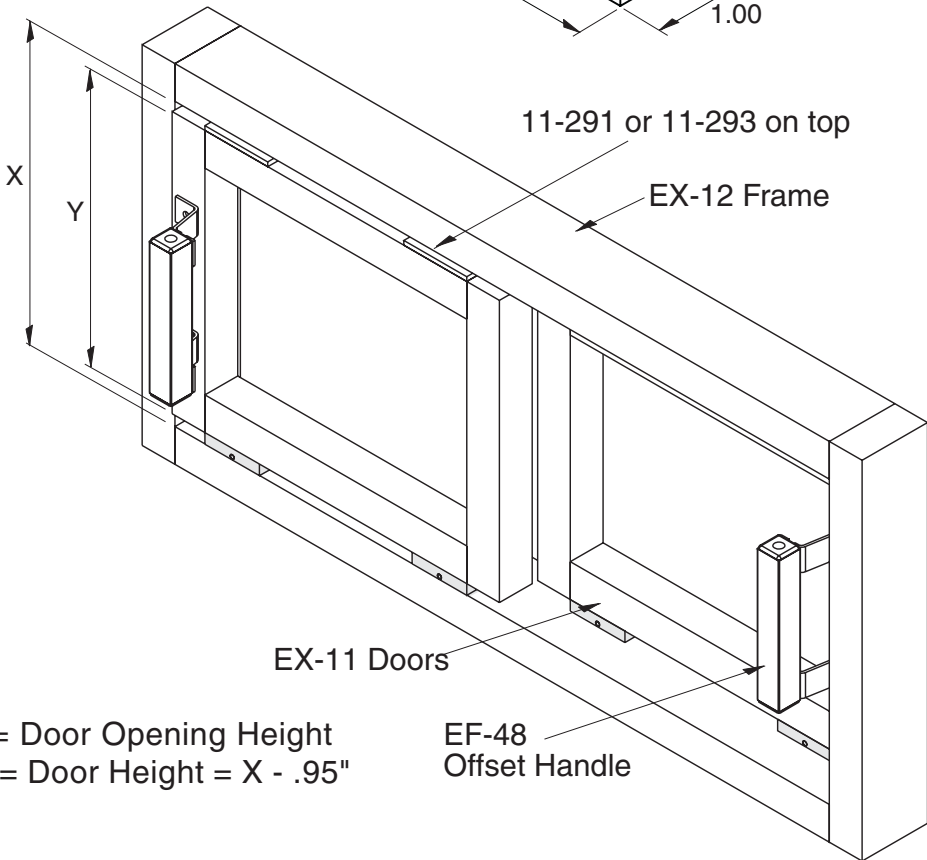
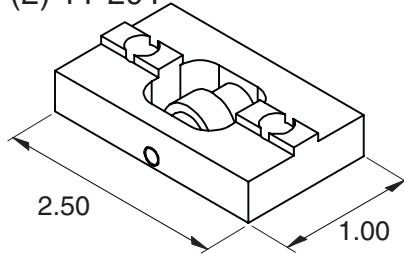
Door Roller Block - 1/4" Slot (lift out)



| | |
|---------------|--------------|
| 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

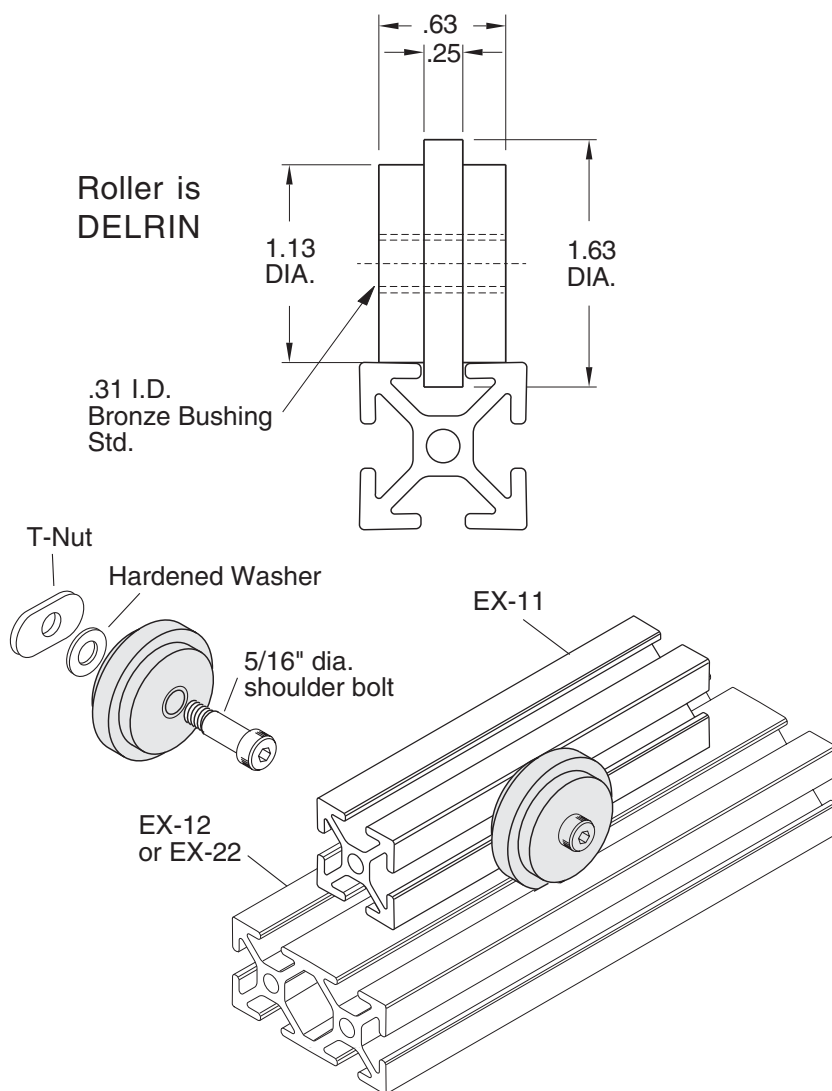


X= Door Opening Height
Y = Door Height = X - .95"

EF-48
Offset Handle

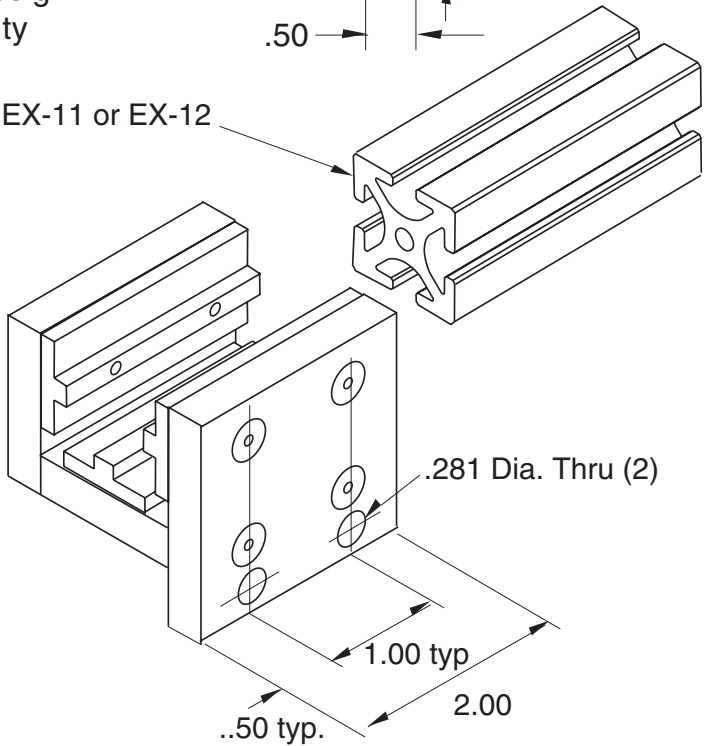
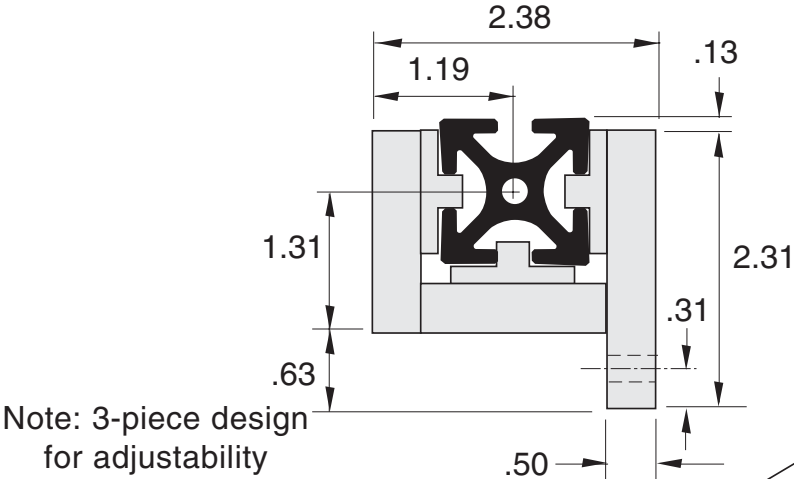
Black material is anodized aluminum
Roller is DELRIN

Hardware Included



Hardware Included

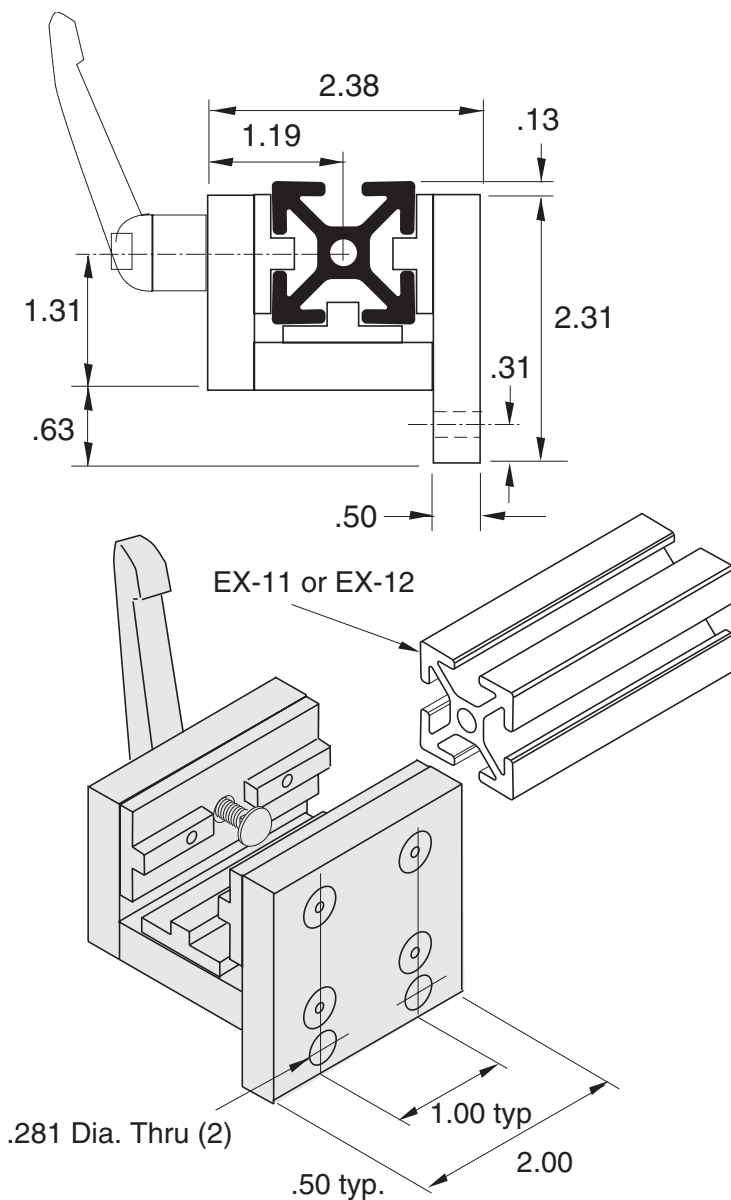
11-91



1/4" SLOTS

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

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



Recommended

Hardware

(2) 11-233 BHCS

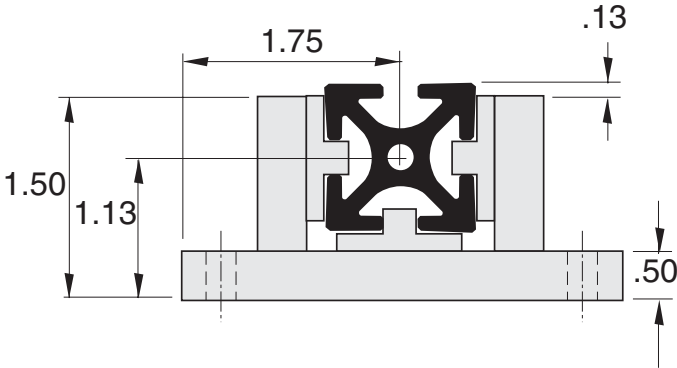
(2) 11-205 T-nut

Bearing Material - DELRIN

Plate Material - Aluminum

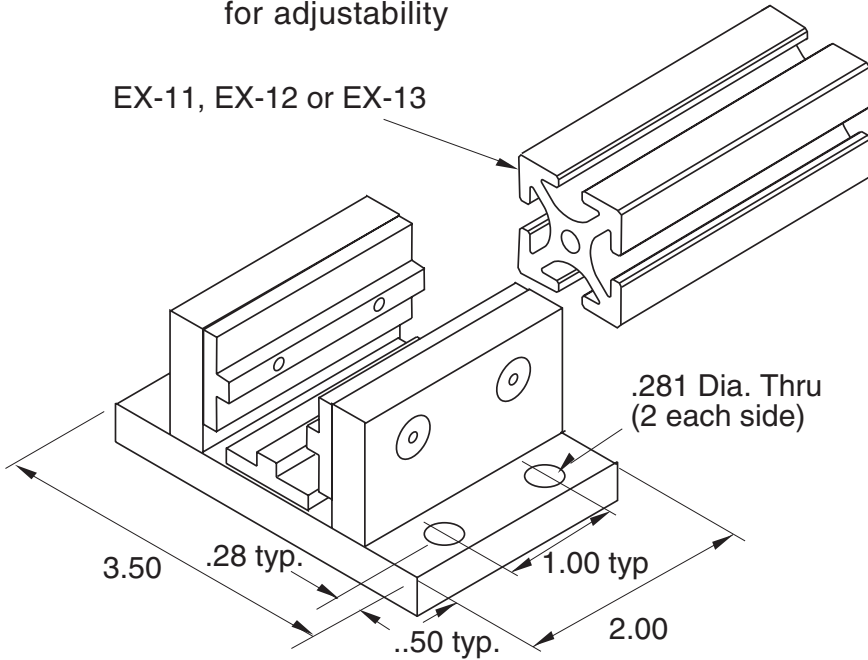
Finish - Clear Anodize

11-93



Note: 3-piece design
for adjustability

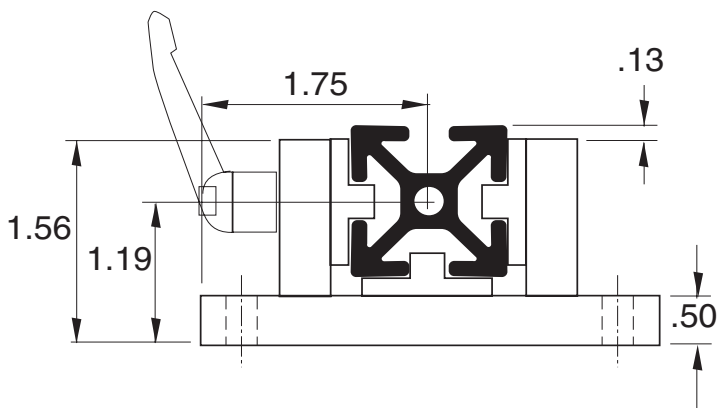
EX-11, EX-12 or EX-13



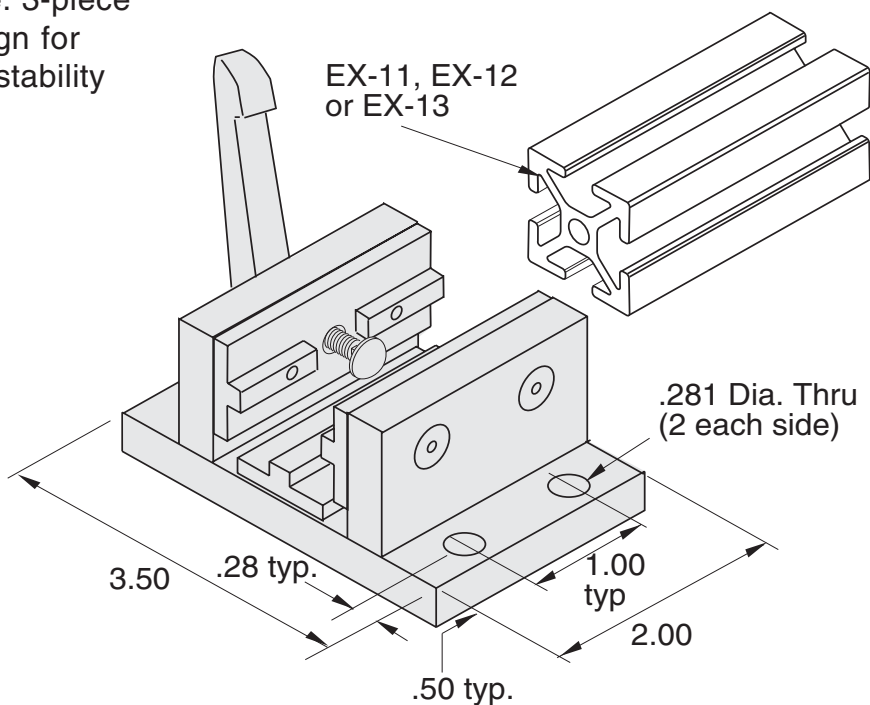
Recommended
Hardware

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

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



Note: 3-piece
design for
adjustability



1/4" SLOTS

Recommended
Hardware

(4) 11-233 BHCS

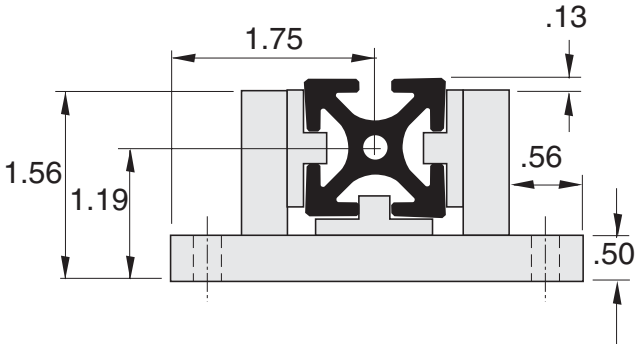
(4) 11-205 T-nut

Bearing Material - DELRIN

Plate Material - Aluminum

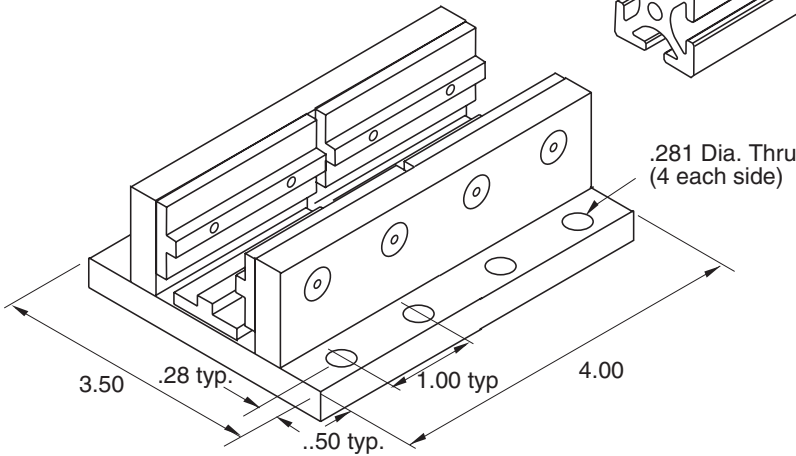
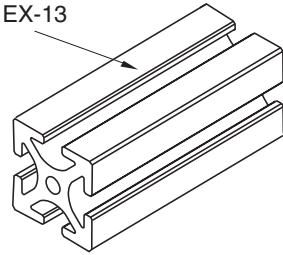
Finish - Clear Anodize

11-92



EX-11, EX-12 or EX-13

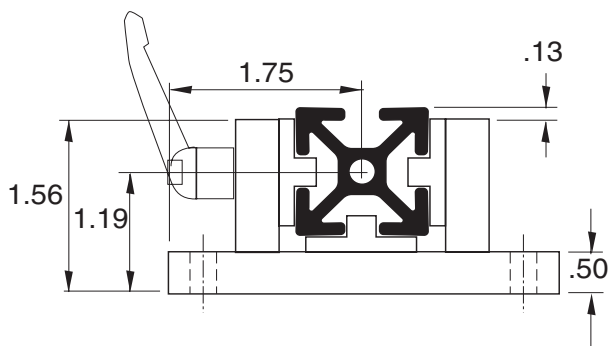
Note: 3-piece design
for adjustability



1/4" SLOTS

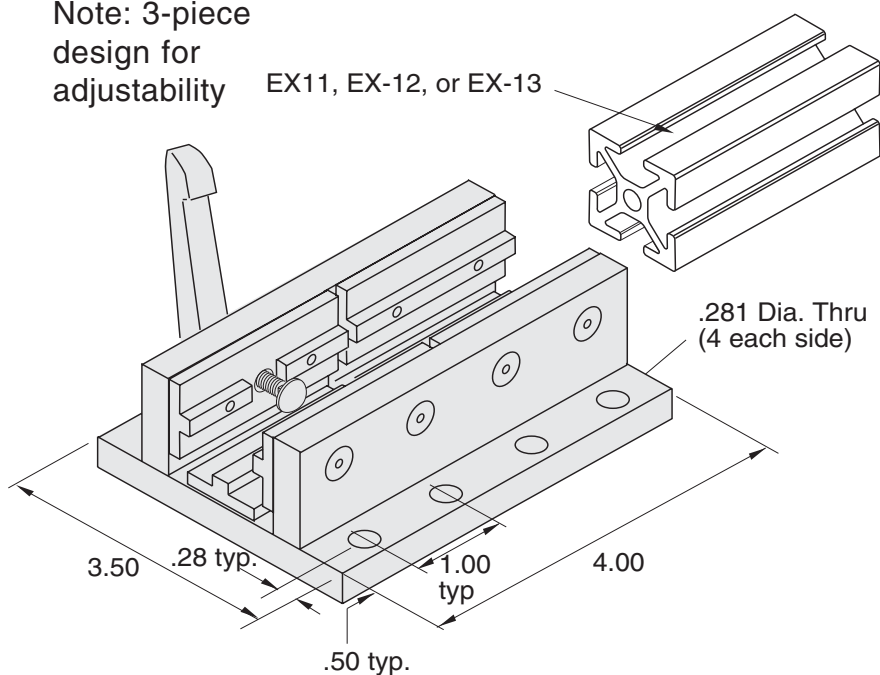
Recommended
Hardware
(8) 11-233 BHCS
(8) 11-205 T-nut

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



Note: 3-piece
design for
adjustability

EX11, EX-12, or EX-13



Recommended
Hardware

(8) 11-233 BHCS

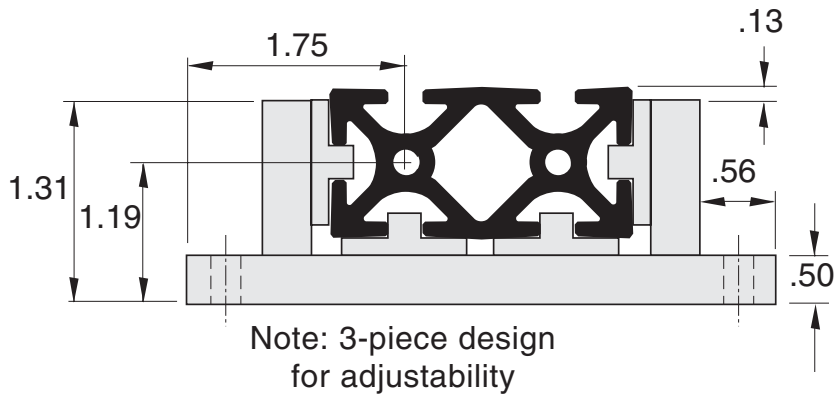
(8) 11-205 T-nut

Bearing Material - DELRIN

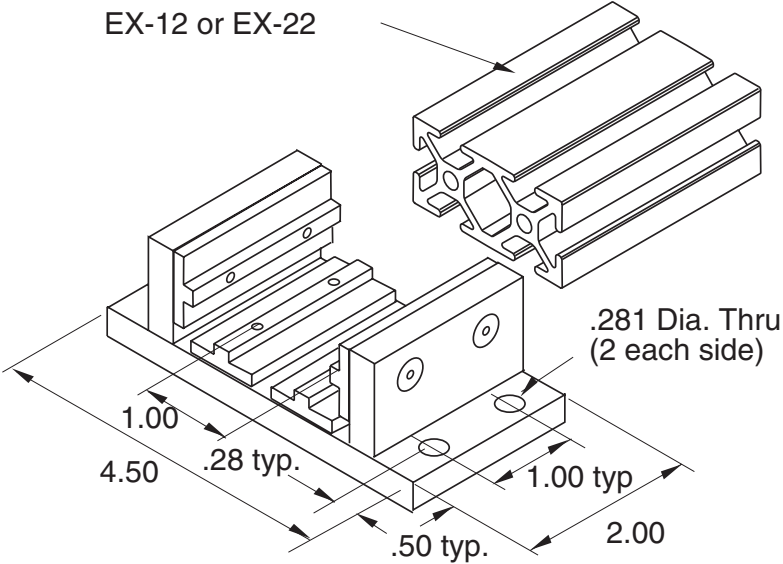
Plate Material - Aluminum

Finish - Clear Anodize

11-94

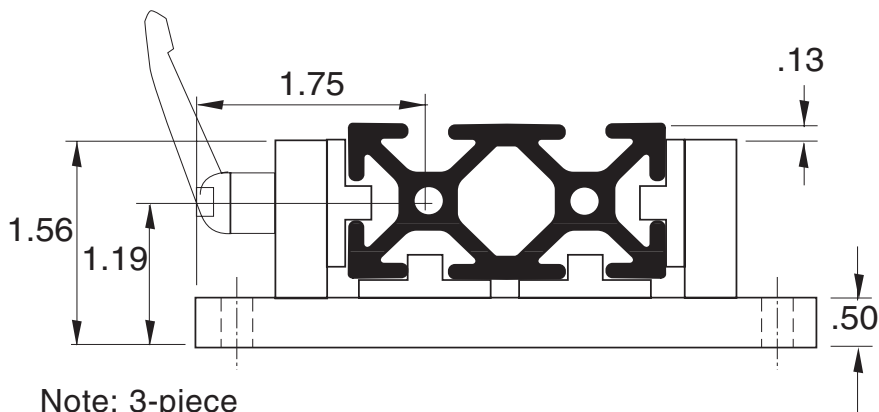


EX-12 or EX-22

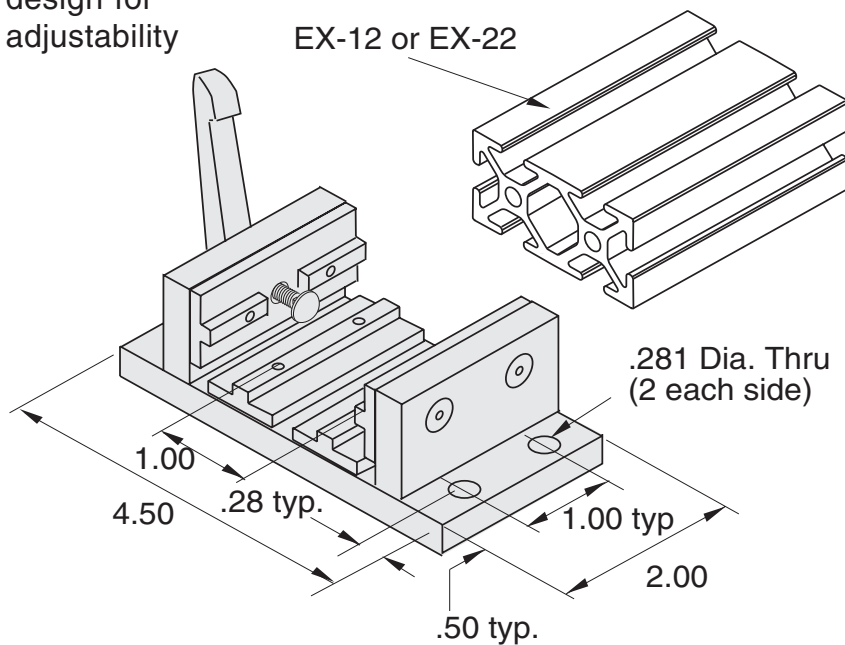


Recommended
Hardware
(4) 11-233 BHCS
(4) 11-205 T-nut

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



Note: 3-piece
design for
adjustability

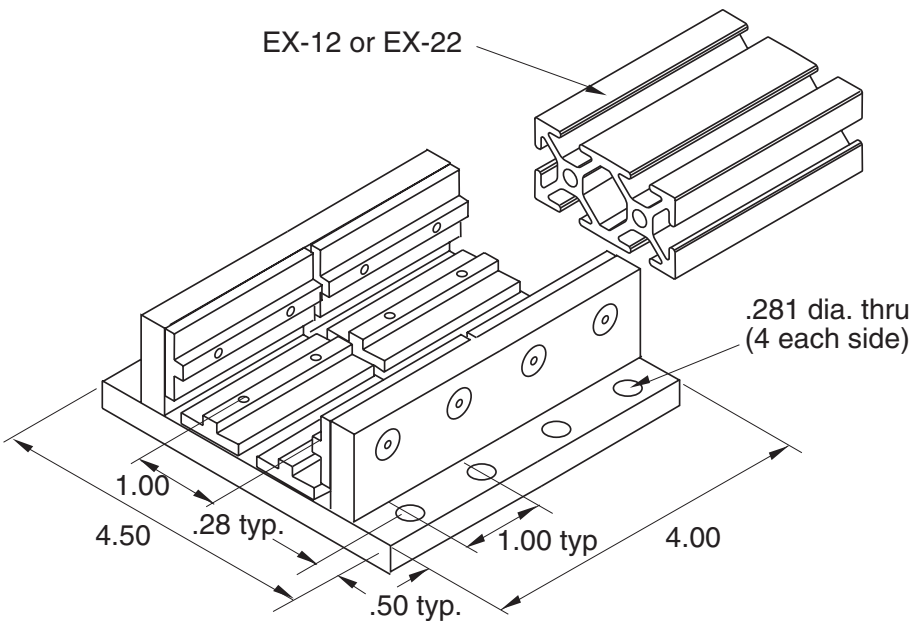
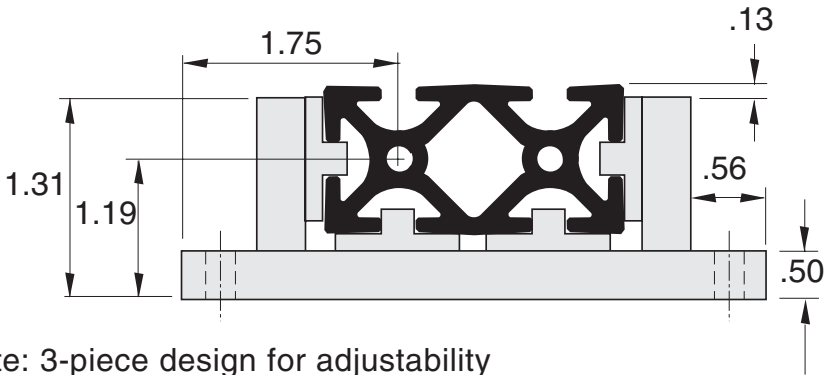


Recommended
Hardware
(4) 11-233 BHCS
(4) 11-205 T-nut

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

1/4" SLOTS

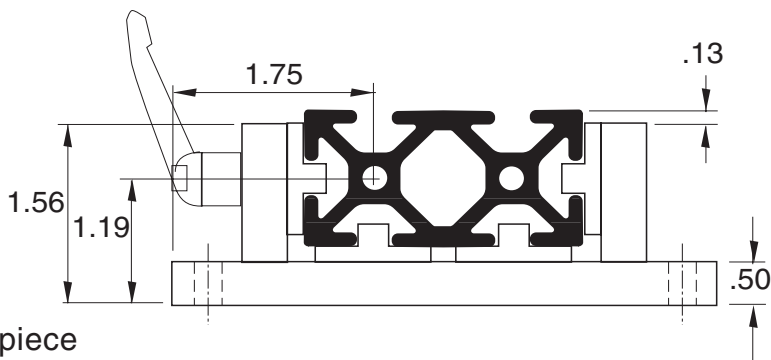
11-95



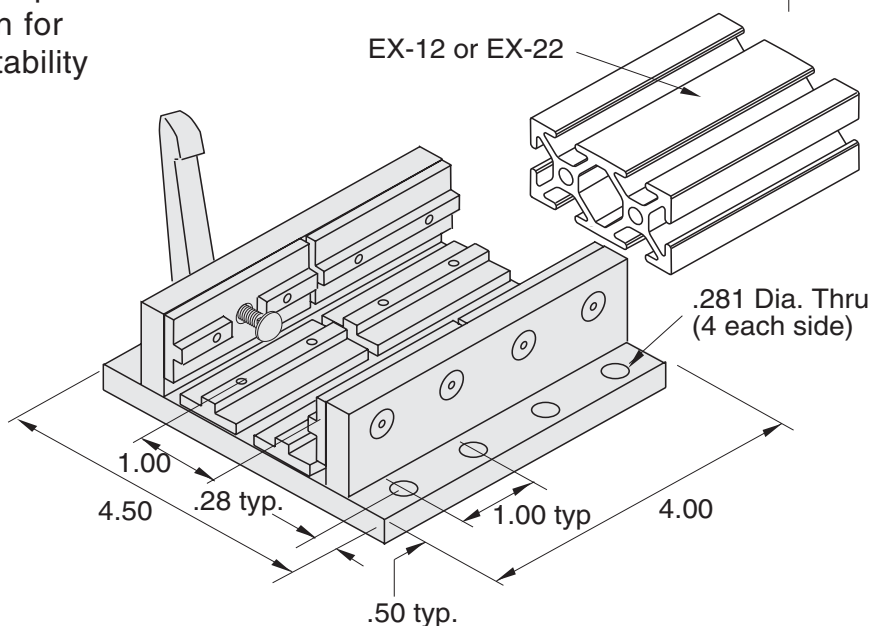
1/4" SLOTS

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

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



Note: 3-piece
design for
adjustability



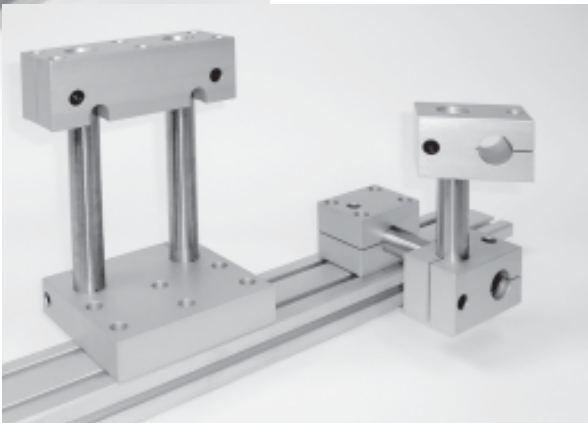
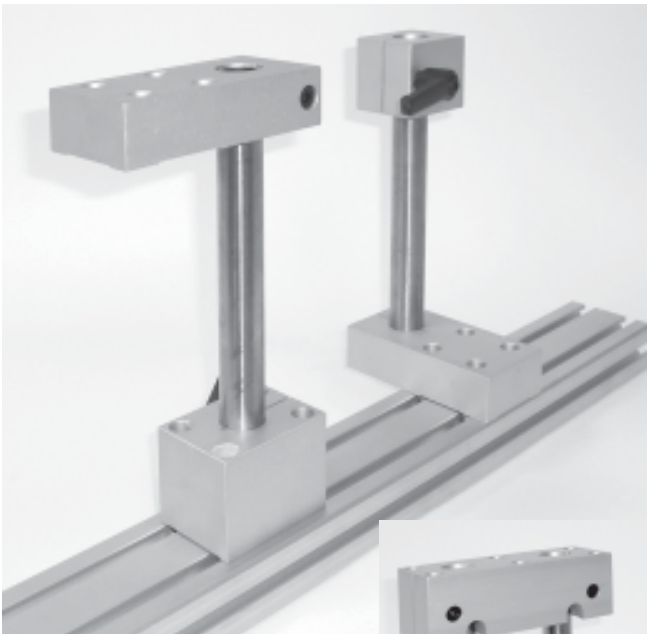
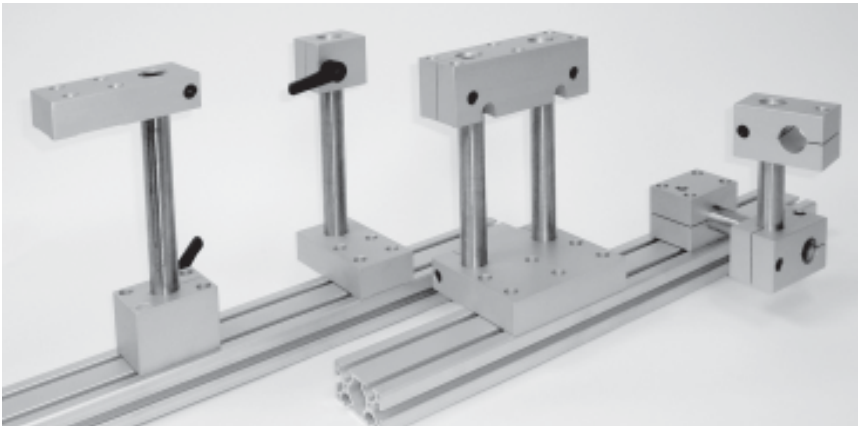
1/4" SLOTS

Recommended Hardware

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

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

Stanchions



1/4" SLOTS

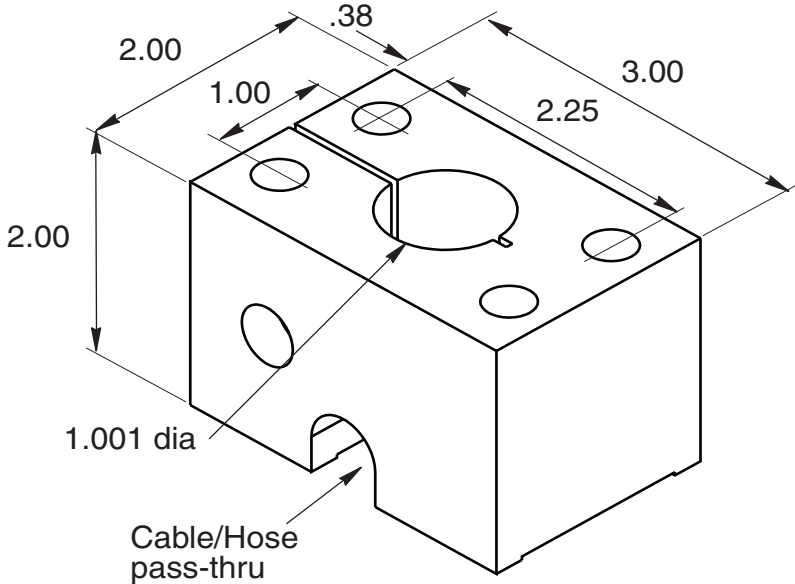


Single Shaft Base

with locking handle
with locking 5/16 SHCS

11-500

11-501

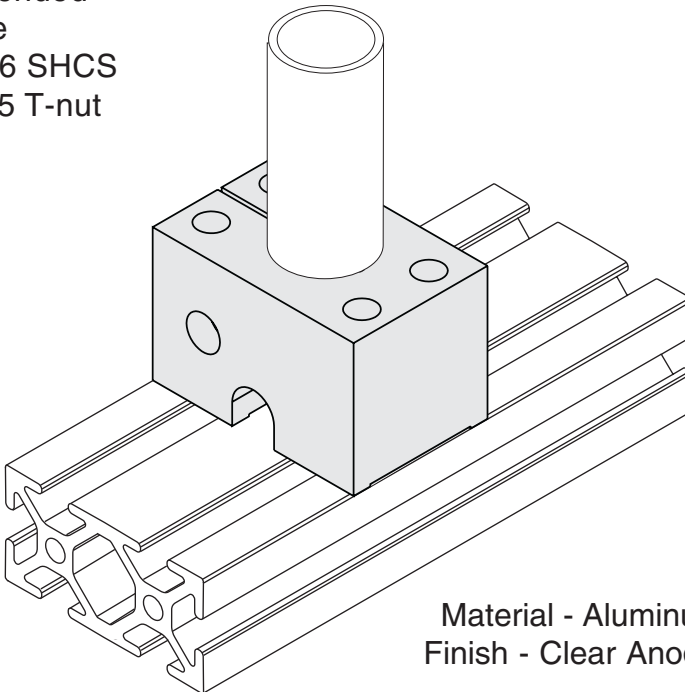


For shafts, see page 466

Recommended Hardware

(4) 11-226 SHCS

(4) 11-205 T-nut



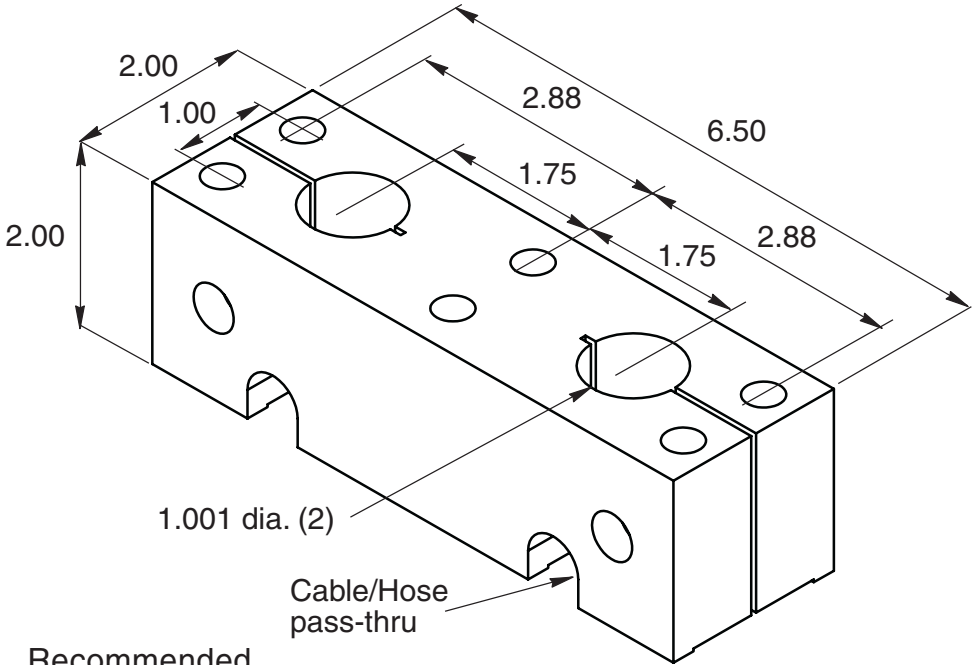
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Double Shaft Base



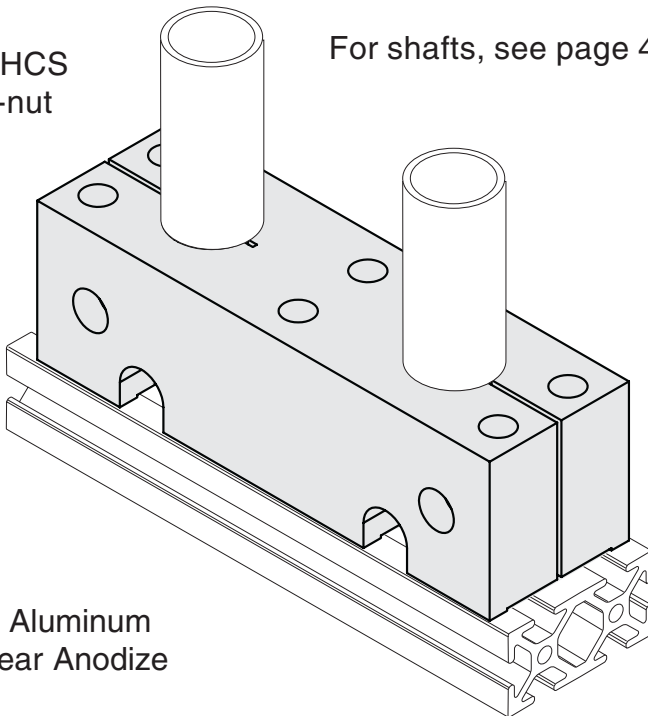
| | |
|---------------|------------------------|
| 11-502 | with locking handle |
| 11-503 | with locking 5/16 SHCS |



Recommended Hardware

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

For shafts, see page 466



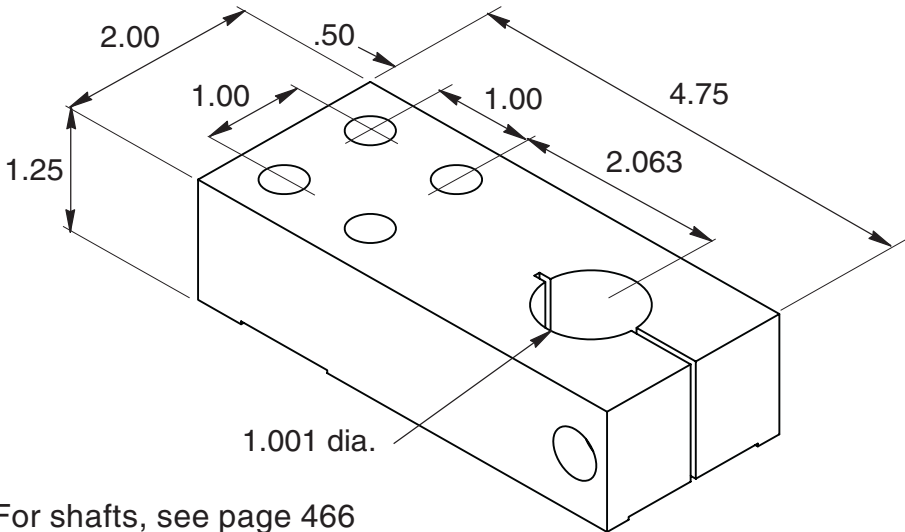
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS



Single Shaft Mounting Base

with locking handle
with locking 5/16 SHCS

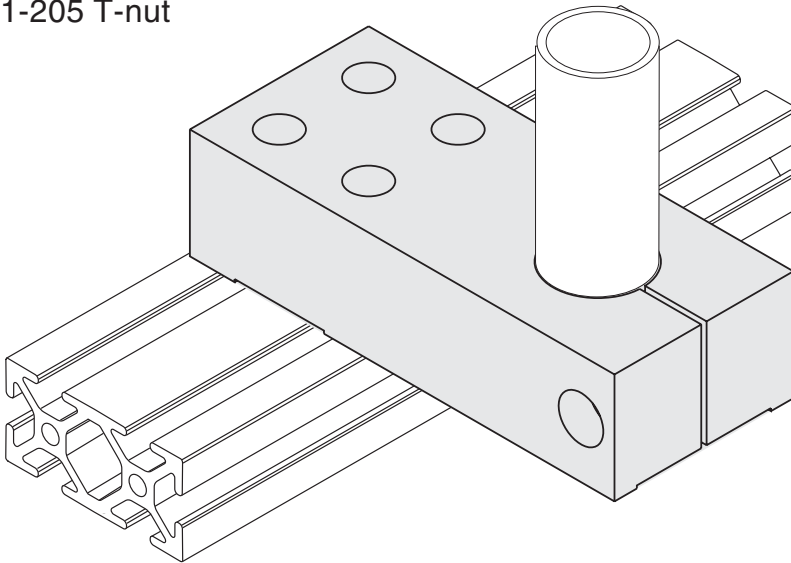
11-504**11-505**

For shafts, see page 466

Recommended
Hardware

(4) 11-233 SHCS

(4) 11-205 T-nut



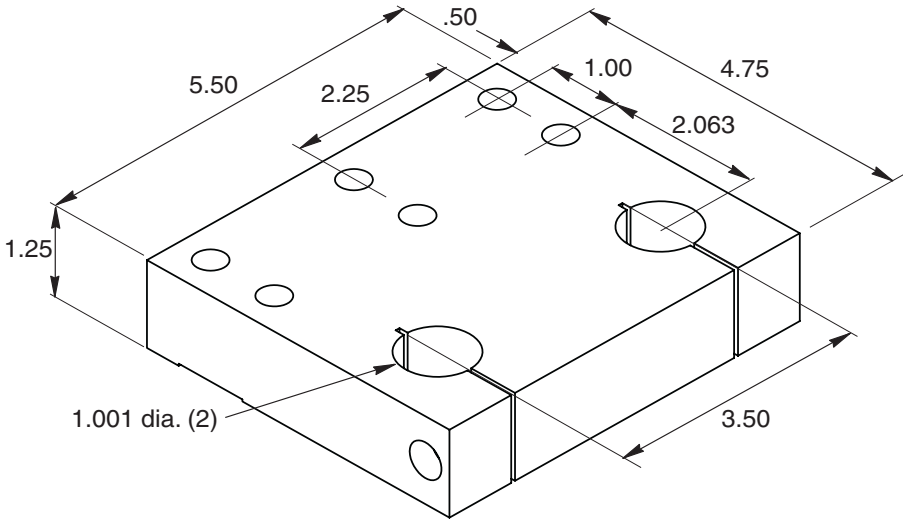
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Double Shaft Mounting Base



| | |
|---------------|------------------------|
| 11-506 | with locking handle |
| 11-507 | with locking 5/16 SHCS |

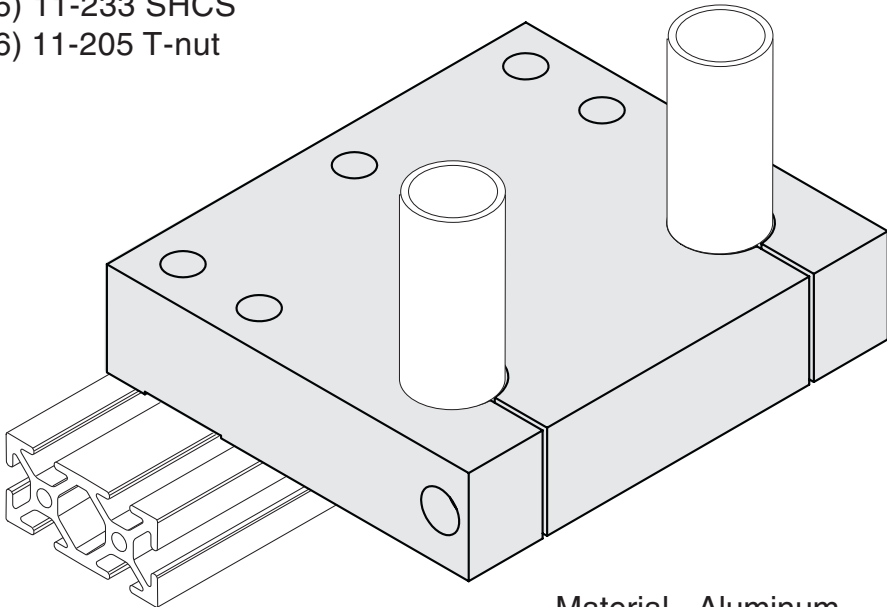


For shafts, see page 466

Recommended Hardware

- (6) 11-233 SHCS
- (6) 11-205 T-nut

1/4" SLOTS



Material - Aluminum
Finish - Clear Anodize

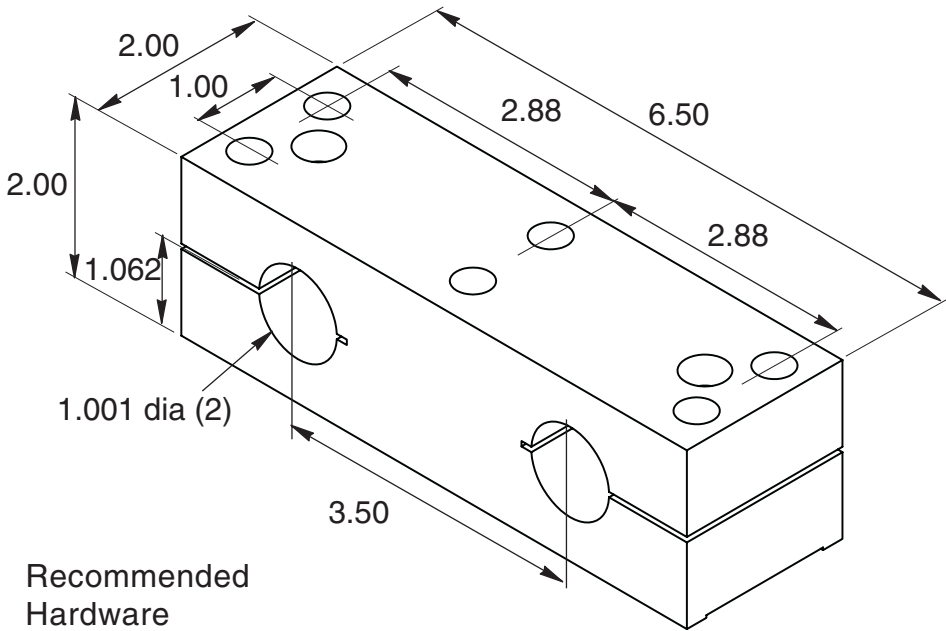


Double Shaft Mounting Block

with locking handle
with locking 5/16 SHCS

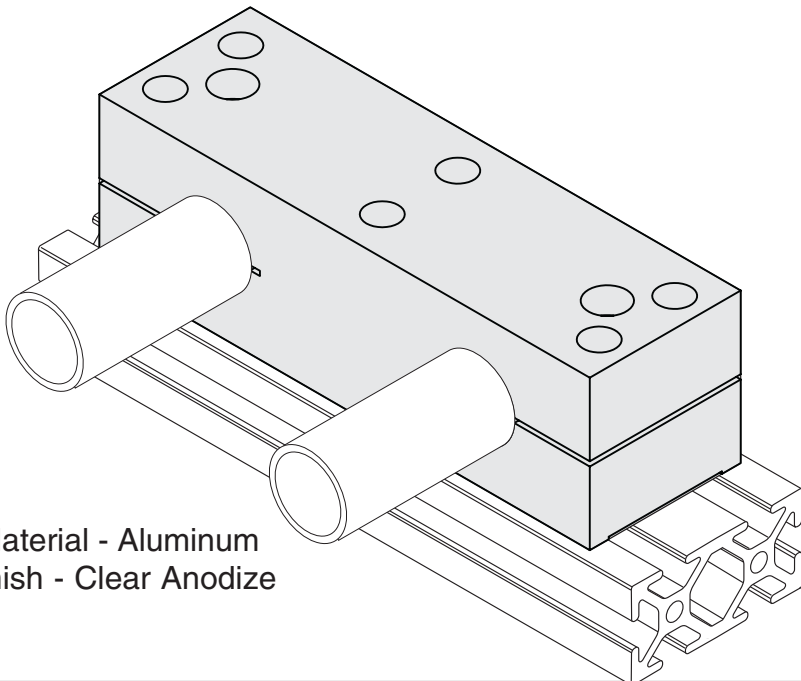
11-508

11-509



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

For shafts, see page 466



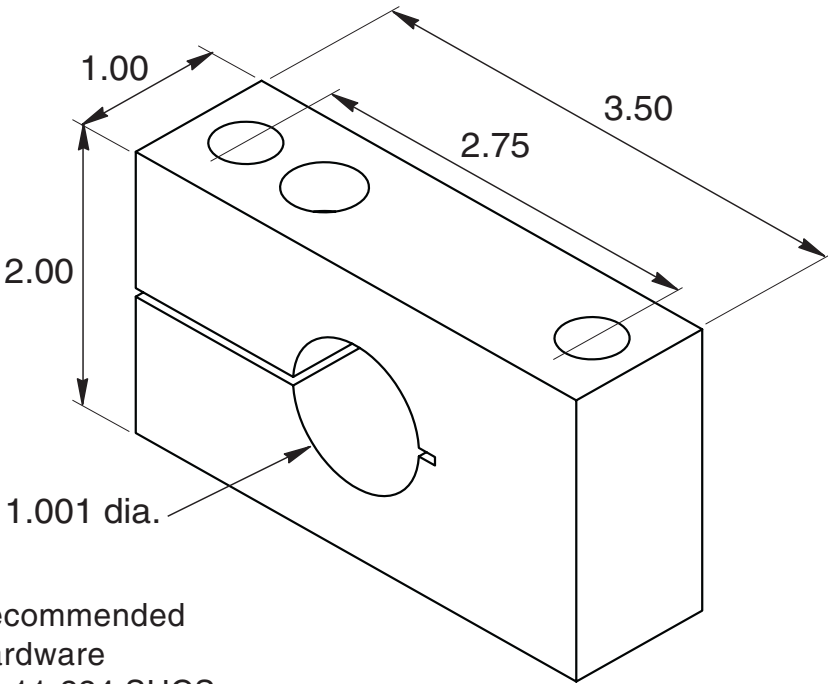
Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Single Shaft Mounting Block



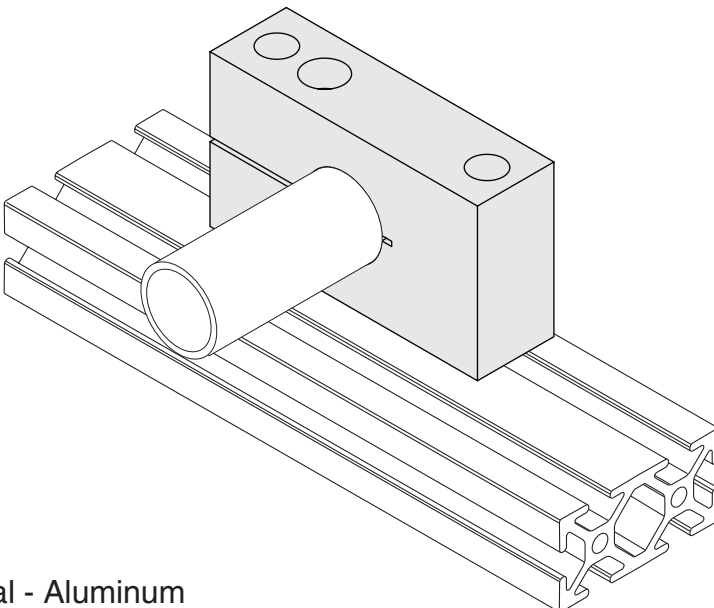
| | |
|---------------|------------------------|
| 11-510 | with locking handle |
| 11-511 | with locking 5/16 SHCS |



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

For shafts, see page 466

1/4" SLOTS



Material - Aluminum
Finish - Clear Anodize

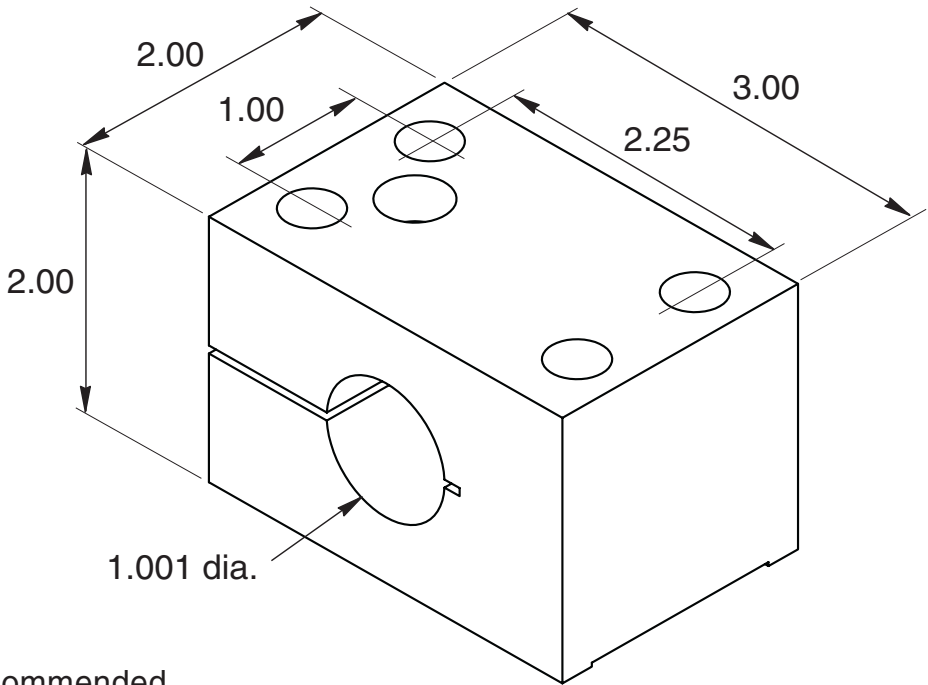


Single Horizontal Base

with locking handle
with locking 5/16 SHCS

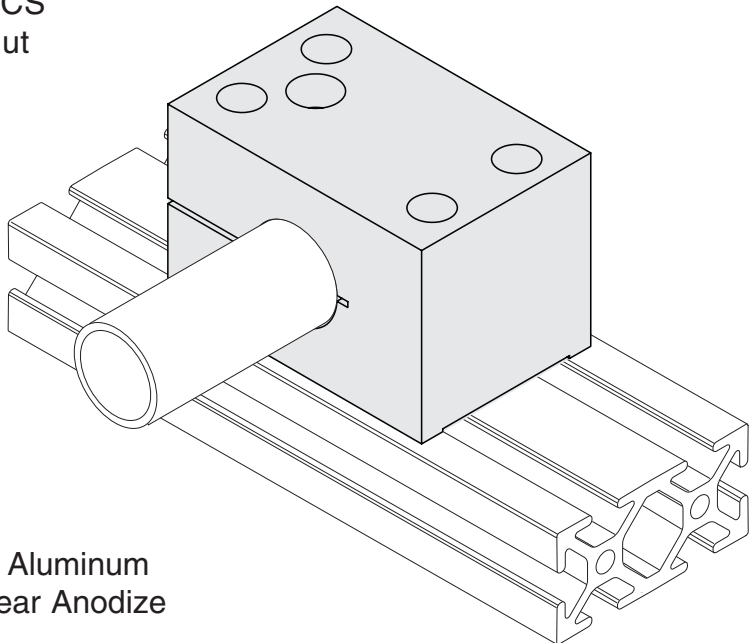
11-512

11-513

Recommended
Hardware

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

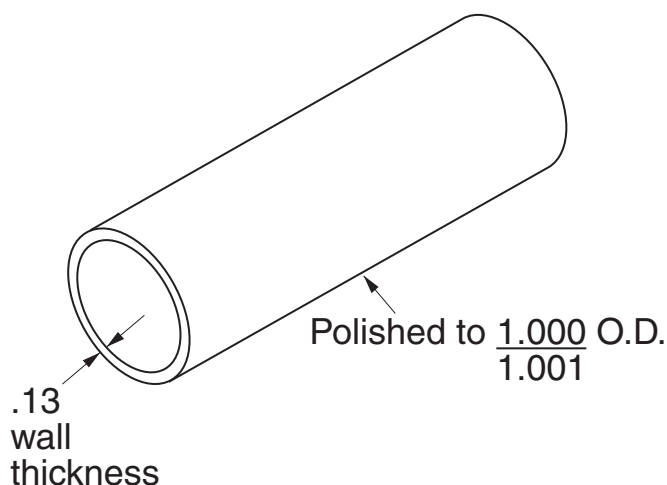
For shafts, see page 466



Material - Aluminum
Finish - Clear Anodize

1/4" SLOTS

Stanchion Shafts

**EB-218**

EB-218 Anodized Aluminum
Stock Length = 71"

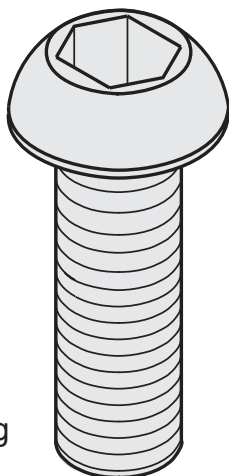
EB-219 Polished Steel
Stock Length = 71"

1/4" SLOTS

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

Part No.

| | |
|--------|--|
| 11-230 | $\frac{1}{4}$ -20 thd x $\frac{3}{8}$ " long |
| 11-231 | $\frac{1}{4}$ -20 thd x $\frac{1}{2}$ " long |
| 11-232 | $\frac{1}{4}$ -20 thd x $\frac{5}{8}$ " long |
| 11-233 | $\frac{1}{4}$ -20 thd x $\frac{3}{4}$ " long |
| 11-234 | $\frac{1}{4}$ -20 thd x 1.0" long |
| 11-235 | $\frac{1}{4}$ -20 thd x 1.25" long |



11-230

11-231

11-232

11-233

11-234

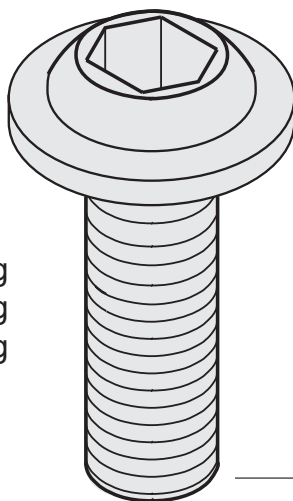
11-235

Finish - Black Oxide

(Flanged)

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 |



11-350

11-351

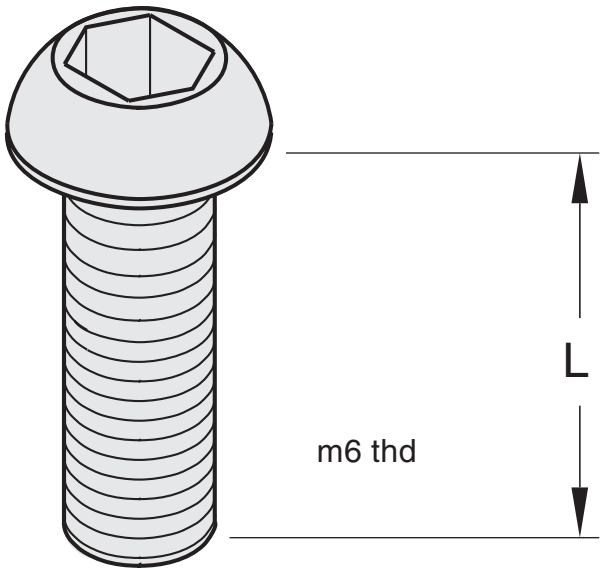
11-352

1/4" SLOTS

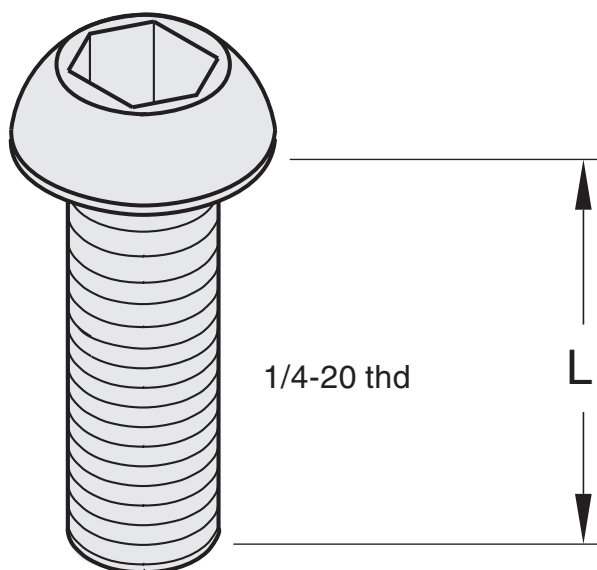
Finish - Black Oxide

11-454

| | length |
|-----------|--------|
| 11-454-10 | 10mm |
| 11-454-12 | 12mm |
| 11-454-16 | 16mm |
| 11-454-20 | 20mm |
| 11-454-25 | 25mm |



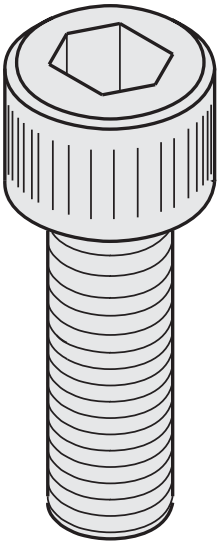
Material
Steel, Black Oxide Coating

L- inch**11-456 -.38****11-456 -.50****11-456 -.63****11-456 -.75****1/4" SLOTS**

Socket Head Cap Screw



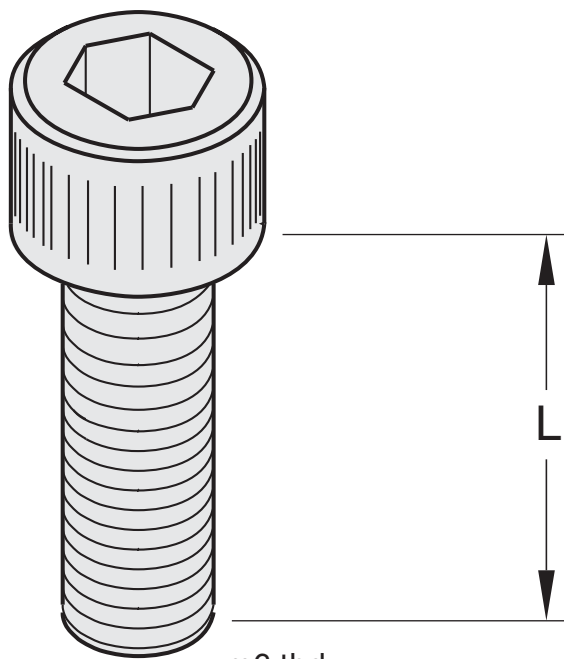
| |
|--------|
| 11-220 |
| 11-221 |
| 11-222 |
| 11-223 |
| 11-224 |
| 11-225 |
| 11-226 |



1/4" SLOTS

| Part No. | |
|----------|-------------------------|
| 11-220 | 1/4-20 thd x 3/8" long |
| 11-221 | 1/4-20 thd x 1/2" long |
| 11-222 | 1/4-20 thd x 5/8" long |
| 11-223 | 1/4-20 thd x 3/4" long |
| 11-224 | 1/4-20 thd x 1.0" long |
| 11-225 | 1/4-20 thd x 1.25" long |
| 11-226 | 1/4-20 thd x 1.50" long |

Finish - Black Oxide



m6 thd

| | length |
|------------------|--------|
| 11-450-10 | 10mm |
| 11-450-12 | 12mm |
| 11-450-16 | 16mm |
| 11-450-20 | 20mm |
| 11-450-25 | 25mm |

Material
Steel, Black Oxide Coating

1/4" SLOTS

Stainless Steel
Socket Head Cap Screw

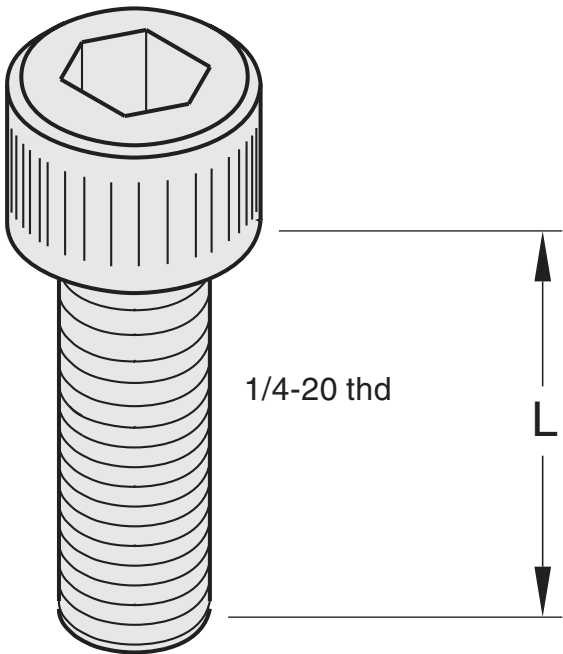


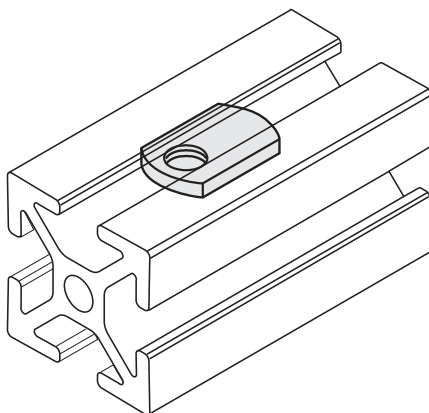
11-452

L-inch

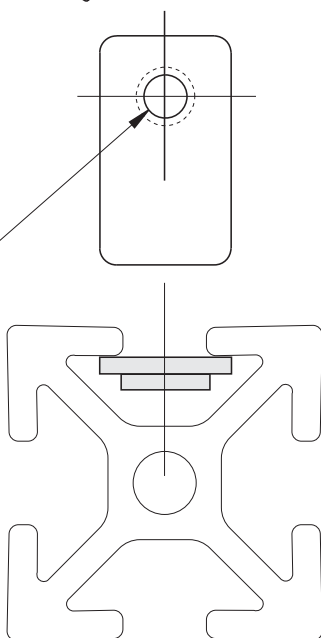
- 11-452 -.5
- 11-452 -.63
- 11-452 -.75
- 11-452 -1.0

1/4" SLOTS



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


Part No.
11-210 1/4-20 thd
11-211 10-32 thd
11-212 m6 thd
11-213 8-32 thd
11-214 6-32 thd

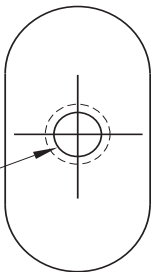
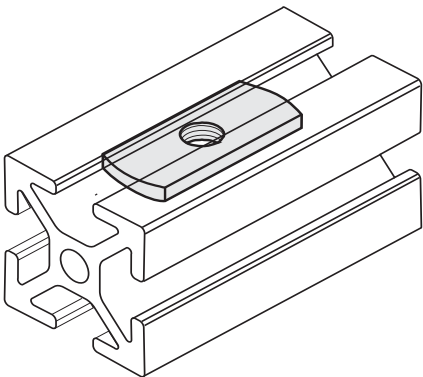

1/4" SLOTS

Material - Steel
 Finish - Zinc Plated

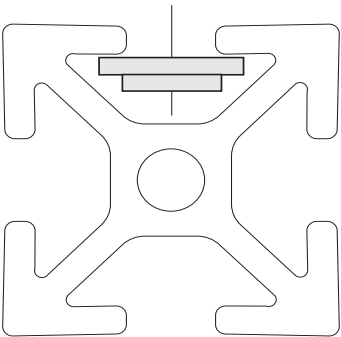
Economy T-Nut (Centered Thread)



| |
|--------|
| 11-215 |
| 11-216 |
| 11-217 |



| | |
|----------|------------|
| Part No. | |
| 11-215 | 1/4-20 thd |
| 11-216 | 10-32 thd |
| 11-217 | 8-32 thd |
| 11-219 | 6-32 thd |



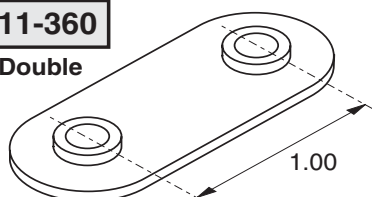
Material - Steel
Finish - Zinc Plated

1/4" SLOTS

11-360

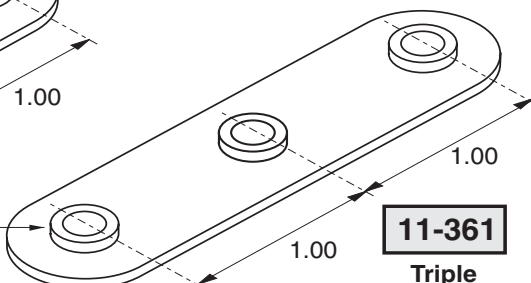
11-360

Double



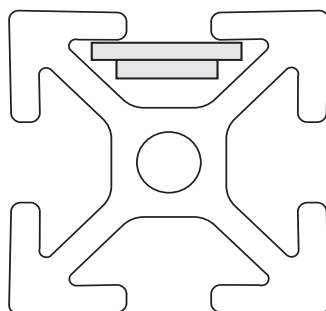
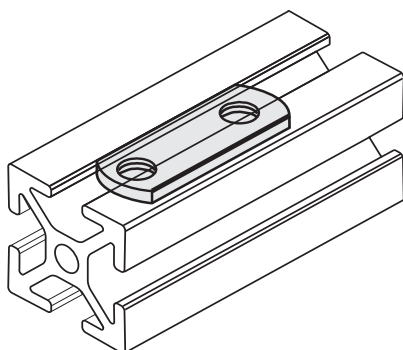
5/16-18 thd (typ.)

1.00



11-361

Triple



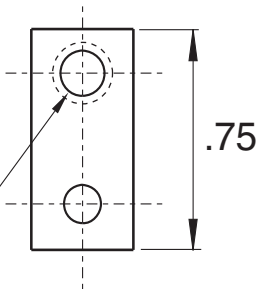
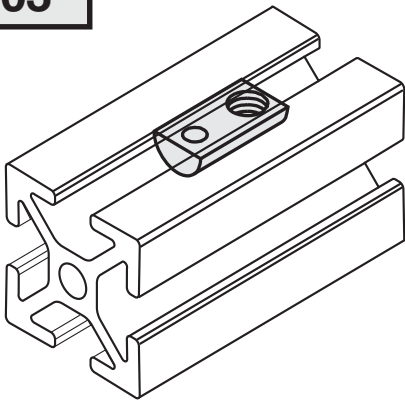
1/4" SLOTS

Material - Steel
Finish - Zinc Plated

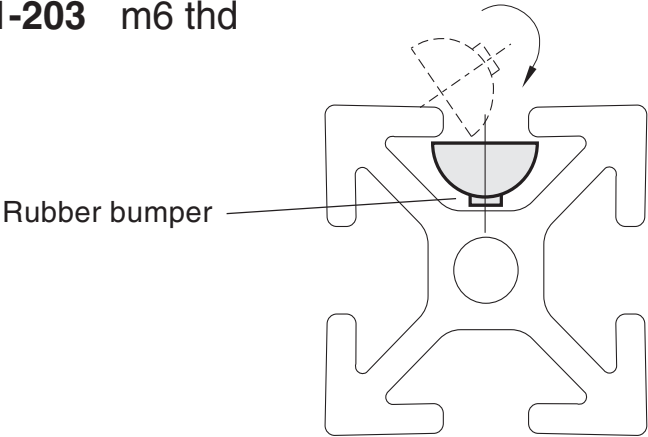
Pivot T-Nut with Rubber Bumper



| |
|--------|
| 11-201 |
| 11-202 |
| 11-203 |

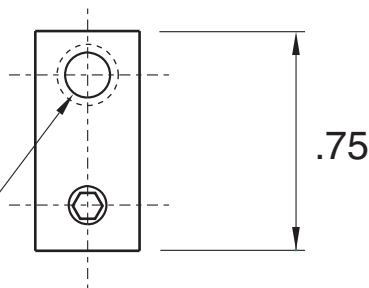
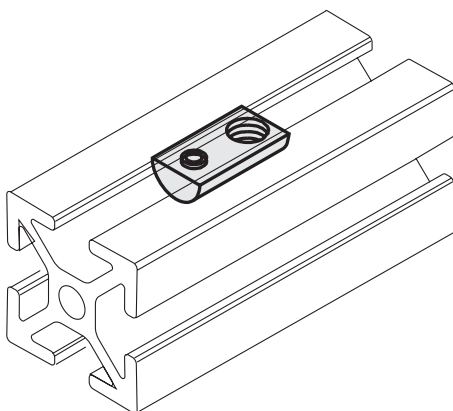


| | |
|----------|------------|
| Part No. | |
| 11-201 | 1/4-20 thd |
| 11-202 | 10-32 thd |
| 11-203 | m6 thd |



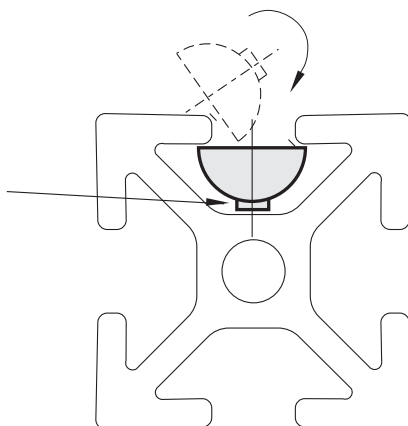
Material - Steel
Finish - Zinc Plated

1/4" SLOTS

11-340
11-341
11-342

11-340 1/4-20 thd

11-341 10-32 thd

11-342 m6 thd

10-32 setscrew
included

1/4" SLOTS

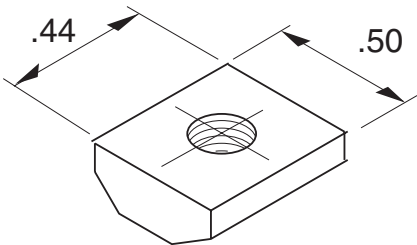
Material - Steel
Finish - Zinc Plated

Heavy Duty T-Nut

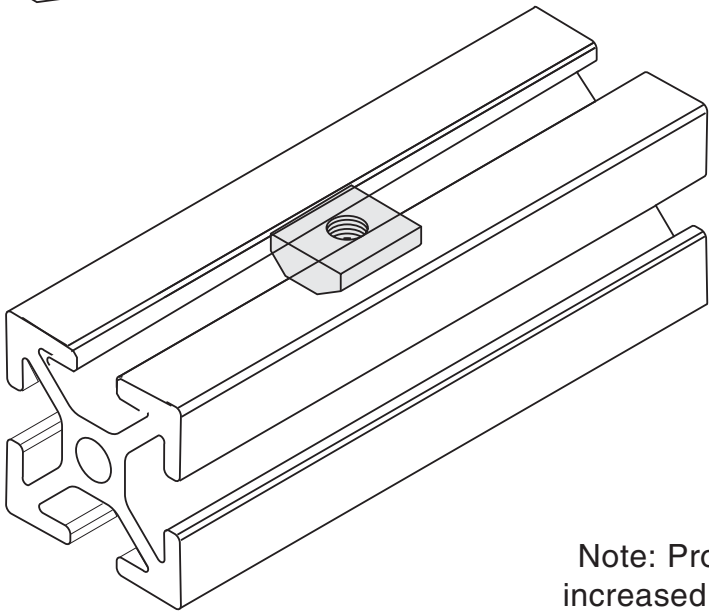


| |
|--------|
| 11-205 |
| 11-206 |
| 11-207 |
| 11-208 |
| 11-209 |

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

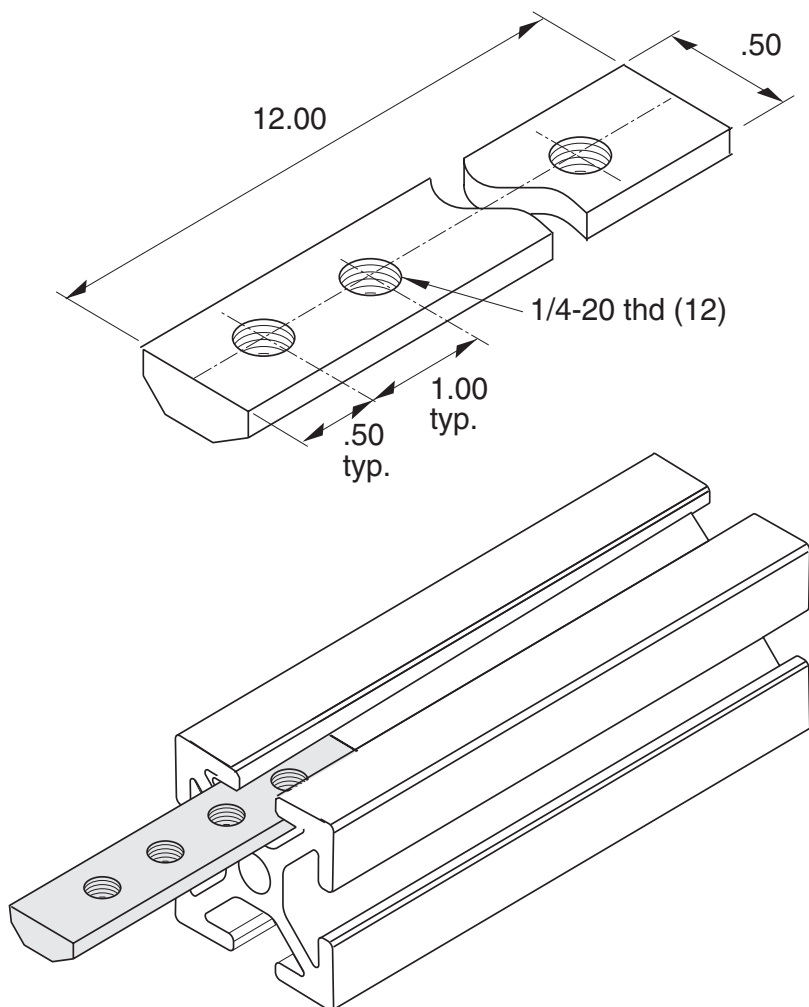


1/4" SLOTS



Note: Provides increased thread engagement

Material - Steel
Finish - Zinc Plated

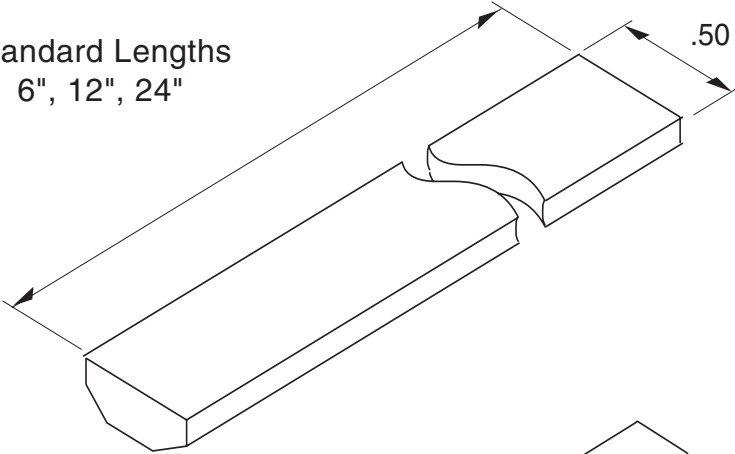
.26 slot width
11-218

1/4" SLOTS

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

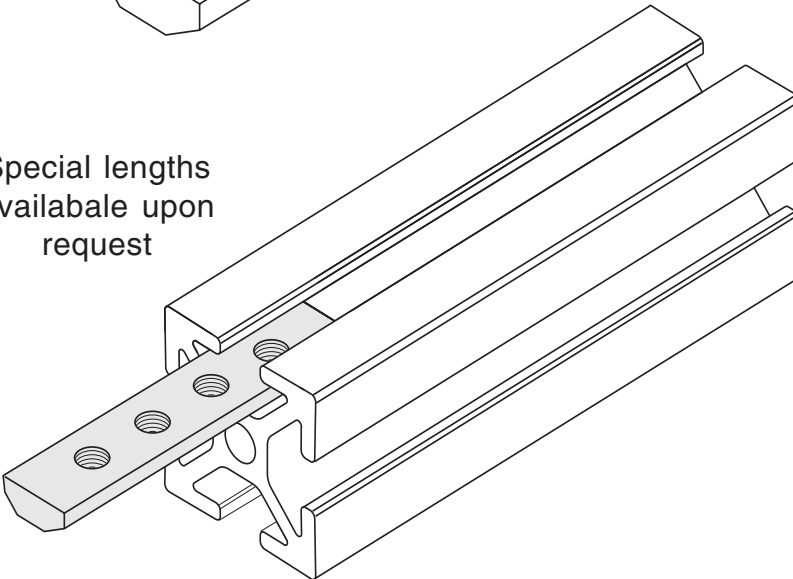
Material - Steel
Finish - Zinc Plated

11-218B .25 inch slot size

Standard Lengths
6", 12", 24"



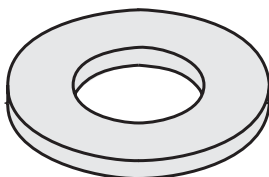
Special lengths
available upon
request



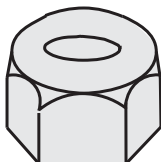
Note: Factory supplied
tapped holes can be
supplied per customer
specification

Material - Steel
Finish - Zinc Plated

| | |
|--------|---------------|
| Washer | 11-240 |
| Nut | 11-241 |

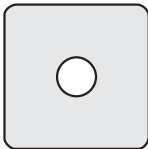


Part No.
11-240 Hardened Steel Washer
 Black Oxide Finish
11-240SS Stainless Steel Washer

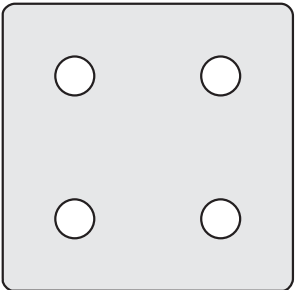


Part No.
11-241 1/4-20 thread hex nut
 Material - Steel
 Finish - Zinc Plated

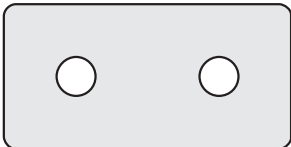
| |
|---------------|
| 11-250 |
| 11-257 |
| 11-258 |
| 11-259 |
| 11-277 |



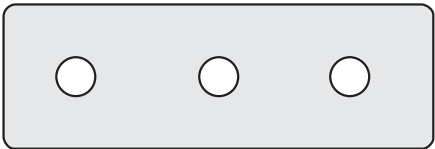
11-250
use with Extrusion EX-11



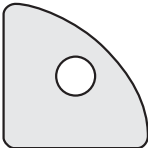
11-258
use with Extrusion EX-22



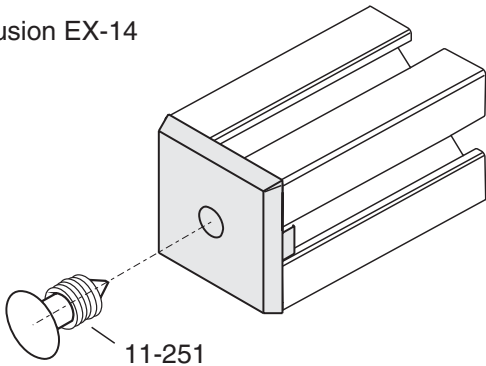
11-257
use with Extrusion EX-12



11-259
use with Extrusion EX-13



11-277
use with Extrusion EX-14

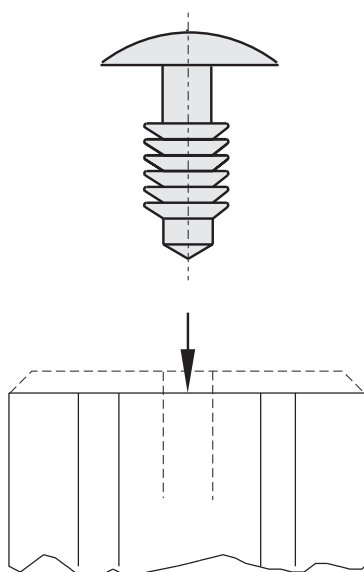


Note: For metal covers,
consult the factory

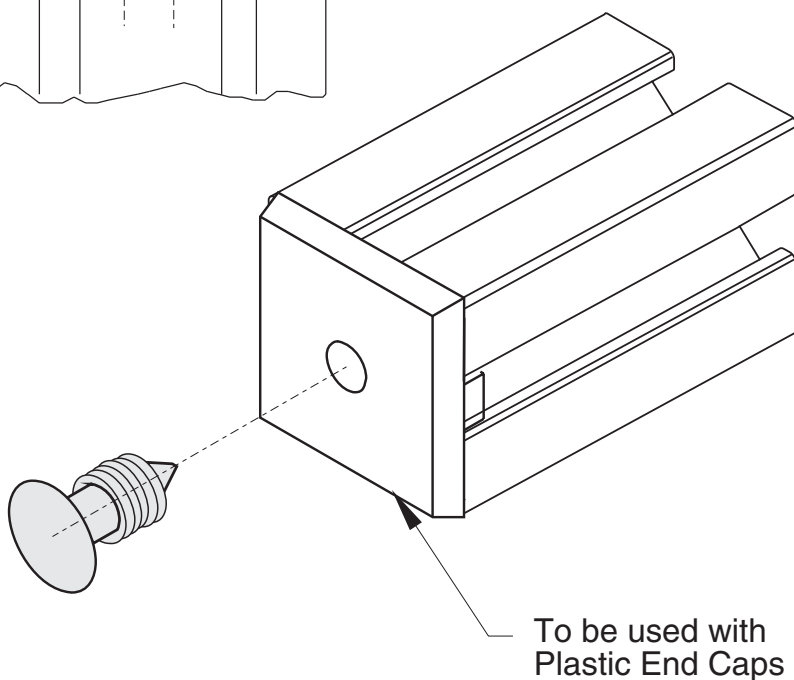
Push Lock Fasteners
Included with each end plate

Material - Black ABS

1/4" SLOTS



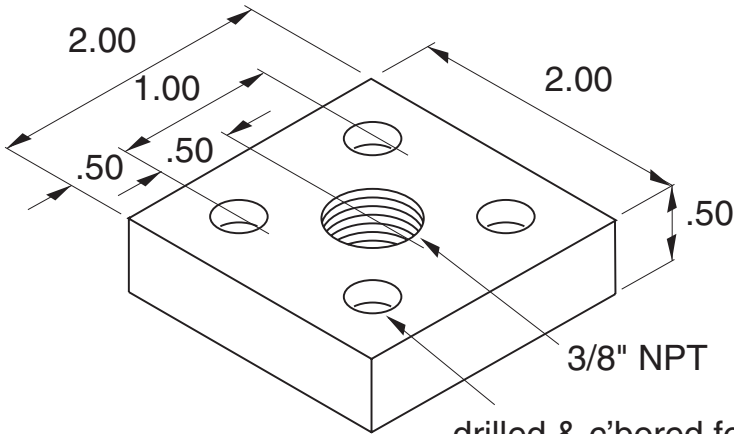
Note: thread bolt hole for
permanent installation



1/4" SLOTS

Material - Nylon

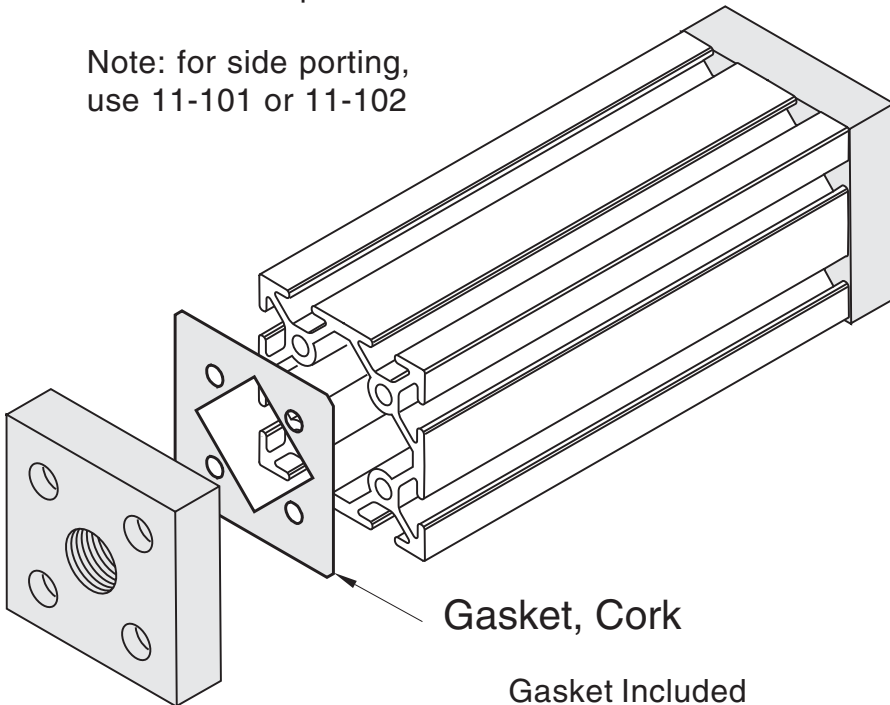
11-100



Cross Sectional
Area = 1.63 sq. in.

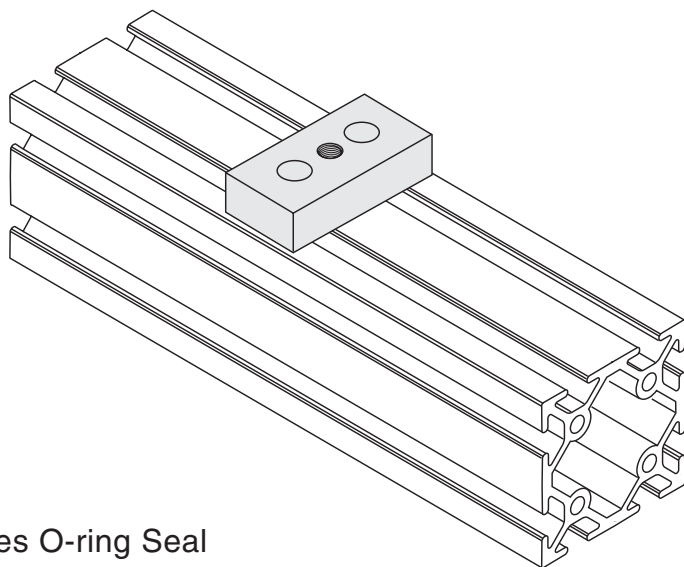
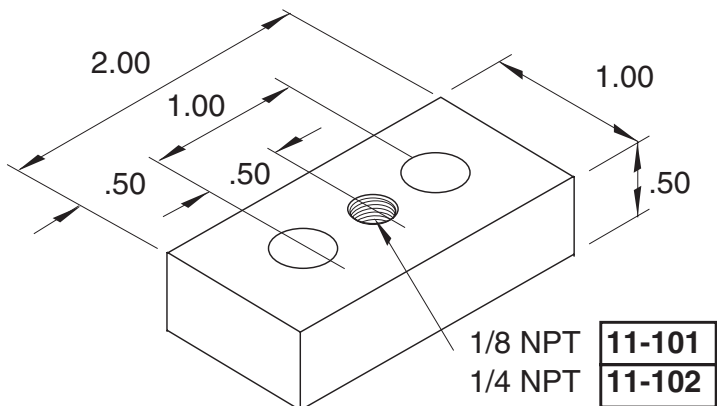
drilled & c'bored for
1/4-20 shcs (4)

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



Gasket Included
Requires (4) 11- 224 SHCS

Material - Aluminum
Finish - Clear Anodize

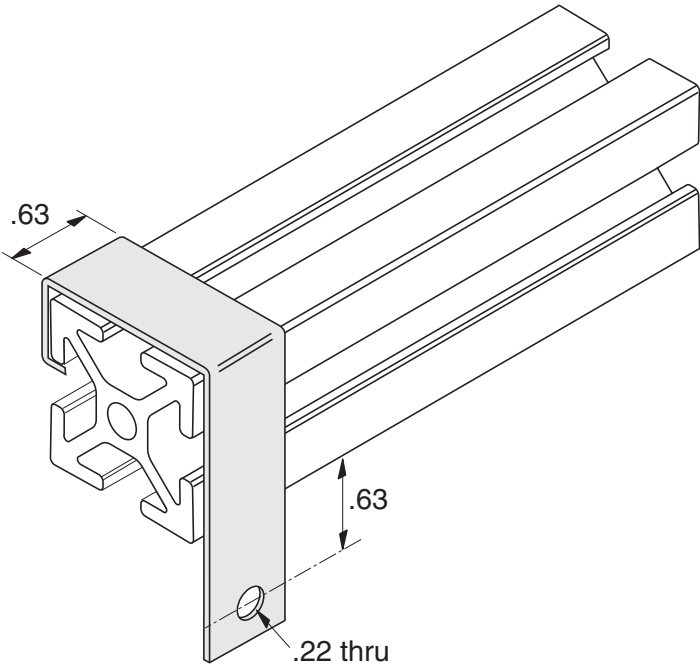
11-101
11-102


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

11-190



1/4" SLOTS

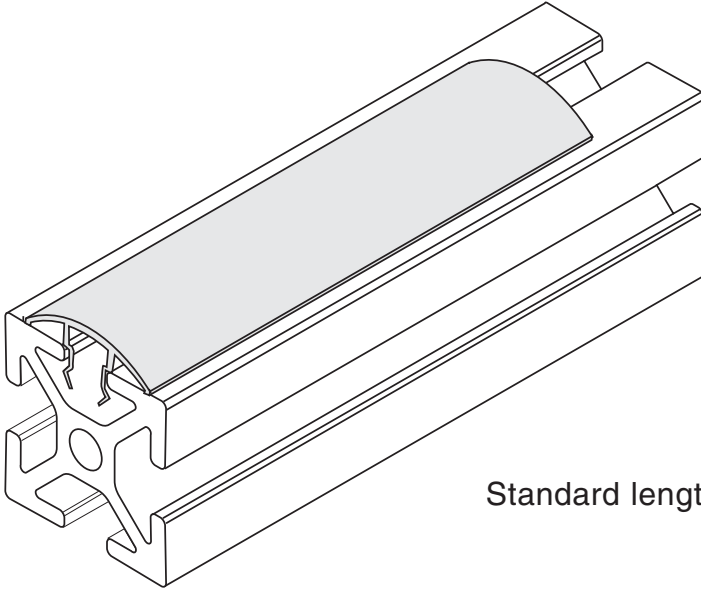
Material Steel
Finish: Zinc Plated



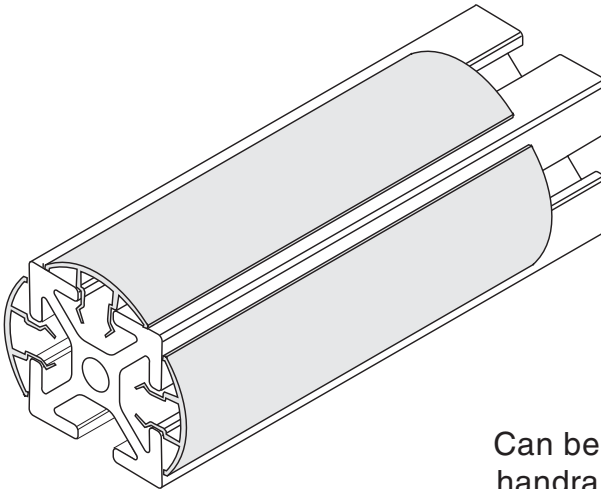
Extrusion Molding

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

11-320



Standard length 72"



Can be used as
handrail covers

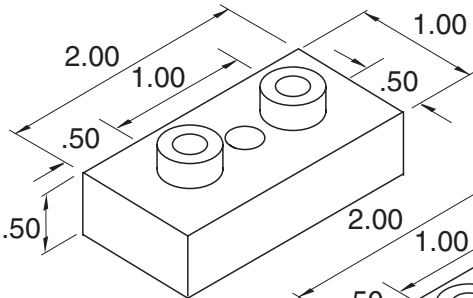
Material - Rigid PVC
Color - Black

1/4" SLOTS

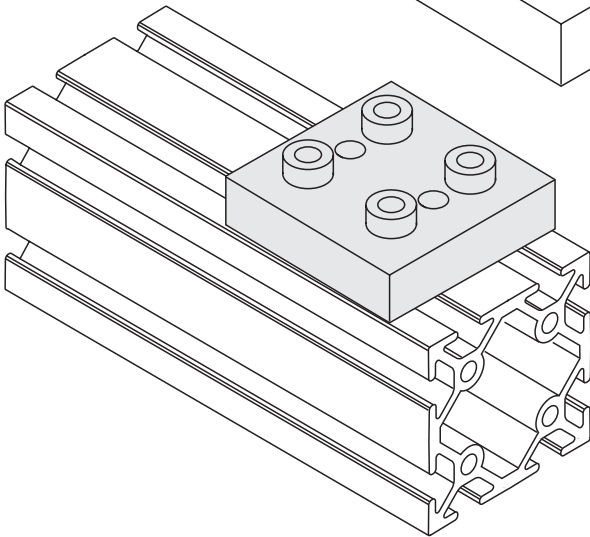
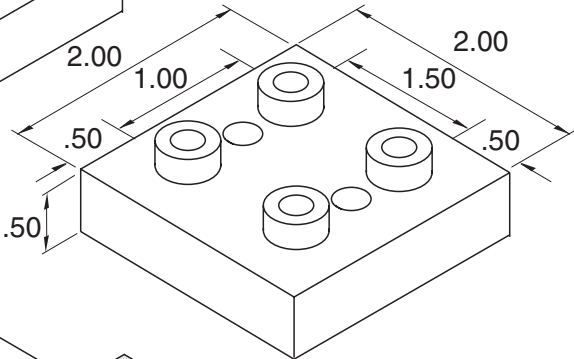
Drill Fixture



| |
|---------------|
| 11-150 |
| 11-151 |



Hardware Included



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

Material - Aluminum
Finish - Clear Anodize



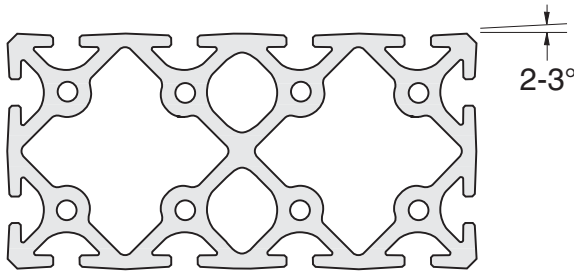
Frame World Extruded Aluminum Specifications and Tolerances

- **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.

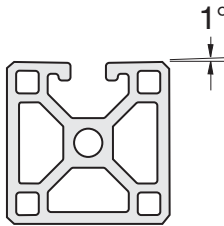
Metric Sizes for *Frame World* Extrusions and Accessories

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 from the extrusion edge to slot centerline.



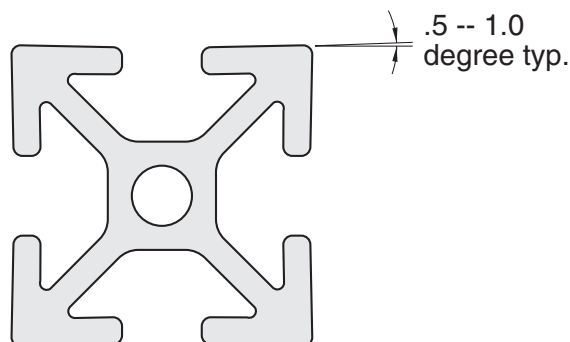
Our EX-4, EX-5, EX-6, EX-7, EX-52, EX-54, EX-61, EX-63, EX-64, EX-65, EX-67 and EX-68 extrusions have a 1 degree decline from the extrusion edge.

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 - 15 to 20 ft/lbs.

Self Locking Feature (1/4" wide slots)



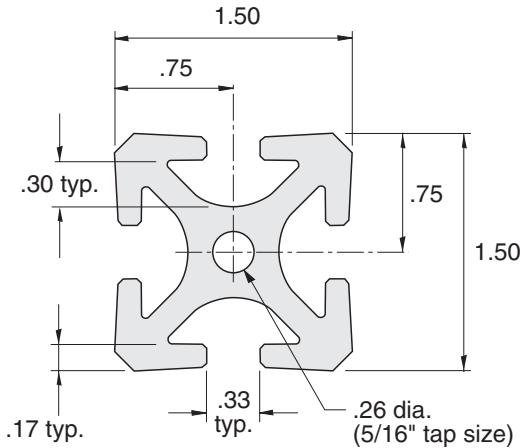
The *Frame World* EX-11, EX-12, EX-13, EX-22, EX-70, EX-71, EX-72, EX-73 and EX-24 extrusions have a .5 – 1.0 degree decline from extrusion edge to slot centerline.

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 - 12 to 17 ft/lbs.

EX-1

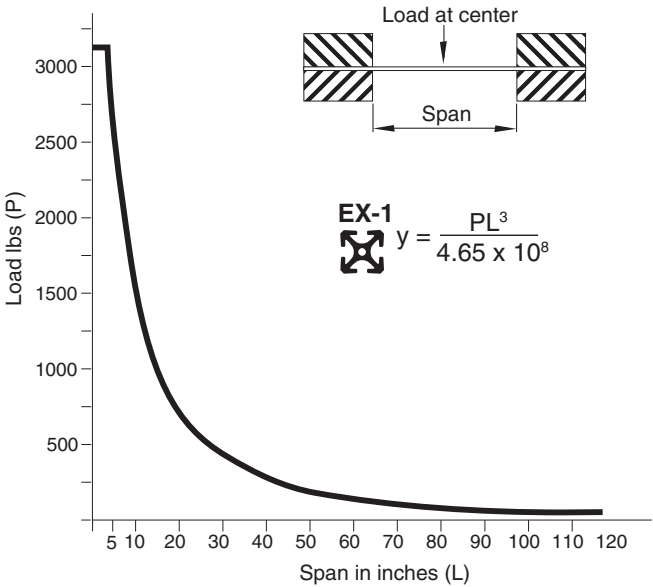


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.164 Sq. In.
- Weight/ft = 1.4522 lbs.
- 96", 144.75", 193.5" Lengths standard.

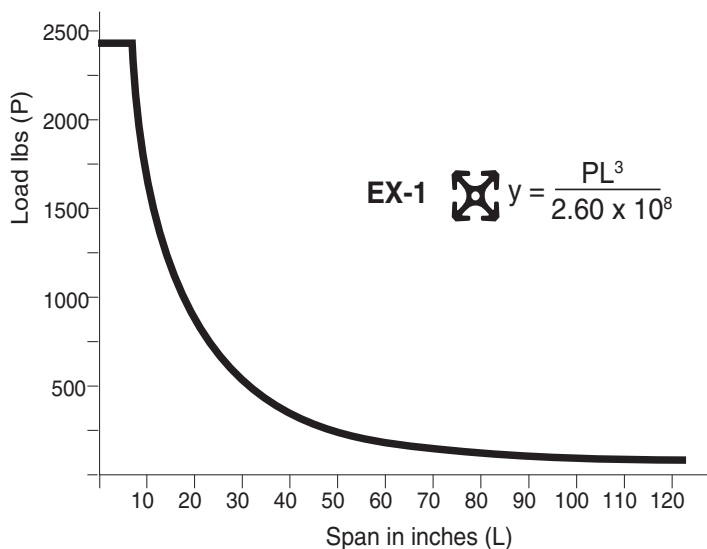
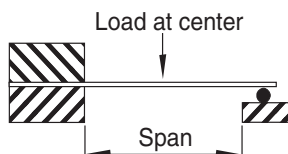
Section Properties:

| | |
|------------------------------------|------|
| Moment of Intertia in ⁴ | .242 |
| Section modulus in ³ | .323 |

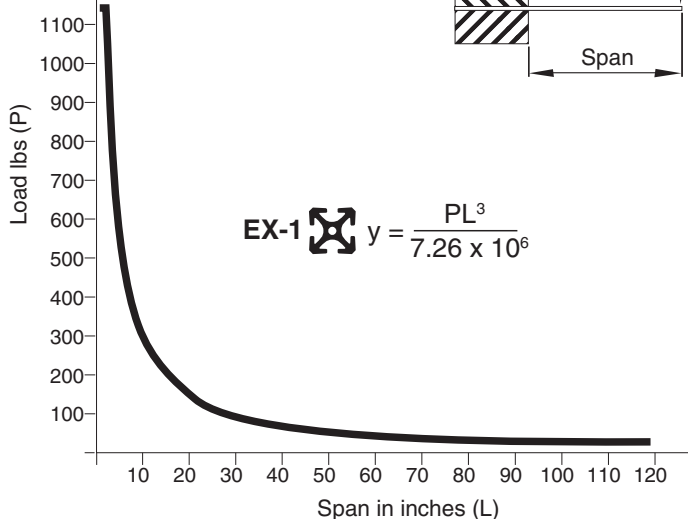
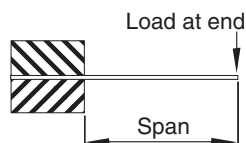
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



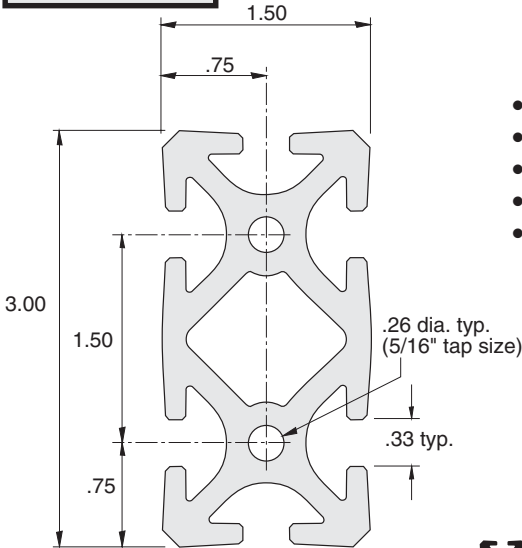
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-2



- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 2.051 Sq. In.
- Weight/ft = 2.471 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

Moment of Inertia in⁴

Section modulus in³

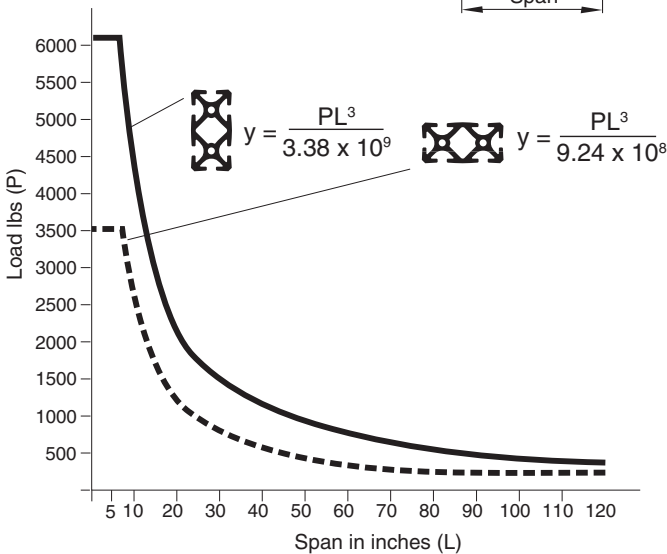
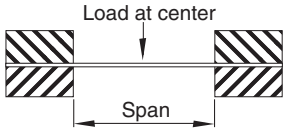
1.76

1.173

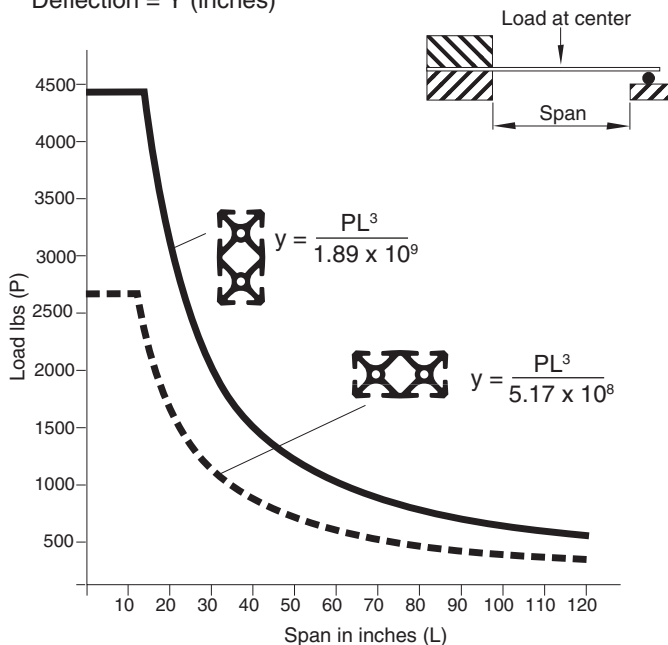
.481

.641

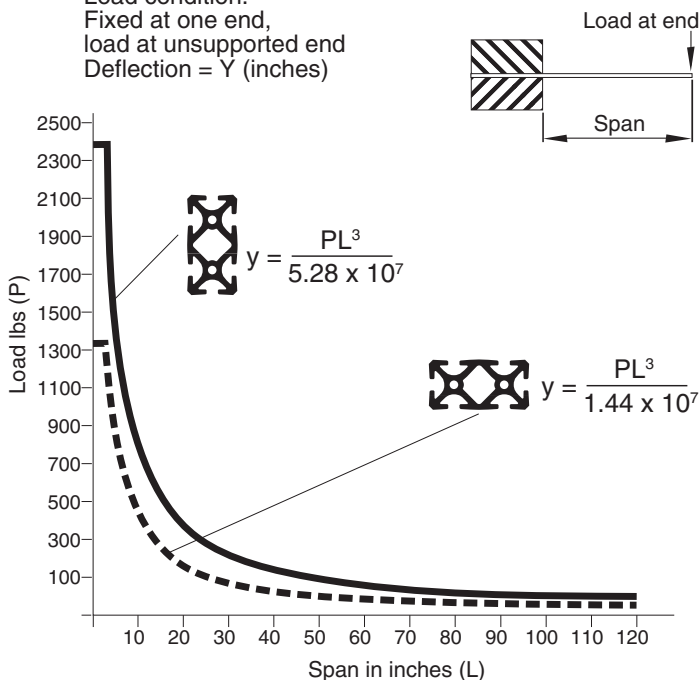
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



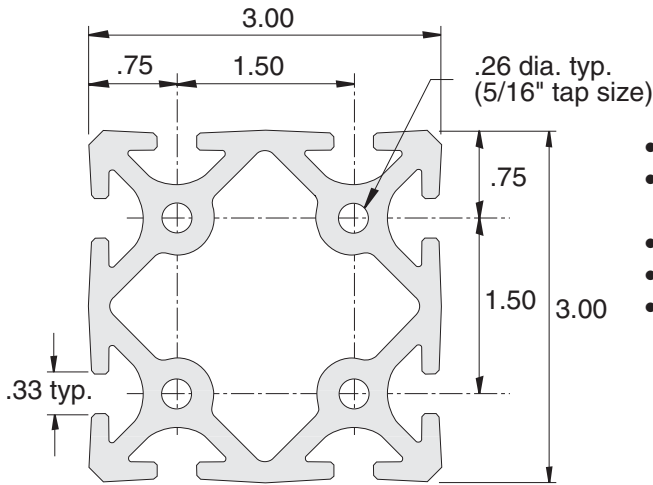
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-3



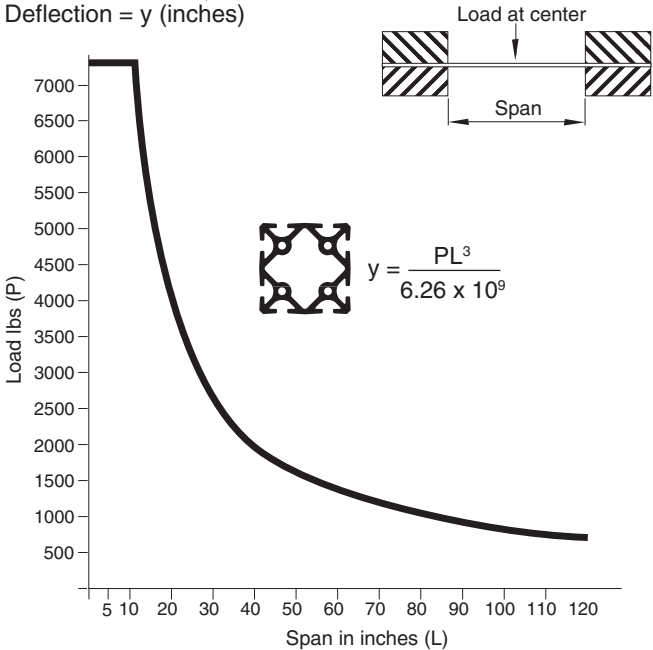
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 3.188 Sq. In.
- Weight/ft = 4.037 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

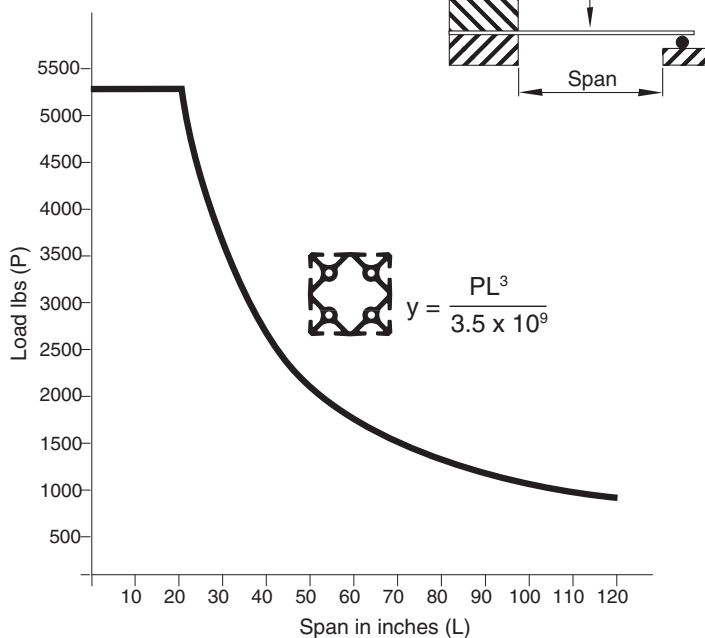
| | |
|-----------------------------------|-------|
| Moment of Inertia in ⁴ | 3.26 |
| Section modulus in ³ | 2.173 |



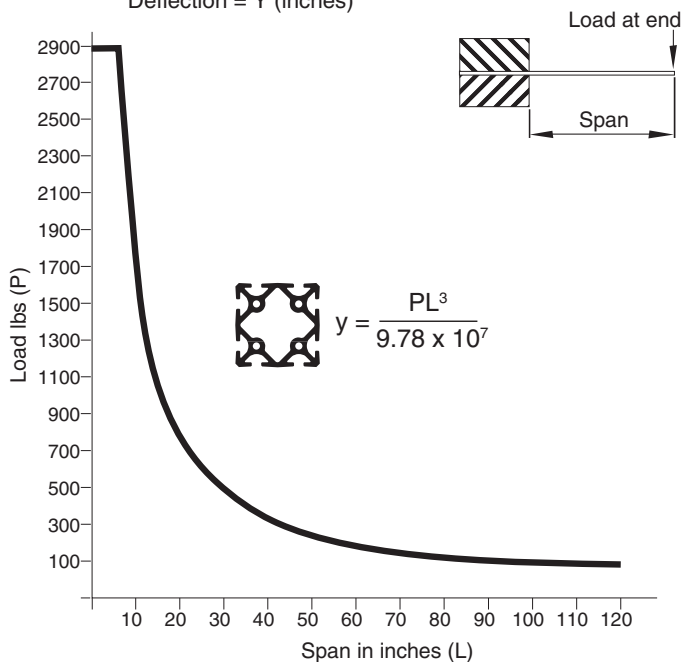
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



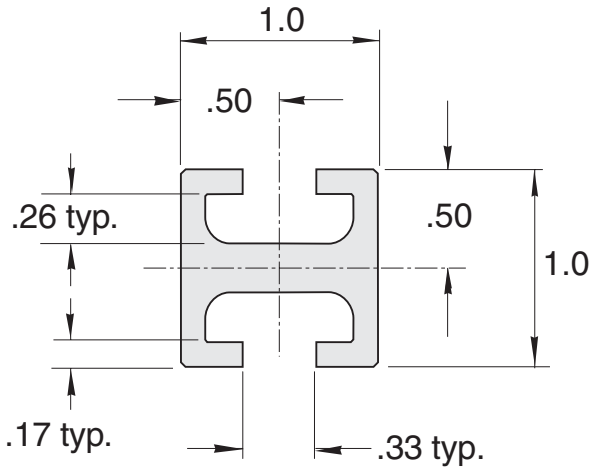
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



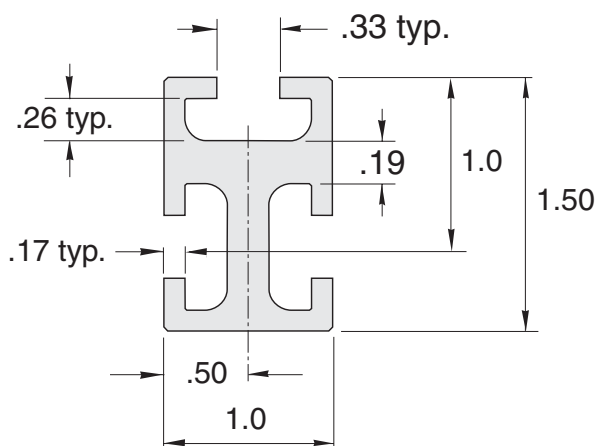
Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-4

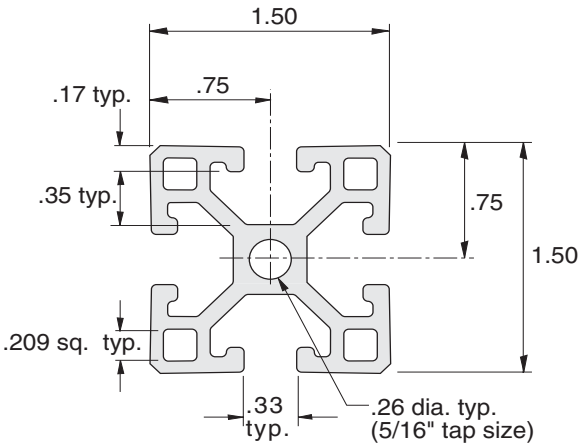


- Finish = Clear anodized
- Material = 6061-T6 Aluminum
- Est. Area = .496 Sq. In.
- Weight/ft = .596 lbs.
- 96" Lengths standard.



- Finish = Clear anodized
- Material = 6061-T6 Aluminum
- Est. Area = .746 Sq. In.
- Weight/ft = .895 lbs
- 96" Lengths standard.

EX-6

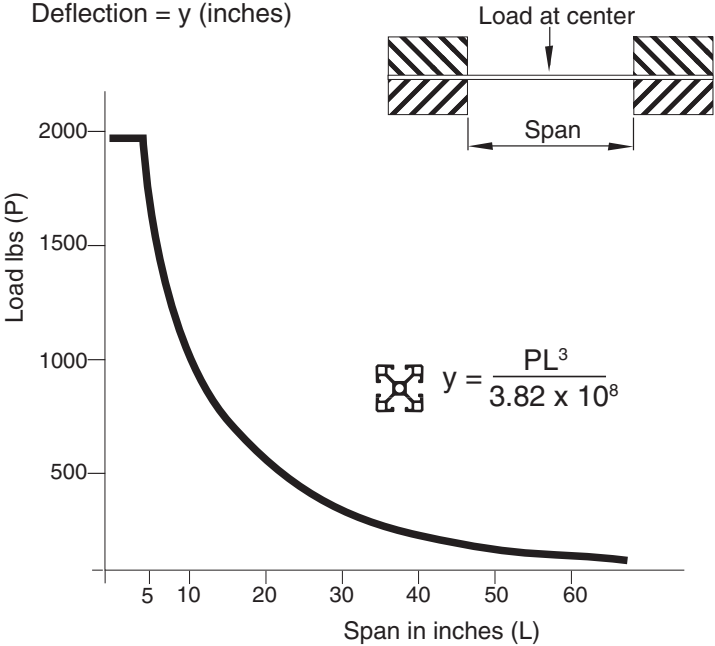


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .878 Sq. In.
- Weight/ft = 1.029 lbs.
- 96", 144.75", 193.5" Lengths standard.

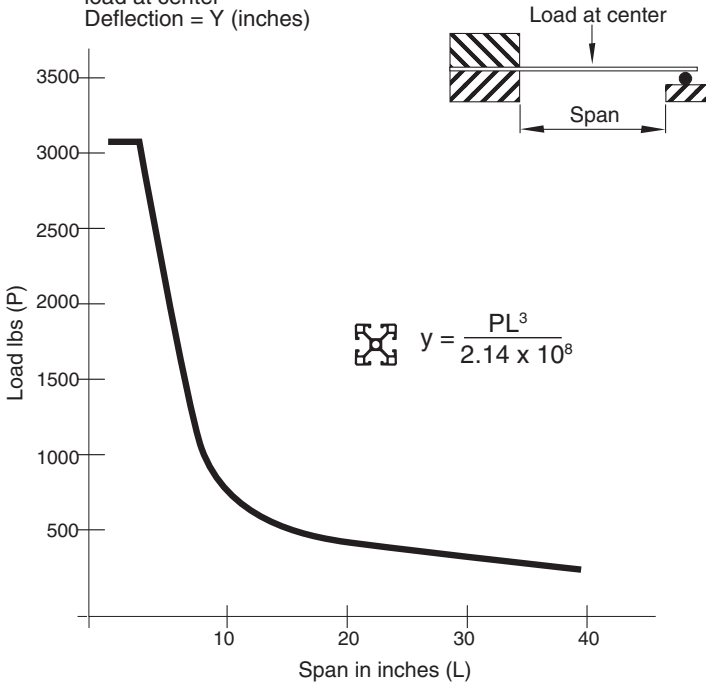
Section Properties:

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

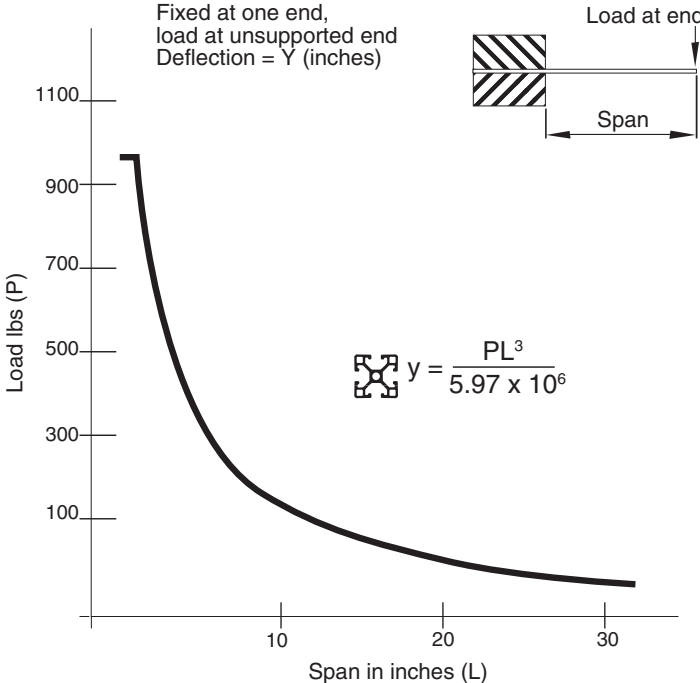
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



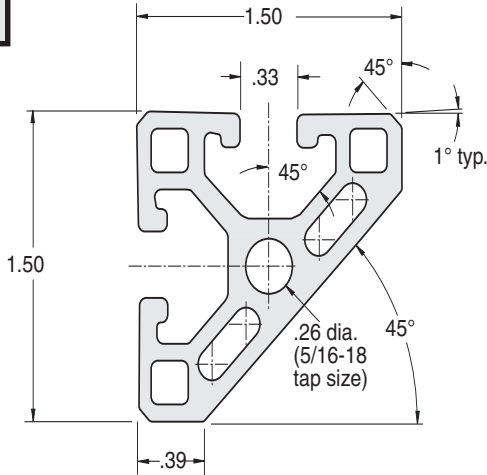
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-7

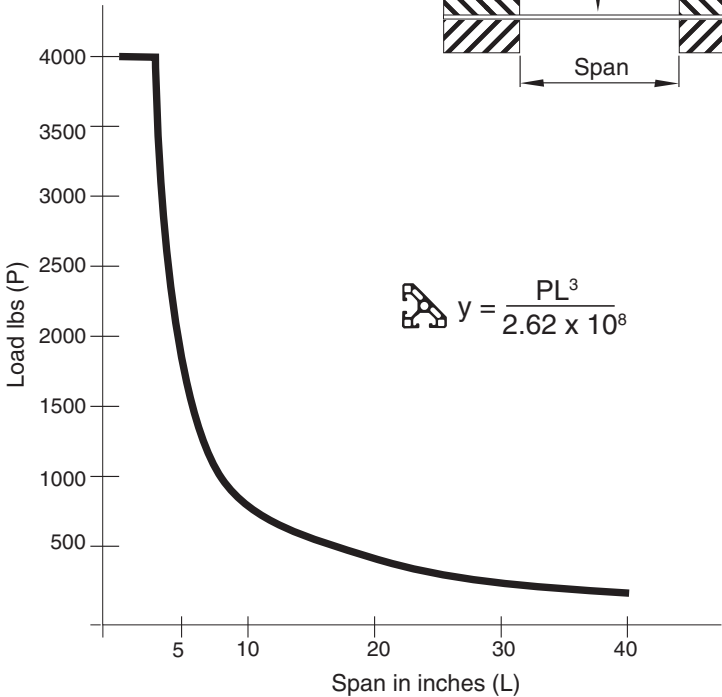
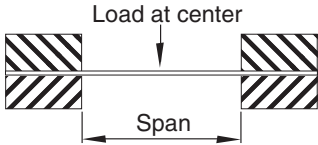


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .729 Sq. In.
- Weight/ft = .854 lbs.
- 96", 193.5" Lengths standard.

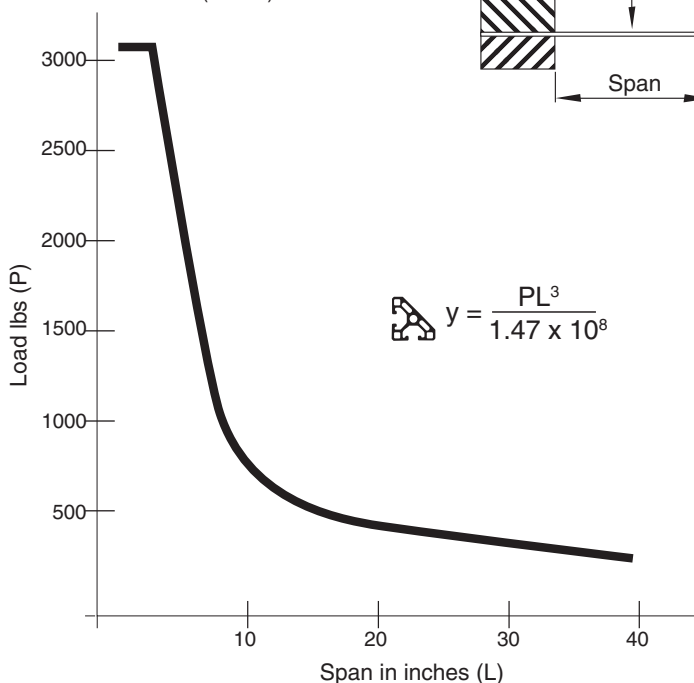
Section Properties:

| | |
|------------------------------------|------|
| Moment of Intertia in ⁴ | .137 |
| Section modulus in ³ | .195 |

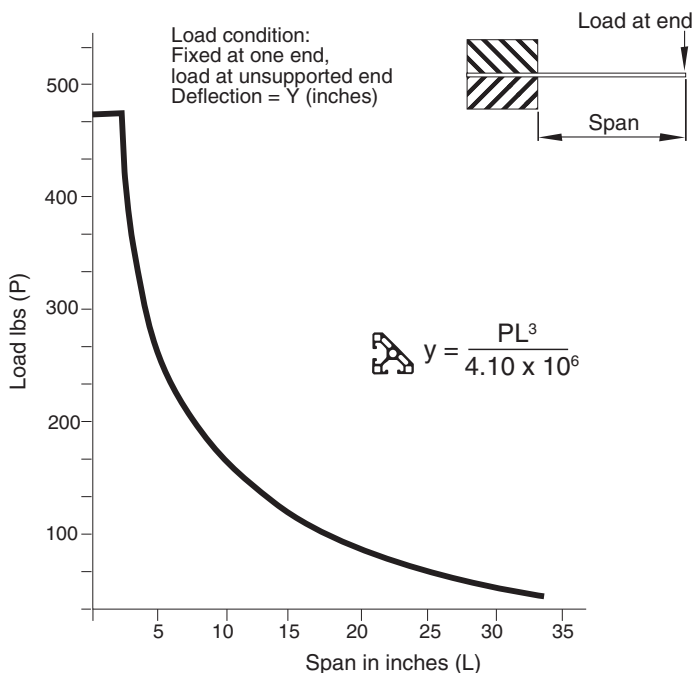
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



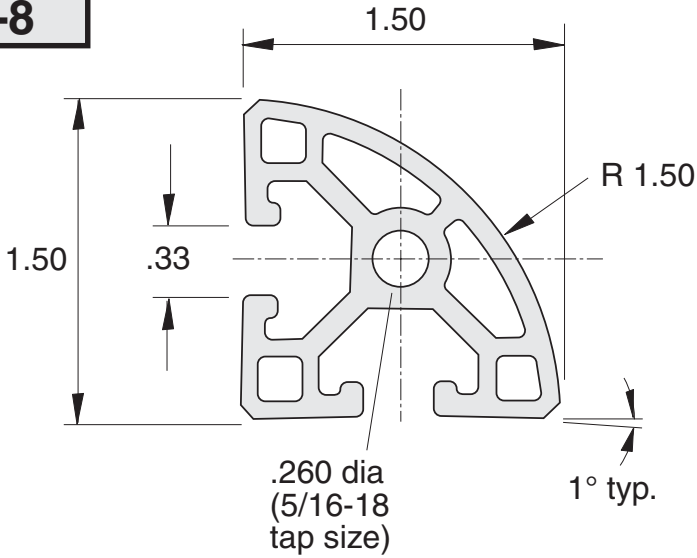
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-8

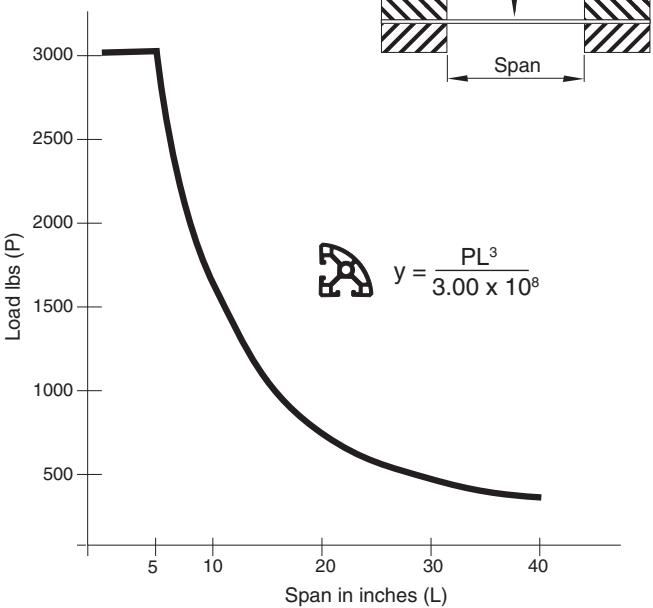


- Finish = Clear anodized
- Material = 6105-T6 Aluminum
- Est. Area = .803 Sq. In.
- Weight/ft = .945 lbs.
- 96", 193.5" Lengths standard.

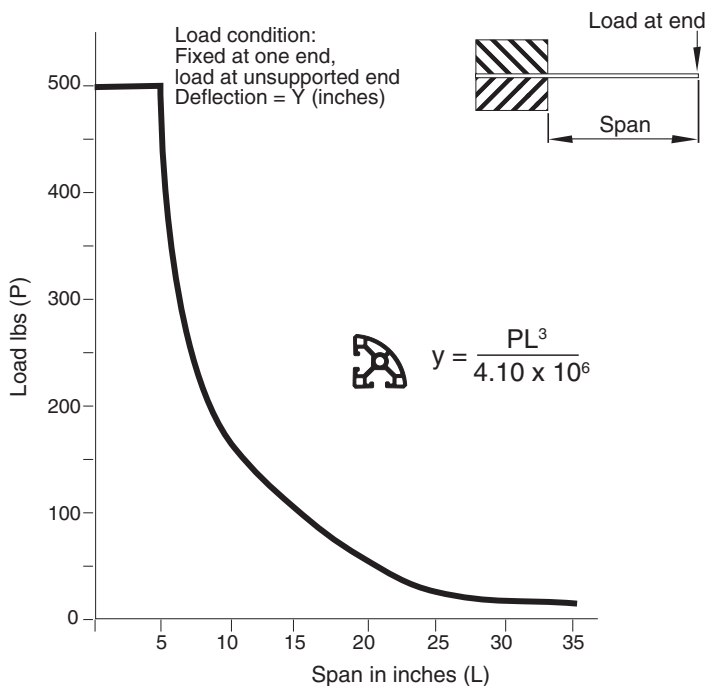
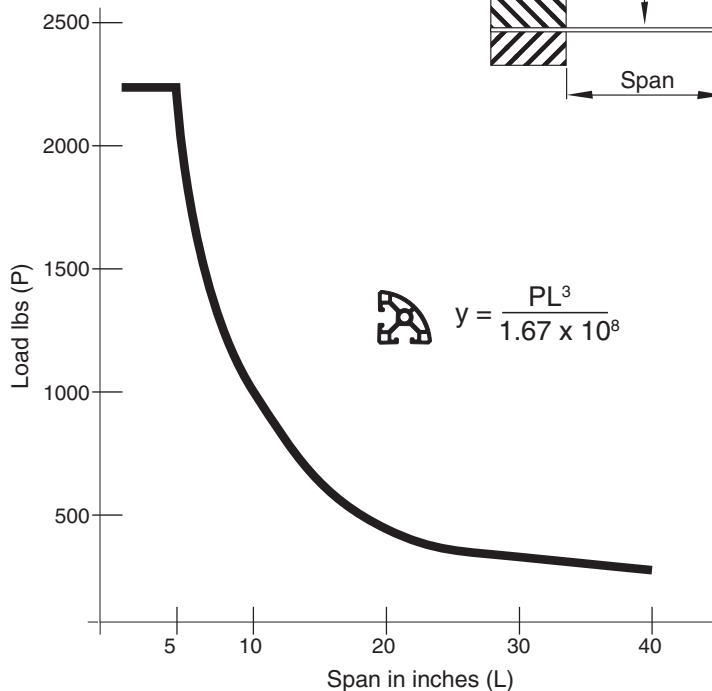
Section Properties:

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

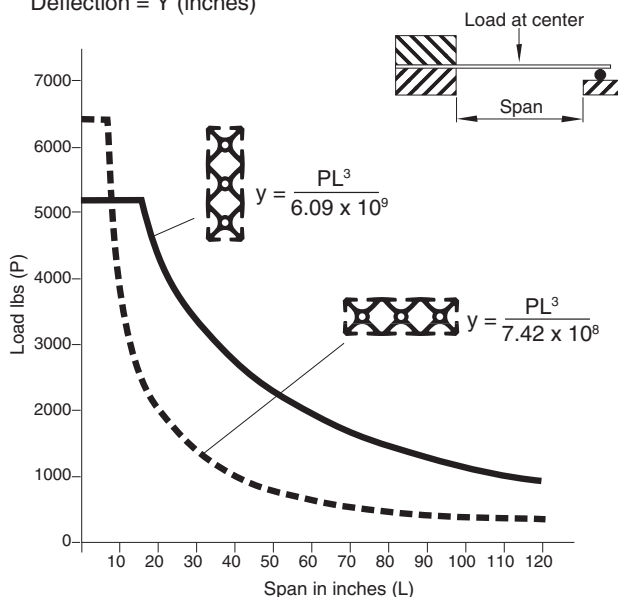
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



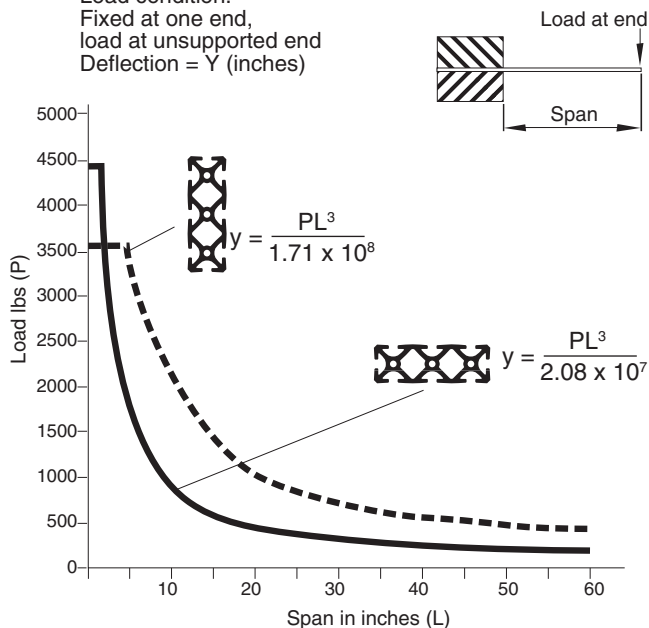
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



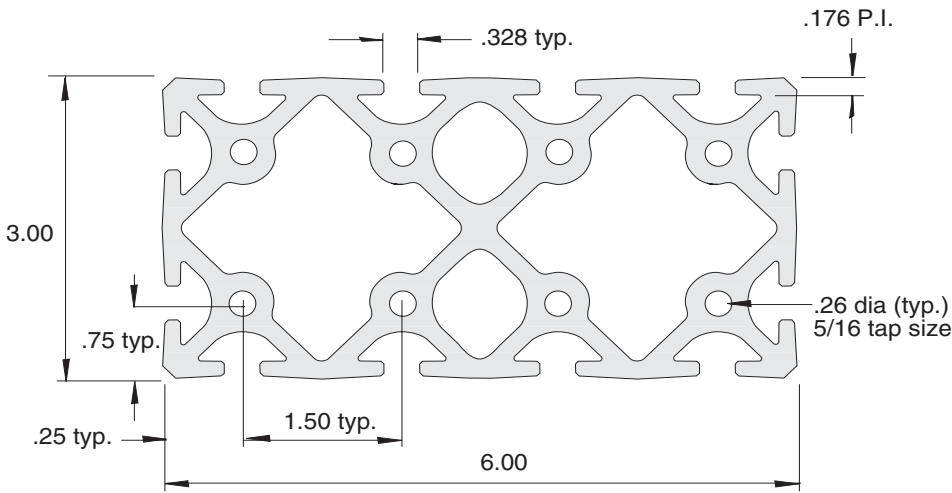
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-36

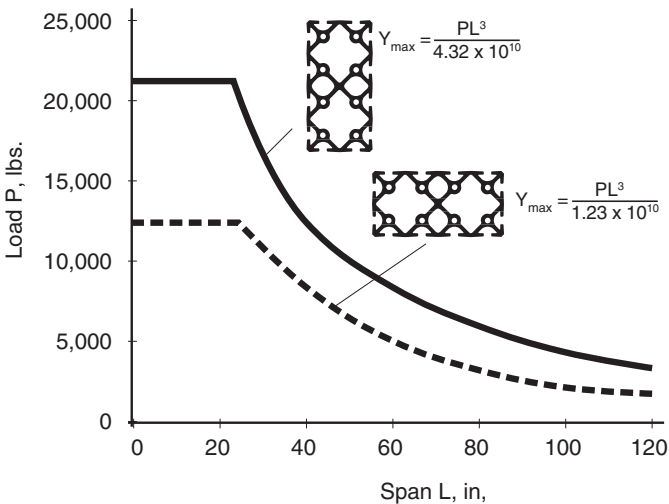
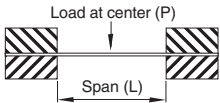


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 5.924 Sq. In.
- Weight/ft = 6.967 lbs.
- 96", 144.75", 193.5" Lengths standard.

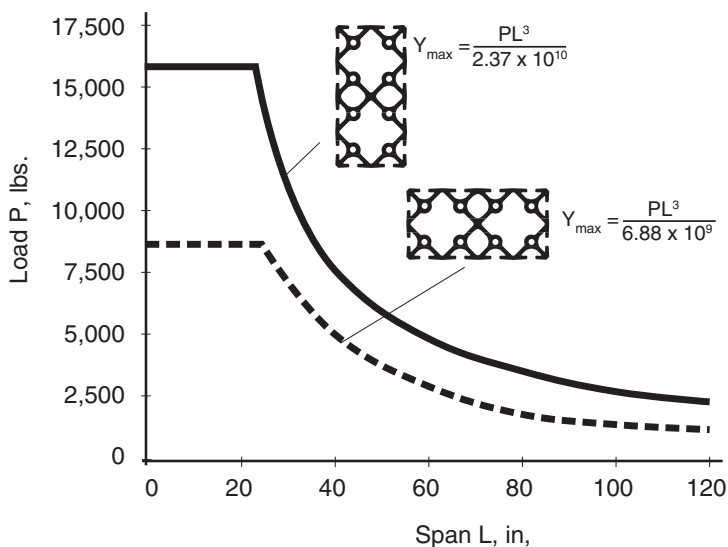
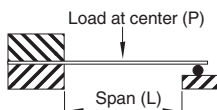
Section Properties:

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

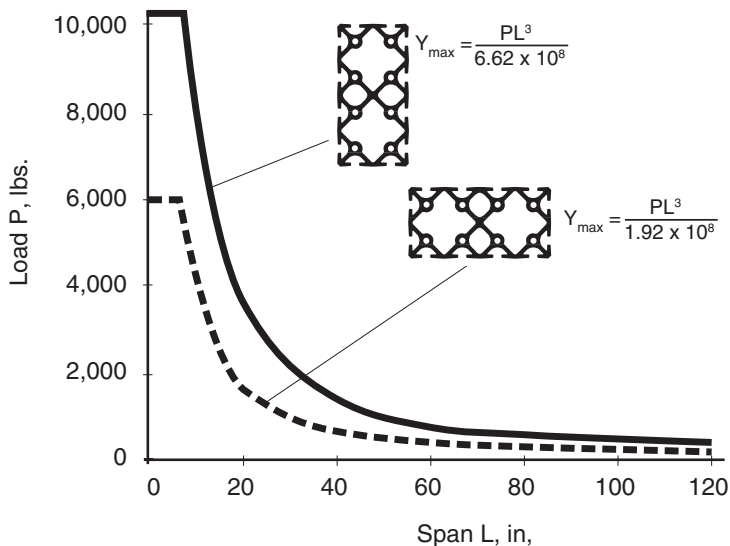
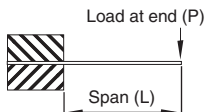
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



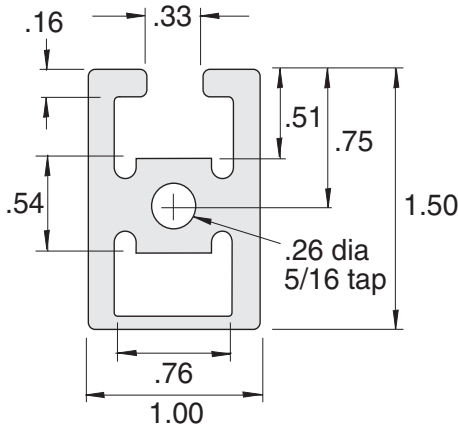
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-52



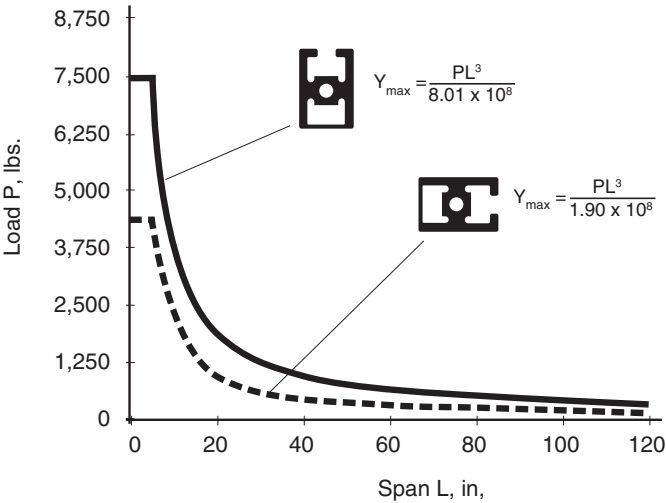
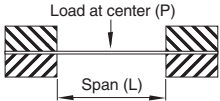
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .818 Sq. In.
- Weight/ft = .954 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

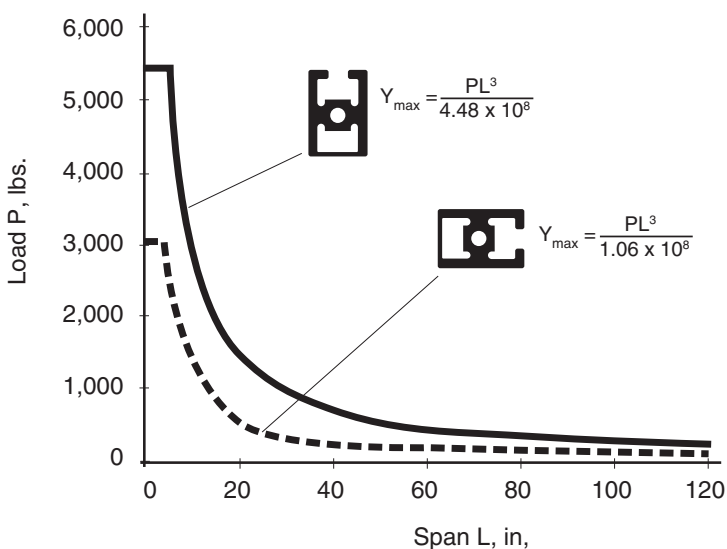
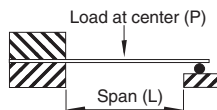
| | | |
|-----------------------------------|-------|-------|
| Moment of Inertia in ⁴ | 0.417 | 0.099 |
| Section modulus in ³ | 0.549 | 0.198 |



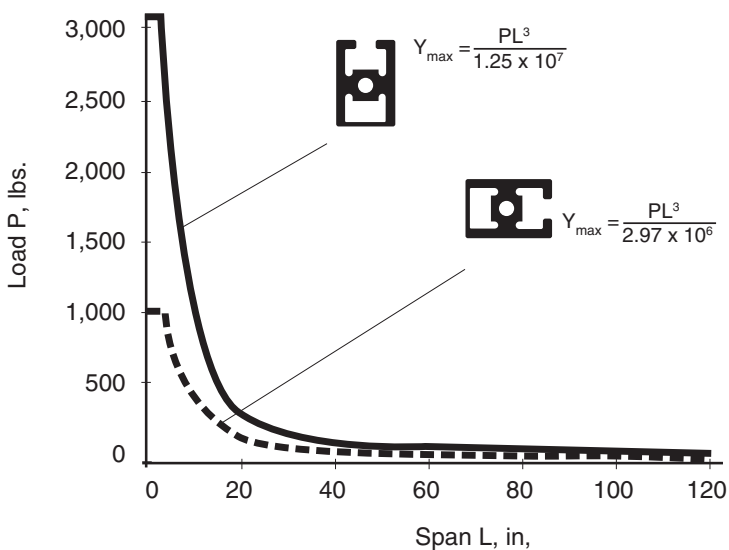
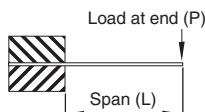
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



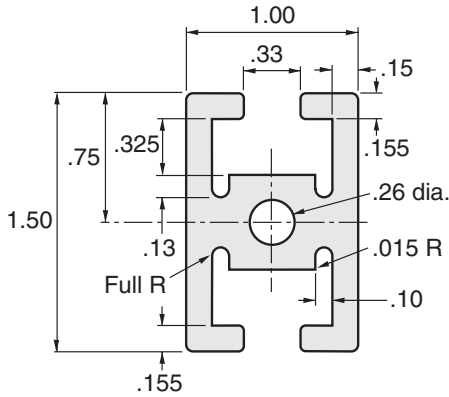
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-54



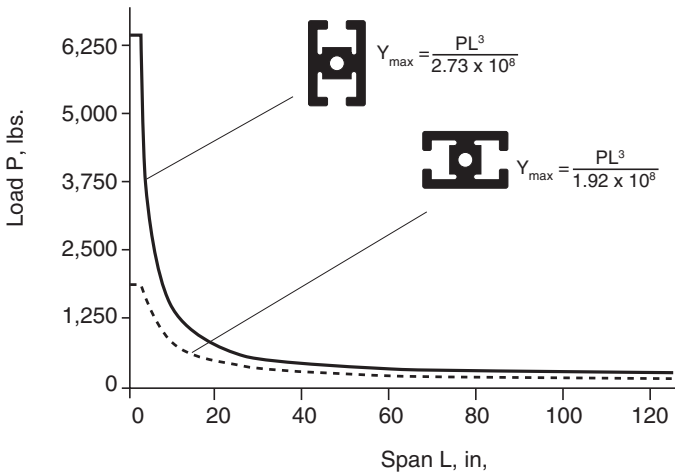
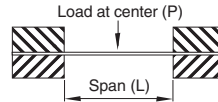
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .840 Sq. In.
- Weight/ft = 1.008 lbs.
- 96", 144.75", 193.5" Lengths standard.



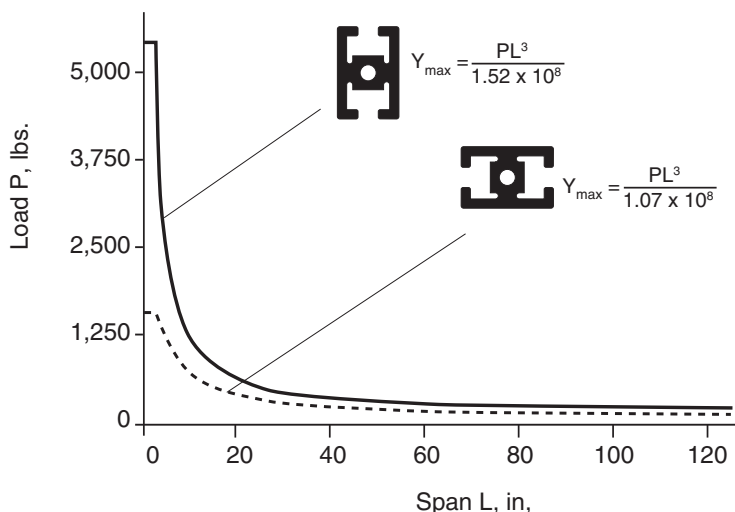
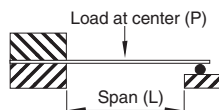
Section Properties:

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

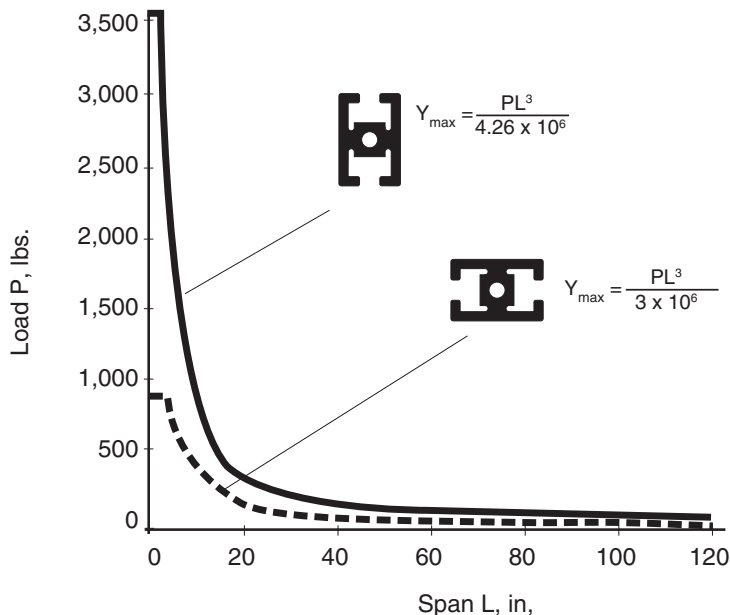
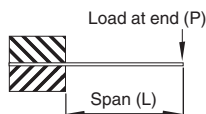
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



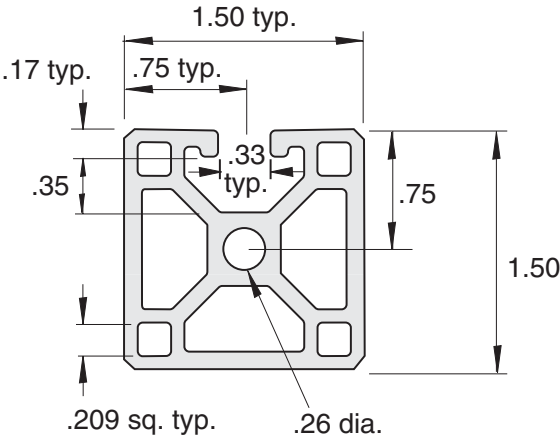
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-61



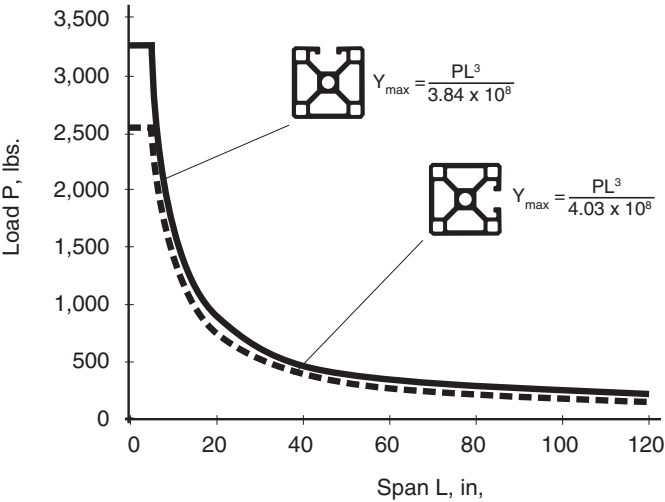
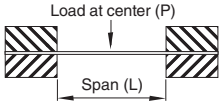
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .866 Sq. In.
- Weight/ft = 1.018 lbs
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

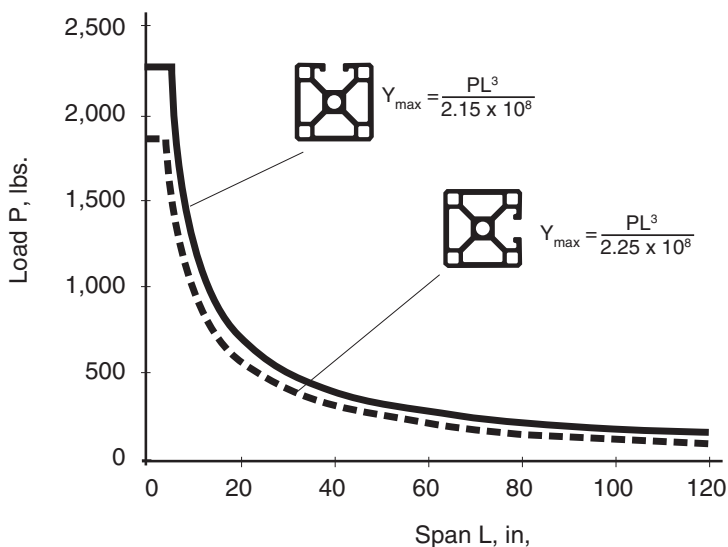
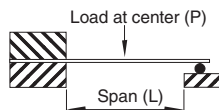
| | | |
|------------------------------------|-------|-------|
| Moment of Intertia in ⁴ | 0.200 | 0.210 |
| Section modulus in ³ | 0.267 | 0.276 |



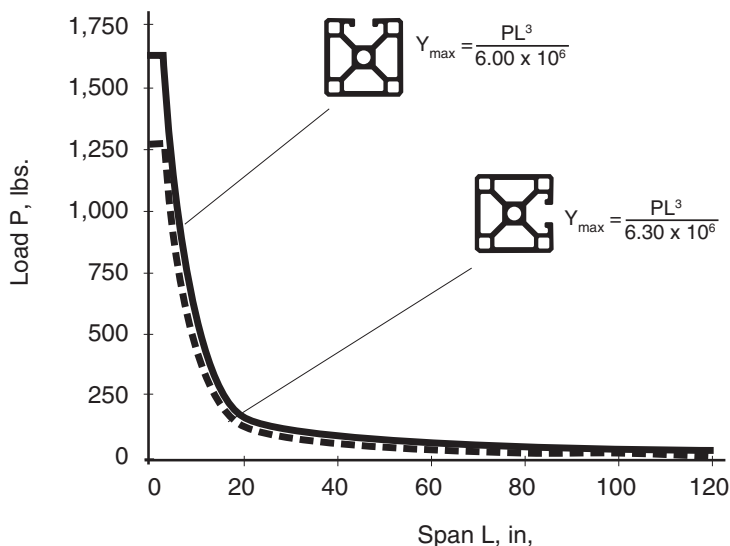
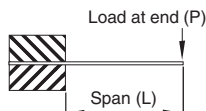
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



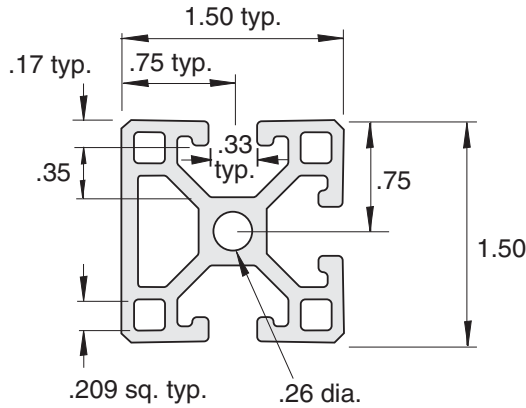
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-63



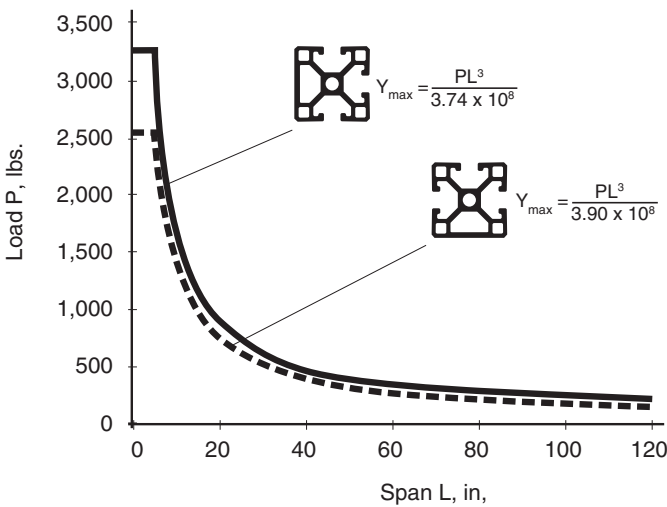
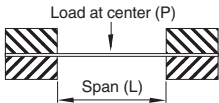
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .833 Sq. In.
- Weight/ft = .980 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

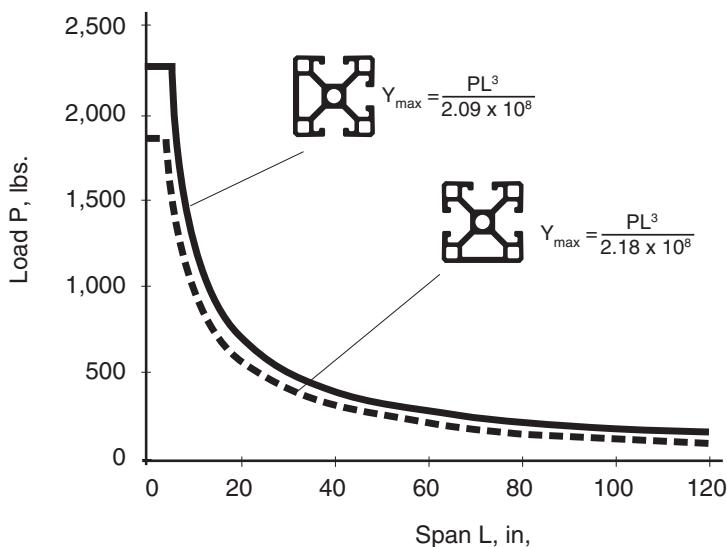
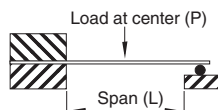
| | | |
|------------------------------------|-------|-------|
| Moment of Intertia in ⁴ | 0.195 | 0.203 |
| Section modulus in ³ | 0.260 | 0.267 |



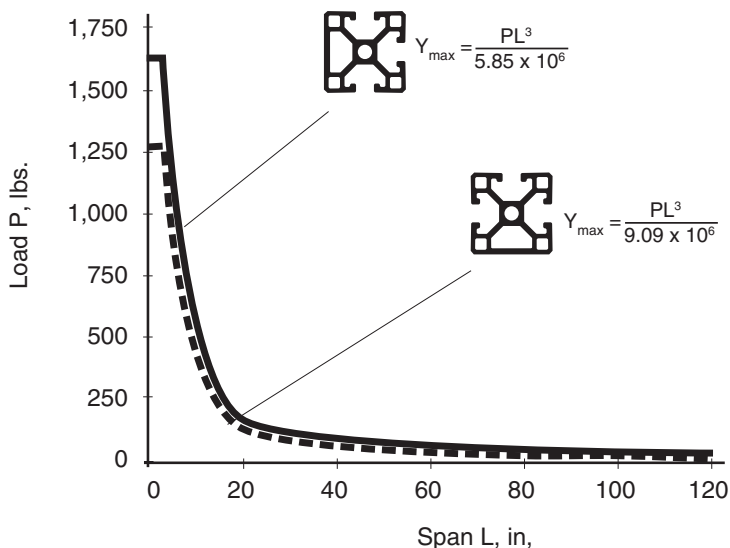
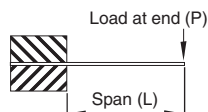
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



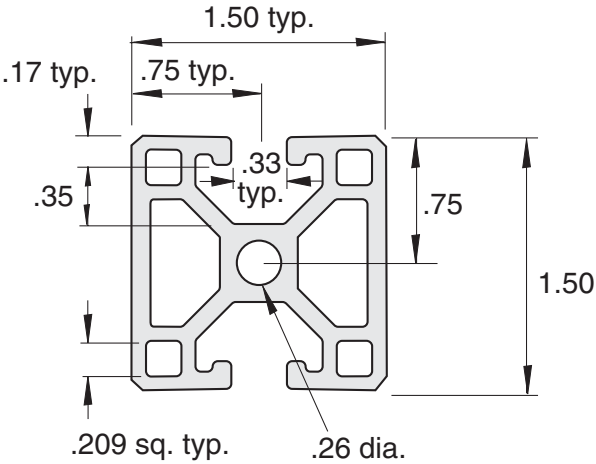
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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", 144.75", 193.5" Lengths standard.

Section Properties:

Moment of Inertia in⁴

Section modulus in³



0.190

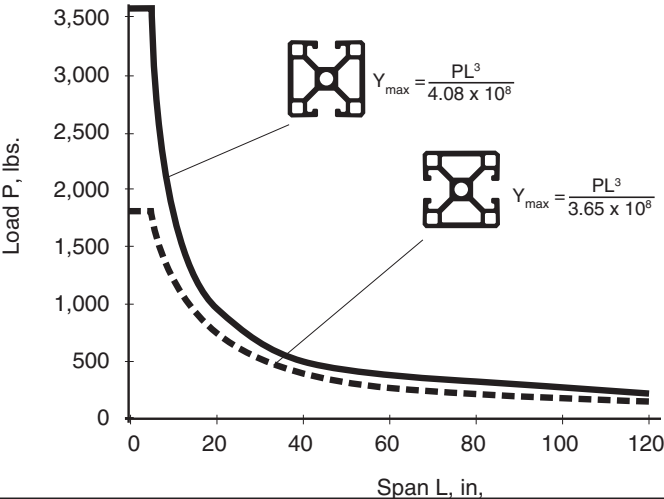
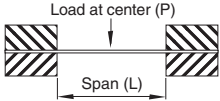
0.253



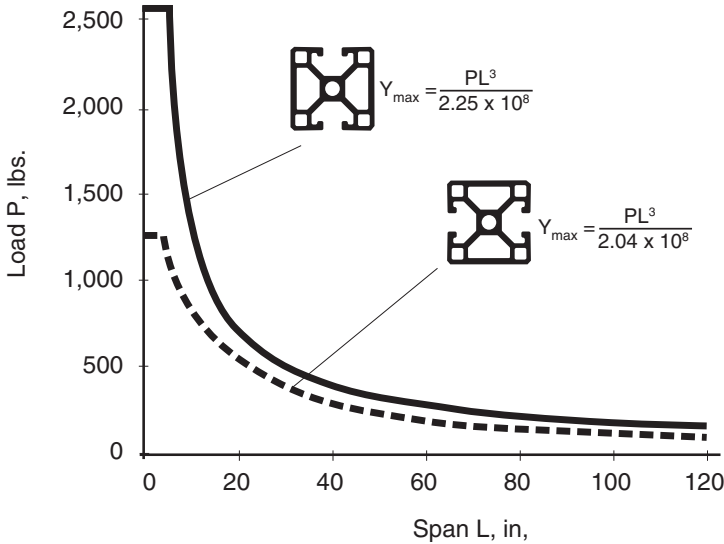
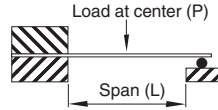
0.210

0.280

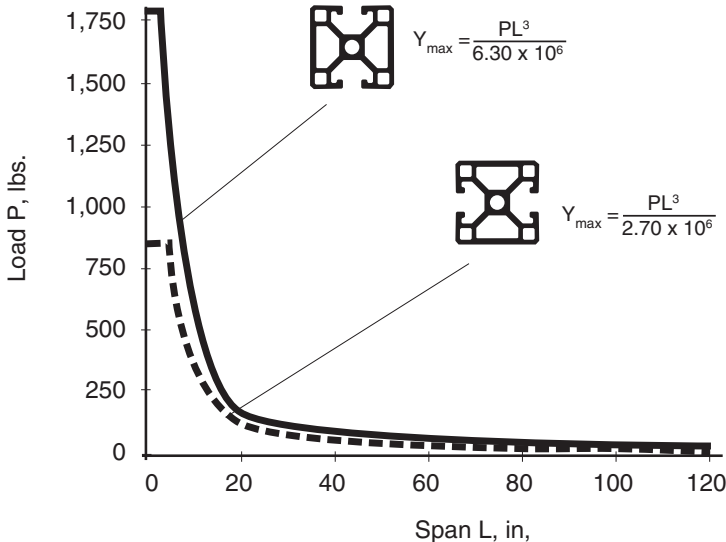
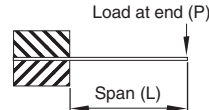
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



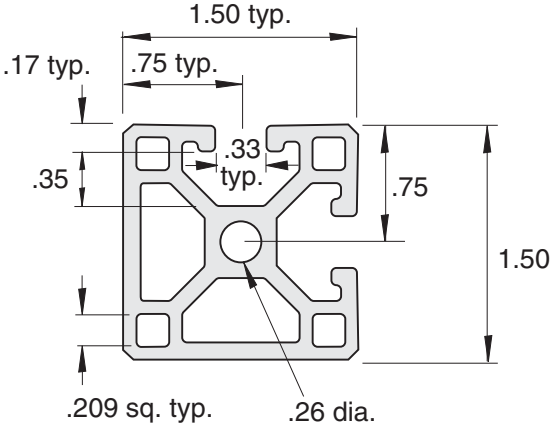
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-65



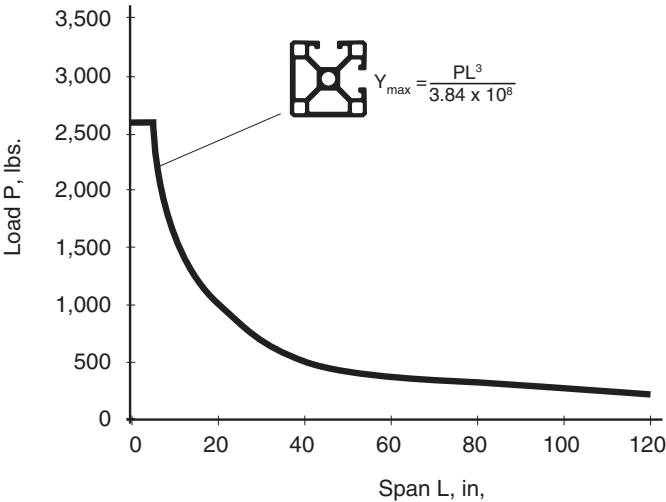
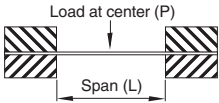
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .849 Sq. In.
- Weight/ft = .998 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

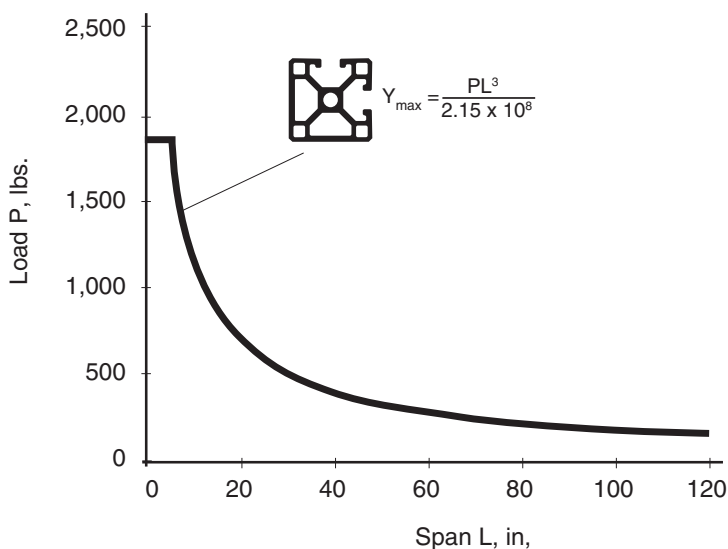
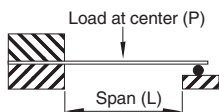
| | |
|------------------------------------|-------|
| Moment of Intertia in ⁴ | 0.200 |
| Section modulus in ³ | 0.267 |



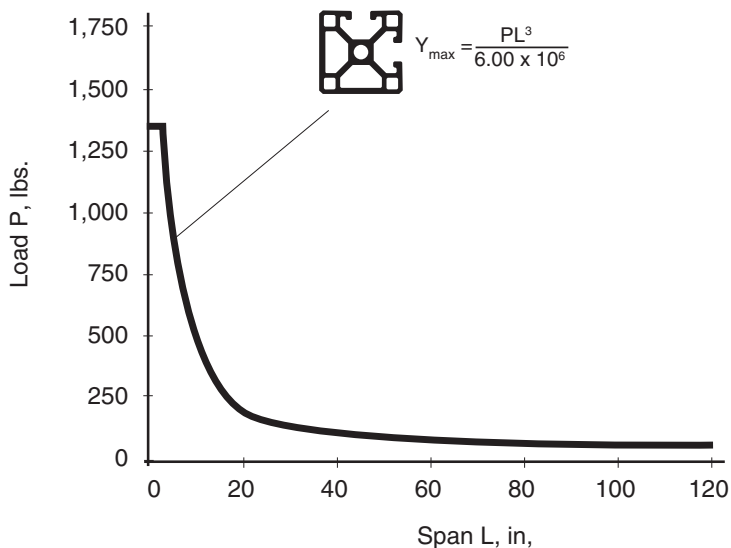
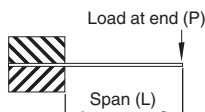
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



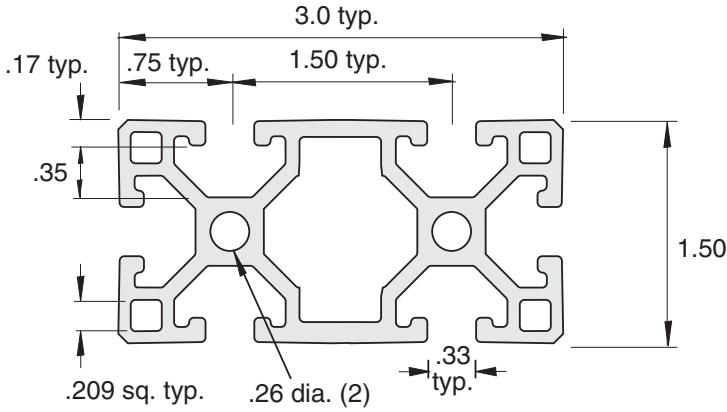
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-67



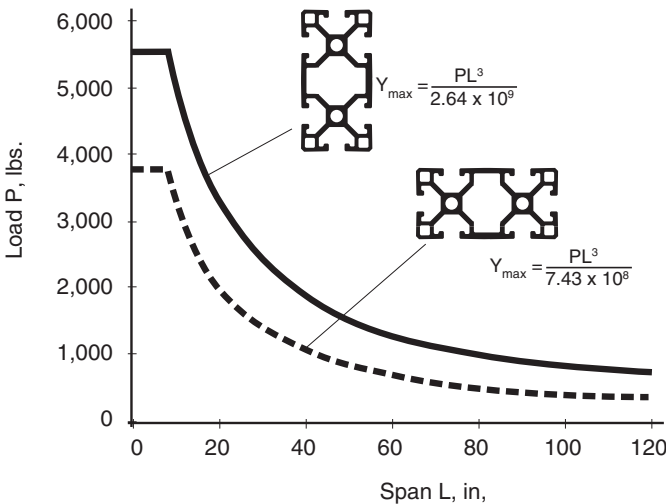
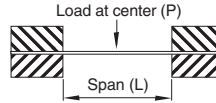
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.569 Sq. In.
- Weight/ft = 1.845 lbs
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

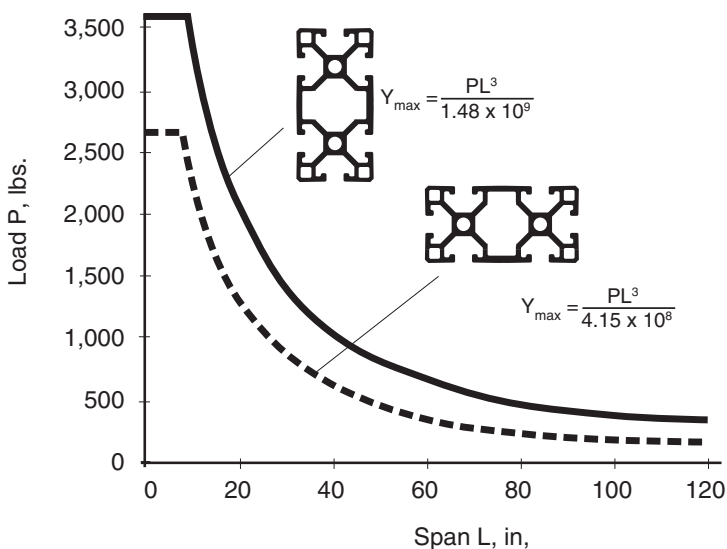
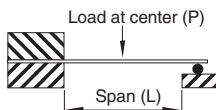
Moment of Intertia in⁴
Section modulus in³

| | |
|-------|-------|
| | |
| 1.376 | 0.387 |
| 0.917 | 0.516 |

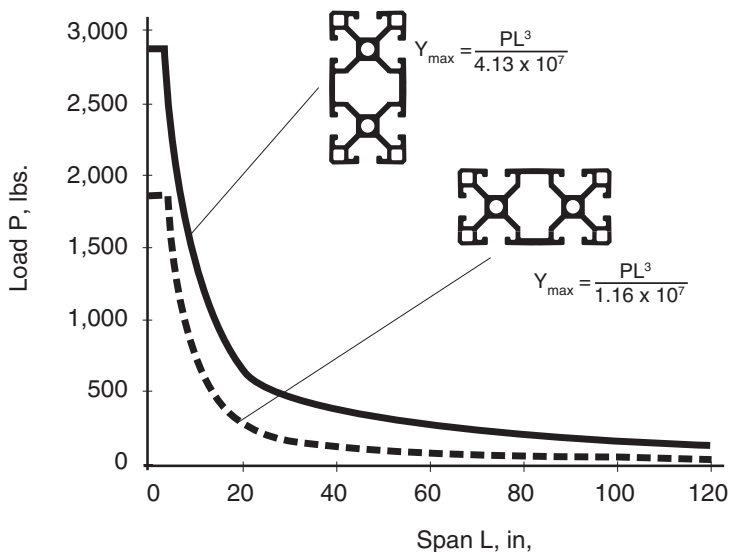
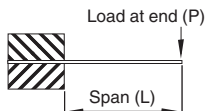
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



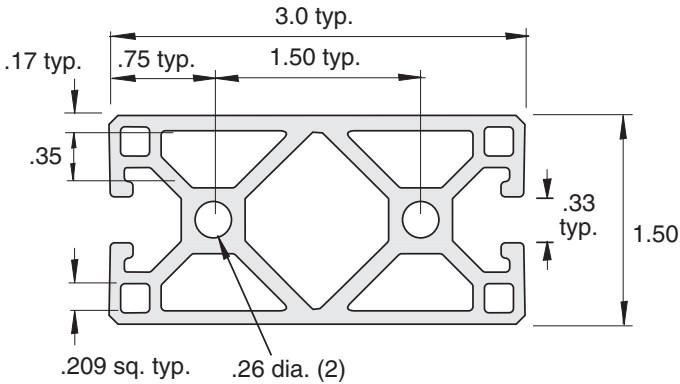
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-68



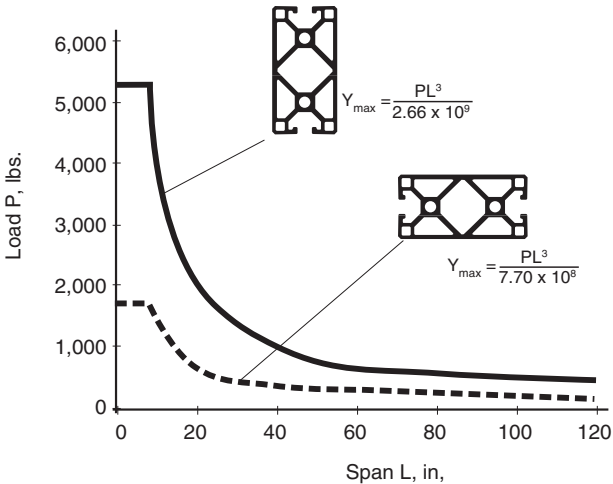
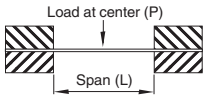
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.599 Sq. In.
- Weight/ft = 1.880 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

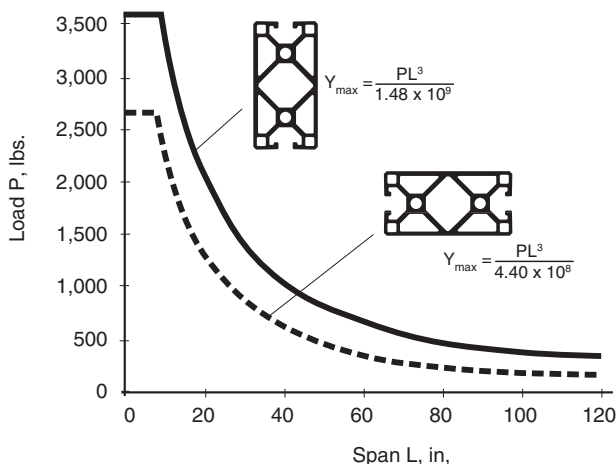
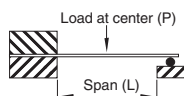
| | | |
|-----------------------------------|-------|-------|
| Moment of Inertia in ⁴ | 1.385 | 0.401 |
| Section modulus in ³ | 0.923 | 0.535 |



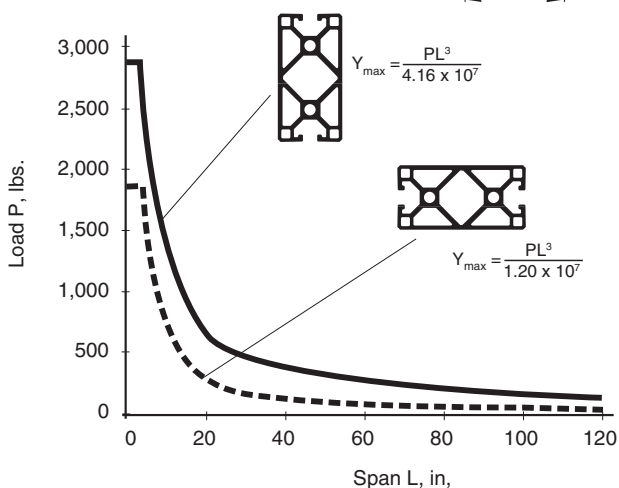
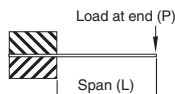
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



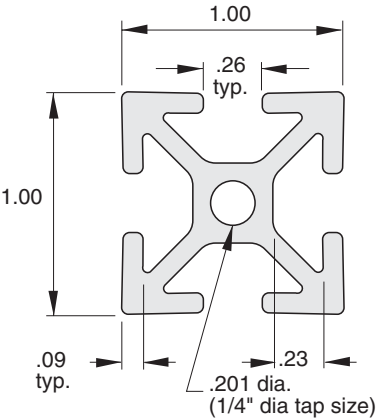
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-11

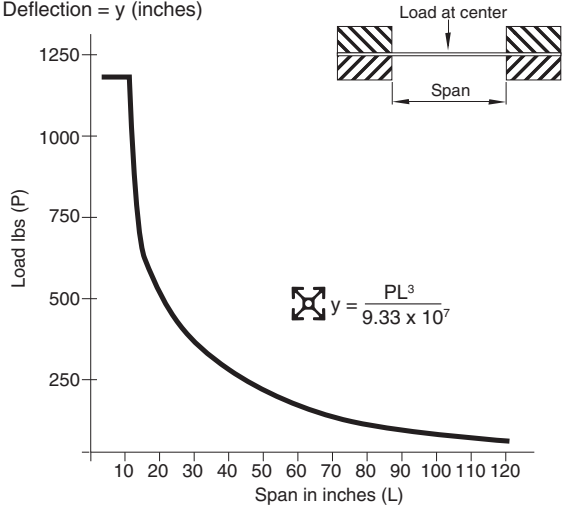


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .530 lbs.
- 96", 144.75", 193.5" Lengths standard.

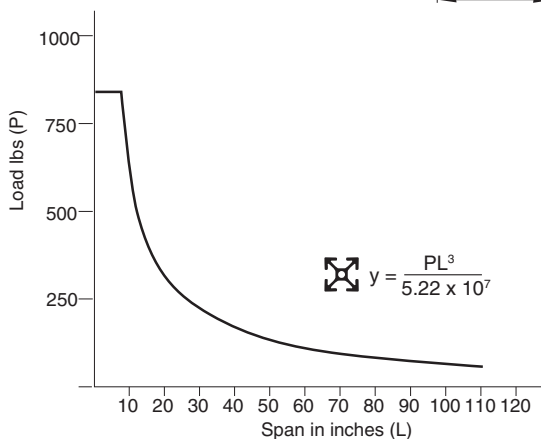
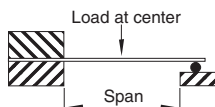
Section Properties:

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

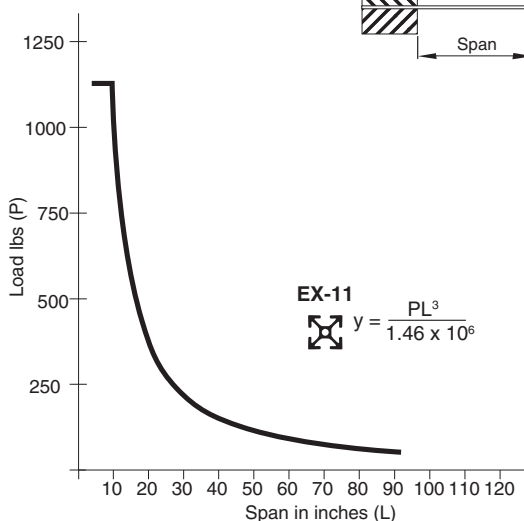
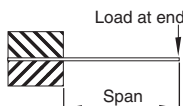
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



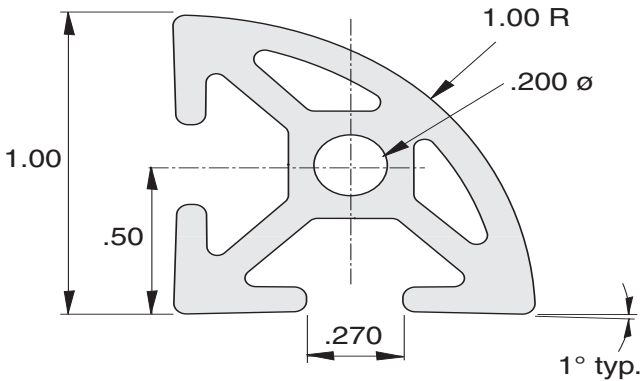
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



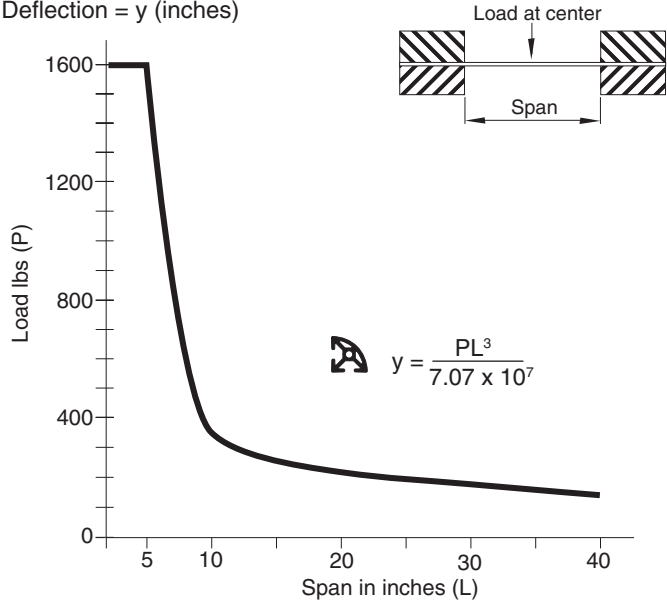
EX-14



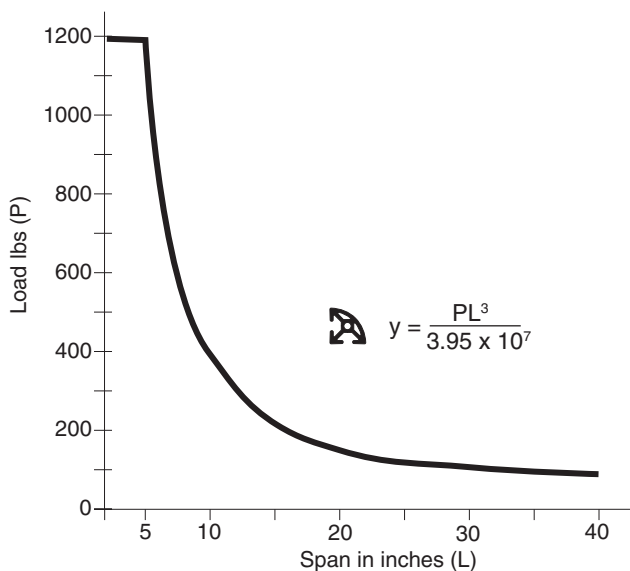
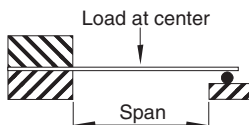
- Finish = Clear anodized
- Material = 6105-T6 Aluminum
- Est. Area = .438 Sq. In.
- Weight/ft = .515 lbs.
- 96", 193.5" Lengths standard.

| | |
|------------------------------------|------|
| Section Properties: | |
| Moment of Intertia in ⁴ | .037 |
| Section modulus in ³ | .068 |

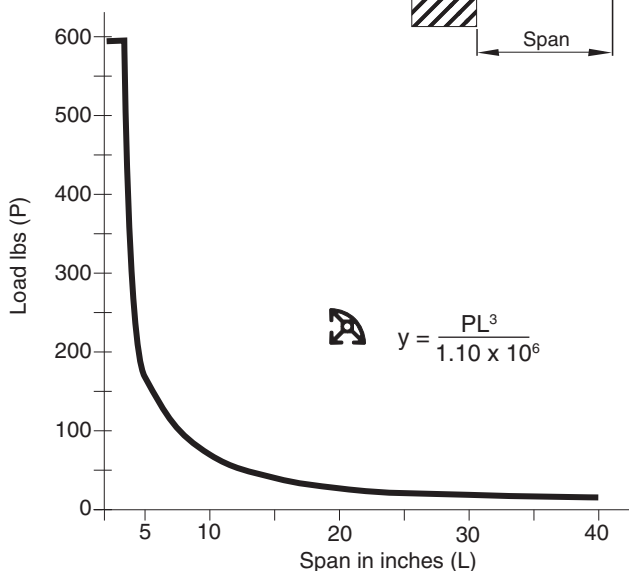
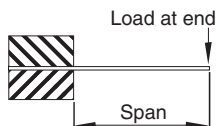
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



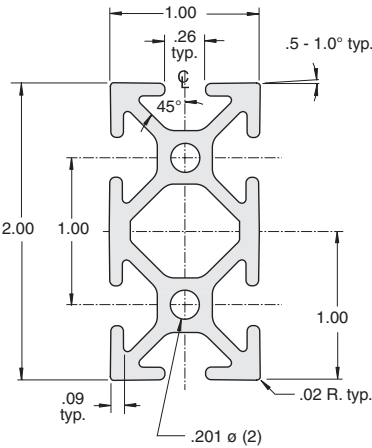
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-12



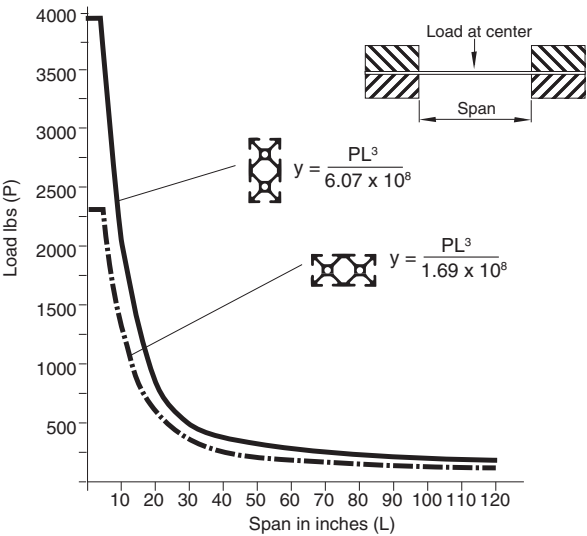
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .807 Sq. In.
- Weight/ft = .949 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

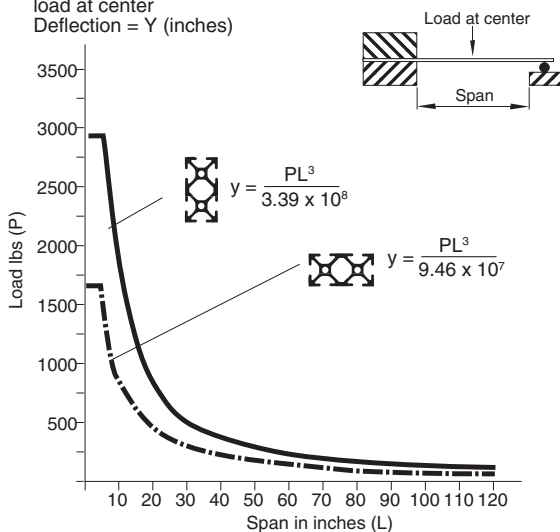
| | | |
|------------------------------------|------|------|
| Moment of Intertia in ⁴ | .316 | .088 |
| Section modulus in ³ | .316 | .176 |



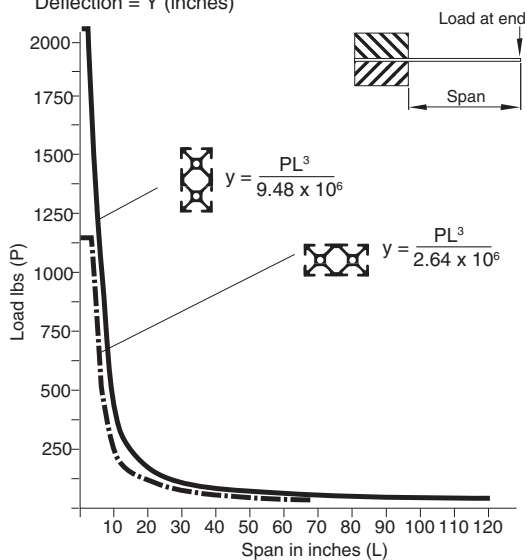
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



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

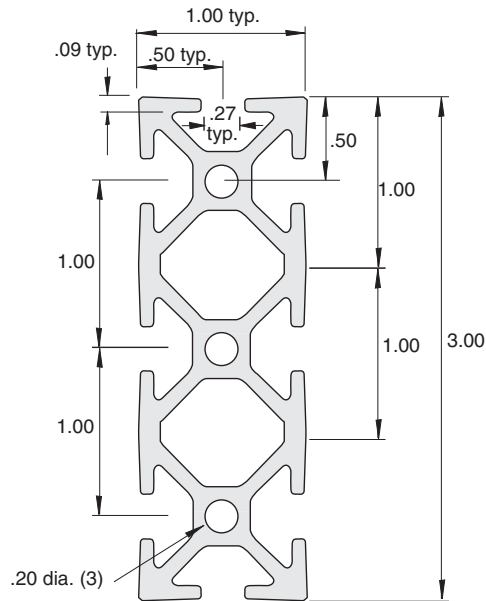


Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)



EX-13

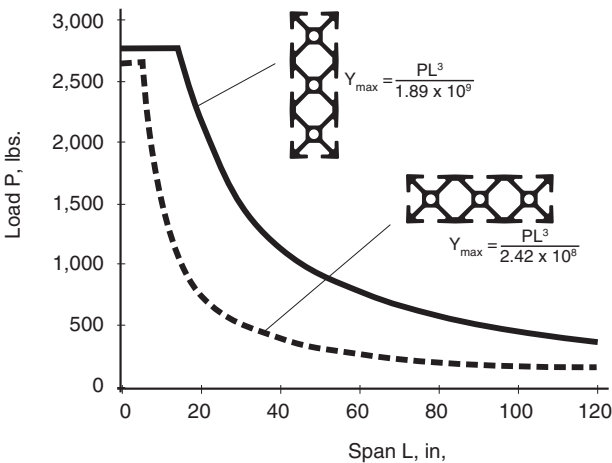
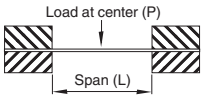
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.162 Sq. In.
- Weight/ft = 1.367 lbs.
- 96", 144.75", 193.5" Lengths standard.



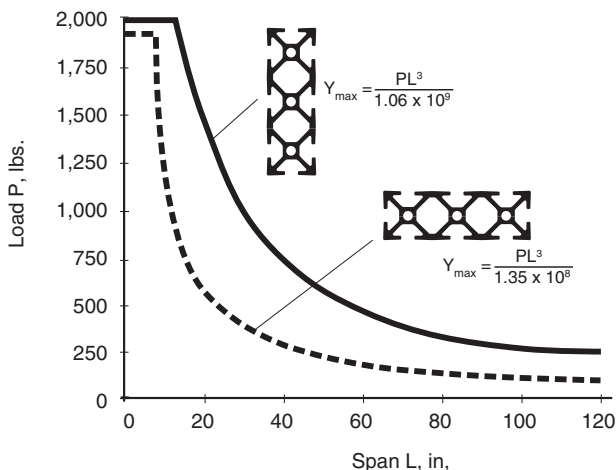
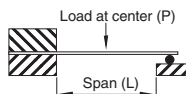
Section Properties:

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

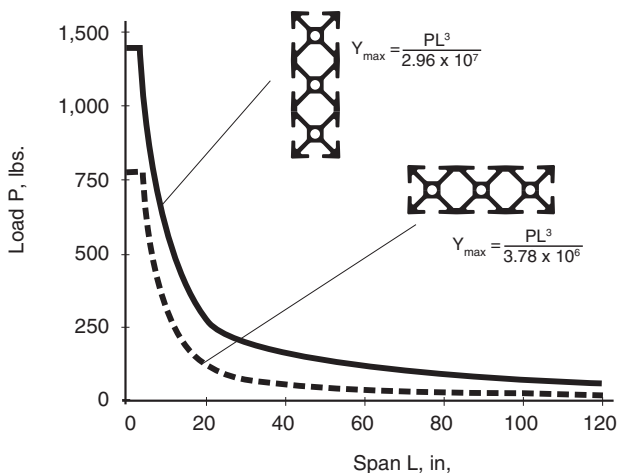
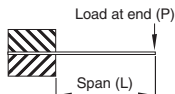
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



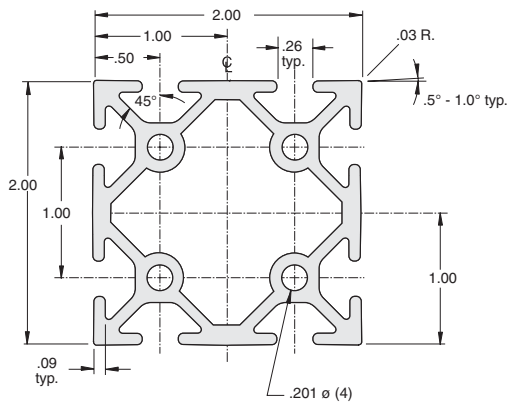
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



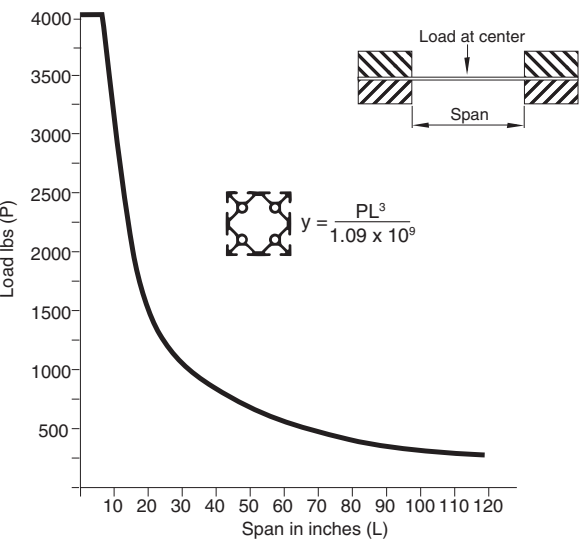
EX-22



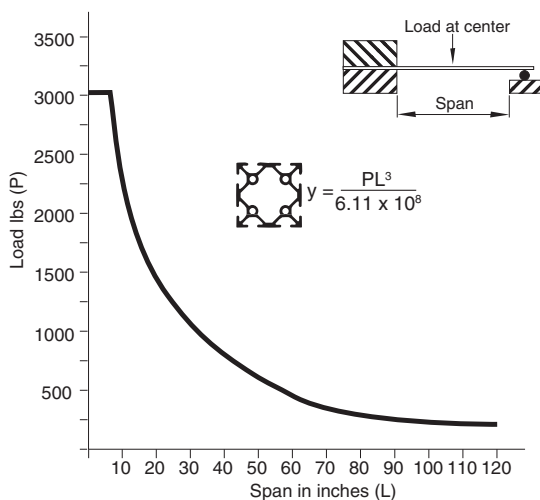
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.249 Sq. In.
- Weight/ft = 1.468 lbs.
- 96", 144.75", 193.5" Lengths standard.

| Section Properties: | |
|------------------------------------|------|
| Moment of Intertia in ⁴ | .569 |
| Section modulus in ³ | .569 |

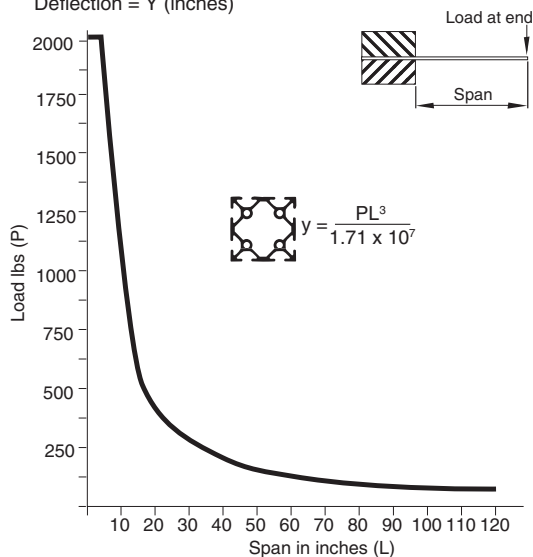
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



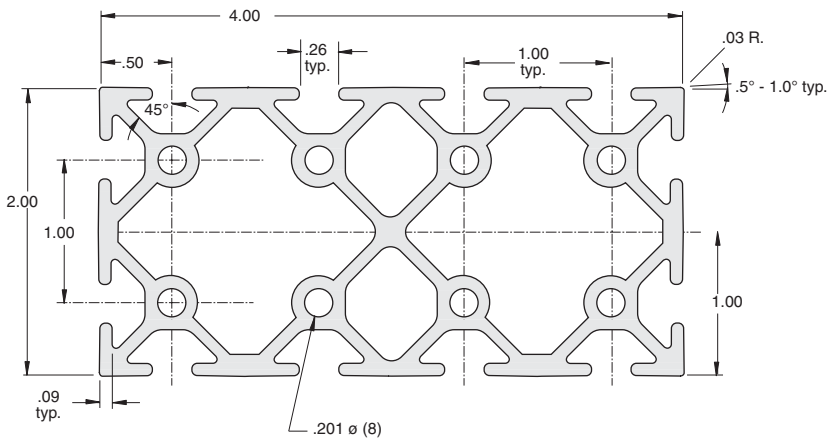
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-24



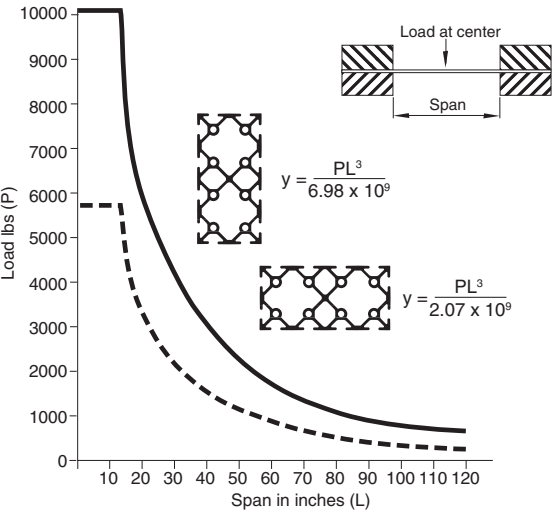
- Finish = Clear anodized
- Material = 6063-T6HT Aluminum
- Est. Area = 2.352 Sq. In.
- Weight/ft = 2.766 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

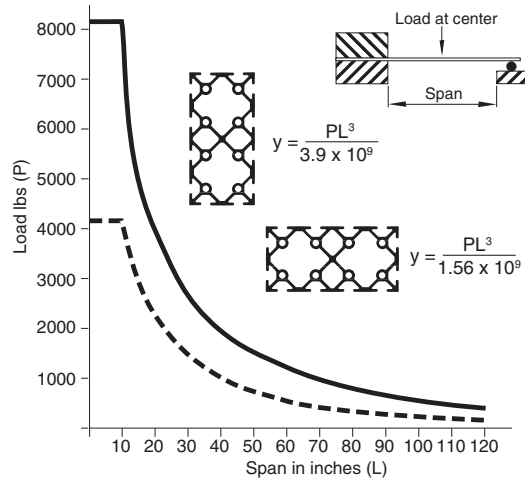
| | | |
|-----------------------------------|-------|-------|
| Moment of Inertia in ⁴ | 3.634 | 1.078 |
| Section modulus in ³ | 1.817 | 1.078 |



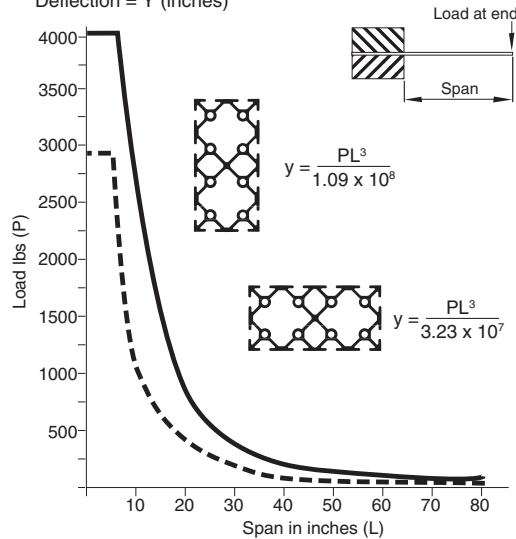
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



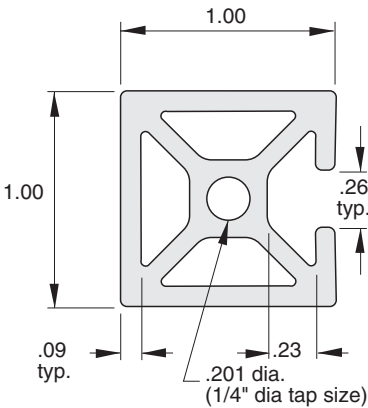
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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", 144.75", 193.5" Lengths standard.

Section Properties:

Moment of Intertia in⁴
Section modulus in³

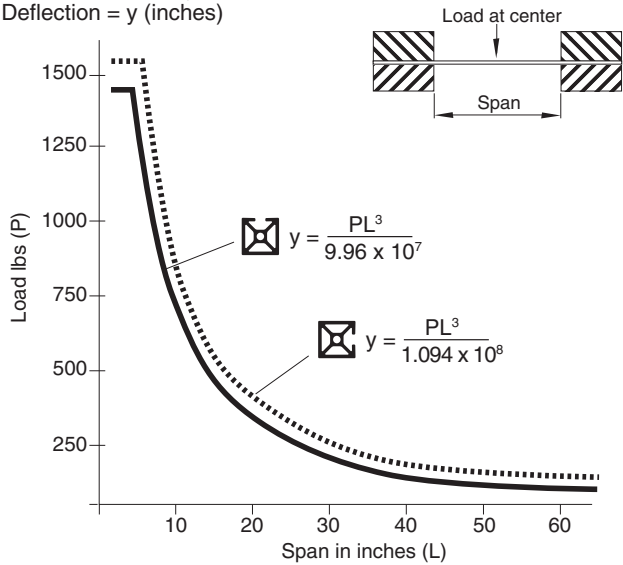


.057
.114

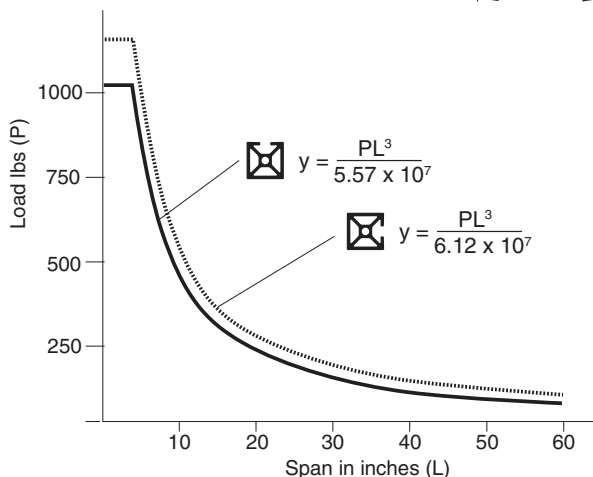
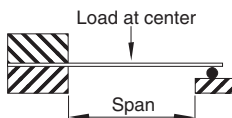


.052
.099

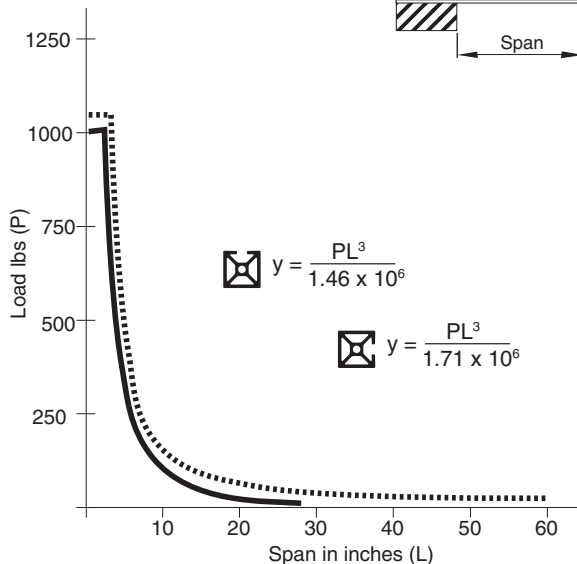
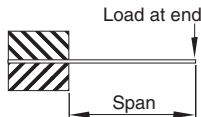
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



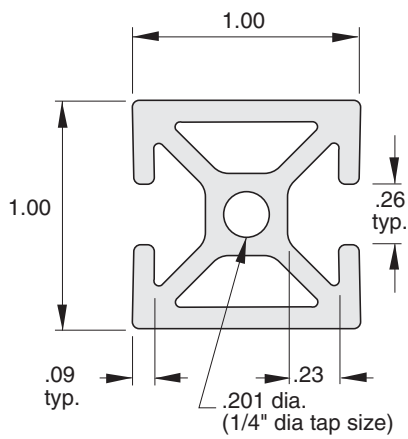
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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





EX-71

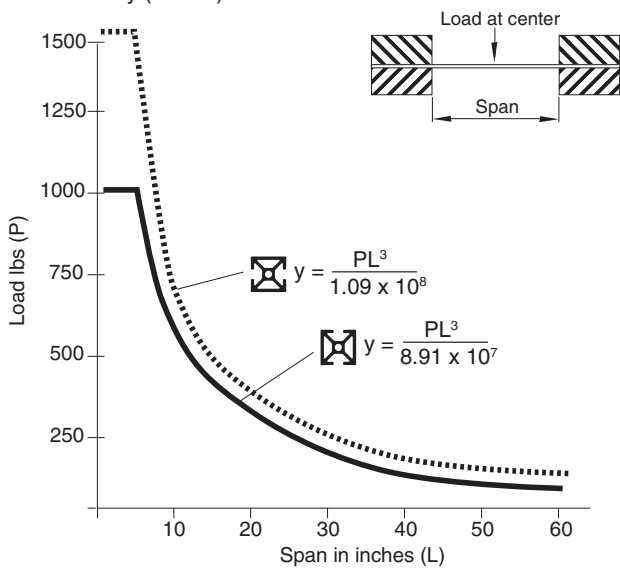


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .550 lbs.
- 96", 144.75", 193.5" Lengths standard.

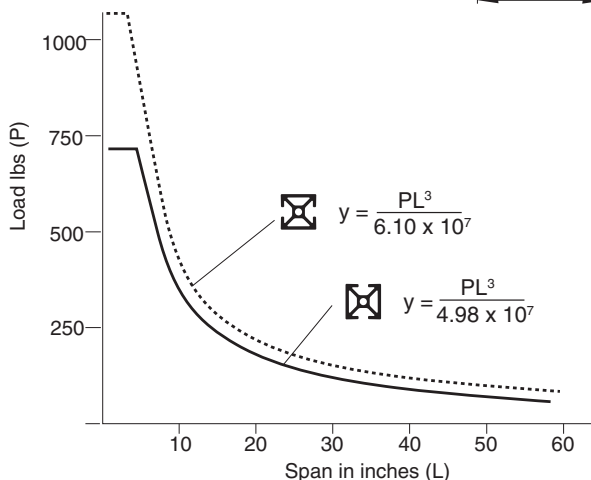
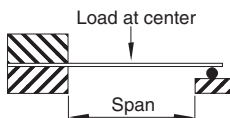
Section Properties:

| | | |
|------------------------------------|--|--|
| Moment of Intertia in ⁴ |  .057 |  .046 |
| Section modulus in ³ | .114 | .093 |

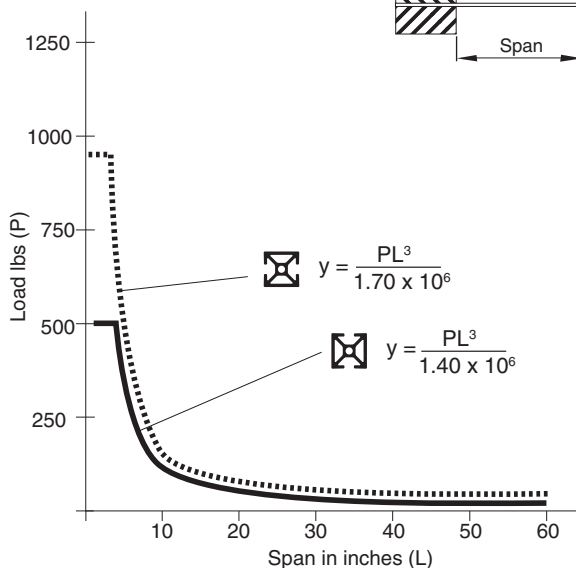
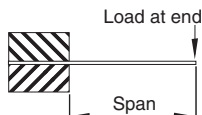
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



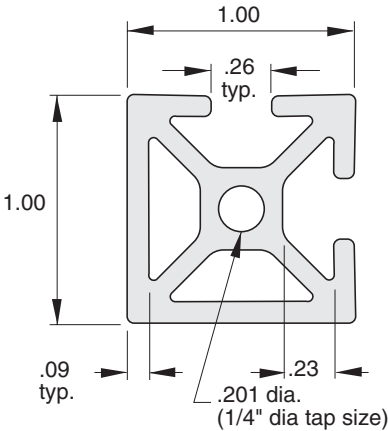
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-72

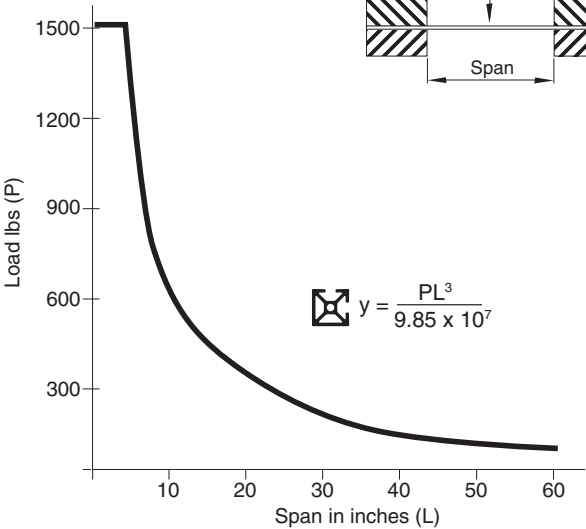
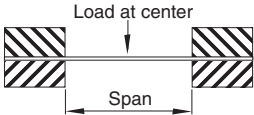


- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .546 lbs.
- 96", 144.75", 193.5" Lengths standard.

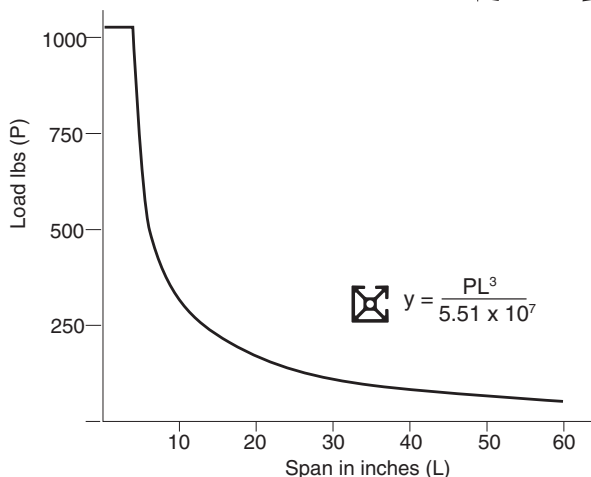
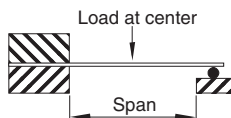
Section Properties:

| | |
|------------------------------------|------|
| Moment of Intertia in ⁴ | .051 |
| Section modulus in ³ | .098 |

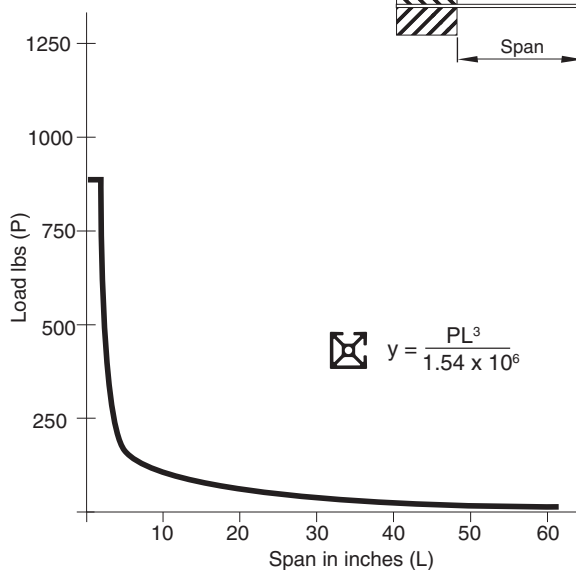
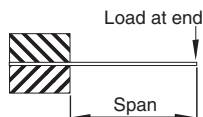
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



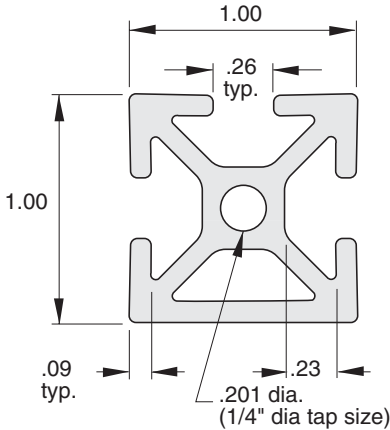
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)



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



EX-73



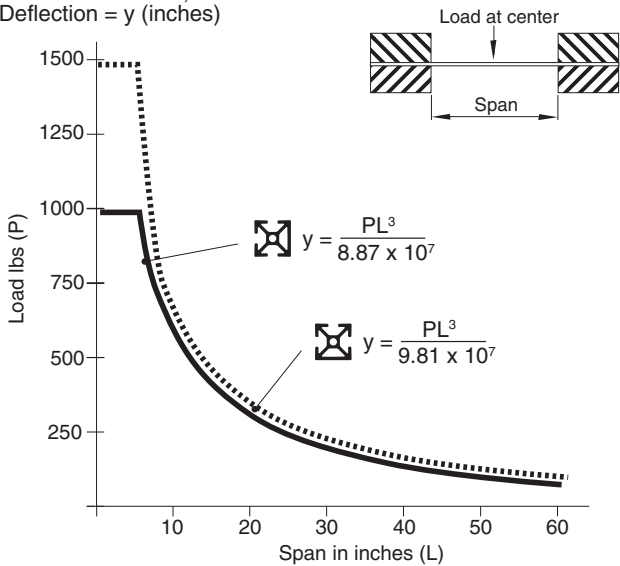
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .451 Sq. In.
- Weight/ft = .523 lbs.
- 96", 144.75", 193.5" Lengths standard.

Section Properties:

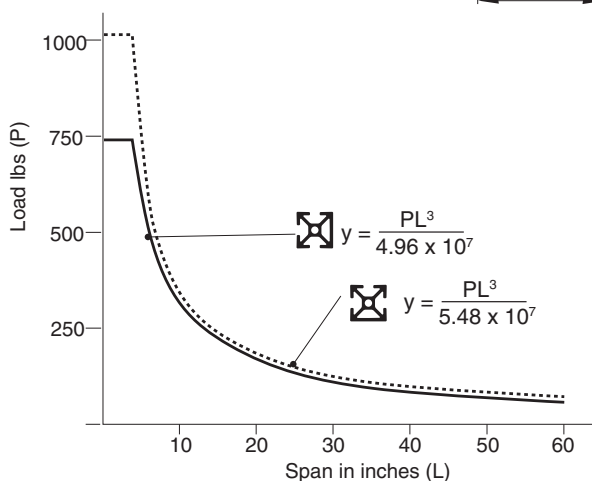
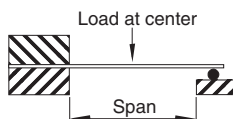
| | | |
|------------------------------------|------|------|
| Moment of Intertia in ⁴ | .051 | .046 |
| Section modulus in ³ | .099 | .092 |



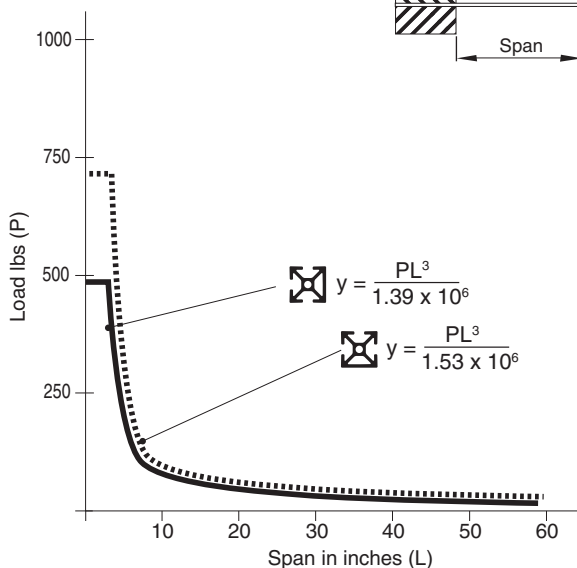
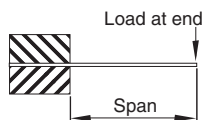
Load condition:
Fixed at both ends, load at center
Deflection = y (inches)



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

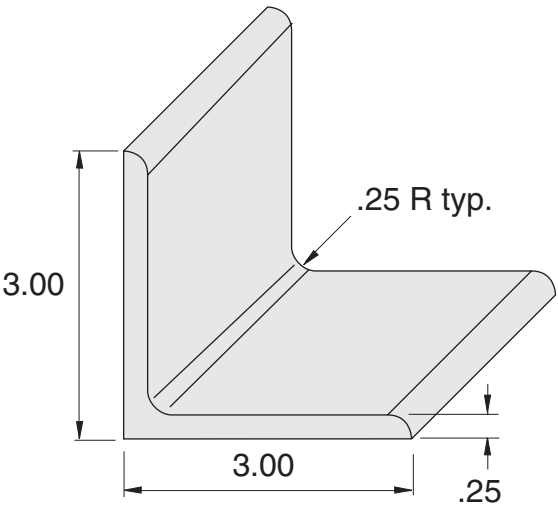


Load condition:
Fixed at one end,
load at unsupported end
Deflection = Y (inches)

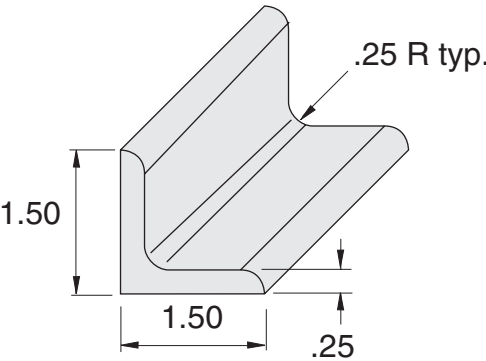


Frame World's blank angle bracket profiles are made from aluminum and have a clear anodized finish. They are stocked in 96" lengths.

EX-15

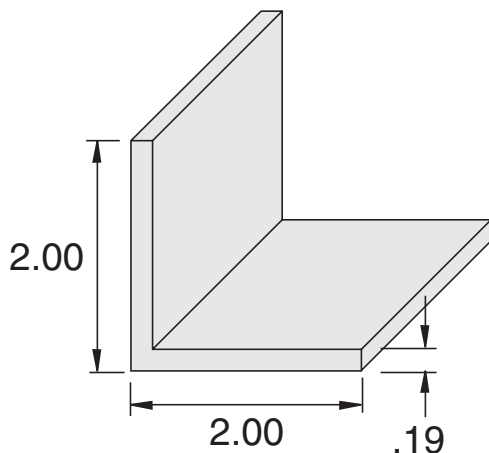
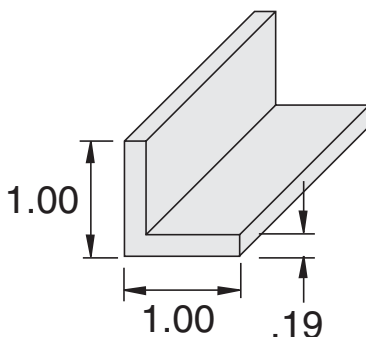


EX-16



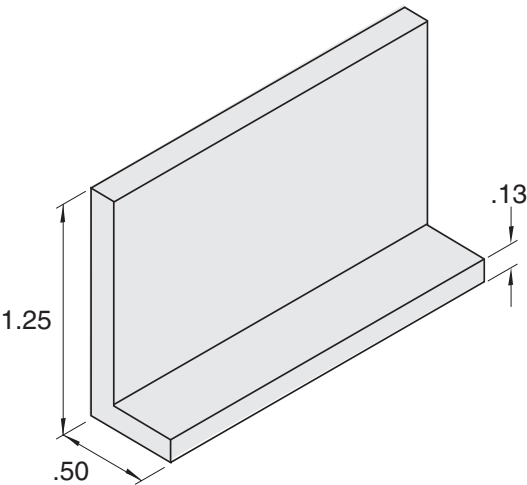
Order by Part No. For Special lengths, consult the factory.

Frame World's blank angle bracket profiles are made from aluminum and have a clear anodized finish. They are stocked in 96" lengths.

EX-17**EX-18**

Order by Part No. For Special lengths, consult the factory.

EX-53



Standard Length 96"

Material: Aluminum
Finish: Clear Anodized

Frame World Blank Angle Profiles are made from aluminum and have a clear anodized finish. They are stocked in 96" lengths

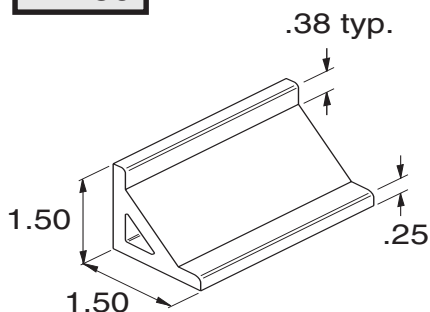
EX-30

EX-31

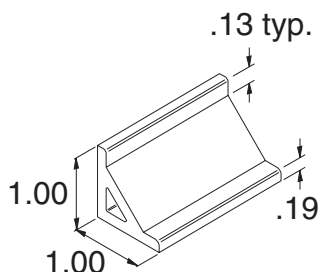
EX-32

EX-33

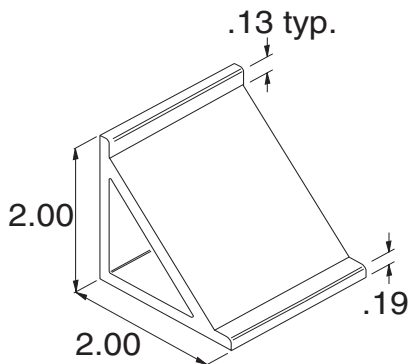
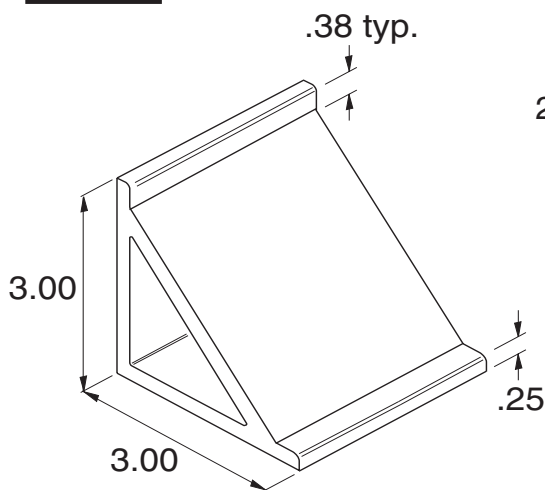
EX-30



EX-32



EX-31



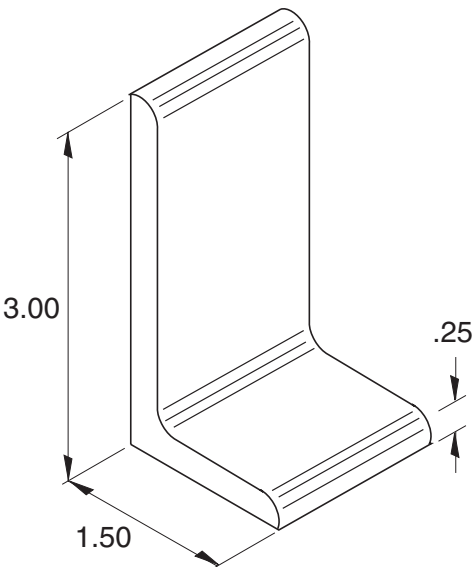
EX-33

EX-34

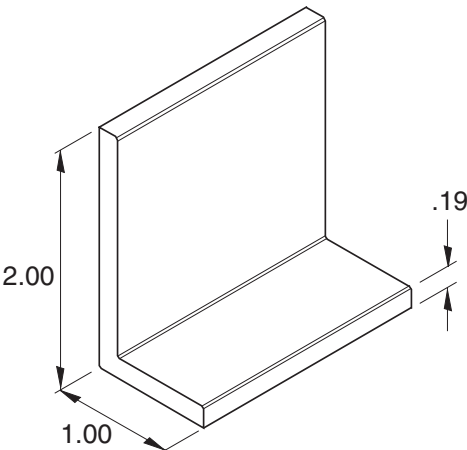
EX-35

Frame World Blank Angle Profiles are made from aluminum and have a clear anodized finish. They are stocked in 96" lengths

EX-34



EX-35



FrameWorld 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, Frameworld 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**Part No.****1. Cut to length 5/16" or 1/4" slot profiles****EM-1**

- Any profile shape
- Length tolerance = $\pm .005$ "
- Squareness = $.002$ " per inch

2. End hole tap**A. 5/16" slot profiles**

5/16"-18 x 1.0 deep thread

EM-2

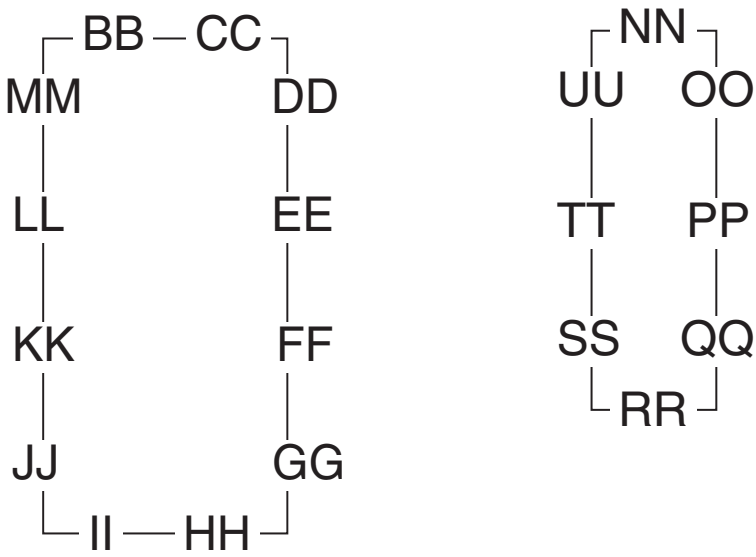
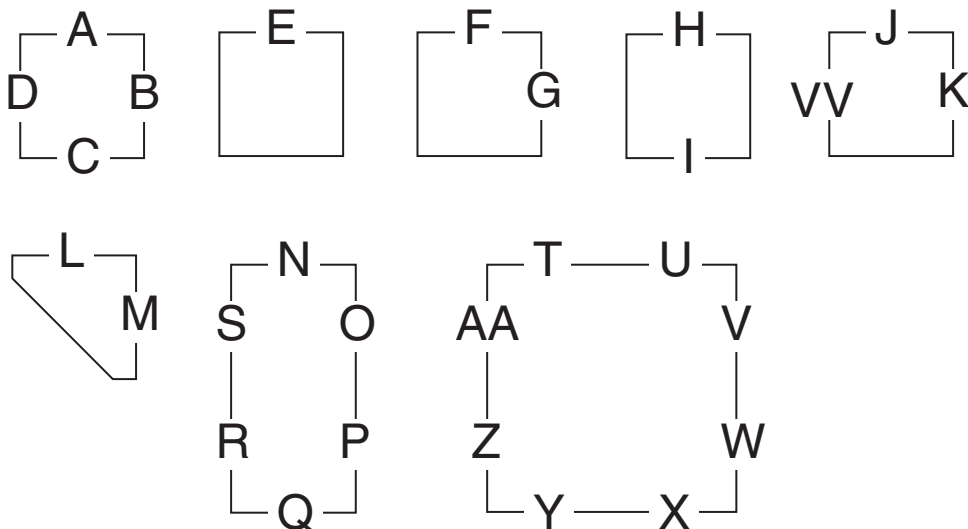
- .260 dia. extruded hole size
- m8 x 1.25 on request

B. 1/4" slot profiles**EM-2**

1/4"-20 x .75 deep thread

- .201 dia. extruded hole size
- m6 x 1.0 on request

3. T-slot identification

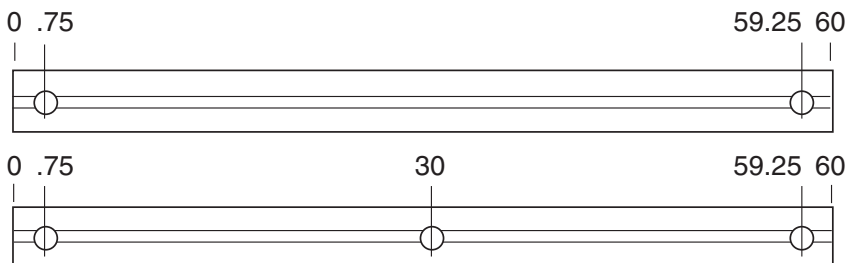


Part No.
4. Access Hole Drill

- 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"

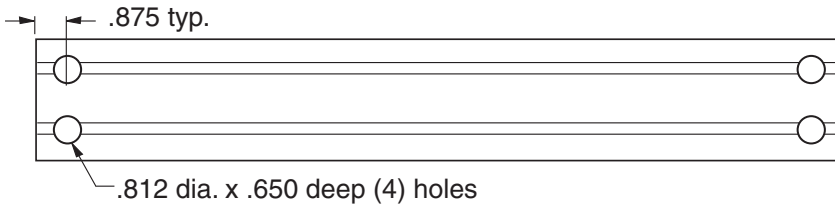

Total EM-1 cuts =2
Total EM-3 Drills = 10

Part No.

EM-5

5. Anchor Fastener Counter Bores

- A. For 5/16" slot profiles the counterbore
dia. = .812 x .650 deep
location is .875 from the end



Example

(2) EX-2 x 30.0" with EM-5's at O & P both ends

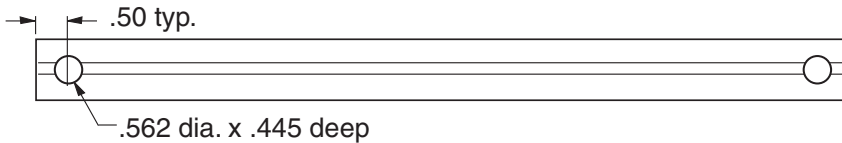
Total EM-1 cuts = 2

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

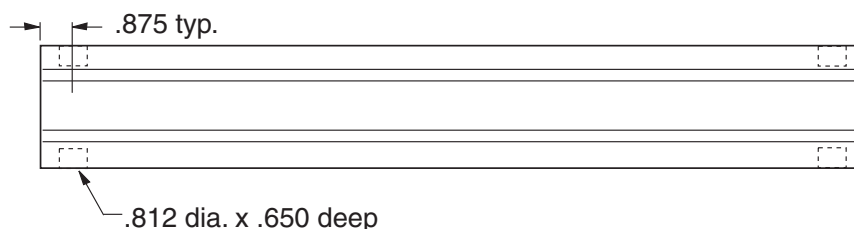
Total EM-1 cuts = 2

Total EM-7 counterbores = 8

Total 11-242 anchor fasteners = 8

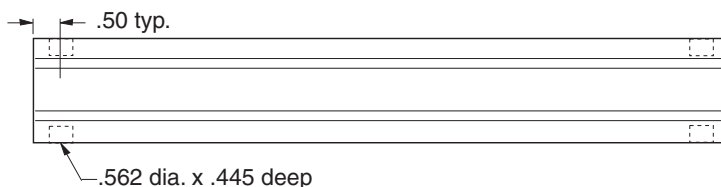
Part No.
EM-5

- 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


Example

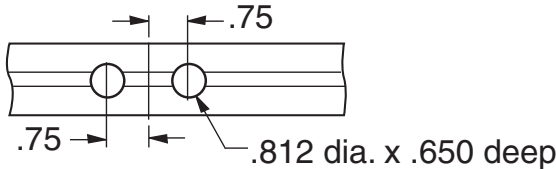
- (2) EX-12 x 20.0" with EM-7's at N & Q both ends
Total EM-1 cuts = 2
Total EM-7 counterbores = 8
Total 11-249 anchor fasteners = 4

Part No.

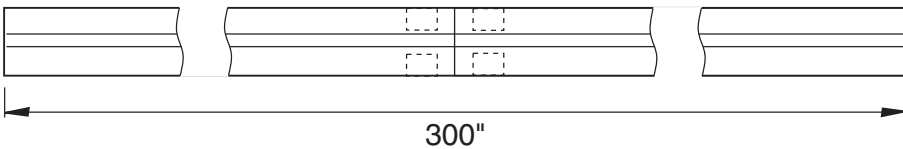
EM-8

6. Anchor Butt Fastener Counterbores

- A. For 5/16" wide slot profiles the counterbore dia. = .812 x .650 deep. Location is .75 from the end



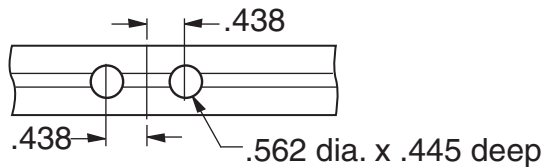
Example: (for a 300" long piece)



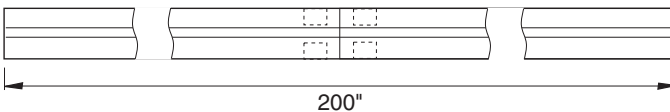
- (2) EX-1 x 150.0
- (2) EM-1
- (4) EM-8
- (2) EF-61

- 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.**7. Wire Mesh and Plastic Panels Cut to Size**Panels any side $\leq 48.0"$ **EM-4S**Panels any side $> 48.0"$ **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

$$\text{Total Sq. Ft.} = \frac{47.0 \times 24.0}{144.0} = (8) \text{ sq. ft. EB-38-1}$$

8. Extrusion Mitre Cuts & Counter Bores

Miter cut per end

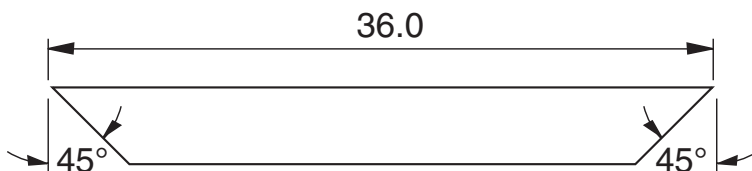
EM-6

Counter bore & hardware per end

EM-10

(1) EM-6/Cut Piece

Example:



Order:

(1) EX-1 x 36.0

(2) EM-6

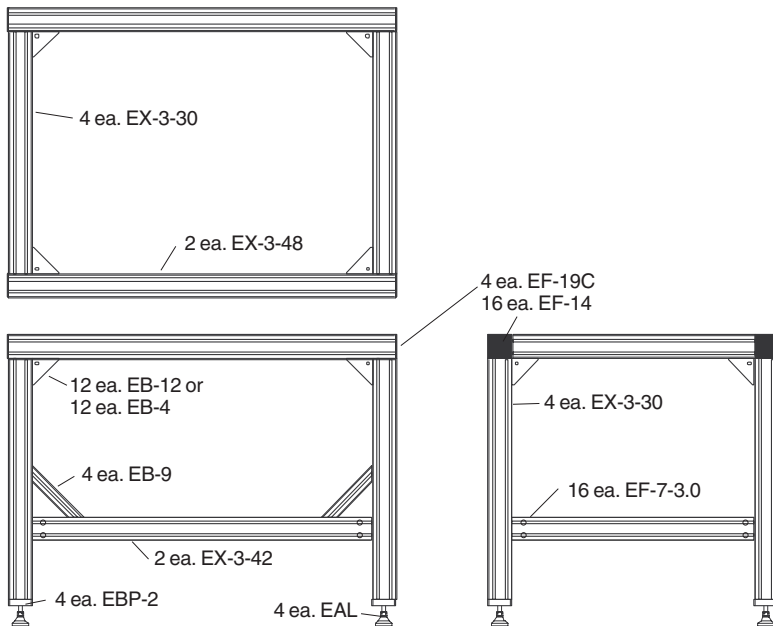
(2) EM-10

Note: for custom angles, consult the factory.

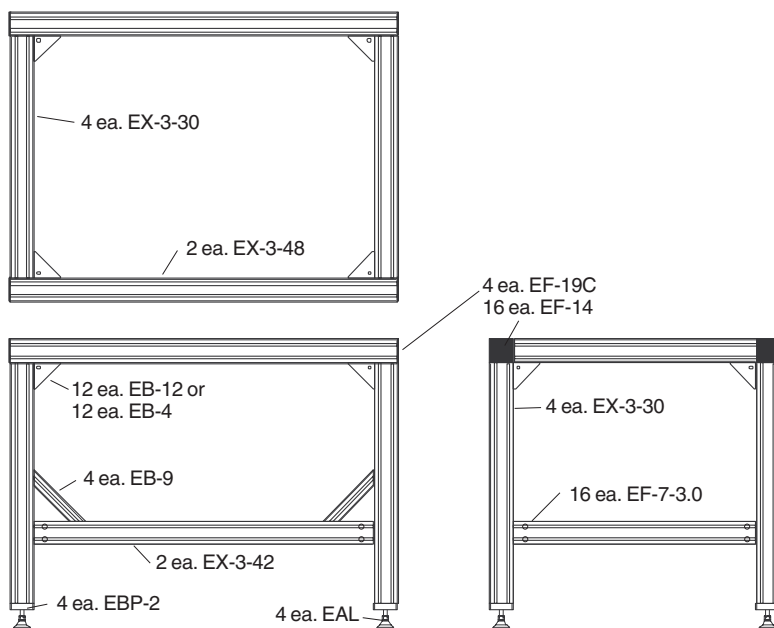
When comparing all costs in the fabrication of a typical machine or table frame using *Frame World* components versus steel weldments, most users realize a 15 to 25% savings. Here are the reasons, or extra steps and equipment in weldment structures:

- 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*.

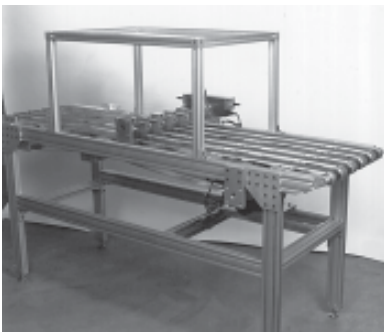
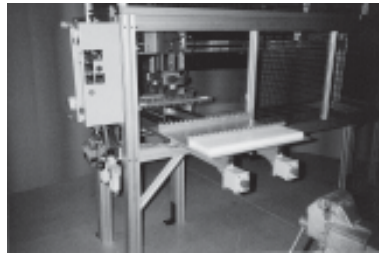
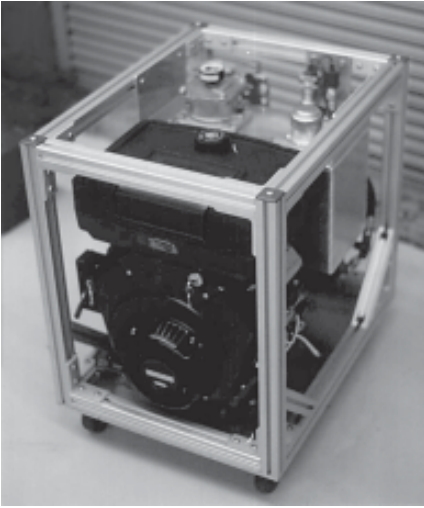


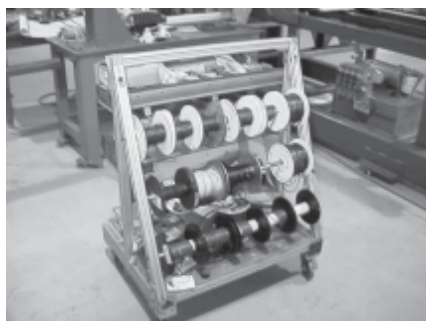
Side Views

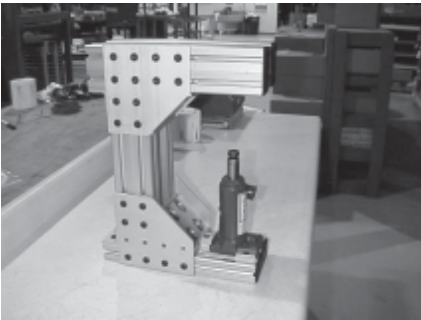
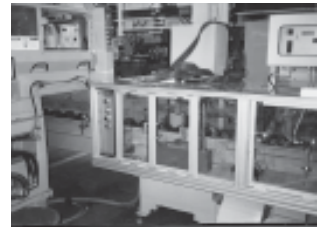
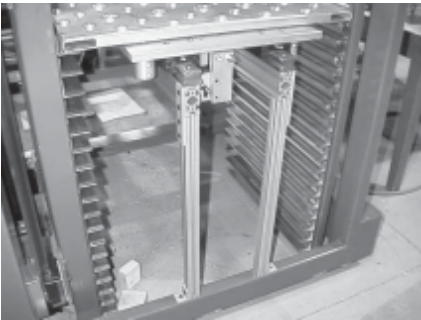


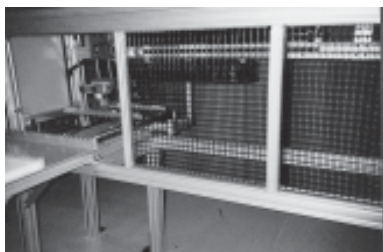
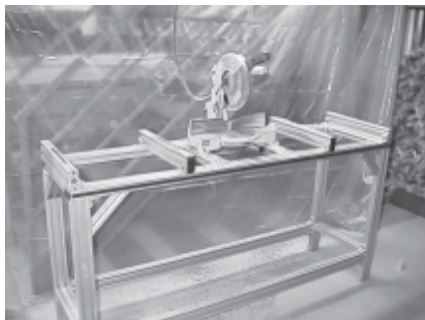
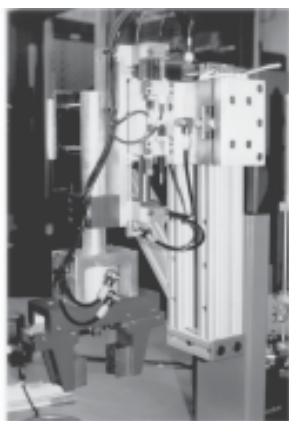
Parts List

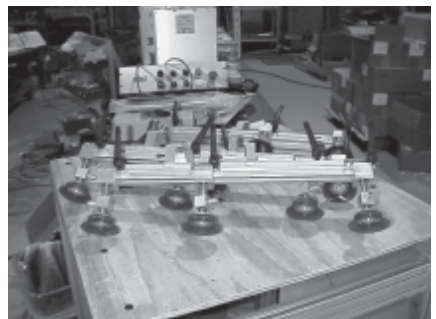
- 8 - EX-3-30 Extrusion
- 2 - EX-3-48 Extrusion
- 2 - EX-3-42 Extrusion
- 4 - EB-9 Angle Bracket
- 12 - EB-12 Angle Bracket
- 4 - EBP-2 Leveling Plate
- 4 - EAL Adjustable Leg
- 4 - EF-19C Plastic End Plate
- 16 - EF-14 Push Lock Fastener
- 16 - EF-7-3.0 Double Cross Connector

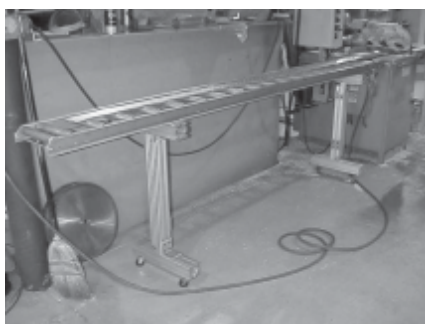












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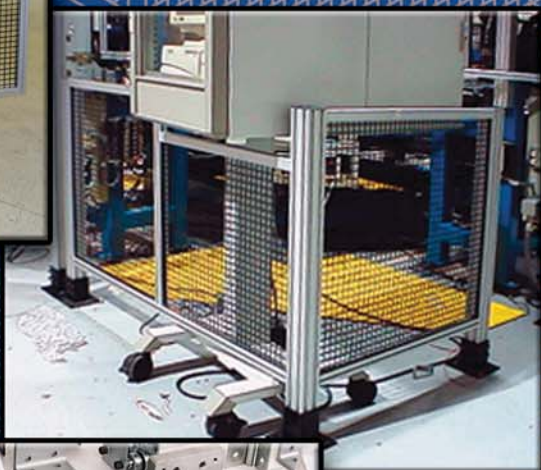
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