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

Assembling aluminum extrusions is fast and simple
Aluminum extrusions have nearly the same tensile strength as mild steel with a much higher strength to weight ratio. A few simple tools and low-tech labor are all that is required for most projects. Aluminum extrusion assembly can easily be done right at the project site, with no special safety equipment required. Construction or design changes or adjustments can be easily and immediately implemented. Even "design as you go" projects have a finished professional look. With great visual aesthetics. The anodized aluminum does not need painting. As soon as the last extrusion is in place, that part of the project is ready for use. The T-slot concept easily accom-
modates later additions or revisions to the project, without looking patched. Finished projects are inherently square, so the need for shimming or leveling is reduced. The nonporous, hollow extrusions are ideal for use as air reservoirs and manifolds for both pressure and valve exhaust collection. Covered extrusion T-slots can be used as conduits for protecting sensor and control wiring.

**The true cost of steel fixtures includes the cost of welding**

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

**Aluminum extrusion fixtures are easier than steel fixtures**

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

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

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

Threading and machining the ends allows for end joint connections.

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

ALWAYS WEAR SAFETY GLASSES
Aluminum Extrusion
Product Line-Up

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

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

Components & Accessories
- Wide range of brackets, joining plates, gussets, fasteners, handles, end caps, angles, panel material, bolts, etc.
- Special hinges for ultra-strong doors
- Custom accessories available
Kits & I.D. Kits
• Kits for multiple frame orders, profiles and accessories are bundled and packaged for each individual frame
• I.D. Kits indicate lengths on each extrusion (eliminates profile measuring during assembly)
• Saves you time, money and labor

FastFrames
Pre-engineered Modules and Sub Assemblies
• Includes panels, doors, bases, carts
• All necessary hardware is included
• Available assembled or in kit form
• Greatly simplifies design, ordering and assembly
• Single part number ordering

Complete Solutions
• Complete turnkey solutions for machine guards, bases, frames, enclosures, racks, workstations & more
• Tremendous labor (cost) savings
• The simplest solution available
FRAME-WORLD's Aluminum Extrusions can be used in any industrial setting, for any purpose!

Any setting, Any purpose

Machining & Parts

Machine Fixturing

Slide Mount
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 sizing to do so.

Please contact your distributor or the factory for custom sizes.
Standard Enclosure Panels

- **FastFrames** standard enclosure panels can be purchased pre-assembled or in kit form.

- Frame construction:
  - **Panels**
    - Extrusion frame is EX-6 (page 30).
    - Corner fasteners are EF-29A universal connectors (page 112).
    - Floor mounting brackets are EB-15AL (page 182).

- Inside panel construction options:
  - 2" x 2" black PVC coated wire mesh is EB-38-2 (page 190).
  - 1" x 1" black PVC coated wire mesh is EB-38-1 (page 190).
  - 1" x 1" yellow PVC coated wire mesh is EB-38-1Y (page 190).
  - 1/4" thick clear polycarb is EB-160 (page 197).
  - Wire mesh brackets are EB-49B/EB49Y (page 193).
  - Gasket is EB-40A (page 207).

- Standard panel widths are 18", 24", 30", 36", 48".

- Standard panel heights are 40", 60", 72" & 84".

- Panel to panel connecting brackets EB-33 (page 134) and hardware are included.

- Floor anchors are furnished and installed by customer.

- **SMOOTH Series** & **BLACK** extrusion panels are available.

- **Custom sizes available**
Standard Enclosure Doors

- **FastFrames** standard doors can be purchased pre-assembled or in kit form.

- Frame construction:
  - **Doors**
    - Extrusion frame is EX-6 (page 30).
    - Corner connectors are EF-29A (page 112).
    - Hinges are EF-70 (page 226).
    - Handle is EF-15B (page 237).
    - Latch is EF-22HD (page 254).

- Inside panel construction options:
  - 2" x 2" black PVC coated wire mesh is EB-38-2 (page 190)
  - 1" x 1" black PVC coated wire mesh is EB-38-1 (page 190).
  - 1" x 1" yellow PVC coated wire mesh is EB-38-1Y (page 190).
  - 1/4" thick lear polycarb is EB-160 (page 197).
  - Wire mesh brackets are EB-49B/EB49Y (page 193).
  - Gasket is EB-40A (page 207).

- Standard door widths are to fit 24", 30", 36" & 48" opening.

- Standard door heights are 34", 54", 66", & 78".

- **SMOOTH Series & BLACK** extrusion panels are available.

- **Custom sizes available**
Standard Enclosure Panels

Standard (1) Leg Panel
Model P1

Standard (2) Leg Panel
Model P3

Standard (1) Leg Panel
Model P2

Standard Basic Panel
Model P4
Note: Mounting Hardware Not Included
Standard Enclosure Panels

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

Panel Ordering Example

```
P2 - 6018 - LX - K
```

- **Panel Model No.**
- **Panel Height**
- **Panel Width**
- **Inside Panel Material**
  - **BW** - 1" Black Wire Mesh
  - **BW2** - 2" Black Wire Mesh
  - **YW** - 1" Yellow Wire Mesh
  - **LX** - clear polycarb

- **Processing**
  - **A** - Assembled
  - **K** - Kit form
Standard Enclosure Doors

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

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

Door Ordering Example

D- 6624 -BW -A - SH

Door Height

Door Width

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

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

Processing
A - Assembled
K - Kit form
Standard Material Carts

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

![Diagram of a shelf cart](image)

## Model C2 Shelf Cart - (2) shelves

<table>
<thead>
<tr>
<th>Length (L)</th>
<th>Width (W)</th>
<th>18&quot;</th>
<th>22&quot;</th>
<th>26&quot;</th>
<th>30&quot;</th>
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<tr>
<td>30</td>
<td>C2-3018</td>
<td>C2-3022</td>
<td>C2-3026</td>
<td>C2-3030</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>C2-3618</td>
<td>C2-3622</td>
<td>C2-3626</td>
<td>C2-3630</td>
<td></td>
</tr>
</tbody>
</table>

## Model C3 Shelf Cart - (3) shelves

<table>
<thead>
<tr>
<th>Length (L)</th>
<th>Width (W)</th>
<th>18&quot;</th>
<th>22&quot;</th>
<th>26&quot;</th>
<th>30&quot;</th>
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<td>30</td>
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<td>C3-3022</td>
<td>C3-3026</td>
<td>C3-3030</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>C3-3618</td>
<td>C3-3622</td>
<td>C3-3626</td>
<td>C3-3630</td>
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</tr>
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### Material Cart Ordering Example

<table>
<thead>
<tr>
<th>No. of shelves</th>
<th>Cart Length</th>
<th>Cart Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2 - 2</td>
<td></td>
<td>Processing</td>
</tr>
<tr>
<td>C3 - 3</td>
<td></td>
<td>A - Assembled</td>
</tr>
</tbody>
</table>

**C2-3018 -A**

- **Processing**
  - A - Assembled
  - K - Kit form

*Custom sizes are available* - consult the factory
FastFrames
Pre-engineered modules

Standard Bases and Tables

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

Pre-engineered modules

<table>
<thead>
<tr>
<th>Model L Light Duty</th>
<th>Length (L)</th>
<th>24&quot; Width (W)</th>
<th>30&quot; Width (W)</th>
<th>36&quot; Width (W)</th>
<th>Max Load</th>
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<tbody>
<tr>
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<td>L-3624</td>
<td>L-3630</td>
<td>L-3636</td>
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<td>48&quot;</td>
<td>L-4824</td>
<td>L-4830</td>
<td>L-4836</td>
<td>360</td>
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<tr>
<td></td>
<td>60&quot;</td>
<td>L-6024</td>
<td>L-6030</td>
<td>L-6036</td>
<td>300</td>
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<td>L-7224</td>
<td>L-7230</td>
<td>L-7236</td>
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</table>

<table>
<thead>
<tr>
<th>Model S Standard Duty</th>
<th>Length (L)</th>
<th>24&quot; Width (W)</th>
<th>30&quot; Width (W)</th>
<th>36&quot; Width (W)</th>
<th>Max Load</th>
</tr>
</thead>
<tbody>
<tr>
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<td>S-3636</td>
<td>2800</td>
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<tr>
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<td>S-4830</td>
<td>S-4836</td>
<td>2000</td>
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<tr>
<td></td>
<td>60&quot;</td>
<td>S-6024</td>
<td>S-6030</td>
<td>S-6036</td>
<td>1720</td>
</tr>
<tr>
<td></td>
<td>72&quot;</td>
<td>S-7224</td>
<td>S-7230</td>
<td>S-7236</td>
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</table>

<table>
<thead>
<tr>
<th>Model H Heavy Duty</th>
<th>Length (L)</th>
<th>24&quot; Width (W)</th>
<th>30&quot; Width (W)</th>
<th>36&quot; Width (W)</th>
<th>Max Load</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>36&quot;</td>
<td>H-3624</td>
<td>H-3630</td>
<td>H-3636</td>
<td>5400</td>
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<td></td>
<td>72&quot;</td>
<td>H-7224</td>
<td>H-7230</td>
<td>H-7236</td>
<td>3000</td>
</tr>
</tbody>
</table>

**Standard Base Ordering Example**

S- 4824 -30 -A - FA

- **Model**
  - L - Light Duty
  - S - Standard Duty
  - H - Heavy Duty

- **Base Length**
  - 36" - 36 inches
  - 48" - 48 inches
  - 60" - 60 inches
  - 72" - 72 inches

- **Base Width**
  - 24" - 24 inches
  - 30" - 30 inches
  - 36" - 36 inches

- **Height**
  - 30 - 30 inches
  - 35 - 35 inches

- **Processing**
  - A - Assembled
  - K - Kit form

- **FA** - Optional Floor Anchor Brackets

*Custom sizes are available* - consult the factory
The software that generates drawings and quotes in one-fifth the time!

FrameQuoter is the most advanced and easiest to use aluminum profile design and quote software available today! It will enable you to quickly and easily produce professional looking 3D drawings with bills of materials and quotations that are detailed and accurate, 5 times faster than doing them by hand! FrameQuoter will increase your efficiency and confidence.
You Can Design This Machine Guard
In 2 ½ Hours…

Or In Just 14 Minutes.

Try Our
FREE Design Software
And See For Yourself.

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

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

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

Easy To Learn, Easy To Use

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

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

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

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

### T-slot Extrusions and Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Extrusion Size</th>
<th>Fastener Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX-1, BLX-1</td>
<td>1.5&quot; x 1.5&quot;</td>
<td>38 x 38 mm</td>
</tr>
<tr>
<td>EX-2, BLX-2</td>
<td>1.5&quot; x 3&quot;</td>
<td>38 x 76 mm</td>
</tr>
<tr>
<td>EX-3, BLX-3</td>
<td>3&quot; x 3&quot;</td>
<td>76 x 76 mm</td>
</tr>
<tr>
<td>EX-45HD</td>
<td>4.5&quot; x 4.5&quot;</td>
<td>114 x 114 mm</td>
</tr>
<tr>
<td>EX-50</td>
<td>1&quot; x 1.5&quot;</td>
<td>25 x 38 mm</td>
</tr>
<tr>
<td>EX-52</td>
<td>1&quot; x 1.5&quot;</td>
<td>25 x 38 mm</td>
</tr>
<tr>
<td>EX-54</td>
<td>1&quot; x 1.5&quot;</td>
<td>25 x 38 mm</td>
</tr>
<tr>
<td>EX-60</td>
<td>2.38&quot; x 2.38&quot;</td>
<td>60 x 60 mm</td>
</tr>
<tr>
<td>EX-61</td>
<td>1.5&quot; x 1.5&quot;</td>
<td>38 x 38 mm</td>
</tr>
<tr>
<td>EX-62</td>
<td>1.5&quot; x 1.5&quot;</td>
<td>38 x 38 mm</td>
</tr>
<tr>
<td>EX-63</td>
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<td>38 x 38 mm</td>
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<td>EX-64</td>
<td>1.5&quot; x 1.5&quot;</td>
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<td>1.5&quot; x 1.5&quot;</td>
<td>38 x 38 mm</td>
</tr>
<tr>
<td>EX-66</td>
<td>1.5&quot; x 3&quot;</td>
<td>38 x 76 mm</td>
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<td>EX-67, BLX-67</td>
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<td>38 x 76 mm</td>
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<td>EX-73</td>
<td>1&quot; x 1&quot;</td>
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<tr>
<td>EX-80</td>
<td>1.5&quot; angle</td>
<td>38 x 38 mm</td>
</tr>
<tr>
<td>EX-82</td>
<td>1.5&quot; x 3.0&quot;</td>
<td>38 x 76 mm</td>
</tr>
<tr>
<td>EX-83</td>
<td>1.5&quot; x 3.0&quot;</td>
<td>38 x 76 mm</td>
</tr>
</tbody>
</table>
Structural Aluminum Extrusions

5/16" SLOTS

EX-1 1.5" x 1.5"
EX-6 1.5" x 1.5"
EX-9 1.5" x 1.5"
EX-2 1.5" x 3.0"
EX-67 1.5" x 3.0"
EX-83 1.5" x 3.0"
EX-26 1.5" x 4.5"
EX-3 3.0" x 3.0"
EX-37 3.0" x 3.0"
EX-36 3.0" x 6.0"
EX-45HD 4.5" x 4.5"
EX-60 2.38" x 2.38"
Structural Aluminum Extrusions

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-66
1.5" x 3.0"

EX-69
1.5" x 3.0"

EX-52
1.0" x 1.5"

EX-54
1.0" x 1.5"

EX-82
1.5" x 1.5" 45 deg.

EX-81
1.75" x 2.0"

EX-57
.75" x 3.0"
 Structural
Aluminum Extrusions

BLACK-Series

BLX-1
1.5" x 1.5"

BLX-6
1.5" x 1.5"

BLX-9
1.5" x 1.5"

BLX-2
1.5" x 3.0"

BLX-67
1.5" x 3.0"

BLX-3
3.0" x 3.0"
Structural
Aluminum Extrusions

EX-1
Clear Anodized

BLX-1
Black Anodized

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

Section Properties:
Moment of Inertia in^4  \(\frac{.242}{.263}\)
Section modulus in^3 \(\frac{.323}{.323}\)

EX-6
Clear Anodized

BLX-6
Black Anodized

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

Section Properties:
Moment of Inertia in^4 \(\frac{.199}{.216}\)
Section modulus in^3 \(\frac{.265}{.265}\)
### 5/16" Slots

#### Clear Anodized
- EX-9

Black Anodized
- BLX-9

**Material:** 6105-T5 Aluminum  
**Est. Area:** 2.051 Sq. In.  
**Weight/Ft:** .85 lbs.  
**Width:** 3.00"  
**Lengths:** Standard

**Section Properties:**
- Moment of Inertia $I_{\text{in}}^4$: 1.76 in$^4$  
- Section Modulus $S_{\text{in}}$: 1.173 in$^3$

#### Structural Aluminum Extrusions
/MT46/MT51/MT32/MT116/MT121/MT112/MT46
/MT49/MT46/MT53/MT48  
/MT46/MT55/MT53  
/MT51/MT46/MT48/MT48  
/MT49/MT46/MT53/MT48  
/MT46/MT55/MT53  
/MT46/MT50/MT54/MT32/MT100/MT105/MT97/MT46/MT32/MT40/MT50/MT41  

---

### 5/16" Slots

#### Clear Anodized
- EX-2

Black Anodized
- BLX-2

**Material:** 6105-T5 Aluminum  
**Est. Area:** .73 Sq. In.  
**Weight/Ft:** 2.471 lbs.  
**Width:** 3.00"  
**Lengths:** Standard

**Section Properties:**
- Moment of Inertia $I_{\text{in}}^4$: .162 in$^4$  
- Section Modulus $S_{\text{in}}$: .216 in$^3$
Structural Aluminum Extrusions

**EX-67**
- **Clear Anodized**
- **BLX-67**
- **Black Anodized**

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

**Section Properties:**
- Moment of Inertia in⁴: 1.376, 0.387
- Section modulus in³: 0.917, 0.516

**EX-3**
- **Clear Anodized**
- **BLX-3**
- **Black Anodized**

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

**Section Properties:**
- Moment of Inertia in⁴: 3.26
- Section modulus in³: 2.173
EX-37

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

**Section Properties:**
- **Moment of Inertia in**^4 **=** 2.44
- **Section modulus in**^3 **=** 1.63

EX-26

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

**Section Properties:**
- **Moment of Inertia in**^4 **=** 5.678
- **Section modulus in**^3 **=** 2.5236
**EX-36**

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

**Section Properties:**

<table>
<thead>
<tr>
<th>Moment of Inertia in⁴</th>
<th>22.05</th>
<th>6.41</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in³</td>
<td>7.35</td>
<td>4.28</td>
</tr>
</tbody>
</table>

**EX-60**

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 2.041 Sq. In.

**Section Properties:**

<table>
<thead>
<tr>
<th>Moment of Inertia in⁴</th>
<th>1.021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in³</td>
<td>0.860</td>
</tr>
</tbody>
</table>
**EX-83**

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

- **Finish** = Clear anodized
- **Material** = 6105-T5 Aluminum
- **Weight/ft** = 7.445 lbs.
- **192.63” Length standard.**

**Section Properties:**

<table>
<thead>
<tr>
<th></th>
<th>EX-83</th>
<th>EX-45HD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Moment of Inertia in</strong></td>
<td>1.229</td>
<td>16.4</td>
</tr>
<tr>
<td><strong>Section Modulus in</strong></td>
<td>0.338</td>
<td>6.56</td>
</tr>
</tbody>
</table>

**True Octagon**

- **Finish** = Clear anodized
- **Material** = 6105-T5 Aluminum
- **Weight/ft** = 7.445 lbs.
- **192.63” Length standard.**

**Section Properties:**

<table>
<thead>
<tr>
<th></th>
<th>EX-45HD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Moment of Inertia in</strong></td>
<td>16.4</td>
</tr>
<tr>
<td><strong>Section Modulus in</strong></td>
<td>6.56</td>
</tr>
</tbody>
</table>
SMOOTH-Series Aluminum Profiles Give You Less:

Less Slots.  
Less Grooves.  
Less Dirt.  
Less Germs.  
Less Maintenance.  
And Less Headaches.  
For Less Money.

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

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

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

*In stock and available for immediate delivery.*

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

**EX-61**

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

**Section Properties:**

<table>
<thead>
<tr>
<th></th>
<th>0.200</th>
<th>0.210</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moment of Inertia in$^4$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section modulus in$^3$</td>
<td>0.267</td>
<td>0.276</td>
</tr>
</tbody>
</table>

**EX-63**

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

**Section Properties:**

<table>
<thead>
<tr>
<th></th>
<th>0.195</th>
<th>0.203</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moment of Inertia in$^4$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Section modulus in$^3$</td>
<td>0.260</td>
<td>0.267</td>
</tr>
</tbody>
</table>
**SMOOTH-Series**

**EX-64**

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

**Section Properties:**

<table>
<thead>
<tr>
<th>Moment of Inertia in^4</th>
<th>0.190</th>
<th>0.210</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in^3</td>
<td>0.253</td>
<td>0.280</td>
</tr>
</tbody>
</table>

**SMOOTH-Series**

**EX-65**

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

**Section Properties:**

<table>
<thead>
<tr>
<th>Moment of Inertia in^4</th>
<th>0.200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in^3</td>
<td>0.267</td>
</tr>
</tbody>
</table>
**EX-7**

- **Finish** = Clear anodized
- **Material** = 6105-T5 Aluminum
- **Est. Area** = .729 Sq. In.

**Section Properties:**
- Moment of Inertia $in^4$ : .137
- Section modulus $in^3$ : .195

**EX-8**

- **Finish** = Clear anodized
- **Material** = 6105-T5 Aluminum
- **Est. Area** = .803 Sq. In.

**Section Properties:**
- Moment of Inertia $in^4$ : .156
- Section modulus $in^3$ : .188
**SMOOTH-Series**

**EX-66**

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

**Section Properties:**

<table>
<thead>
<tr>
<th>Moment of Inertia in^4</th>
<th>1.385</th>
<th>0.401</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in^3</td>
<td>0.923</td>
<td>0.535</td>
</tr>
</tbody>
</table>

**SMOOTH-Series**

**EX-68**

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

**Section Properties:**

<table>
<thead>
<tr>
<th>Moment of Inertia in^4</th>
<th>1.385</th>
<th>0.401</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in^3</td>
<td>0.923</td>
<td>0.535</td>
</tr>
</tbody>
</table>
Structural Aluminum Extrusions

**EX-69**

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

**Section Properties:**
- Moment of Inertia $in^4$: 0.417, 0.549
- Section modulus $in^3$: 0.099, 0.198

**EX-52**

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

**Section Properties:**
- Moment of Inertia $in^4$: 1.385, 0.401
- Section modulus $in^3$: 0.923, 0.535
**SMOOTH-Series**

**EX-54**

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .85 Sq. In.
- Weight/ft = 1.008 lbs.
- 96", 192.63" Lengths standard.

**Section Properties:**

<table>
<thead>
<tr>
<th></th>
<th>Moment of Inertia in(^4)</th>
<th>Section modulus in(^3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX-54</td>
<td>0.142</td>
<td>0.189</td>
</tr>
<tr>
<td>EX-82</td>
<td>0.100</td>
<td>0.200</td>
</tr>
</tbody>
</table>

**SMOOTH-Series**

**EX-82**

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

- \(\emptyset\) 0.26 typ. (5/16" tap size)
**Aluminum Extrusions**

**EX-57**

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.05 Sq. In.

<table>
<thead>
<tr>
<th>Section Properties:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moment of Inertia $in^4$</td>
</tr>
<tr>
<td>Section modulus $in^3$</td>
</tr>
</tbody>
</table>

**EX-81**

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.17 Sq. In.

<table>
<thead>
<tr>
<th>Section Properties:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moment of Inertia $in^4$</td>
</tr>
<tr>
<td>Section modulus $in^3$</td>
</tr>
</tbody>
</table>

**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.

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

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

Recommended torque for 5/16-18 or m8 fasteners is 15 to 20 ft lbs.
Section C.1
Corner Angle Brackets

Section C.2
Gusseted Corner Angle Brackets
Section C.4
Internal & Adjustable Corner Brackets

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page 110  page 111  page 112  page 113

page 114  page 115  page 116  page 117

page 118  page 119  page 120  page 121

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Section C.5
Joining Plates
Section C.6
Floor Mounts, Casters and Adjustable Feet
Section C.7
Panels, Doors and Hardware
Section C.8
Hinges, Handles and Latches
Section C.9
Sliding Components and Bearings
Section C.10
Stanchions

Section C.11
Conveyor

Section C.12
Screws, Nuts & Fasteners
Section C.13
Miscellaneous Components

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Corner Angle

Clear Anodized
Flat Black Powder Coat

EB-1
BLB-1

Material - Aluminum

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

**EB-2**
**BLB-2**

- Clear Anodized
- Flat Black Powder Coat

---

**Material - Aluminum**

**Recommended Hardware**

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

---

Dimensions:

- .25
- .343 Dia. Thru (4)
- 1.50 typ.
- 2.88
- 1.50
Corner Angle

Clear Anodized
Flat Black Powder Coat

<table>
<thead>
<tr>
<th>EB-3</th>
<th>BLB-3</th>
</tr>
</thead>
</table>

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

Material - Aluminum

.343 Dia.
Thru (4)

1.50 typ.

.25

1.38

3.00

3.00
Corner Angle

EB-4
BLB-4

Clear Anodized
Flat Black Powder Coat

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

Material - Aluminum
Corner Angle

Material - Aluminum
Finish - Clear Anodize

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

**EB-60**

Material - Aluminum
Finish - Clear Anodize

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

Dimensions:
- 1.50 typ.
- .75 typ.
- .25
- .343 Dia Thru (12)
- 4.50
- 3.00
Corner Angle
EB-55

Material - Aluminum
Finish - Clear Anodize

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

EB-56

Material - Aluminum
Finish - Clear Anodize

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

.25

.343 Dia. Thru (16)

3.00 typ.

6.00

1.50 typ.

.75 typ.

.75

3.00

3.00 typ.
Corner Angle

Clear Anodized
Flat Black Powder Coat

EB-100
BLB-100

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

Material - Aluminum
**Corner Angle**

**EB-101**

**Recommended Hardware**

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

**Material - Aluminum**

**Finish - Clear Anodize**
Material - Aluminum
Finish - Clear Anodize

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

Material - Aluminum
Finish - Clear Anodize

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

EB-103

Material - Aluminum
Finish - Clear Anodize

Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut
Economy Corner Panel Angle

EB-81

Material - Aluminum
Finish - Clear Anodize

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

EB-80

.343 Dia. Thru (2)
.50
1.00
1.50
1.50
.25

Material - Aluminum
Finish - Clear Anodize
Economy Corner Panel Angle

EB-82

Material - Aluminum
Finish - Clear Anodize

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

Clear Anodized
Flat Black Powder Coat

EB-30
BLB-30

.343 dia.

thru (4)

3.00

1.50

1.50

3.00

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

Material - Aluminum
Corner Angle

**EB-25**

Material - Aluminum
Finish - Clear Anodize

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

.343 dia. thru (6)
Corner Angle

EB-57

Material - Aluminum
Finish - Clear Anodize

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

Corner Angle Dimensions:
- .343 Dia. Thru (6)
- 1.50 typ.
- .75 typ.
- 3.00
- 3.00
- 3.00
- 1.50
- .25
Corner Angle

EB-58

Material - Aluminum
Finish - Clear Anodize

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

.343 Dia. Thru (6)
1.50 typ.
.75 typ.
3.00
3.00
3.00
Corner Gusset

Clear Anodized
Flat Black Powder Coat

EB-111
BLB-111

Material - Aluminum

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

.343 dia. thru & c'bore (2)
Corner Gusset

**EB-112** Clear Anodized
**BLB-112** Flat Black Powder Coat

- .343 dia thru & c'bore (4)

**Material** - Aluminum

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

**Dimensions**
- 1.50 x 1.50 x 3.00
Corner Gusset

EB-113

Material - Aluminum
Finish - Clear Anodize

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

.343 dia thru & c’bore (6)
Corner Gusset

EB-114

Material - Aluminum
Finish - Clear Anodize

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

.343 dia thru & c'bore (8)

1.50
.75
.75
typ.
.75
1.50
6.00
Corner Gusset

Clear Anodized

Flat Black Powder Coat

EB-121

BLB-121

Recommended Hardware

(4) EF-12-.63 BHCS

(4) EF-2 T-nut

Material - Aluminum
Corner Gusset

**EB-122**

Clear Anodized

**BLB-122**

Flat Black Powder Coat

Material - Aluminum

Recommended Hardware

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

Corner dimensions:

- .343 dia. thru & c'bore (8)
- 3.00
- 1.50
- .75
- .75
- 1.50
- 3.00

Material:

- Clear Anodized
- Flat Black Powder Coat
Corner Gusset

Material - Aluminum
Finish - Clear Anodize

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

.343 dia. thru & c’bore (12)
Corner Gusset

EB-124

Material - Aluminum
Finish - Clear Anodize

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

.343 dia. thru & c’bore (16)
1.5 x 1.5 Extrusion Corner Gusset

EB-6

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

Hardware included
1.5 x 1.5 Extrusion Corner Gusset

EB-7 Clear Anodized
BLB-7 Black Anodized

Other Standard Lengths:
EB-7-6 6"
EB-7-12 12"
EB-7-18 18"

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

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

Material - Aluminum (EX-1, BLX-1)
1.5 x 1.5 Light Extrusion Corner Gusset

Clear Anodized EB-7LT
Black Anodized BLB-7LT

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

Other Standard Lengths:
EB-7LT-6 6"
EB-7LT-12 12"
EB-7LT-18 18"

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

Hardware included
Stainless hardware available. Add -SS e.g. EB-7LT-SS
Metric hardware available (m8). Add -M e.g. EB-7LT-M
Smooth 1.5 x 1.5 Extrusion Corner Gusset

**EB-7SM** Clear Anodized

**BLB-7SM** Flat Black Powder Coat

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

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

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

Material - Aluminum (EX-61)
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
Corner Gusset

Material - Aluminum
Finish - Clear Anodize

EB-44

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

5/16" C'bore (2)

3.00
1.50
1.50
1.50

.81 typ.
Corner Gusset
(used with EX-52 and EX-54)

EB-20

Material - Aluminum
Finish - Clear Anodize

Recommended Hardware
(4) EF-11-.63 SHCS
(4) EF-2 T-nut
1.5 x 3.0 Extrusion
Corner Gusset

EB-8

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

Hardware included

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

Other Standard Lengths:
EB-9-6  6"
EB-9-12  12"

Special lengths
(up to 96")
available on request
EB-9-SP
BLB-9-SP
Black anodized gusset
available upon request

Hardware included
Stainless hardware available.
Add -SS  e.g. EB-9-SS
Metric hardware available (m8).
Add -M e.g. EB-9-M
Cast Corner Gusset

EB-10
EB-10A Slotted

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

Material - Aluminum
Finish - Grey Powder Coat

EB-10A
(1) hole slotted

1/16" SLOTS

Material - Aluminum
Finish - Grey Powder Coat
Cast Corner Gusset

EB-11

Material - Aluminum
Finish - Grey Powder Coat

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

.343 Dia. Thru (4)
1.35
1.50 typ.
3.00
3.00

5/16" SLOTS
Cast Corner Gusset

EB-12

Material - Aluminum
Finish - Grey Powder Coat

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

.343 Dia.
Thru (8)

1.50 typ.

2.88

3.00

3.00
Steel Double Angle Bracket

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

Material - Steel
Finish - Zinc Plated
Steel Welded Corner Angle

EB-16

Material - Steel
Finish - Black Powder Coat

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

.19
.343 Dia. Thru (4)

3.00 typ.
1.50
.75
.75

1.50
3.00
1.50
Steel Corner Angle

**EB-15P**

**Material - Steel**

**Finish - Black Powder Coat**

**Recommended Hardware**

(4) EF-12-.63 BHCS

(4) EF-2 T-nut

**Dimensions**

- 6.00
- 1.50
- 3.00
- .75
- .25

-.343 Dia. Thru (4)
Steel Welded Corner Angle

EB-15

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

Material - Steel
Finish - Black Powder Coat

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

EB-15LH (left hand)
EB-15RH (right hand)
Steel Corner Angle

EB-14P

Material: Steel
Finish: Black Powder Coat

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

3.00
.75
1.50
6.00
.75
Steel Welded Corner Angle

Material: Steel
Finish: Black Powder Coat

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

Dimensions:
3.00 Dia. Thru (8)
## Anchor Fastener

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>with hardware</td>
<td>EF-62</td>
</tr>
<tr>
<td>without hardware</td>
<td>EF-62P</td>
</tr>
<tr>
<td>with metric hardware</td>
<td>EF-62M</td>
</tr>
<tr>
<td>with stainless steel bolt</td>
<td>EF-62SS</td>
</tr>
<tr>
<td>metric with stainless steel</td>
<td>EF-62M-SS</td>
</tr>
<tr>
<td>bolt</td>
<td>BLF-62</td>
</tr>
</tbody>
</table>

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

![Anchor Fastener Diagram]
### Double Anchor Fastener

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-63</td>
<td>X = 1.5&quot;</td>
<td>Anchor: Cast Zinc, Zinc Plated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bolt: Steel, Black Oxide Coating</td>
</tr>
<tr>
<td>EF-63M</td>
<td>X = 1.5&quot; with metric hardware</td>
<td>T-nut: Steel Zinc Coated</td>
</tr>
<tr>
<td>EF-63SS</td>
<td>X = 1.5&quot; with stainless steel bolt</td>
<td></td>
</tr>
<tr>
<td>EF-64</td>
<td>X = 3.0&quot;</td>
<td></td>
</tr>
<tr>
<td>EF-64M</td>
<td>X = 3.0&quot; with metric hardware</td>
<td></td>
</tr>
<tr>
<td>EF-64SS</td>
<td>X = 3.0&quot; with stainless steel bolt</td>
<td></td>
</tr>
</tbody>
</table>

- **All Hardware Included**
- .812 dia. x
- .650 deep (2)
- c’bore

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

![Diagram of Double Anchor Fastener]
Anchor Butt Fastener

with metric hardware

with stainless steel bolt

EF-61
EF-61M
EF-61SS

All Hardware Included

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

.812 dia. x .650 deep (2) c’bore

.750

.750
Set Screw Anchor Fastener

EF-49 with Hardware

DRILL Ø 5/8" X 1.00 DEEP

Hardware Included

Use with 5/16" Slot Extrusions Only

Material
- Anchor - Cold Rolled Steel
- Bolt - Cold Rolled Steel
- Set Screw - Steel, Black Oxide Coating
Plate Connector

Hardware included

EF-100

EF-100M

Material - Cast Zinc
Finish - Zinc Plated
Mounting Plate

EB-222

Material - Aluminum
Finish - Clear Anodize

Hardware Included

EX-57

Tap end of EX-57 extrusion 5/16-18

5/16 C'Bore (2)

ø.191 Thru (2)

.75 typ.

.25 typ.

.25 typ.

.75 typ.

3.00

1.50

.38

5/16" SLOTS
Internal Corner Bracket

EF-27

Material - Steel
Finish - Zinc Plated

1/4-20 Set Screws Included
Internal Corner Bracket

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

Hardware Included

- .625 dia (3) thru outside surface only

Material - Steel
Finish - Zinc Plated

Note: This is the strongest door corner available anywhere.

Drill thru .343 dia.
Tap 5/16-18 center hole

Drill and tap 5/16-18 (2)
Universal Connector

zinc plated steel

EF-29

stainless steel

EF-SS29

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

.31 dia. access hole

EX-1, EX-6, or EX-9
Universal Connector

**EF-29A** zinc plated steel

**EF-SS29A** stainless steel

Note: No need to notch panel

- .31 dia. access hole
- EX-1, EX-6, or EX-9

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

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

---

Eliminates need to notch panel at corner

Requires (1) EF-12-1.0 BHCS

Material - Steel
Finish - Zinc Plated

---
Double Universal Connector

**EF-29D** 33 wide slot

.31 dia. access hole (2)

Requires (2) EF-12-1.0 BHCS

Material - Steel
Finish - Zinc Plated
Castle Corner

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
Hardware Included

Material - Aluminum
Finish - Grey Powder Coat
Castle Corner 1.5 x 1.5 Profiles

EB-86

Hardware Included

Material - Bracket: Die Cast Zinc
Cap: Reinforced Nylon
Castle Corner 1.5 x 1.5 Profiles

EX-65
EX-8
EX-8

Hardware Included

Material - Aluminum
Finish - Grey Powder Coat
Castle Corner 1.5 x 1.5 Profiles

EB-54

Hardware Included

Material - Aluminum
Finish - Grey Powder Coat
Material - Aluminum
Finish - Clear Anodize

EX-7 (3)

Hardware Included
Castle Corner

EB-51

Material - Aluminum
Finish - Clear Anodize

Hardware Included

1.50 typ.
.38 typ.
.343 Dia. Thru (3)
.75 typ.

EX-7 (2)

EX-65
Adjustable Joint Connector

EB-13

Material - Aluminum
Finish - Grey Powder Coat

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

5/16" SLOTS

.343 Dia. Thru (2)
2.13
1.50
Pivoting Hinge

EB-13P

Material - Aluminum
Finish - Grey Powder Coat

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

Bronze Bushing

2.13

1.50
Pivot Joint with Locking Handle

EB-13LH

Material - Aluminum
Finish - Grey Powder Coat

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

.343 Dia.
Thru (2)

1.50

2.13
Adjustable Corner Post

EB-46

Material - Aluminum
Finish - Clear Anodize

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

drilled and c'bored for 5/16 SHCS

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

5/16-18

.75

1.50

.76

1.50

.75

1.50
Adjustable Corner Post

EB-47

Material - Aluminum
Finish - Clear Anodize

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

Assembly
(2) EB-48
(1) EB-47

5/16-18 tap both ends

drilled and c'bored for 5/16 SHCS (2)

Material - Aluminum
Finish - Clear Anodize
Adjustable Arm Post

**EB-48**

Use with EB-46 & EB-47

- **Material**: Aluminum
- **Finish**: Clear Anodize

 Requires

- (3) EF-12-0.63 BHCS
- (2) EF-2 T-nut

Assembly

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

Material - Aluminum
Finish - Clear Anodize
Adjustable Post Angle

Use with EB-46, EB-47  EB-66

Material - Aluminum
Finish - Clear Anodize

Recomended Hardware
(3) EF-12-.63 SHCS
(2) EF-2 T-nut
Pivoting Post Arm with Bushing

EB-65

Use with EB-68, EB-69

For Shoulder Bolt
order (1) EF-46

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

Material - Aluminum
Finish - Clear Anodize

.375 ID Bushing

.343 Dia Thru (3)

Material - Aluminum
Finish - Clear Anodize

EB-65

Use with EB-68, EB-69

For Shoulder Bolt
order (1) EF-46

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

Material - Aluminum
Finish - Clear Anodize
Pivoting Post Angle with Bushing

Use with EB-68, EB-69

EB-67

For Shoulder
Bolt order (1) EF-46

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

Material - Aluminum
Finish - Clear Anodize
EB-68
Pivoting Corner Post
Use with (2) EB-65 or (2) EB-67

Material - Aluminum
Finish - Clear Anodize

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

drilled and c'bored for 5/16 SHCS (2)

5/16-18 tap both ends

5/16" SLOTS
**Pivoting Corner Post**

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

**EB-69**

**Material** - Aluminum  
**Finish** - Clear Anodize

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

[Diagram of Pivoting Corner Post]

- Drilled and c'bored for 5/16 SHCS
- 1.50
- .76
- .75
- 5/16-18
- 1.44
Joining Plate

<table>
<thead>
<tr>
<th>EB-33</th>
<th>Clear Anodized</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLB-33</td>
<td>Flat Black Powder Coat</td>
</tr>
<tr>
<td>EB-33-S</td>
<td>Clear Anodized 1 hole is slotted</td>
</tr>
</tbody>
</table>

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

Material - Aluminum
Joining Plate

Clear Anodized
Flat Black Powder Coat

EB-31
BLB-31

Material - Aluminum

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

.343 dia. thru (3)
1.50 typ.
.75 typ.
.25
1.50
4.50

5/16" SLOTS

9116 Virginia Road  Lake in the Hills, IL 60156  Telephone 847/458-0993
FAX 847/458-0934  e-mail: info@frame-world.com  web: frame-world.com
Joining Plate

<table>
<thead>
<tr>
<th>EB-28</th>
<th>BLB-28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear Anodized</td>
<td>Flat Black Powder Coat</td>
</tr>
</tbody>
</table>

Material - Aluminum

Recommended Hardware

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

.343 dia. thru (4)  6.00
1.50 typ.
.75 typ.
.25
1.50

5/16" SLOTS
Joining Plate

Material - Aluminum

Clear Anodized
Flat Black Powder Coat

EB-29
BLB-29

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

3.00
.343 dia. thru (4)
.75
150
.25
3.00

5/16" SLOTS
Joining Plate

EB-32

Material - Aluminum
Finish - Clear Anodize

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

.343 dia. thru (6)
4.50
.75 typ.
.25
typ.
1.50
typ.
3.00
Joining Plate

EB-26

Material - Aluminum
Finish - Clear Anodize

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

.343 Dia Thru (8)
1.50 typ.
.75 typ.
3.00
6.00
.25
Joining Plate

**EB-83**

**Material - Aluminum**

**Finish - Clear Anodize**

**Recommended Hardware**

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

**Dimensions:**

- 4.50" x 4.50"
- .25"
- 1.50 Typ.

**Details:**

- .343 Dia. Thru (9)

*Illustration of Joining Plate with hardware connections.*

---

[9116 Virginia Road  Lake in the Hills, IL 60156  Telephone 847/458-0993  FAX 847/458-0934  e-mail: info@frame-world.com  web: frame-world.com]
Joining Plate

Clear Anodized
Flat Black Powder Coat

EB-84
BLB-84

Material - Aluminum

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

EB-85

Material - Aluminum
Finish - Clear Anodize

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

Clear Anodized
Flat Black Powder Coat

EB-79
BLB-79

Material - Aluminum

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

.343 dia thru (4)
4.50

.25
1.50 typ.

.75
3.00

.343 dia thru (4)
Joining Plate

EB-22 Clear Anodized
BLB-22 Flat Black Powder Coat

Material - Aluminum

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

.343 Dia. Thru (6)
4.50
.75 typ.
1.50 typ.
.25
4.50
Joining Plate

Clear Anodized
Flat Black Powder Coat

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EB-71</td>
<td></td>
</tr>
<tr>
<td>BLB-71</td>
<td></td>
</tr>
</tbody>
</table>

Material - Aluminum

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

Dimensions:
- 1.50 typ.
- 1.50
- 1.50
- 6.00
- .25
- .343 Dia. Thru (7)
- 6.00
Joining Plate

EB-34

Material - Aluminum
Finish - Clear Anodize

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

4.50
.25 typ.
.75 typ.
1.50 typ.
4.50
Joining Plate

EB-27

Material - Aluminum
Finish - Clear Anodize

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

.343 dia. thru (12)
6.00
.75 typ.

1.50 typ.

.25

6.00
Joining Plate

EB-73

Material - Aluminum
Finish - Clear Anodize

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

Clear Anodized
Flat Black Powder Coat

**Material - Aluminum**

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

**EB-23**
**BLB-23**

- .343 Dia. Thru (5)
- 4.50
- .75 typ.
- 1.50 typ.
- .25
- 4.50
Joining Plate

EB-74

Material - Aluminum
Finish - Clear Anodize

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

EB-87

Material - Aluminum
Finish - Clear Anodize

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

.343 Dia. Thru (8)

4.50
1.50
.25
.75 typ.
1.50 typ.
6.00
Joining Plate

EB-24

Material - Aluminum
Finish - Clear Anodize

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

.343 Dia. Thru (12)

6.00

.75 typ.

1.50 typ.

.25

6.00

.25
Joining Plate

EB-76

Material - Aluminum
Finish - Clear Anodize

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

.343 Dia. Thru (7)
7.50
4.50
1.50 typ.
1.50
1.50
.25

5/16" SLOTS
Joining Plate

EB-78

Material - Aluminum
Finish - Clear Anodize

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

Dimensions:
- 6.00
- 3.00
- 3.00
- 1.50 typ.
- 9.00
- .343 Dia. Thru (16)
- .25
- 3.00

5/16" SLOTS
45° Joining Plate

EB-77

Recommended Hardware

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

Material - Aluminum
Finish - Clear Anodize
30° Joining Plate

**EB-125**

**Material** - Aluminum  
**Finish** - Clear Anodize

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

**Dimensions**

- 3.25
- 1.50 typ.
- .75 typ.
Material - Aluminum
Finish - Clear Anodize

Recommended Hardware:
(4) EF-12-.63 BHCS
(4) EF-2 T-nut
45° Joining Plate

EB-127

Material - Aluminum
Finish - Clear Anodize

Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut
60° Joining Plate

EB-128

Material - Aluminum
Finish - Clear Anodize

.343 Dia. Thru (4)

60°

3.50

3.00

.25

Recommended Hardware
(4) EF-12-.63 BHCS
(4) EF-2 T-nut
30° Joining Plate

EB-129

- Material: Aluminum
- Finish: Clear Anodize

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

- .343 Dia. Thru (4)
- 30°
- 3.00
- .25
- 4.50

Material - Aluminum
Finish - Clear Anodize
Leveling Plate

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

Requires (2) EF-11-1.0 SHCS

Material - Aluminum

<table>
<thead>
<tr>
<th>Thread</th>
<th>EBP-1</th>
<th>EBP-1A</th>
<th>BLB-1A</th>
<th>EBP-1B</th>
<th>EBP-1C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2-13</td>
<td>3/8-16</td>
<td>3/8-16</td>
<td>5/8-11</td>
<td>3/4-10</td>
<td></td>
</tr>
</tbody>
</table>

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

EBP-1
EBP-1A
BLB-1A
EBP-1B
EBP-1C
Leveling Plate

**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
Leveling Anchor Plate

Material - Aluminum
Finish - Clear Anodize

Requires
(4) EF-11-1.0 SHCS

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

.56 dia. thru for floor anchor

thread

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

5/16" SLOTS
Leveling Anchor Plate

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
Leveling Plate

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

Material: Aluminum
Finish: Clear Anodize

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

Drill @ C'bore for 5/16 SHCS (3) pcs
Leveling Anchor Plate

EBP-8

Material - Aluminum
Finish - Clear Anodize

Requires
(1) EF-11-1.0 SHCS

.56 thru (c'bored from bottom)

Material - Aluminum
Finish - Clear Anodize
Floor Lock Mounting Plate

EB-154

DRILLED & C’BORED FOR 5/16" SHCS (4)

Material - Steel
Finish - Zinc Coated

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

Material - Steel
Finish - Zinc Coated
Adjustable Leg (Economy)

**EAL**

**EAL-1**

Tap for 5/16-18

Max load = 250 lbs ea.

**EAL-2**

Tap for 3/8-16

Max load = 400 lbs ea.
Adjustable Leg (Economy)

**EAL-E1**

Max load = 1700 lbs ea.

Tap for 5/16-18

Material - Steel
Finish - Zinc Plated

**EAL-E2**

Max load = 1700 lbs ea.

Tap for 3/8-16

Material - Steel
Finish - Zinc Plated
Adjustable Leg (Economy)

**EAL-E**

**EAL-E3**

*use with EBP Bracket*

1/2-13 thd.

Max load = 4200 lbs ea.

Material - Steel
Finish - Zinc Plated

2 1/2

1 1/16

1/2-13 thd.
### Adjustable Swivel Leg

#### Specifications

<table>
<thead>
<tr>
<th>Part No</th>
<th>Max (lbs) Work Load</th>
<th>A</th>
<th>C</th>
<th>D</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAL-4</td>
<td>3750 3/8-16</td>
<td>7/8</td>
<td>1 1/4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>EAL-3</td>
<td>5000 1/2-13</td>
<td>1 1/8</td>
<td>1 7/8</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>EAL-5</td>
<td>6000 5/8-11</td>
<td>1 1/4</td>
<td>2 1/2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>EAL-6</td>
<td>7200 3/4-10</td>
<td>1 1/2</td>
<td>3</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>EAL-10</td>
<td>2300 5/16-18</td>
<td>1.25</td>
<td>1 1/4</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

- **Material**: Steel
- **Finish**: Yellow Zinc Plate

---

5/16" SLOTS
### Adjustable Leg (cushioned)

<table>
<thead>
<tr>
<th>Part No</th>
<th>Max (lbs) Work Load</th>
<th>C Thd Size</th>
<th>D</th>
<th>B</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAL-7</td>
<td>100</td>
<td>5/16-18</td>
<td>1.0</td>
<td>13/16</td>
<td>1 1/4</td>
</tr>
<tr>
<td>EAL-8</td>
<td>300</td>
<td>3/8-16</td>
<td>1.5</td>
<td>63/64</td>
<td>3.0</td>
</tr>
<tr>
<td>EAL-9</td>
<td>300</td>
<td>1/2-13</td>
<td>1.5</td>
<td>11/16</td>
<td>2.0</td>
</tr>
</tbody>
</table>

- **Zinc Plated Steel**
- **70 Durometer Neoprene Rubber**

---

5/16" SLOTS

5/16" SLOTS
Threaded Stem Caster

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

Note: Wheel material is hard plastic

Tap for 3/8-16
EX-1, EX-6 or EX-9

Use with EBP Bracket

EC-S1
EC-S2
EC-S3
Fixed Plate Caster

**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

Recommened Hardware

(4) EF-11.63 BHCS

Note: Wheel material is hard plastic

<table>
<thead>
<tr>
<th>Part no.</th>
<th>D</th>
<th>H</th>
<th>Brake</th>
<th>Max. Load</th>
<th>Wheel Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-3F</td>
<td>3</td>
<td>4.13</td>
<td>No</td>
<td>250 lbs</td>
<td>1.25</td>
</tr>
<tr>
<td>EC-4F</td>
<td>4</td>
<td>5.00</td>
<td>No</td>
<td>300 lbs</td>
<td>1.25</td>
</tr>
<tr>
<td>EC-5F</td>
<td>5</td>
<td>6.00</td>
<td>No</td>
<td>325 lbs</td>
<td>1.25</td>
</tr>
</tbody>
</table>
Swivel Plate Caster w/brake

EX-3 uses caster plate EBP-5

EBP-5 (required)

Recommended Hardware
(4) EF-12.63 BHCS

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

Note: Wheel material is hard plastic

<table>
<thead>
<tr>
<th>Part no.</th>
<th>D</th>
<th>H</th>
<th>Brake</th>
<th>Max. Load</th>
<th>Wheel Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-3S</td>
<td>3</td>
<td>4.13</td>
<td>Yes</td>
<td>250 lbs</td>
<td>1.25</td>
</tr>
<tr>
<td>EC-4S</td>
<td>4</td>
<td>5.00</td>
<td>Yes</td>
<td>300 lbs</td>
<td>1.25</td>
</tr>
<tr>
<td>EC-5S</td>
<td>5</td>
<td>6.00</td>
<td>Yes</td>
<td>325 lbs</td>
<td>1.25</td>
</tr>
</tbody>
</table>
Total Lock Swivel Plate Caster

**ECT-4S**

**ECT-5S**

**Locking Mechanism**

**Locks**

**Wheel Rotation and Swivel**

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

Note: Wheel Material is Grey Polyurethane

<table>
<thead>
<tr>
<th>PART NO</th>
<th>ØD</th>
<th>H</th>
<th>BRAKE</th>
<th>MAX LOAD</th>
<th>WHEEL WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECT-4S</td>
<td>4.00</td>
<td>5.13</td>
<td>YES</td>
<td>250 lbs</td>
<td>1.25</td>
</tr>
<tr>
<td>ECT-5S</td>
<td>5.00</td>
<td>6.25</td>
<td>YES</td>
<td>275 lbs</td>
<td>1.25</td>
</tr>
</tbody>
</table>
Total Lock Fixed Plate Caster

**ECT-4F**

**ECT-5F**

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

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

Note: Wheel Material is Grey Polyurethane

<table>
<thead>
<tr>
<th>PART NO</th>
<th>ØD</th>
<th>H</th>
<th>BRAKE</th>
<th>MAX LOAD</th>
<th>WHEEL WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECT-4F</td>
<td>4.00</td>
<td>5.13</td>
<td>NO</td>
<td>250 lbs</td>
<td>1.25</td>
</tr>
<tr>
<td>ECT-5F</td>
<td>5.00</td>
<td>6.25</td>
<td>NO</td>
<td>275 lbs</td>
<td>1.25</td>
</tr>
</tbody>
</table>
Caster Mounting Plate for Plate Casters

EBP-5 Clear Anodized
BLP-5 Flat Black Powder Coat

Requires
(4) EF-11-1.0 SHCS

Material - Aluminum
Caster Mounting Plate
For Plate Casters

EBP-5A

5/16-18 tap (4)
2.88

1.75
1.50
1.50

4.00
3.00

Drilled and c'bored for 5/16 SHCS (4)

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

Note: Plate can be rotated 90°

Material - Aluminum
Finish - Clear Anodize
Leveling Caster

**KC-100F**

3.0 dia.

Leveler Extended Height = 5.63"

Load Capacity = 2,000 lbs

---

**EBP-5-LVL**

**Leveling Caster Plate**

0.75 thick

Material - Aluminum

5/16-18 tap (4) 5/16-18 C-bores (4)

Load Capacity = 2,000 lbs
Top Plate Dimension - 4.0" x 4.0"
Bolt Diameter - Ø.375"
Mounting Hole Centerline - 2.625" x 3.625"
(4) 3/8-16 x 5/8" BHCS Included
Use EB-154 Mounting Plate for 5/16" Slot Extrusions.

<table>
<thead>
<tr>
<th>PART NO</th>
<th>RETRACTED</th>
<th>EXTENDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>EB-151</td>
<td>5 1/16&quot;</td>
<td>5 5/8&quot;</td>
</tr>
<tr>
<td>EB-153</td>
<td>6 3/4&quot;</td>
<td>7 3/4&quot;</td>
</tr>
</tbody>
</table>
Economy Aluminum Floor Mount

**EB-15AL** Clear Anodized
**BLB-15AL** Flat Black Powder Coat

Material - Aluminum

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

5/16" SLOTS
Economy Aluminum Floor Mount

**EB-15AL3**

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

**Material** - Aluminum
**Finish** - Clear Anodize
Floor Mounting Bracket

EB-17-FT

Material - Steel
Finish - Grey Powder Coat

.200" thick

Use with 5/16" slot extrusions

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

5/16" SLOTS
Adjustable Leveling Foot

EB-70

Hardware for Mounting to Extrusion Included

Use with 5/16" slot Extrusions

Material - Die Cast Zinc
Finish - Black Powder Coat

M8 BOLTS TYP.

2.88 MAX.

.31 MIN.

3/8 FLOOR ANCHOR RECOMMENDED NOT INCLUDED
Steel Flanged Foot

EB-41

Material - Steel
Finish - Black Powder Coat

Recommended Hardware
(2) EF-11-1.0 BHCS

use with 1.5" square profiles

9/16 dia. thru (4)

5/16-18 tap (2)
Steel Flanged Foot

EB-42

Material - Steel
Finish - Black Powder Coat

Recommended Hardware
(2) EF-11-1.0 SHCS

use with 1.5” x 3” profiles

5/16-18 tap (2)

5/16" SLOTS

9/16 dia thru (4)

5.50

6.50

4.00

5.00

5.00

1.75

1.75

.75

1.50

.25

.5/16-18

2

289x284

187
Steel Flanged Foot

EB-43

Material - Steel
Finish - Black Powder Coat

use with EX-3 or EX-37

Recommended Hardware
(4) EF-11-1.0 BHCS

9/16 Dia. Thru (4)

5/16-18 tap (8)

Material - Steel
Finish - Black Powder Coat

9/16 Dia. Thru (4)

5/16-18 tap (8)

Recommended Hardware
(4) EF-11-1.0 BHCS

Steel Flanged Foot

EB-43

Material - Steel
Finish - Black Powder Coat

use with EX-3 or EX-37

Recommended Hardware
(4) EF-11-1.0 BHCS

9/16 Dia. Thru (4)

5/16-18 tap (8)

Material - Steel
Finish - Black Powder Coat

use with EX-3 or EX-37

Recommended Hardware
(4) EF-11-1.0 BHCS

9/16 Dia. Thru (4)

5/16-18 tap (8)

Material - Steel
Finish - Black Powder Coat

use with EX-3 or EX-37

Recommended Hardware
(4) EF-11-1.0 BHCS

9/16 Dia. Thru (4)

5/16-18 tap (8)

Material - Steel
Finish - Black Powder Coat

use with EX-3 or EX-37

Recommended Hardware
(4) EF-11-1.0 BHCS

9/16 Dia. Thru (4)

5/16-18 tap (8)

Material - Steel
Finish - Black Powder Coat

use with EX-3 or EX-37

Recommended Hardware
(4) EF-11-1.0 BHCS

9/16 Dia. Thru (4)

5/16-18 tap (8)

Material - Steel
Finish - Black Powder Coat

use with EX-3 or EX-37

Recommended Hardware
(4) EF-11-1.0 BHCS

9/16 Dia. Thru (4)

5/16-18 tap (8)

Material - Steel
Finish - Black Powder Coat

use with EX-3 or EX-37

Recommended Hardware
(4) EF-11-1.0 BHCS

9/16 Dia. Thru (4)

5/16-18 tap (8)

Material - Steel
Finish - Black Powder Coat

use with EX-3 or EX-37

Recommended Hardware
(4) EF-11-1.0 BHCS

9/16 Dia. Thru (4)

5/16-18 tap (8)

Material - Steel
Finish - Black Powder Coat
Wedge Anchor

EF-WA-50

Material - Zinc Plated Steel

1/2-13 thd
3.75

EF-WA-38

Material - Zinc Plated Steel

3/8-16 thd
2.75
### Wire Mesh

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EB-38-2</td>
<td>12 gage wire 2&quot; x 2&quot; opening - Black</td>
</tr>
<tr>
<td>EB-38-1.5</td>
<td>12 gage wire 1.5&quot;x1.5&quot; opening - Black</td>
</tr>
<tr>
<td>EB-38-1</td>
<td>12 gage wire 1&quot;x1&quot; opening - Black</td>
</tr>
<tr>
<td>EB-38-1/2</td>
<td>16 gage wire 1/2&quot;x 1/2&quot; opening - Black</td>
</tr>
<tr>
<td>EB-38-2Y</td>
<td>12 gage wire 2&quot; x 2&quot; opening - Yellow</td>
</tr>
<tr>
<td>EB-38-1Y</td>
<td>12 gage wire 1&quot;x1&quot; opening - Yellow</td>
</tr>
<tr>
<td>EB-38-1/2Y</td>
<td>16 gage wire 1/2&quot;x 1/2&quot; opening - Yellow</td>
</tr>
<tr>
<td>EB-38-1GR</td>
<td>12 gage wire 1&quot;x1&quot; opening - Grey</td>
</tr>
<tr>
<td>EB-38-1SS</td>
<td>12 gage wire 1&quot;x1&quot; opening - Stainless Steel</td>
</tr>
</tbody>
</table>

Material - PVC Coated Steel

Other colors/finishes available upon request
Wire Mesh (Black Rubber) Retaining Strip

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

EB-38G

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

Note: Snug fit - eliminates rattles

Material - Black Rubber

Cut wire mesh to X + .63"
Wire Mesh Bracket

All Hardware Included

Material - Steel
Finish - Black Powder Coat

Note:
Leave comb

EB-39A
EB-39B

EF-4
EF-2D

Cut wire mesh to X + .75"

X

X + .75"
Note: to be used with EB-38-1 and EB-38-1Y screen only

Cut wire mesh to X + .75"

Note: Leave comb when cutting to size

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

Material - Powder Coated Steel
Wire Mesh Bracket

EB-63

Material - Aluminum
Finish - Clear Anodize

Hardware Included

Material - Aluminum
Finish - Clear Anodize
Double Wire Mesh Bracket

Material - Aluminum
Finish - Clear Anodize

Hardware Included

EB-64
Wire Mesh Bracket

EB-96

Note: Use with EB-38-2

Cut Wire Mesh to X + .75"
Note: Leave Comb when cutting to size

Hardware Included

Material - Steel
Finish - Black Powder Coat
Plastic Panels

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

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EB-185</td>
<td>Expanded PVC 6mm Yellow Panel</td>
</tr>
<tr>
<td>EB-186</td>
<td>Expanded PVC 3mm Yellow Panel</td>
</tr>
<tr>
<td>EB-187</td>
<td>Expanded PVC 6mm Grey Panel</td>
</tr>
<tr>
<td>EB-188</td>
<td>Expanded PVC 3mm Grey Panel</td>
</tr>
<tr>
<td>EB-189</td>
<td>Expanded PVC 6mm Blue Panel</td>
</tr>
<tr>
<td>EB-190</td>
<td>Expanded PVC 3mm Blue Panel</td>
</tr>
<tr>
<td>EB-191</td>
<td>Expanded PVC 6mm Red Panel</td>
</tr>
<tr>
<td>EB-192</td>
<td>Expanded PVC 3mm Red Panel</td>
</tr>
<tr>
<td>EB-193</td>
<td>Expanded PVC 6mm Black Panel</td>
</tr>
<tr>
<td>EB-194</td>
<td>Expanded PVC 3mm Black Panel</td>
</tr>
<tr>
<td>EB-195</td>
<td>Expanded PVC 6mm White Panel</td>
</tr>
<tr>
<td>EB-196</td>
<td>Expanded PVC 3mm White Panel</td>
</tr>
<tr>
<td>EB-197</td>
<td>Polycarb 1/4&quot; Clear Scratch-resistant Panel</td>
</tr>
<tr>
<td>EB-198</td>
<td>Polycarb 3/16&quot; Clear Scratch-resistant Panel</td>
</tr>
<tr>
<td>HDPE-.375</td>
<td>3/8&quot; White HDPE Panel</td>
</tr>
<tr>
<td>HDPE-.5</td>
<td>1/2&quot; White HDPE Panel</td>
</tr>
<tr>
<td>HDPE-.5-BL</td>
<td>1/2&quot; Black HDPE Panel</td>
</tr>
<tr>
<td>DBD-3-SLV</td>
<td>Silver Finish Aluminum Dibond 3mm Panel</td>
</tr>
</tbody>
</table>

Cut to size panels can be furnished on request.

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

For panels with any side larger than 48", order EM-4L cutting service.
1/4 Turn Panel Bracket

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

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

Plastic and rubber washers included

Recommended Hardware:
(1) EF-12-.50 BHCS
(1) EF-1 T-nut or
(1) EF-2 T-nut
Double Panel Bracket

EB-61

- Material: Aluminum
- Finish: Clear Anodize

Dimensions:
- .343 dia thru
- 4.50
- .25 typ.
- 1.50
- .90
- 5/16-18 tap thru (2)
- 1.52

Hardware Included

Material - Aluminum
Finish - Clear Anodize
Material - Aluminum
Finish - Clear Anodize

Hardware Included

Panel Bracket
EB-62

Material - Aluminum
Finish - Clear Anodize

Hardware Included
Panel Mounting Angle

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

Material - Aluminum
Finish - Clear Anodize

Note:
Allows flush mount of panel
Panel Mounting Angle

Clear Anodized

Flat Black Powder Coat

<table>
<thead>
<tr>
<th>Material</th>
<th>EB-80</th>
<th>BLB-80</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>.343 dia. thru</td>
<td>.343 dia. thru</td>
</tr>
<tr>
<td></td>
<td>1/4-20 tap use (1) 11-231</td>
<td>1/4-20 tap use (1) 11-231</td>
</tr>
<tr>
<td></td>
<td>.19</td>
<td>.19</td>
</tr>
</tbody>
</table>

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

Material - Aluminum

Note:
Allows flush mount of panel
Panel Mounting Bracket

**EF-25**

- **Material**: Aluminum
- **Finish**: Clear Anodize

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

**Dimensions**
- .343 dia. thru
- .88
- .50
- 5/16-18 tap
Panel Mounting Bracket

**EF-25B**

Material - Aluminum
Finish - Clear Anodize

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

Flush surface with 1/4" panels

.343 dia thru
1.25
.88
.44
5/16-18 thd

5/16" SLOTS
Corner Joint and Panel Bracket

**EF-26**

Material - Aluminum  
Finish - Clear Anodize

Recommended Hardware

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

5/16-18 tap  
1/4-20 tap (2)
Plastic Panel Retaining Gasket

EB-40

1/4" (.23 actual)

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

Material - Flexible PVC (Black)
Plastic Panel Retaining Gasket

EB-40A Slip Fit
EB-40C Interference Fit

1/4" (.235 actual)

X + .625" = EB-40A
X + .625" = EB-40C

Cut panel to
X + .625" = EB-40A
X + .625" = EB-40C

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

Material - Flexible PVC (Grey)
Plastic Panel Retaining Gasket

EB-40B

3/16" (.17 actual)

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

Material - Flexible PVC (Grey)
Thin Panel Gasket

EB-45

(12) gage to (16) gage panels

Cut panel to X + .75"

Material - Rubber (Black)

<table>
<thead>
<tr>
<th>Material</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 gage</td>
<td>.060</td>
</tr>
<tr>
<td>14 gage</td>
<td>.075</td>
</tr>
<tr>
<td>13 gage</td>
<td>.090</td>
</tr>
<tr>
<td>12 gage</td>
<td>.105</td>
</tr>
</tbody>
</table>
Door Stop (Light Blocking)

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

Material - Aluminum
Finish - Clear Anodize
Rubber Door Seal

EF-60

.21

3/8 in.

Note: Supplied with pull off adhesive cover strip

Sold by the foot

Example: Door Frame Cross-Section

EX-56 Aluminum Extrusion (Door stop)

EF-60 Rubber door seal
### Door Slides (3 Tracks) 5/16" slots

<table>
<thead>
<tr>
<th>Material - Rigid PVC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Upper Door Slide Track (1/4&quot; panels)</strong></td>
</tr>
<tr>
<td>EF-17-3</td>
</tr>
<tr>
<td>EF-18-3</td>
</tr>
<tr>
<td><strong>Lower Door Slide Track (1/4&quot; panels)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cut Panels to X - 1/2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-17-3</td>
</tr>
<tr>
<td>EF-18-3</td>
</tr>
</tbody>
</table>

#### Dimensions:
- **EF-17-3**
  - .06 TYP.
  - .26
  - .63
- **EF-18-3**
  - .38
  - .19
  - .06 TYP.
  - 1.00

#### Notes:
- Material - Rigid PVC
- Sold in 6 ft. lengths
Door Slides (3 Tracks) 5/16" slots
Aluminum Extrusion

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

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

Material - Aluminum
Finish - Clear Anodize

Cut Panels to X - 1/2"
T-Slot Cover

EF-23

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
T-slot Cover or Panel Gasket

EF-45

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

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

Material - Aluminum
Finish - Clear Anodize

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.
Bi-fold Door Pad

**EF-110**

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

---

**Hardware Included**

**Material - DELRIN**

---

**X = width of door opening**

**Y = height of door opening**

$$LX1 = \frac{(X-6.75)}{2} + 0.9375$$

$$LX2 = \frac{(X-6.75)}{2} - 0.9375$$

$$LY = Y - 0.5625$$
Bi-fold Door Pad

EF-111

Material - DELRIN

Hardware Included

\[ X = \text{width of door opening} \]
\[ Y = \text{height of door opening} \]
\[ LX1 = \frac{(X-6.75)}{2} + 0.9375 \]
\[ LX2 = \frac{(X-6.75)}{2} - 0.9375 \]
\[ LY = Y - 0.5625 \]
Bi-fold Door Pad

**EF-115**

use on EX-52 and EX-54

Hardware Included
Material - DELRIN

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

\[
\begin{align*}
LX1 &= \frac{(X-6.75)}{2} + .9375 \\
LX2 &= \frac{(X-6.75)}{2} - .9375 \\
LY &= Y - .5625
\end{align*}
\]
Aluminum Hinge

EF-21

Material - Aluminum
Finish - Clear Anodize

Hardware Included

Fixed pin

.125

1.50

1.75

3.00

3.00

.343 dia. thru (4)

5/16" SLOTS
Plastic Hinge
(Adjustable Friction Type)

**EF-20**

Hardware Included
Material - Plastic

<table>
<thead>
<tr>
<th>Material - Plastic Hinge</th>
<th>2.50</th>
<th>1.88</th>
<th>1.50</th>
<th>.75</th>
</tr>
</thead>
<tbody>
<tr>
<td>.28 DIA. THRU (4) HOLES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tension Adjustment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EF-76**
Heavy Duty Plastic Hinge

Hardware Included
Material - Black Nylon

<table>
<thead>
<tr>
<th>Material - Black Nylon Hinge</th>
<th>3.55</th>
<th>1.97</th>
<th>0.67</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.47</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

5/16" SLOTS

222
9116 Virginia Road Lake in the Hills, IL 60156 Telephone 847/458-0993
FAX 847/458-0934 e-mail: info@frame-world.com web: frame-world.com
Steel Hinge
EF-72

Material - Steel
Finish - Black Powder Coat

Hardware Included

Material - Steel
Finish - Black Powder Coat
Steel Slotted Hinge

**EF-75**

- **Material**: Steel
- **Finish**: Black Powder Coat

**Hardware Included**

- **0 - .25**
- **1.50**
- **.75**
- **1.50**
- **.25**
- **.343 DIA.**
- **(2) holes**
- **(2) slots**

**5/16" SLOTS**

[Diagram showing dimensions and specifications of the Steel Slotted Hinge EF-75]
Steel Lift-Off Hinge

Zinc Plated
Flat Black Powder Coat
Zinc Plated
Flat Black Powder Coat

<table>
<thead>
<tr>
<th>EF-21LH</th>
<th>BLF-21LH</th>
<th>EF-21RH</th>
<th>BLF-21RH</th>
</tr>
</thead>
</table>

Material - Steel

Hardware Included

EF-21LH Left Hand  EF-21RH Right Hand

.343 Dia. Thru (4)
1.50
1.75
3.00
Hidden Steel Hinge (.33" slot size)

EF-70

Drilled and countersunk for 1/4-20 FHCS (4)

Material - Steel
Finish - Black Powder Coat

Hardware Included

5/16" SLOTS
Hidden Lift-Off Hinge

EF-71

Hidden Lift-Off Hinge

Hardware Included

Material - Aluminum
Finish - Clear Anodize
Die Cast Zinc Hinge

EF-73

Hardware Included

Material - Zinc Die Cast
Finish - Black Powder Coat
Die Cast Zinc Locking Hinge

EF-74

Hardware Included

Material - Zinc Die Cast
Finish - Black Powder Coat
Heavy Duty Hinge Assembly

**EB-130** Clear Anodized
**BLB-130** Flat Black Powder Coat

Hardware Included
To specify metric hardware, add -M EB-130-M

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

One Set w/Long & Short Pin Assemblies

<table>
<thead>
<tr>
<th></th>
<th>EB-132</th>
<th>EB-132L</th>
<th>EB-132S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Pin Assembly Only</td>
<td>EB-132</td>
<td>EB-132L</td>
<td>EB-132S</td>
</tr>
<tr>
<td>Short Pin Assembly Only</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

bushing

.250 dia. dowell

.88

.75
drill and c’bore for 5/16-18 shcs typ.

.50
typ.

.75
dia. nylon

flat washer (2)

.38

.250

.88
dia. dowell

1/4

.75
dia. nylon

flat washer (2)
Right Hand Lift-Off Hinge - 5/16" slots

**EB-133** One Set w/Long & Short Pin Assemblies

**EB-133L** Long Pin Assembly Only

**EB-133S** Short Pin Assembly Only

**EB-133L**

**EB-133S**

Hardware Included
To specify metric hardware, add -M

**EB-133-M**
Material - Aluminum
Finish - Clear Anodize

**Note:** Use short and long pin assemblies together as shown to ease lift-off and replacement of doors.
Heavy Duty Transition
5/16 - 1/4 slots Hinge Assembly

Clear Anodized
EB-140
Flat Black Powder Coat
BLB-140

Hardware Included
Material - Aluminum
To specify metric hardware, add -M
EB-140-M
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.

EX-11

EX-1
**Right Hand Transition**

**Lift-Off Hinge 5/16 - 1/4 slots**

<table>
<thead>
<tr>
<th></th>
<th>EB-143</th>
<th>EB-143L</th>
<th>EB-143S</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Set w/Long &amp; Short Pin Assemblies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long Pin Assembly Only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short Pin Assembly Only</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**

---

[Diagram and measurements]
Heavy Duty Wide Hinge Assembly

EB-134

DRILL & C’BORE FOR 5/16 S.H.C.S (TYP)

Hardware Included
Material - Aluminum
Finish - Clear Anodize
Plastic Handle

EF-15

- **Material**: Black Plastic
- **Recommended Hardware**:
  - (2) EF-11-.75 SHCS
  - (2) EF-2 T-nut
- **Part Numbers**:
<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-15A</td>
<td>4.61</td>
<td>1.61</td>
<td>1.06</td>
</tr>
<tr>
<td>EF-15B</td>
<td>5.20</td>
<td>1.77</td>
<td>1.02</td>
</tr>
<tr>
<td>EF-15C</td>
<td>7.05</td>
<td>1.97</td>
<td>1.10</td>
</tr>
</tbody>
</table>
Offset Extrusion Door Handle

**EF-48**

- Material: Zinc Plated Steel
- Material: Anodized Aluminum

Hardware Included

**Dimensions:**
- 8.0
- 1.0
- 1.0
- 1.0
- 1.0
- 1.50
Extruded Door Handle

EF-180

Mounting Hardware Included

Material - Aluminum
Finish - Black Powder Coat
Extruded Door Handle

EF-181

Material - Aluminum
Finish - Black Powder Coat

Mounting Hardware Included

2.50
1.00
1.00
2.00
3.00
4.00

.25 CLEARANCE THRU (2)

5/16" SLOTS
Extruded Door Hand Grip

**EF-182**
Black powder coat

**EF-182-YW**
Yellow powder coat

Mounting Hardware Included

Material - Aluminum
Safety Door Handle

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

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

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

Material - Plastic

Note: Fingers will not pass through
Plastic Guard Handle

**EF-186**

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

Material - Plastic

Hardware Included

Aluminum Handle

**EF-16**

8-32 thd

Material - Aluminum
Finish - Clear Anodize

Hardware Included

Note: 8-32 bolt length determined by panel thickness

Note: 8-32 bolt length determined by panel thickness

Material - Plastic

Hardware Included

Note: 8-32 bolt length determined by panel thickness

Material - Aluminum
Finish - Clear Anodize

Hardware Included

Note: 8-32 bolt length determined by panel thickness

Material - Plastic

Hardware Included

Note: 8-32 bolt length determined by panel thickness

Material - Aluminum
Finish - Clear Anodize

Hardware Included

Note: 8-32 bolt length determined by panel thickness

Material - Plastic

Hardware Included

Note: 8-32 bolt length determined by panel thickness

Material - Aluminum
Finish - Clear Anodize
Deluxe Door Handle

EF-40

EF-40A
Non-Locking

Hardware included

.875 dia mounting hole

EF-40B
Locking

For factory supplied mounting hole, order EF-40H and provide hole location
1/4 turn L Handle

EF-104

EF-104A
Non-Locking

.875 dia mounting hole

EF-104B
Locking

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

Material - Zinc
Handle - Black Polyamide
Chrome Door Handle

EF-41

Material - Steel
Handle Finish - Chrome

EF-41C
Inside Handle

EF-41A
Non-Locking

EF-41B
Locking

For factory supplied mounting holes, order EF-41H and provide hole location

1.50
.75 dia. mounting hole
Adjustable Locking Handle (Male)

EF-32

Handle Material - Plastic

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

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

1/4-20

2.48

5/16-18
Adjustable Locking Handle (Female)

Handle Material - Plastic

tapped for 1/4-20

tapped for 5/16-18

EF-33-1

EF-33-2

EF-33
Door Stop Bracket

EB-35

Prevents door from over-swing

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

Material - Aluminum
Finish - Clear Anodize
Deluxe Dead Bolt Latch

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

Hardware Included

5/16" SLOTS
Deadbolt Latch

EF-171 .375 dia. Bolt

Hardware Included

Use with 5/16" slot extrusions

Material - Zinc Plated Steel
Magnetic Door Latch Assembly

includes 1/4-20 FHCS striker and all hardware
Heavy Duty Magnetic Door Latch Assembly

EF-22HD

Material - Steel
Finish - Zinc Plate and Black Powder Coat

Hardware Included

Our most popular latch.
Mechanical Latch

EF-24

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

Hardware Included

Catch Material - Zinc Plated Brass
Base Material - Aluminum
Mechanical Door Latch 5/16" Slots

EF-78 excludes EX-52 & EX-54

Adjustable Tension

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

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

Hardware Included

Drilled and countersunk for 1/4-20 FHCS
Slam Latch

<table>
<thead>
<tr>
<th>EF-184</th>
<th>Non-Locking</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-184-L</td>
<td>Locking</td>
</tr>
</tbody>
</table>

Material - Aluminum
Finish - Black Powder Coat

Mounting Hardware Included

2.95

.25
Hardware Included

Material - Black Nylon
Bearing Block (Plastic)

EF-34

Bearing Material - DELRIN (white)

Drilled and countersunk for 1/4-20 FHCS (2)

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

Hardware Included
Offset Bearing Block (Plastic)

**EF-35**

Drilled and countersunk for 1/4-20 FHCS (2)

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

Load Capacity = 50 lbs.

Bearing Material - DELRIN (white)
Slider Block Bracket

**EF-36**

**Material** - Aluminum

**Finish** - Clear Anodize

**Recommended Hardware**

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

Note: See part no EB-38 for example

Drilled and Counters for 1/4-20 FHCS (4)

5/16 dia clearance

<table>
<thead>
<tr>
<th>Measurement</th>
<th>( \text{typ.})</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.00</td>
<td>.69</td>
</tr>
<tr>
<td>1.50</td>
<td></td>
</tr>
<tr>
<td>2.88</td>
<td></td>
</tr>
<tr>
<td>1.75</td>
<td></td>
</tr>
</tbody>
</table>

Note: See part no EB-38 for example

Recommended Hardware

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

Material - Aluminum

Finish - Clear Anodize
Plastic Slider

EF-37

Load Capacity = 50 lbs.

Bearing Material - DELRIN (white)
Slider Assembly

<table>
<thead>
<tr>
<th>EF-38</th>
<th>Slider Assembly (as shown)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-38S</td>
<td>Slider Assembly</td>
</tr>
<tr>
<td></td>
<td>(less clamp handle for sliding only)</td>
</tr>
</tbody>
</table>

Recommended Hardware

(2) EF-157-.63
(2) EF-2A T-nut
Blank Bearing Pad UHMW

for 5/16" Slot extrusions

EF-39

Material - UHMW (white)

Standard length is 60" and 120" — sold by the inch.
Material - UHMW
Sold by the inch
Stock length is 60" & 120"
Color is Safety Yellow
Drilled and c’sunk for 1/4-20 FHCS (2)

Hardware Included
Material - UHMW
Color is Safety Yellow
T-slot Roller

ER

Material - DELRIN (white)

Load Capacity 30 lbs.
Hardware Included

5/16" SLOTS

5/16" dia. shoulder bolt

3/8" dia.

Hardened Washer

T-Nut

1.625
DIA.

2.00
DIA.

.375 I.D.
Bronze Bushing Std.

.74

.31
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

X= Door Opening Height
Y = Door Height = X - .91"
Door Roller Block Assembly

**ER-BL**

Hardware Included
Load Capacity 25 lbs.

Roller Material - DELRIN
Block Material - Aluminum (Clear Anodized)
Roller Wheel Bracket Assembly

**EB-221**

- 5/16" SLOTS
- 1/4-20 C'Sink (4)

**EB-221-3**

- 5/16-18 C'Sink (4)
- 2.00
Single Mount Linear Bearing

EB-91

Note: 3-piece design for adjustability

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

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

.343 Dia. Thru (2)
1.50 typ
.75 typ.
3.00
Single Mount Linear Bearing with Locking Handle

EB-91LH

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

Bearing Material - DELRIN
Plate Material - Aluminum (Clear Anodized)
Single Mount Linear Bearing

EB-93

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

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

Recommended Hardware
(4) EF-12-.875 BHCS
(4) EF-55 T-nut
Single Mount Linear Bearing with Locking Handle

**EB-93LH**

**Bearing Material - DELRIN**

**Plate Material - Aluminum (Clear Anodized)**

Recommended Hardware:

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

**Dimensions**

- 2.25
- 2.13
- 1.50
- .13
- .50
- .343 Dia. Thru (2 each side)
- 4.50 .38 typ.
- 1.50 typ.
- .75 typ.
- 3.00

[Frame World Logo]

5/16" SLOTS

275

10/16

9116 Virginia Road  Lake in the Hills, IL 60156  Telephone 847/458-0993

FAX 847/458-0934  e-mail: info@frame-world.com  web: frame-world.com
Double Mount Linear Bearing

**EB-92**

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

**Bearing Material** - DELRIN

**Plate Material** - Aluminum (Clear Anodized)
Double Mount Linear Bearing with Locking Handle
EB-92LH

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

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

5/16" SLOTS

2.25
2.13
1.50
.50
.13

4.50
1.50 typ.
.75 typ.
6.00

.343 Dia. Thru (4 each side)
Single Mount Linear Bearing

EB-94

5/16" SLOTS

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

Recommended Hardware
(4) EF-12-.875 BHCS
(4) EF-55 T-nut
Single Mount Linear Bearing with Locking Handle

EB-94LH

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

Bearing Material - DELRIN
Plate Material - Aluminum (Clear Anodized)
Double Mount Linear Bearing

EB-95

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

Recommended Hardware
(8) EF-12-.875 BHCS
(8) EF-55 T-nut
Double Mount Linear Bearing with Locking Handle

**EB-95LH**

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

**Recommended Hardware**

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

5/16" SLOTS

---

9116 Virginia Road  Lake in the Hills, IL 60156  Telephone 847/458-0993  FAX 847/458-0934  e-mail: info@frame-world.com  web: frame-world.com
Single Shaft Base

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

Cable/Hose pass-thru

Material - Aluminum
Finish - Clear Anodize

For shafts, see page 291.

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

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

with locking handle

with locking 5/16 SHCS

EB-202

EB-203

Material - Aluminum

Finish - Clear Anodize

Recommended Hardware

(6) EF-11-1.75 SHCS

(6) EF-55 T-nut

For shafts, see page 291.

EX-2, EX-67, EX-3, EX-37
Single Shaft Mounting Plate

**EB-204** with locking handle

**EB-205** with locking 5/16 SHCS

---

**Material** - Aluminum

**Finish** - Clear Anodize

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

For shafts, see page 291.

---

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

---
Double Shaft Mounting Plate

EB-206
EB-207

with locking handle
with locking 5/16 SHCS

Material - Aluminum
Finish - Clear Anodize

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

For shafts, see page 291.

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

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

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

Material - Aluminum
Finish - Clear Anodize

For shafts, see page 291.
Cross Clamp

**EB-208**
with locking handle

**EB-209**
with locking 5/16 SHCS

Material - Aluminum
Finish - Clear Anodize

For shafts, see page 291.
Single Shaft Mounting Block

with locking handle [EB-210]
with locking 5/16 SHCS [EB-211]

Material - Aluminum
Finish - Clear Anodize

For shafts, see page 291.
Double Shaft Mounting Block

**EB-212** with locking handle

**EB-213** with locking 5/16 SHCS

Material - Aluminum

Finish - Clear Anodize

For shafts, see page 291.

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

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

2.88

2.88

6.50

2.88

3.50

1.50

1.062

1.001 dia (2)
Single Horizontal Base

with locking handle

with locking 5/16 SHCS

EB-214

EB-215

Material - Aluminum
Finish - Clear Anodize

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

For shafts, see page 291.

EX-2, EX-67, EX-3, EX-37
Single Horizontal Base

**EB-216**
with locking handle

**EB-217**
with locking 5/16 SHCS

For shafts, see page 291.

Material - Aluminum
Finish - Clear Anodize

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

EX-2, EX-67, EX-3, EX-37
EB-218  Anodized Aluminum
Stock Length = 71"

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

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

**EF-150** 5/16" profiles

**EF-151** 1/4" profiles

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

---

Material - Aluminum
Finish - Clear Anodize

---

Note: See page 293 for rollers.
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.
Socket Head Cap Screw

**EF-11**

**Fractional**

EF-11 (5/16-18 thd)

<table>
<thead>
<tr>
<th>L - inch</th>
<th>.5</th>
<th>.63</th>
<th>.75</th>
<th>.875</th>
<th>1.0</th>
<th>1.25</th>
<th>1.5</th>
<th>1.75</th>
<th>2.0</th>
<th>2.5</th>
<th>3.0</th>
<th>3.5</th>
</tr>
</thead>
</table>

**Metric**

EF-11M (m8 x 1.25 thd)

| L - mm | 12 | 16 | 20 | 25 | 30 | 35 | 45 |

Material - Steel  
Finish - Black Oxide Coated

---

**EF-11SS**  
Stainless Steel

<table>
<thead>
<tr>
<th>L-inch</th>
<th>EF-11SS-.5</th>
<th>EF-11SS-.63</th>
<th>EF-11SS-.75</th>
<th>EF-11SS-.875</th>
<th>EF-11SS-1.0</th>
<th>EF-11SS-1.25</th>
<th>EF-11SS-1.5</th>
<th>EF-11SS-1.75</th>
<th>EF-11SS-2.0</th>
<th>EF-11SS-3.0</th>
</tr>
</thead>
</table>

**Metric**

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

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

Material - Stainless Steel
Zinc Plated Cap Screw

**Socket Head EF-11K**

- **Fractional**
  - (5/16" - 18 thd) \( L = \) inch
  - EF-11K-.50
  - EF-11K-.63
  - EF-11K-.75
  - EF-11K-.875
  - EF-11K-1.00
  - EF-11K-1.25
  - EF-11K-1.50

- **Metric**
  - (M8 x 1.25 thd) \( L = \) mm
  - EF-11MK-12
  - EF-11MK-16
  - EF-11MK-20
  - EF-11MK-25
  - EF-11MK-30
  - EF-11MK-35

**Material - Steel**
**Finish - Bright Zinc Plated**

---

**Button Head EF-12K**

- **Fractional**
  - (5/16" - 18 thd) \( L = \) inch
  - EF-12K-.50
  - EF-12K-.63
  - EF-12K-.75
  - EF-12K-.875
  - EF-12K-1.00
  - EF-12K-1.25
  - EF-12K-1.50

- **Metric**
  - (M8 x 1.25 thd) \( L = \) mm
  - EF-12MK-12
  - EF-12MK-16
  - EF-12MK-20
  - EF-12MK-25
  - EF-12MK-30
  - EF-12MK-35

**Material - Steel**
**Finish - Bright Zinc Plated**
Button Head Cap Screw

**EF-12**

**Fractional**
EF-12
(5/16-18 thd)

<table>
<thead>
<tr>
<th>L - inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>.38</td>
</tr>
<tr>
<td>.5</td>
</tr>
<tr>
<td>.63</td>
</tr>
<tr>
<td>.75</td>
</tr>
<tr>
<td>.875</td>
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<tr>
<td>1.0</td>
</tr>
<tr>
<td>1.25</td>
</tr>
<tr>
<td>1.5</td>
</tr>
<tr>
<td>2.0</td>
</tr>
<tr>
<td>2.5</td>
</tr>
</tbody>
</table>

**Metric**
EF-12M
(m8 x 1.25 thd)

<table>
<thead>
<tr>
<th>L - mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
</tr>
<tr>
<td>16</td>
</tr>
<tr>
<td>18</td>
</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>25</td>
</tr>
<tr>
<td>30</td>
</tr>
</tbody>
</table>

Material - Steel
Finish - Black Oxide Coated

**EF-12SS**
Stainless Steel
Button Head Cap Screw

**L-inch**

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

**Metric**
EF-12M-SS
(m8 x 1.25 thd)

EF-12M-SS-12
EF-12M-SS-16
EF-12M-SS-20
EF-12M-SS-25
EF-12M-SS-30

Material - Stainless Steel
**EF-12F (flanged)**

<table>
<thead>
<tr>
<th>L - inch</th>
<th>EF-12F-SS-.5</th>
<th>EF-12F-SS-.63</th>
<th>EF-12F-SS-.75</th>
<th>EF-12F-SS-1.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>.63</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EF-12FM**

<table>
<thead>
<tr>
<th>L - mm</th>
<th>EF-12FM-SS-16</th>
<th>EF-12FM-SS-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Material - Steel**

**Finish - Black Oxide Coated**

---

**EF-12F-SS (flanged)**

<table>
<thead>
<tr>
<th>L - inch</th>
<th>EF-12F-SS-.5</th>
<th>EF-12F-SS-.63</th>
<th>EF-12F-SS-.75</th>
<th>EF-12F-SS-1.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>.63</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EF-12FM-SS**

<table>
<thead>
<tr>
<th>L - mm</th>
<th>EF-12FM-SS-16</th>
<th>EF-12FM-SS-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Flat Head Socket Cap Screws

<table>
<thead>
<tr>
<th>Steel</th>
<th>Stainless Steel</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/16&quot; - 18 thd</td>
<td>1/4&quot; - 20 thd</td>
<td>#10-32 thd</td>
</tr>
<tr>
<td>EF-156</td>
<td>EF-156SS</td>
<td>EF-156-16</td>
</tr>
<tr>
<td>EF-157</td>
<td>EF-157SS</td>
<td>EF-157-16-SS</td>
</tr>
<tr>
<td>EF-158</td>
<td>EF-158SS</td>
<td>EF-158-16-SS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Steel</th>
<th>Stainless Steel</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-156SS</td>
<td>EF-156SS-1.0</td>
<td>EF-156SS-1.0</td>
</tr>
<tr>
<td>EF-157SS</td>
<td>EF-157SS-1.0</td>
<td>EF-157SS-1.0</td>
</tr>
<tr>
<td>EF-158SS</td>
<td>EF-158SS-1.0</td>
<td>EF-158SS-1.0</td>
</tr>
</tbody>
</table>

5/16" SLOTS

9116 Virginia Road Lake in the Hills, IL 60156 Telephone 847/458-0993
FAX 847/458-0934 e-mail: info@frame-world.com web: frame-world.com

EF-156
EF-157
EF-158
Zinc Plated Hex Cap Screw

**EF-155**

**Fractional**  
(5/16" - 18 thd)  
L = inch  
EF-155-.50  
EF-155-.63  
EF-155-.75  
EF-155-.875  
EF-155-1.00  
EF-155-1.25  
EF-155-1.50

**Metric**  
(M8 x 1.25 thd)  
L = mm  
EF-155M-12  
EF-155M-16  
EF-155M-20  
EF-155M-25  
EF-155M-30

---

Material - Steel  
Finish - Bright Zinc Plated

---

Material - Steel  
Finish - Yellow Zinc Plated

---

Turn Lock T-Bolt

**EF-9**

**Fractional**  
5/16-18 thd  
L = inch  
EF-9-.75  
EF-9-1.0  
EF-9-1.25  
EF-9-1.5

**Metric**  
m8 x 1.25 thd  
EF-9M-20  
EF-9M-25

---

Material - Steel  
Finish - Yellow Zinc Plated
T-Bolt

**EF-10**

<table>
<thead>
<tr>
<th>Fractional Zinc Plated Steel 5/16-18 thd</th>
<th>Fractional Stainless Steel 5/16-18 thd</th>
<th>Metric Zinc Plated Steel m8 x 1.25 thd</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-10-.75</td>
<td>EF-10SS-1.0</td>
<td>EF-10M-20</td>
</tr>
<tr>
<td>EF-10-1.0</td>
<td>EF-10SS-1.25</td>
<td>EF-10M-25</td>
</tr>
<tr>
<td>EF-10-1.25</td>
<td>EF-10SS-1.5</td>
<td>EF-10M-35</td>
</tr>
<tr>
<td>EF-10-1.5</td>
<td></td>
<td>EF-10M-45</td>
</tr>
<tr>
<td>EF-10-2.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EF-10-2.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
EF-13

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

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

Material - Steel
Finish - Black Oxide

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

Material - Steel
Finish - Zinc Plated

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

Material - Steel
Finish - Zinc Plated
Pivot T-nut with Rubber Bumper

EF-1

Material - Steel
Finish - Zinc Plated

<table>
<thead>
<tr>
<th>Model</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-1</td>
<td>5/16-18 thd</td>
</tr>
<tr>
<td>EF-1A</td>
<td>1/4-20 thd</td>
</tr>
<tr>
<td>EF-1B</td>
<td>10-32 thd</td>
</tr>
<tr>
<td>EF-1C</td>
<td>m8 x 1.25 thd</td>
</tr>
<tr>
<td>EF-1D</td>
<td>m6 x 1.0 thd</td>
</tr>
<tr>
<td>EF-1E</td>
<td>8-32 thd</td>
</tr>
</tbody>
</table>

Rubber bumper

9/16" SLOTS

5/16" SLOTS
Pivot T-nut with Set Screw

<table>
<thead>
<tr>
<th>Reference</th>
<th>Thread Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-65</td>
<td>5/16-18 thd</td>
</tr>
<tr>
<td>EF-66</td>
<td>1/4-20 thd</td>
</tr>
<tr>
<td>EF-67</td>
<td>10-32 thd</td>
</tr>
<tr>
<td>EF-68</td>
<td>m8 x 1.25 thd</td>
</tr>
<tr>
<td>EF-69</td>
<td>m6 x 1.0 thd</td>
</tr>
</tbody>
</table>

- **Material**: Steel
- **Finish**: Zinc Plated

Material - Steel
Finish - Zinc Plated
### Ball and Spring Pivot T-nut

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EF-91</strong></td>
<td>use with EX-1, EX-2, EX-26, EX-3, and EX-36 only</td>
</tr>
<tr>
<td><strong>EF-92</strong></td>
<td></td>
</tr>
<tr>
<td><strong>EF-93</strong></td>
<td></td>
</tr>
<tr>
<td><strong>EF-94</strong></td>
<td></td>
</tr>
<tr>
<td><strong>EF-95</strong></td>
<td></td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EF-91</strong></td>
<td>5/16-18 thd</td>
</tr>
<tr>
<td><strong>EF-92</strong></td>
<td>1/4-20 thd</td>
</tr>
<tr>
<td><strong>EF-93</strong></td>
<td>10-32 thd</td>
</tr>
<tr>
<td><strong>EF-94</strong></td>
<td>m8 x 1.25 thd</td>
</tr>
<tr>
<td><strong>EF-95</strong></td>
<td>m6 x 1.0 thd</td>
</tr>
</tbody>
</table>

Material - Steel  
Finish - Zinc Plated

### Leaf Spring Pivot T-nut

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EF-5</strong></td>
<td>5/16-18 thd</td>
</tr>
<tr>
<td><strong>EF-5A</strong></td>
<td>1/4-20 thd</td>
</tr>
<tr>
<td><strong>EF-5B</strong></td>
<td>10-32 thd</td>
</tr>
<tr>
<td><strong>EF-5C</strong></td>
<td>m8 x 1.25 thd</td>
</tr>
<tr>
<td><strong>EF-5E</strong></td>
<td>m6 x 1.0 thd</td>
</tr>
<tr>
<td><strong>EF-5F</strong></td>
<td>m5 x 0.8 thd</td>
</tr>
</tbody>
</table>
Economy T-nut

EF-2

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

Material - Steel
Finish - Zinc Plated
Stainless Steel Economy T-nut

**EF-2ST**

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

**Stainless Steel**
Economy T-nut with Set Screw

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

- Material: Steel
- Finish: Zinc Plated

Set screw holds T-nut in place

Set screw (included)
## Long Economy T-nut

### EF-4

<table>
<thead>
<tr>
<th>Code</th>
<th>Threads</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-4</td>
<td>5/16-18 thd</td>
<td></td>
</tr>
<tr>
<td>EF-4-B</td>
<td>5/16-18 thd</td>
<td>black zinc plated</td>
</tr>
<tr>
<td>EF-4A</td>
<td>1/4-20 thd</td>
<td></td>
</tr>
<tr>
<td>EF-4C</td>
<td>m8 x 1.25 thd</td>
<td></td>
</tr>
<tr>
<td>EF-4C-B</td>
<td>m8 x 1.25 thd</td>
<td>black zinc plated</td>
</tr>
<tr>
<td>EF-4D</td>
<td>m6 x 1.0 thd</td>
<td></td>
</tr>
<tr>
<td>11-217</td>
<td>8-32 thd</td>
<td></td>
</tr>
<tr>
<td>11-219</td>
<td>6-32 thd</td>
<td></td>
</tr>
</tbody>
</table>

**Material - Steel**

**Finish - Zinc Plated**
Economy T-nut

**EF-2D**

- Material: Steel
- Finish: Zinc Plated
- Description: 5/16-18 thd

**EF-2D-B**

- Material: Steel
- Finish: Black Zinc Plated
- Description: 5/16-18 thd

**EF-2D-M8**

- Material: Steel
- Finish: Zinc Plated
- Description: M8 x 1.25 thd

**EF-2TRP**

- Material: Steel
- Finish: Zinc Plated
- Description: Triple economy T-nut, 5/16-18 thd

Material - Steel
Finish - Zinc Plated
Heavy Duty T-nut

<table>
<thead>
<tr>
<th></th>
<th>.33 Slot Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-55</td>
<td>EF-56</td>
</tr>
<tr>
<td>.69</td>
<td>.63</td>
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</tbody>
</table>

5/16" SLOTS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5/16-18 thd</td>
<td>1/4-20 thd</td>
</tr>
<tr>
<td>10-32 thd</td>
<td>m8 x 1.25 thd</td>
</tr>
<tr>
<td>m6 x 1.0 thd</td>
<td>8-32 thd</td>
</tr>
<tr>
<td>6-32 thd</td>
<td>5/16-18 thd</td>
</tr>
<tr>
<td>black zinc plated</td>
<td></td>
</tr>
</tbody>
</table>

Material - Steel
Finish - Zinc Plated

Note: Provides increased thread engagement
Continuous T-nut

.33 Slot Width

EF-53

5/16-18 thd (8)

Material - Steel
Finish - Zinc Plated

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

Special lengths can be provided on request
Blank Continuous T-nut

**EF-53B**

**Standard Lengths**
6", 12" 24"

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

**Material - Steel**
**Finish - Zinc Plated**

Special Lengths on Request
Use with 5/16" Slot Extrusions Only

Material - Steel
Finish - Zinc Plated
Push Lock Fastener

EF-14

Note: Hole can be threaded for permanent installation

Material - Nylon
Plastic End Plates

EF-19

EF-19-A
use with EX-1, EX-6, EX-61, EX-63, EX-64, and EX-65

EF-19-B
use with EX-2, EX-67 and EX-68

EF-19-C
use with EX-3, and EX-36

EF-19-D
use with EX-7

EF-19-E
use with EX-52, and 11-251

EF-19-F
use with EX-8

EF-19-G
use with EX-82

EF-19-H
use with EX-81

EF-19-I
use with EX-57

EF-19-J
use with EX-26

Push Lock Fasteners included with ALL end plates

Material - Black ABS Plastic

Note: for metal covers, consult the factory.
Pneumatic Manifold
End Plate and Gasket

PM-2

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

Cork Gasket Included

EX-2, EX-67

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

3/8 NPT

PM-2B

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

Cork Gasket Included

EX-2, EX-67

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

Recommended Hardware
(2) EF-11-1.0

Note: tap extrusion holes
5/16-18 thread

Plate Material - Aluminum
Finish - Clear Anodize
PM-3

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

Cork Gasket Included

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

EX-3, EX-37

PM-3B

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

Cork Gasket Included

Recommended Hardware
(4) EF-11-1.0

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

EX-3, EX-37

Plate Material - Aluminum
Finish - Clear Anodize
Pressure Manifold Plate

PM-31
PM-32

3.00
1.50
.75
.75

1/8 NPT PM-31
1/4 NPT PM-32

includes O-ring seal

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

Material - Aluminum
Finish - Clear Anodize
5/16" wide slot

Hanger Clip

Material
Zinc Plated Steel
Tool Hanger

ETH

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

Max. load 40 lbs

Material - Steel
Finish - Zinc Plated
Tool Hanger

**EF-146**
without Snap Hook

**EF-146A**
with Snap Hook

Maximum Load 25 lbs

Material
- Hanger - Rigid Nylon
- Hook - Zinc Plated Steel

5/16" SLOTS
Extrusion Molding

EF-28 use on all 5/16" slot extrusions with 1.5" sides

Material - Rigid PVC
Color - Black

Standard length 72"

Can be used as hand-rail covers
Clamp Bars for EX-1, EX-2, EX-3, EX-6

**EF-30**

<table>
<thead>
<tr>
<th>Material</th>
<th>Aluminum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finish</td>
<td>Clear Anodize</td>
</tr>
</tbody>
</table>

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

**Dimensions:**

- **EF-30A**
  - CB for 5/16: .38
  - .625
  - .88
  - 1.38

- **EF-30B**
  - CB for 5/16:
    - (2)
    - .69
    - 1.50
    - 2.88

- **EF-30C**
  - CB for 5/16:
    - .75
    - 3.0
    - 4.50

5/16" SLOTS
Safety Switch Bracket

EB-110

Material - Aluminum
Finish - Clear Anodize

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

Door frame
Actuator key bolted to door
Safety switch (not provided)
Stationary door post
EF-1/EF-2
EF-12.5 (2)
EB-110
Cable Binding Block

EF-103

Material - Black Nylon

5/16" SLOTS

.43

.79 sq

5/16 slot
## EF-42 Single Tubing Clamp

<table>
<thead>
<tr>
<th>Tubing Size</th>
<th>X</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-42A 3/8&quot;</td>
<td>1.06</td>
<td>.56</td>
</tr>
<tr>
<td>EF-42B 1/2&quot;</td>
<td>1.38</td>
<td>.88</td>
</tr>
<tr>
<td>EF-42C 3/4&quot;</td>
<td>1.63</td>
<td>1.19</td>
</tr>
<tr>
<td>EF-42D 1&quot;</td>
<td>1.69</td>
<td>1.19</td>
</tr>
</tbody>
</table>

Material - Polypropylene

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
Double Tubing Clamp

**EF-43**

<table>
<thead>
<tr>
<th>Tubing Size</th>
<th>X</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-43A</td>
<td>1.66</td>
<td>.56</td>
</tr>
<tr>
<td>EF-43B</td>
<td>2.18</td>
<td>.88</td>
</tr>
<tr>
<td>EF-43C</td>
<td>2.81</td>
<td>1.19</td>
</tr>
<tr>
<td>EF-43D</td>
<td>2.88</td>
<td>1.19</td>
</tr>
</tbody>
</table>

Clearance for 1/4-20 SHCS

Hardware Required:
- **EF-43A** (1) 11-224 SHCS, (1) EF-1A T-nut
- **EF-43B** (1) 11-225 SHCS, (1) EF-1A T-nut
- **EF-43C** (1) 11-226 SHCS, (1) EF-1A T-nut
- **EF-43D** (1) 11-226 SHCS, (1) EF-1A T-nut

Material - Polypropylene
Drill Fixture

EF-80
EF-81

Hardware Included

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

OSHA, ANSI, NFPA, RIA, and the CE have all developed comprehensive standards and requirements for safety. These standards are complex, but with a proper risk assessment, a machine or process can be guarded and integrated with a safety related control system. A safety related control system (often abbreviated to SRCS) is the part of the machine control system that prevents a hazardous condition from occurring. It can either be a separate dedicated system or it may be integrated with the normal machine control system.
Its complexity will vary from a typical simple system, such as a guard door interlock switch and emergency stop switch connected in series to the control coil of power contactor, to a compound system comprising both simple and complex devices communicating through software and hardware (such as PLC’s, safety relays, ASI-bus, etc.).

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

FRAME-WORLD offers safety switches, both contact & non-contact, safety interlocks, and other safety accessories that seamlessly integrate with the FRAME-WORLD product line.
The NM12VZA-M safety switch has a long plastic housing, metal switch funnel, 2 normally closed & 1 normally open switch contacts and 3 M16 x 1.5 cable entry locations.

Recommended Hardware w 5/16" slot extrusion
(2) 11-238 (1/4-20 x 1-1/4 BHCS)
(2) 11-232 (1/4-20 x 5/8 BHCS)
(4) EF-2A (1/4-20 T-nut)
Safety Switch w Actuator

NM-VZA-HA

Vertical Switch Orientation with Door Header

Horizontal Switch Orientation mounted on EX-11 extrusion.

Recommended Hardware w 1/4" slot extrusion
(2) 11-234 (1/4-20 x 1 BHCS)
(2) 11-231 (1/4-20 x 1/2 BHCS)
(4) 11-210 (1/4-20 T-nut)
Magnetic Non-Contact Switch (Small) CMS-B1

Hardware for mounting on 5/16" slot extrusion included

C'more for 8-32 SHCS

Hinged Door

Sliding Door

9116 Virginia Road  Lake in the Hills, IL 60156  Telephone 847/458-0993
FAX 847/458-0934  e-mail: info@frame-world.com  web: frame-world.com
Magnetic Non-Contact Switch (Small)

CMS-B2

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

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

Evaluation Unit

CMS-E-AR

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

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

Please visit FRAME-WORLD.com for more technical information and specifications.
1/4" Wide Slot Profiles

EX-11
1" x 1"

EX-12
1" x 2"

EX-13
1" x 3"

EX-22
2" x 2"

EX-24
2" x 4"

BLACK-Series

BLX-11
1" x 1"

BLX-12
1" x 2"

BLX-22
2" x 2"
1/4" Wide Slot Profiles

SMOOTH-Series

EX-70
1" x 1"

EX-71
1" x 1"

EX-72
1" x 1"

EX-73
1" x 1"

EX-14
1" x 1"

EX-23
1.21" x 1.21"

EX-28
.5" x 2"

EX-21
1.19" x 1.38"
1/4" Wide Slot Profiles

**Clear Anodized**  
**Black Anodized**

**EX-11**  
**BLX-11**

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

**Section Properties:**
- Moment of Inertia in$^4$ .049
- Section modulus in$^3$ .097

**EX-12**  
**BLX-12**

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

**Section Properties:**
- Moment of Inertia in$^4$ .316
- Section modulus in$^3$ .316 .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", 192.63" Lengths standard.

**Section Properties:**

- Moment of Inertia in^4: 1.376
- Section modulus in^3: 0.917

**EX-22 BLX-22**

- Material = 6105-T5 Aluminum
- Est. Area = 0.451 Sq. In.
- Weight/ft = 1.468 lbs.
- 96", 192.63" Lengths standard.

**Section Properties:**

- Moment of Inertia in^4: 0.49
- Section modulus in^3: 0.097

---

0.09 typ. 0.50 typ. 0.27 typ. 0.50
1.00 typ. 1.00 1.00 3.00

---

0.201 dia (3) (1/4" dia tap size)

---

0.09 typ. 0.50
1.00
1.00
2.00
c. 0.50
c. 26 typ.

---

0.201 dia (4) (1/4" dia tap size)
**1/4" Wide Slot Profiles**

**EX-24**

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

**Section Properties:**
- Moment of Inertia in⁴: 3.634
- Section modulus in³: 1.078

---

**SMOOTH-Series**

**EX-14**

1/4" SLOTS

- **Finish =** Clear anodized
- **Material =** 6105-T5 Aluminum
- **Est. Area =** .438 Sq. In.

**Section Properties:**
- Moment of Inertia in⁴: .0368
- Section modulus in³: .0675

- **Weight/ft =** .515 lbs.
- **96", 192.63" Lengths standard.**
1/4" Wide Slot Profiles

EX-70

Finish = Clear anodized
Material = 6105-T5 Aluminum

Section Properties:
- Moment of Inertia in$^4$: 0.057
- Section modulus in$^3$: 0.114

Weight/ft = .576 lbs.
96", 192.63" Lengths standard.

EX-71

Finish = Clear anodized
Material = 6105-T5 Aluminum

Section Properties:
- Moment of Inertia in$^4$: 0.057
- Section modulus in$^3$: 0.114

Weight/ft = .550 lbs.
96", 192.63" Lengths standard.
1/4" Wide Slot Profiles

SMOOTH-Series

EX-72

- Finish = Clear anodized
- Material = 6105-T5 Aluminum

Section Properties:
- Moment of Inertia \( \text{in}^4 \) = .051
- Section modulus \( \text{in}^3 \) = .098

- Weight/ft = .546 lbs.
- 96", 192.63" Lengths standard.

SMOOTH-Series

EX-73

- Finish = Clear anodized
- Material = 6105-T5 Aluminum

Section Properties:
- Moment of Inertia \( \text{in}^4 \) = .051 .046
- Section modulus \( \text{in}^3 \) = .099 .092

- Weight/ft = .523 lbs.
- 96", 192.63" Lengths standard.
1/4" Wide Slot Profiles

**EX-23**

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .52 Sq. In.

**Section Properties:**
- Moment of Inertia in^4: 0.06
- Section modulus in^3: 0.09

- Weight/ft = .61 lbs.
- 96", 192.63" Lengths standard.

**EX-28**

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .58 Sq. In.

**Section Properties:**
- Moment of Inertia in^4: 0.23
- Section modulus in^3: 0.23

- Weight/ft = .67 lbs.
- 96", 192.63" Lengths standard.
• Finish = Clear anodized
• Material = 6105-T5 Aluminum
• Est. Area = .456 Sq. In.

• Weight/ft = .544 lbs.
• 96", 192.63" Lengths standard.

**Section Properties:**

<table>
<thead>
<tr>
<th>Moment of Inertia in^4</th>
<th>.058</th>
<th>.056</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in^3</td>
<td>.084</td>
<td>.082</td>
</tr>
</tbody>
</table>
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Corner Angle Brackets

Section F.2
Gusseted Corner Angle Brackets
Section F.3
Steel Corner Angle Brackets

Section F.4
Internal & Adjustable Corner Brackets
Section F.6
Floor Mounts, Casters and Adjustable Feet
Section F.7
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Section E.10

Screws, Nuts & Fasteners

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

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

Any deviations are specified.

**Recommended torque for fasteners is 12-17 ft lbs.**
## Corner Angle

### 11-1

**Clear Anodized**

### 11-BLK-1

**Flat Black Powder Coat**

---

### Recommended Hardware

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

---

**Material - Aluminum**
Corner Angle

Clear Anodized
Flat Black Powder Coat

11-2
11-BLK-2

Material - Aluminum

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

11-3
11-BLK-3

Clear Anodized
Flat Black Powder Coat

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

Material - Aluminum
Corner Angle

11-4

Material - Aluminum
Finish - Clear Anodize

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

11-6
11-BLK-6

Clear Anodized
Flat Black Powder Coat

.19

.281 Dia.
Thru (8)

2.00

1.00

1.00 typ.

2.00

2.00

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

Material - Aluminum
Corner Angle

11-80

Material - Aluminum
Finish - Clear Anodize

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

Material - Aluminum
Finish - Clear Anodize

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

Frame World
Corner Angle

Material - Aluminum
Finish - Clear Anodize

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

Material - Aluminum
Finish - Clear Anodize

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

Material - Aluminum
Finish - Clear Anodize

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

**11-81**

-.281 dia. thru (4)

1.00

2.50

.75

1.00

.75

.88

2.50

Material - Aluminum

Finish - Clear Anodize

Recommended Hardware

(4) 11-231 BHCS

(4) 11-210 T-nut
Corner Angle

Material - Aluminum
Finish - Clear Anodize

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

11-19

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

Material - Aluminum
Finish - Clear Anodize
Corner Angle

Material - Aluminum
Finish - Clear Anodize

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

Material - Aluminum
Finish - Clear Anodize

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

11-53

.33 wide slot to .27 wide slot

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

Material - Aluminum
Finish - Clear Anodize
Transition Corner Angle

Material - Aluminum
Finish - Clear Anodize

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

1/4" SLOTS
Transition Corner Angle

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

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

Material - Aluminum
Finish - Clear Anodize
Corner Gusset

Clear Anodized
Flat Black Powder Coat

11-160
11-BLK-160

Material - Aluminum

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

11-161 Clear Anodized
11-BLK-161 Flat Black Powder Coat

Material - Aluminum

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

Material - Aluminum
Finish - Clear Anodize

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

.281 dia thru & c bore (6)
Corner Gusset

11-163

.281 dia thru & c bore (8)

1.00

.50

1.00

1.00

.50

1.00

4.00

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

Material - Aluminum
Finish - Clear Anodize
Corner Gusset

Clear Anodized

Flat Black Powder Coat

Material - Aluminum

Recommended Hardware

(4) 11-231 BHCS
(4) 11-210 T-nut
Corner Gusset

11-171
11-BLK-171

Clear Anodized
Flat Black Powder Coat

Material - Aluminum
Finish - Clear Anodize

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

Material - Aluminum
Finish - Clear Anodize

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

11-173

Material - Aluminum
Finish - Clear Anodize

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

.281 dia. thru & c bore (16)

1.00
1.00
.50
.50
2.00
2.00
1.00 typ.
4.00

1/4" SLOTS

378
Corner Gusset

Material - Aluminum
Finish - Clear Anodize

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

Material - Aluminum
Finish - Clear Anodize
Corner Gusset

11-34

Material - Aluminum
Finish - Clear Anodize

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

11-103
11-104

**Material** - Aluminum
**Finish** - Clear Anodize

**Recommended Hardware**

**11-103**
1. (1) 11-222 SHCS
2. (1) 11-223 SHCS
3. (1) 11-210 T-nut

**11-104**
1. (2) 11-222 SHCS
2. (2) 11-223 SHCS
3. (2) 11-210 T-nut

**Drilled and c'bore for 11-222 SHCS**
**Drilled and c'bore for 11-223 SHCS**
Extrusion Gusset

<table>
<thead>
<tr>
<th>11-7</th>
<th>Clear Anodized</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-BLK-7</td>
<td>Black Anodized</td>
</tr>
</tbody>
</table>

Other Standard Lengths:
- 11-7-12 12"
- 11-7-18 18"

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

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

Hardware included
- with stainless hardware 11-7-SS
- with metric hardware 11-7-M
- with stainless metric hardware 11-7-SSM
Material - Aluminum (EX-70)
Extrusion Gusset

11-12 Clear Anodized

Other Standard Lengths:
11-12-12 12"

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

Hardware included
- with stainless hardware
11-12-SS
- with metric hardware
11-12-M
- with stainless metric hardware
11-12-SSM

Material - Aluminum (EX-12)
Double Steel Corner Bracket

Material - Steel
Finish - Zinc Plating

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

11-60

Material - Steel
Finish - Black Powder Coat

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

Material - Steel
Finish - Black Powder Coat

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

Material - Steel
Finish - Black Powder Coat
Welded Steel Angle Bracket

11-61 Left Hand
11-62 Right Hand

Material - Steel
Finish - Black Powder Coat

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

Material - Steel
Finish - Black Powder Coat

Recommended Hardware
(8) 11-230 BHCS
(8) 11-210 T-nut
Welded Steel Angle Bracket

Material - Steel
Finish - Black Powder Coat

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

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

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

<table>
<thead>
<tr>
<th>11-248</th>
<th>11-248M</th>
</tr>
</thead>
<tbody>
<tr>
<td>with Metric Hardware</td>
<td>with Metric Hardware</td>
</tr>
</tbody>
</table>

11-248  x=1.0
11-249  x=2.0

Hardware Included

0.562 dia. x 0.445 deep (2) pieces

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

with metric Hardware

Hardware Included

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-262</td>
<td>Zinc Plated Steel</td>
</tr>
<tr>
<td>11-262SS</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

- **.25 dia. access hole**
- Requires (1) 11-233 BHCS

### Universal Panel Connector

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-267</td>
<td>Zinc Plated Steel</td>
</tr>
<tr>
<td>11-267SS</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

- **.25 dia. access hole**
- Requires (1) 11-233 BHCS
- No panel trimming required
Universal Connector

11-268

Material - Steel
Finish - Zinc Plated

Recommended Hardware
(2) 11-233 BHCS

.25 dia. access hole (2)
Universal Connector

11-269 use with EX-70, EX-71, EX-72 and EX-73

Hole plug included

.31 dia. access hole

No panel trimming required.

Recommended Hardware
(1) 11-233 BHCS

Material - Steel
Finish - Zinc Plated
3-way Castle Corner

Material - Aluminum
Finish - Clear Anodize

Hole Plugs Included
Recommended Hardware
(3) 11-233 BHCS

Use with EX-11
Hardware Included
Material - Aluminum
Finish - Clear Anodize
Hardware Included
Material - Aluminum
Finish - Clear Anodize
Hardware Included
Material - Aluminum
Finish - Clear Anodize
Adjustable Corner Post Arm

Material - Aluminum
Finish - Clear Anodize

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

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

1/4" SLOTS
Adjustable Corner Post

11-10

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

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

Material - Aluminum
Finish - Clear Anodize
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
Pivoting Post Arm with Bushing

11-105 use with 11-108 or 11-109

For shoulder bolt, order (1) 11-204

Recommended Hardware
(2) 11-210 T-nut
(2) 11-231 BHCS
(1) 11-204 Shoulder Bolt

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

Material - Aluminum
Finish - Clear Anodize
Adjustable Post Angle

11-106

Material - Aluminum
Finish - Clear Anodize

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

Assembled
(2) 11-106
(1) 11-10
Pivoting Post Angle with Bushing

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

For shoulder bolt, order (1) 11-204

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

Material - Aluminum
Finish - Clear Anodize
Pivoting Corner Post

use with 11-105 or 11-107

11-108

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

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

Material - Aluminum
Finish - Clear Anodize
Pivoting Corner Post

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

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

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

Material - Aluminum
Finish - Clear Anodize
Pivot Joint with Locking Handle

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

Recommended Hardware
(1) 11-231 BHCS
(1) 11-205 T-nut
(1) 11-232 BHCS
Joining Plate

<table>
<thead>
<tr>
<th>11-38</th>
<th>Clear Anodized</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-BLK-38</td>
<td>Flat Black Powder Coat</td>
</tr>
<tr>
<td>11-38-S</td>
<td>1 Slotted Hole</td>
</tr>
</tbody>
</table>

Recommended Hardware

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

Material - Aluminum
Joining Plate

Clear Anodized
Flat Black Powder Coat

11-23
11-BLK-23

Material - Aluminum

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

1/4" SLOTS
Joining Plate

11-22

Material - Aluminum
Finish - Clear Anodize

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

Clear Anodized
Flat Black Powder Coat

11-39
11-BLK-39

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

Material - Aluminum
Joining Plate

11-28

Material - Aluminum
Finish - Clear Anodize

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

.281 dia. thru (6)
.19
2.00 typ.
1.00 typ.
.50 typ.
3.00
Joining Plate

Material - Aluminum
Finish - Clear Anodize

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

Dimensions:
- .281 dia. thru (8)
- .19
- 2.00
- 1.00 typ.
- .50 typ.
- 4.00
Joining Plate

11-41

Material - Aluminum
Finish - Clear Anodize

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

.281 dia. thru (4)

1.00 typ.

.50 typ.

2.00

.19

3.00

1.00
### Joining Plate

**Clear Anodized**

**Flat Black Powder Coat**

<table>
<thead>
<tr>
<th>11-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-BLK-20</td>
</tr>
</tbody>
</table>

**Recommended Hardware**

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

**Material - Aluminum**
Joining Plate

<table>
<thead>
<tr>
<th>11-42</th>
<th>Clear Anodized</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-BLK-42</td>
<td>Flat Black Powder Coat</td>
</tr>
</tbody>
</table>

Material - Aluminum

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

**Material - Aluminum**
**Finish - Clear Anodize**

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

Material - Aluminum
Finish - Clear Anodize

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

Material - Aluminum
Finish - Clear Anodize
Joining Plate

Material - Aluminum
Finish - Clear Anodize

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

11-43

Material - Aluminum
Finish - Clear Anodize

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

Material - Aluminum
Finish - Clear Anodize

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

1/4" SLOTS
Joining Plate

11-51

Material - Aluminum
Finish - Clear Anodize

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
Leveling Plate

Material - Aluminum
Finish - Clear Anodize

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

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

Recommended Hardware
(2) 11-223 SHCS

1/4" SLOTS
Leveling Anchor Plate

**11-48**

**Material** - Aluminum

**Finish** - Clear Anodize

**Recommended Hardware**

(2) 11-223 SHCS

**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
Leveling Plate

11-46

Material - Aluminum
Finish - Clear Anodize

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

Recommended Hardware
(4) 11-223 SHCS

Material - Aluminum
Finish - Clear Anodize
Leveling Anchor Plate

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

Recommended Hardware
(4) 11-223 SHCS
Leveling Anchor Plate

Material - Aluminum
Finish - Clear Anodize

Recommended Hardware
(1) 11-223 SHCS

2.50
2.00
.50
.50
.50
.281 thru (c'bored from the bottom)
.56 thru
.50
1.00

1/4" SLOTS
Leveling Plate

Material - Aluminum
Finish - Clear Anodize

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

11-49A 3/8-16 UNC tap thru
11-49B 1/2-13 UNC tap thru

Drilled & C'bored for 1/4-20 SHCS (3) pcs
2.00 square

1/4" SLOTS
Threaded Stem Caster

EC-S1
EC-S2
EC-S3

EX-12

1 1/4" SLOTS

11-45A or 11-45B

1.25"

D

H

Note: Wheel material is hard plastic

<table>
<thead>
<tr>
<th>Part no.</th>
<th>D</th>
<th>H</th>
<th>Stem</th>
<th>Brake</th>
<th>Max. Load</th>
<th>Wheel Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC-S1</td>
<td>2</td>
<td>2 7/8</td>
<td>3/8-16 x 1 1/4</td>
<td>Yes</td>
<td>125 lbs</td>
<td>1.00</td>
</tr>
<tr>
<td>EC-S2</td>
<td>3</td>
<td>3 3/4</td>
<td>3/8-16 x 1 1/4</td>
<td>Yes</td>
<td>250 lbs</td>
<td>1.25</td>
</tr>
<tr>
<td>EC-S3</td>
<td>4</td>
<td>5</td>
<td>1/2-13 x 1 1/2</td>
<td>Yes</td>
<td>300 lbs</td>
<td>1.25</td>
</tr>
</tbody>
</table>
Swivel Plate Caster w/brake

EX-22 uses caster plate 11-50

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

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

Note: Wheel material is hard plastic

<table>
<thead>
<tr>
<th>Part no.</th>
<th>D</th>
<th>H</th>
<th>Brake</th>
<th>Max. Load</th>
<th>Wheel Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-110</td>
<td>3&quot;</td>
<td>4.13</td>
<td>Yes</td>
<td>250 lbs</td>
<td>1.25</td>
</tr>
<tr>
<td>11-111</td>
<td>4&quot;</td>
<td>5.00</td>
<td>Yes</td>
<td>300 lbs</td>
<td>1.25</td>
</tr>
<tr>
<td>11-112</td>
<td>5&quot;</td>
<td>6.00</td>
<td>Yes</td>
<td>325 lbs</td>
<td>1.25</td>
</tr>
</tbody>
</table>
Fixed Plate Caster

11-120
11-121
11-122

EX-22 uses caster plate 11-50

11-50

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

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

Note: Wheel material is hard plastic

<table>
<thead>
<tr>
<th>Part no.</th>
<th>D</th>
<th>H</th>
<th>Brake</th>
<th>Max. Load</th>
<th>Wheel Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-120</td>
<td>3&quot;</td>
<td>4.13</td>
<td>No</td>
<td>250 lbs</td>
<td>1.25</td>
</tr>
<tr>
<td>11-121</td>
<td>4&quot;</td>
<td>5.00</td>
<td>No</td>
<td>300 lbs</td>
<td>1.25</td>
</tr>
<tr>
<td>11-122</td>
<td>5&quot;</td>
<td>6.00</td>
<td>No</td>
<td>325 lbs</td>
<td>1.25</td>
</tr>
</tbody>
</table>
Caster Plate

11-50

1/4" SLOTS

11-50

Material - Aluminum
Finish - Clear Anodize

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

For Casters, See Pages 433 & 434
Caster Mounting Plate

Material - Aluminum
Finish - Clear Anodize

Recommended Hardware:
(4) 11-221 SHCS
(4) 11-210 T-nut
Threaded Stem Caster Bracket (Steel)

11-270

Material - Steel
Finish - Black Powder Coat

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

EC-S1
EC-S2

1/4" SLOTS
Adjustable Legs

11-35
11-36

Tap for 1/4-20
EX-11

1.50
.50
1.00 DIA.

Load = 100 lbs

Delrin Pad

Material - Steel

11-35

11-36

Tap for 1/4-20
EX-11

1.25
.56 dia.

Load = 150 lbs

1/4-20 thd

11-52 Deluxe Leg

1.25
.75
1.00 DIA.

Load = 2000 lbs

1/4" SLOTS

DELRIN Pad

Load = 100 lbs

Load = 150 lbs

Material - Steel

Load = 2000 lbs
Steel Flanged Foot

11-70

Material - Steel
Finish - Black Powder Coat

Recommended Hardware
(2) 11-223 SHCS

use with EX-11

.56 dia. thru (4)

1/4-20 tap (2)

.19

1.50

.50

1.00

4.00

3.50

4.50

3.50

4.50
Steel Flanged Foot

Material - Steel
Finish - Black Powder Coat

Recommended Hardware
(2) 11-223 SHCS
Steel Flanged Foot

Material - Steel
Finish - Black Powder Coat

Recommended Hardware
(4) 11-223 SHCS

Use with EX-22

Material - Steel
Finish - Black Powder Coat

Recommended Hardware
(4) 11-223 SHCS

Use with EX-22
Economy Aluminum Floor Mount

11-73

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
Wire Mesh Bracket (Steel)

Material - Steel
Finish - Black Powder Coat
Wire Mesh Retaining Strip (Rubber)

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

Note: Provides snug fit

Cut wire mesh to X + .38"
Door Slide (3 track)

<table>
<thead>
<tr>
<th>11-32</th>
<th>Upper Door Slide (3 track)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-33</td>
<td>Lower Door Slide (3 track)</td>
</tr>
</tbody>
</table>

Sold in 6 foot lengths

**Material - Rigid PVC**

**Cut Panels to X - 1/2"**

Sold in 6 foot lengths

**Material - Rigid PVC**
T-Slot Cover

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-244</td>
<td>Safety Orange</td>
</tr>
<tr>
<td>11-245</td>
<td>Gray</td>
</tr>
<tr>
<td>11-246</td>
<td>Black</td>
</tr>
<tr>
<td>11-247</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

Sold in 6 ft. lengths

Material - Rigid PVC
Plastic Panel Retaining Gasket

Note: Install panel, then gasket

Cut panel to X + .50"

Material - Black Flexible PVC
Plastic Panel Retaining Gasket

3/16" for .170 thick panels  11-298
1/8" for .125 thick panels  11-299

11-298 for .170 thick panels
11-299 for .125 thick panels

Material: Flexible Vinyl (Gray)

Cut panel to $X + .50"$
Thin Panel Gasket

Cut panel to $X + .50''$

<table>
<thead>
<tr>
<th>Material</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 gage</td>
<td>.060</td>
</tr>
<tr>
<td>14 gage</td>
<td>.075</td>
</tr>
<tr>
<td>13 gage</td>
<td>.090</td>
</tr>
<tr>
<td>12 gage</td>
<td>.105</td>
</tr>
</tbody>
</table>

Material - Rubber (Black)
Panel Mounting Bracket

11-260

Clearance for 1/4-20 x 1.0 SHCS

.75

.75

1/4-20 thd

.75

.38

Material - Aluminum

Finish - Clear Anodize

Requires

(1) 11-224 SHCS

(1) 11-210 T-nut

(1) 11-231 BHCS
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

Material - Aluminum
Finish - Clear Anodized
Internal Corner Bracket

Material - Steel
Finish - Zinc Plated
Bi-fold Door Pad

11-310

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

Hardware Included

Pad material is DELRIN
Aluminum Hinge

Material - Aluminum
Finish - Clear Anodize

Hardware Included

Fixed Pin

.281 Dia. Thru (4)

1/4" SLOTS
Steel Hinge

11-287

Hardware Included

Material Steel
Finish Black Powder Coat
Hidden Steel Hinge

Material - Steel
Finish - Black Powder Coat

Drilled and countersunk for 10-32 FHCS

Hardware Included
Steel Slotted Hinge

11-279

Hardware Included

Material - Steel
Finish - Black Powder Coat
Steel Lift-Off Hinge

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

Hardware Included

Material - Steel
Finish - Zinc Plated
Plastic Hinge

Material - Plastic

Hardware Included
Aluminum Transition Hinge
(EX-1, EX-6 or EX-9 to EX-11)

Material - Aluminum
Finish - Clear Anodize

Hardware Included
Heavy Duty Hinge

11-400 Clear Anodized
11-BLK-400 Flat Black Powder Coat

Hardware Included
Material - Aluminum

Material - Aluminum

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

One Set w/Long & Short Pin Assemblies

**11-402**

Long Pin Assembly Only

**11-402L**

Short Pin Assembly Only

**11-402S**

**1/4" SLOTS**

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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11-403</td>
<td>One Set w/Long &amp; Short Pin Assemblies</td>
</tr>
<tr>
<td>11-403L</td>
<td>Long Pin Assembly Only</td>
</tr>
<tr>
<td>11-403S</td>
<td>Short Pin Assembly Only</td>
</tr>
</tbody>
</table>

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.
Heavy Duty Transition 5/16 - 1/4 slots

Hinge Assembly

Clear Anodized

Flat Black Powder Coat

EB-140
BLB-140

Hardware Included
Material - Aluminum
Left Hand Transition
Lift-Off Hinge 5/16 - 1/4 slots

EB-142
One Set w/Long & Short Pin Assemblies

EB-142L
Long Pin Assembly Only

EB-142S
Short Pin Assembly Only

Hardware Included
Material - Aluminum
Finish - Clear Anodize

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

11-256

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

Material - Plastic
Color - Black

11-356 Plastic Handle

Material - Polypropylene
Color - Black
Extruded Door Hand Grip

Black powder coat
EF-182-EX11
Yellow powder coat
EF-182-YW11

Mounting Hardware Included
Material - Aluminum

Offset Round Extrusion Door Handle
EF-183-EX11

Hardware Included
<table>
<thead>
<tr>
<th>Style</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-353</td>
<td>Non-Locking</td>
<td></td>
</tr>
<tr>
<td>11-354</td>
<td>Locking</td>
<td></td>
</tr>
</tbody>
</table>

- **Slam Latch**
- **Mounting Hardware Included**
- **Material - Black Plastic**
- **Dimensions**:
  - Width: 3.52
  - Height: 1.22
  - Depth: 0.19
Hardware Included
Material Mounting Plates: Aluminum, Clear Anodize
Latch: Zinc Plated Brass
Transition Mechanical Latch
5/16 - 1/4" slots

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

Adjustable tension

EX-11
EX-6
Door Front

2.00
2.00
.25
.25

1/4" SLOTS
Single Door Mechanical Latch 11-264

Hardware and Mounting Brackets Included

Catch Material - Zinc Plated Brass
Base Material - Aluminum

Double Door Mechanical Latch 11-265

Hardware and Mounting Brackets Included

Catch Material - Zinc Plated Brass
Base Material - Aluminum
Deluxe Dead Bolt Latch

11-272

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

Hardware Included
Deadbolt Latch
.281 dia. Bolt  11-273

Hardware Included
Use with 1/4" slot extrusions
Material - Zinc Plated Steel
Heavy Duty Magnetic Door Latch Assembly

Material - Steel
Finish - Zinc Plated

Hardware Included

1/4" SLOTS

9116 Virginia Road  Lake in the Hills, IL 60156  Telephone 847/458-0993
FAX 847/458-0934   e-mail: info@frame-world.com  web: frame-world.com
Slider Assembly

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

11-98  
11-99

Bearing Material is DELRIN (White)

Hardware Included with 11-98 and 11-99
Load Capacity = 50lbs

Bearing Material is DELRIN (White)
Slider Bracket

Material - Aluminum
Finish - Clear Anodize

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

Note: see part no. 11-98 for example
Blank Bearing Pad UHMW

**11-302** for 1/4" slot extrusions

![Diagram of Blank Bearing Pad UHMW](image)

Stock Length 60"

Material - UHMW (White)
Drilled and countersunk for 10-32 FHCS (2)

.25 between Doors with (2) 11-290
.125 Between Doors with (1) 11-290 and (1) 11-291

EX-12 or EX-22

Bearing material is DELRIN (White)

Hardware Included
Bearing Block (Plastic)

11-291

Drilled and countersunk for 10-32 FHCS (2)

Bearing material is DELRIN (White)

Hardware Included
Offset Bearing Block (Plastic)

11-293

Drilled and countersunk for 10-32 FHCS (2)

.13 Between Doors with (2) 11-293
.06 Between Doors with (1) 11-293 and (1) 11-291

EX-12 or EX-22

Hardware Included

Bearing material is DELRIN (White)
Door Roller Block - 1/4" Slot (lift out)

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"

Block material is annodized aluminum
Roller is DELRIN

Hardware Included
T-slot Roller

11-266

Roller is DELRIN

.31 I.D.
Bronze Bushing
Std.

1.13
DIA.

.63

.25

1.63
DIA.

T-Nut

Hardened Washer

5/16" dia.
shoulder bolt

EX-11

EX-12
or EX-22

Hardware Included
Single Mount Linear Bearing

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

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize
Single Mount Linear Bearing with Locking Handle

11-91LH

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

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize
Single Mount Linear Bearing

11-93

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

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize
Single Mount Linear Bearing with Locking Handle

11-93LH

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

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize
Double Mount Linear Bearing

11-92

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

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize
Double Mount Linear Bearing with Locking Handle

11-92LH

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

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

1.75
1.56
1.19
.13
.50

.50 typ.
1.00 typ.
3.50 .28 typ.
4.00

.281 Dia. Thru (4 each side)

(8) 11-233 BHCS
(8) 11-205 T-nut
Single Mount Linear Bearing

11-94

RECOMMENDED HARDWARE

(4) 11-233 BHCS

(4) 11-205 T-nut

BEARING MATERIAL - DELRIN

PLATE MATERIAL - ALUMINUM

FINISH - CLEAR ANODIZE

1/4" SLOTS
Single Mount Linear Bearing
with Locking Handle

11-94LH

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

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

EX-12 or EX-22

.281 Dia. Thru
(2 each side)

1.75
.13
1.19
1.56

1.00 typ.
.28 typ.
4.50
1.00 typ.
2.00

.50 typ.
Double Mount Linear Bearing

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

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize
Double Mount Linear Bearing 
with Locking Handle 

11-95LH

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

Bearing Material - DELRIN
Plate Material - Aluminum
Finish - Clear Anodize
Single Shaft Base

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

Material - Aluminum
Finish - Clear Anodize

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

For shafts, see page 503
Double Shaft Base

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

Material - Aluminum
Finish - Clear Anodize

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

For shafts, see page 503
Single Shaft Mounting Base

**11-504** with locking handle

**11-505** with locking 5/16 SHCS

---

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

For shafts, see page 503

---

Material - Aluminum
Finish - Clear Anodize
Double Shaft Mounting Base

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

Material - Aluminum
Finish - Clear Anodize

For shafts, see page 503

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

1.25
1.001 dia. (2)
1.00
3.50
2.063
4.75
1.00
.50
2.25
5.50

1/4" SLOTS
Double Shaft Mounting Block

**11-508** with locking handle

**11-509** with locking 5/16 SHCS

---

**Recommended Hardware**

(4) 11-224 SHCS

(4) 11-205 T-nut

---

For shafts, see page 503

---

Material - Aluminum

Finish - Clear Anodize
Single Shaft Mounting Block

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

Material - Aluminum
Finish - Clear Anodize

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

For shafts, see page 503
Single Horizontal Base

**11-512** with locking handle

**11-513** with locking 5/16 SHCS

---

**Recommended Hardware**

(4) 11-226 SHCS

(4) 11-205 T-nut

---

For shafts, see page 503

---

Material - Aluminum

Finish - Clear Anodize
Stanchion Shafts

EB-218
Anodized Aluminum
Stock Length = 71"

EB-219
Polished Steel
Stock Length = 71"

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>1/4-20 thd x L&quot; long</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-230</td>
<td>3/8&quot; long</td>
</tr>
<tr>
<td>11-231</td>
<td>1/2&quot; long</td>
</tr>
<tr>
<td>11-232</td>
<td>5/8&quot; long</td>
</tr>
<tr>
<td>11-233</td>
<td>3/4&quot; long</td>
</tr>
<tr>
<td>11-234</td>
<td>1.0&quot; long</td>
</tr>
<tr>
<td>11-235</td>
<td>1.25&quot; long</td>
</tr>
<tr>
<td>11-236</td>
<td>1.5&quot; long</td>
</tr>
<tr>
<td>11-237</td>
<td>2.0&quot; long</td>
</tr>
</tbody>
</table>

Finish - Black Oxide

Stainless Steel Button Head Cap Screw

<table>
<thead>
<tr>
<th>L-inch</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>.38</td>
<td>11-456</td>
</tr>
<tr>
<td>.50</td>
<td>11-456</td>
</tr>
<tr>
<td>.63</td>
<td>11-456</td>
</tr>
<tr>
<td>.75</td>
<td>11-456</td>
</tr>
<tr>
<td>1.0</td>
<td>11-456</td>
</tr>
<tr>
<td>1.25</td>
<td>11-456</td>
</tr>
</tbody>
</table>
**Metric Button Head Cap Screw**

**11-454**

m6 x 1.0 thd

<table>
<thead>
<tr>
<th>Steel</th>
<th>length</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-454-10</td>
<td>10mm</td>
</tr>
<tr>
<td>11-454-12</td>
<td>12mm</td>
</tr>
<tr>
<td>11-454-14</td>
<td>14mm</td>
</tr>
<tr>
<td>11-454-16</td>
<td>16mm</td>
</tr>
<tr>
<td>11-454-20</td>
<td>20mm</td>
</tr>
<tr>
<td>11-454-25</td>
<td>25mm</td>
</tr>
<tr>
<td>11-454-30</td>
<td>30mm</td>
</tr>
<tr>
<td>11-454-50</td>
<td>50mm</td>
</tr>
</tbody>
</table>

Stainless Steel

<table>
<thead>
<tr>
<th>Steel</th>
<th>length</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-454SS-12</td>
<td>12mm</td>
</tr>
<tr>
<td>11-454SS-16</td>
<td>16mm</td>
</tr>
<tr>
<td>11-454SS-20</td>
<td>20mm</td>
</tr>
</tbody>
</table>

**Finish - Black Oxide**

---

**Flanged Button Head Cap Screw**

**11-350**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>1/4 -20 thd x 3/8&quot; long</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-350</td>
<td></td>
</tr>
<tr>
<td>11-351</td>
<td>1/4 -20 thd x 1/8&quot; long</td>
</tr>
<tr>
<td>11-352</td>
<td>1/4 -20 thd x 3/4&quot; long</td>
</tr>
</tbody>
</table>

Stainless Steel

<table>
<thead>
<tr>
<th>Part No.</th>
<th>1/4 -20 thd x 3/4&quot; long</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-352SS</td>
<td></td>
</tr>
</tbody>
</table>

**Finish - Black Oxide**
# Socket Head Cap Screw

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-220</td>
<td>1/4-20 thd x 3/8&quot; long</td>
</tr>
<tr>
<td>11-221</td>
<td>1/4-20 thd x 1/2&quot; long</td>
</tr>
<tr>
<td>11-222</td>
<td>1/4-20 thd x 5/8&quot; long</td>
</tr>
<tr>
<td>11-223</td>
<td>1/4-20 thd x 3/4&quot; long</td>
</tr>
<tr>
<td>11-224</td>
<td>1/4-20 thd x 1.0&quot; long</td>
</tr>
<tr>
<td>11-225</td>
<td>1/4-20 thd x 1.25&quot; long</td>
</tr>
<tr>
<td>11-226</td>
<td>1/4-20 thd x 1.50&quot; long</td>
</tr>
<tr>
<td>11-228</td>
<td>1/4-20 thd x 2.0&quot; long</td>
</tr>
</tbody>
</table>

Finish - Black Oxide
Metric Socket Head Cap Screw

**11-450**

- **m6 x 1.0 thd**
- **Steel**
  - 11-450-10 10mm
  - 11-450-12 12mm
  - 11-450-16 16mm
  - 11-450-20 20mm
  - 11-450-25 25mm
  - 11-450-30 30mm
  - 11-450-35 35mm
- **Stainless Steel**
  - 11-450SS-10 10mm
  - 11-450SS-12 12mm
  - 11-450SS-16 16mm
  - 11-450SS-20 20mm
  - 11-450SS-25 25mm
  - 11-450SS-30 30mm
  - 11-450SS-35 35mm

**11-452**

- **1/4-20 thd**
- **L-inch**
  - 11-452 -.5
  - 11-452 -.63
  - 11-452 -.75
  - 11-452 -1.0
  - 11-452 -1.25
  - 11-452 -1.5
### Zinc Plated Cap Screw

**11-220K** Socket Head

Fractional
(1/4 - 20 thd)

<table>
<thead>
<tr>
<th>Part No</th>
<th>Thread Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-220K</td>
<td>.375</td>
</tr>
<tr>
<td>11-221K</td>
<td>.50</td>
</tr>
<tr>
<td>11-222K</td>
<td>.63</td>
</tr>
<tr>
<td>11-223K</td>
<td>.75</td>
</tr>
<tr>
<td>11-224K</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Metric
(M6 x 1.0 thd)

<table>
<thead>
<tr>
<th>Part No</th>
<th>Thread Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-450K-10</td>
<td>10</td>
</tr>
<tr>
<td>11-450K-12</td>
<td>12</td>
</tr>
<tr>
<td>11-450K-16</td>
<td>16</td>
</tr>
<tr>
<td>11-450K-20</td>
<td>20</td>
</tr>
<tr>
<td>11-450K-25</td>
<td>25</td>
</tr>
</tbody>
</table>

Material - Steel
Finish - Bright Zinc Plated

**11-230K** Button Head

Fractional
(1/4 - 20 thd)

<table>
<thead>
<tr>
<th>Part No</th>
<th>Thread Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-230K</td>
<td>.375</td>
</tr>
<tr>
<td>11-231K</td>
<td>.50</td>
</tr>
<tr>
<td>11-232K</td>
<td>.63</td>
</tr>
<tr>
<td>11-233K</td>
<td>.75</td>
</tr>
<tr>
<td>11-234K</td>
<td>1.00</td>
</tr>
</tbody>
</table>

Metric
(M6 x 1.0 thd)

<table>
<thead>
<tr>
<th>Part No</th>
<th>Thread Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-454K-10</td>
<td>10</td>
</tr>
<tr>
<td>11-454K-12</td>
<td>12</td>
</tr>
<tr>
<td>11-454K-16</td>
<td>16</td>
</tr>
<tr>
<td>11-454K-20</td>
<td>20</td>
</tr>
<tr>
<td>11-454K-25</td>
<td>25</td>
</tr>
</tbody>
</table>

Material - Steel
Finish - Bright Zinc Plated
## Zinc Plated Hex Cap Screw

<table>
<thead>
<tr>
<th>Fractional</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1/4&quot; - 18 thd)</td>
<td>(M6 x 1.0 thd)</td>
</tr>
<tr>
<td>L = inch</td>
<td>L = mm</td>
</tr>
<tr>
<td>11-458-.38</td>
<td>11-458M-12</td>
</tr>
<tr>
<td>11-458-.50</td>
<td>11-458M-16</td>
</tr>
<tr>
<td>11-458-.63</td>
<td>11-458M-20</td>
</tr>
<tr>
<td>11-458-.75</td>
<td>11-458M-25</td>
</tr>
<tr>
<td>11-458-1.00</td>
<td>11-458M-30</td>
</tr>
<tr>
<td>11-458-1.25</td>
<td></td>
</tr>
</tbody>
</table>

Material - Steel
Finish - Bright Zinc Plated

## Flat Head Socket Cap Screws

### Fractional (1/4" - 20 thd)

<table>
<thead>
<tr>
<th>Length</th>
<th>Steel</th>
<th>Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-157-.50</td>
<td>EF-157SS-.50</td>
<td></td>
</tr>
<tr>
<td>EF-157-.63</td>
<td>EF-157SS-.63</td>
<td></td>
</tr>
<tr>
<td>EF-157-.75</td>
<td>EF-157SS-.75</td>
<td></td>
</tr>
<tr>
<td>EF-157-.88</td>
<td>EF-157SS-.875</td>
<td></td>
</tr>
<tr>
<td>EF-157-1.0</td>
<td>#10-32 thd</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length</th>
<th>Steel</th>
<th>Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>EF-158-.50</td>
<td>EF-158SS-.38</td>
<td></td>
</tr>
<tr>
<td>EF-158-.63</td>
<td>EF-158SS-.50</td>
<td></td>
</tr>
<tr>
<td>EF-158SS-.63</td>
<td>EF-158SS-.63</td>
<td></td>
</tr>
<tr>
<td>EF-158SS-.75</td>
<td>EF-158SS-.75</td>
<td></td>
</tr>
<tr>
<td>EF-158SS-1.0</td>
<td>EF-158SS-1.0</td>
<td></td>
</tr>
</tbody>
</table>

### Metric (M6 x 1.25 thd)

<table>
<thead>
<tr>
<th>Length</th>
<th>Steel</th>
<th>Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM8-16-SS</td>
<td></td>
<td>stainless steel</td>
</tr>
<tr>
<td>FM8-20-SS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length</th>
<th>Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>(m6 x 1.0 thd) steel</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length</th>
<th>Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM6-12</td>
<td></td>
</tr>
<tr>
<td>FM6-14</td>
<td></td>
</tr>
<tr>
<td>FM6-16</td>
<td></td>
</tr>
<tr>
<td>FM6-20</td>
<td></td>
</tr>
<tr>
<td>FM6-25</td>
<td></td>
</tr>
<tr>
<td>FM6-30</td>
<td></td>
</tr>
<tr>
<td>FM6-40</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Length</th>
<th>Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>(m6 x 1.0 thd) steel</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length</th>
<th>Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM6-12-SS</td>
<td></td>
</tr>
<tr>
<td>FM6-14-SS</td>
<td></td>
</tr>
<tr>
<td>FM6-16-SS</td>
<td></td>
</tr>
</tbody>
</table>
Economy T-Nut (Offset Thread)

Material - Steel
Finish - Zinc Plated
Economy T-Nut (Centered Thread)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Thread Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-215</td>
<td>1/4-20 thd</td>
</tr>
<tr>
<td>11-215SS</td>
<td>Stainless Steel 1/4-20 thd</td>
</tr>
<tr>
<td>11-216</td>
<td>10-32 thd</td>
</tr>
<tr>
<td>11-217</td>
<td>8-32 thd</td>
</tr>
<tr>
<td>11-219</td>
<td>6-32 thd</td>
</tr>
</tbody>
</table>

Material: Steel
Finish: Zinc Plated
Double Economy T-nut

11-360

Material - Steel
Finish - Zinc Plated
Pivot T-Nut with Rubber Bumper

Part No.  
11-201  1/4-20 thd  
11-202  10-32 thd  
11-203  m6 x 1.0 thd  
11-227  8-32 thd  

Rubber bumper

Material - Steel  
Finish - Zinc Plated
Pivot T-nut with Set Screw

Material - Steel
Finish - Zinc Plated
Heavy Duty T-Nut

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Thread Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-205</td>
<td>1/4-20 thd</td>
</tr>
<tr>
<td>11-206</td>
<td>10-32 thd</td>
</tr>
<tr>
<td>11-207</td>
<td>m6 x 1.0 thd</td>
</tr>
<tr>
<td>11-208</td>
<td>8-32 thd</td>
</tr>
<tr>
<td>11-209</td>
<td>6-32 thd</td>
</tr>
</tbody>
</table>

Material - Steel
Finish - Zinc Plated

Note: Provides increased thread engagement
Continuous T-nut

11-218 .26 slot width

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

Material - Steel
Finish - Zinc Plated
Blank Continuous T-nut

.25 inch slot size 11-218B

Material - Steel
Finish - Zinc Plated
1/4” Washers and Nuts

11-240

- **11-240**: Washer Hardened Steel
  - Heavy Duty (Black Oxide)

- **11-240SS**: Washer (Stainless Steel)

- **11-240S**: Washer (Zinc Plated)

- **11-240M**: M6 Washer

  Material - Steel
  Finish - Black Oxide

---

11-241

- **11-241**: 1/4-20 Hex Nut
- **11-241SS**: 1/4-20 Hex Nut (Stainless Steel)

- **11-241M**: M6 x 1.0 Hex Nut
- **11-241M5**: M5 x 0.8 Hex Nut

  Material - Steel
  Finish - Zinc Plated

---

11-240L

- **11-240L**: Locking Washer

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

  Material - Steel
  Finish - Zinc Plated
Plastic End Plates

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Extrusion Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-250</td>
<td>use with Extrusion EX-11</td>
<td></td>
</tr>
<tr>
<td>11-257</td>
<td>use with Extrusion EX-12</td>
<td></td>
</tr>
<tr>
<td>11-258</td>
<td>use with Extrusion EX-22</td>
<td></td>
</tr>
<tr>
<td>11-259</td>
<td>use with Extrusion EX-13</td>
<td></td>
</tr>
<tr>
<td>11-277</td>
<td>use with Extrusion EX-14</td>
<td></td>
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<tr>
<td>11-277</td>
<td>use with Extrusion EX-14</td>
<td></td>
</tr>
<tr>
<td>11-357</td>
<td>use with Extrusion EX-21</td>
<td></td>
</tr>
<tr>
<td>11-358</td>
<td>use with Extrusion EX-23</td>
<td></td>
</tr>
<tr>
<td>11-359</td>
<td>use with Extrusion EX-28</td>
<td></td>
</tr>
</tbody>
</table>

Note: For metal covers, consult the factory

Push Lock Fasteners
Included with each end plate

Material - Black ABS
Push Lock Fastener

Material - Nylon

To be used with Plastic End Caps

Note: thread bolt hole for permanent installation
Pressure Manifold Plate

**11-100**

- **Material**: Aluminum
- **Finish**: Clear Anodize

**Cross Sectional Area**: 1.63 sq. in.

- **Gasket Included**
- **Requires (4) 11-224 SHCS**

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

**Gasket, Cork**

Drilled & c’bored for 1/4-20 shcs (4)
Pressure Manifold Plate

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

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

Material Steel
Finish: Zinc Plated
Extrusion Molding

11-320 use on all 1/4" slot extrusions with 1.0" sides

Material - Rigid PVC
Color - Black

Standard length 72"

Can be used as handrail covers
Use on EX-11, EX-12, EX-13, EX-22 for drilling access holes for universal style corners

Material - Aluminum
Finish - Clear Anodize
FRAME-WORLD Extruded Aluminum Specifications and Tolerances

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

Metric Sizes for FRAME-WORLD Extrusions and Accessories

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

Self Locking Feature (5/16" wide slots)

Our EX-1, EX-2, EX-26, EX-3 and EX-36 extrusion has a 2-3 degree decline form the extrusion edge to slot centerline.
Our EX-6, EX-7, EX-8, EX-52, EX-54, EX-61, EX-63, EX-64, EX-65, EX-66, EX-67, EX-68 and EX-69 extrusions have a 1 degree decline from the extrusion edge.

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

**Recommended torque on fasteners**

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

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

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

**Recommended torque on fasteners**

1/4-20 or m6 thread - 12 to 17 ft/lbs.
EX-1 Clear Anodized
BLX-1 Black Anodized

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

**Section Properties:**
- Moment of Intertia in⁴ = .242
- Section modulus in³ = .323

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

Structural Aluminum Extrusions

Load lbs (P)

y = \( \frac{PL^3}{4.65 \times 10^8} \)

Span in inches (L)
Structural Aluminum Extrusions

Clear Anodized  EX-1
Black Anodized  BLX-1

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

EX-1  \( y = \frac{PL^3}{2.60 \times 10^8} \)

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

EX-1  \( y = \frac{PL^3}{7.26 \times 10^6} \)
Structural Aluminum Extrusions

**EX-2**
Clear Anodized

**BLX-2**
Black Anodized

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

**Section Properties:**
- Moment of Intertia in⁴: 1.76 1.481
- Section modulus in³: 1.173 0.641

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

\[ y = \frac{PL^3}{3.38 \times 10^9} \]
\[ y = \frac{PL^3}{9.24 \times 10^8} \]
Structural Aluminum Extrusions

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

\[
y = \frac{10^6 P L^3}{1.89}
\]

Clear Anodized

Black Anodized

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

\[
y = \frac{10^6 P L^3}{5.17 	imes 10^8}
\]

Load at center

Load at end

10/16
Structural Aluminum Extrusions

EX-3 Clear Anodized
BLX-3 Black Anodized

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

Section Properties:
- Moment of Inertia in^4 3.26
- Section modulus in^3 2.173

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

\[ y = \frac{PL^3}{6.26 \times 10^9} \]
Clear Anodized EX-3
Black Anodized BLX-3

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

\[ y = \frac{PL^3}{3.5 \times 10^9} \]

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

\[ y = \frac{PL^3}{9.78 \times 10^7} \]
Structural Aluminum Extrusions

EX-6 Clear Anodized
BLX-6 Black Anodized

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

Section Properties:
- Moment of Intertia in⁴ = 0.199
- Section modulus in³ = 0.265

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

\[ y = \frac{PL^3}{3.82 \times 10^8} \]
Structural Aluminum Extrusions

Clear Anodized

EX-6

Black Anodized

BLX-6

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

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

Load at center

Load at end

Span

y = \frac{PL^3}{2.14 \times 10^8}

y = \frac{PL^3}{5.97 \times 10^6}
Structural Aluminum Extrusions

EX-7

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Weight/ft = .854 lbs.
- 96”, 192.63” Lengths standard.

Section Properties:
Moment of Intertia in⁴ .137
Section modulus in³ .195

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

\[ y = \frac{PL^3}{2.62 \times 10^8} \]
Structural Aluminum Extrusions

EX-7

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

Load at center

\[ y = \frac{PL^3}{1.47 \times 10^8} \]

Load at end

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

\[ y = \frac{PL^3}{4.10 \times 10^6} \]

Span in inches (L)

Load lbs (P)

500
400
300
200
100

5
10
15
20
25
30
35

Span in inches (L)

Load lbs (P)

3000
2500
2000
1500
1000
500

10
20
30
40

Load at end

Span

Load at center

Span
Finish = Clear anodized
Material = 6105-T6 Aluminum
Est. Area = .803 Sq. In.

Weight/ft = .945 lbs.
96", 192.63" Lengths standard.

Section Properties:
Moment of Intertia in^4 .156
Section modulus in^3 .188

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

\[ y = \frac{PL^3}{3.00 \times 10^8} \]
Load condition:
Fixed at one end, sliding at one end,
load at center.
Deflection = Y (inches)

Load at center

\[ y = \frac{PL^3}{1.67 \times 10^8} \]

Span

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

Load at end

\[ y = \frac{PL^3}{4.10 \times 10^6} \]

Span
45 Degree Light Extrusion

EX-82

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

Section Properties:

<table>
<thead>
<tr>
<th>Moment of Intertia in^4</th>
<th>0.1872</th>
<th>0.1854</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in^3</td>
<td>0.2035</td>
<td>0.1817</td>
</tr>
</tbody>
</table>

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

\[ y = \frac{PL^3}{3.595 \times 10^8} \]
Load condition:
Fixed at one end, sliding at one end, 
load at center
Deflection = \( Y \) (inches)

\[
y = \frac{PL^3}{2.010 \times 10^8}
\]

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

\[
y = \frac{PL^3}{1.989 \times 10^8}
\]
1.5” x 1.5” Ultra-Light Extrusion

EX-9 Clear Anodized
BLX-9 Black Anodized

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

Section Properties:
- Moment of Inertia in^4
  - EX-9: .1623
  - BLX-9: .1943
- Section modulus in^3
  - EX-9: .2164
  - BLX-9: .2394

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

\[
y_{\text{max}} = \frac{PL^3}{3.12 \times 10^8}
\]
Load condition:
Fixed at one end, sliding at one end, load at center
Deflection = Y (inches)

\[ y_{\text{max}} = \frac{PL^3}{1.74 \times 10^6} \]

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

\[ y_{\text{max}} = \frac{PL^3}{4.86 \times 10^6} \]
Structural Aluminum Extrusions

EX-26

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

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

Load at center
Span

\[ y = \frac{PL^3}{1.09 \times 10^{10}} \]

\[ y = \frac{PL^3}{1.33 \times 10^9} \]

Section Properties:
Moment of Inertia in\(^4\) 5.6781 .6911
Section modulus in\(^3\) 2.5236 .9215
Load condition:
Fixed at one end, sliding at one end, load at center
Deflection = Y (inches)

\[ y = \frac{PL^3}{6.09 \times 10^9} \]

Load at center
Span

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

\[ y = \frac{PL^3}{7.42 \times 10^8} \]

Load at end
Span

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

\[ y = \frac{PL^3}{2.08 \times 10^7} \]
EX-36

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

Section Properties:
- Moment of Inertia in\(^4\) 22.05
- Section modulus in\(^3\) 7.35

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

\[ Y_{max} = \frac{PL^3}{4.32 \times 10^{10}} \]

\[ Y_{max} = \frac{PL^3}{1.23 \times 10^{10}} \]

Load vs. Span:
- Load at center (P)
- Span (L)
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)

\[ Y_{\text{max}} = \frac{PL^3}{2.37 \times 10^{10}} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{6.88 \times 10^{9}} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{1.92 \times 10^{9}} \]
3” x 3” Light Extrusion

EX-37

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

Section Properties:
- Moment of Inertia in⁴ 2.44
- Section modulus in³ 1.63

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

\[ y = \frac{PL^3}{4.69 \times 10^9} \]
Load condition:
Fixed at one end, sliding at one end, load at center
Deflection = Y (inches)

\[ y_{\text{max}} = \frac{PL^3}{2.63 \times 10^9} \]

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

\[ y_{\text{max}} = \frac{PL^3}{4.86 \times 10^6} \]
**EX-52**

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

### Section Properties:

- **Moment of Inertia in**$^4$ = 0.417 | 0.099
- **Section modulus in**$^3$ = 0.549 | 0.198

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

**Y**$^{\text{max}}$ = \( \frac{PL^3}{8.01 \times 10^8} \)

**Y**$^{\text{max}}$ = \( \frac{PL^3}{1.90 \times 10^8} \)

---

**Structural Aluminum Extrusions**

**Load P, lbs.**

- 8,750
- 7,500
- 6,250
- 5,000
- 3,750
- 2,500
- 1,250
- 0

**Span L, in.**

- 0
- 20
- 40
- 60
- 80
- 100
- 120
Structural Aluminum Extrusions

EX-52

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

\[ Y_{\text{max}} = \frac{PL^3}{4.48 \times 10^6} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{1.06 \times 10^8} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{1.25 \times 10^7} \]

\[ Y_{\text{max}} = \frac{PL^3}{2.97 \times 10^8} \]
**EX-54**

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

**Section Properties:**
- **Moment of Intertia in^4**
  - 0.142
  - 0.100
- **Section modulus in^3**
  - 0.189
  - 0.200

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

---

**Y_{max}**

- **EX-54**

\[ Y_{max} = \frac{PL^3}{2.73 \times 10^5} \]

---

**Y_{max}**

- **EX-54**

\[ Y_{max} = \frac{PL^3}{1.92 \times 10^5} \]
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = \( Y \) (inches)

\[
Y_{\text{max}} = \frac{PL^3}{1.52 \times 10^8}
\]

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

\[
Y_{\text{max}} = \frac{PL^3}{4.26 \times 10^6}
\]
**EX-60**

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

**Section Properties:**
- Moment of Inertia in$^4$ 1.0211
- Section Modulus in$^3$ 0.860

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

**EX-60**

$$y = \frac{PL^3}{1.88 \times 10^9}$$

Load at center
Span

![Diagram](image-url)
Structural Aluminum Extrusions

EX-60

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

Load at center
Span

EX-60

\[ y = \frac{PL^3}{1.096 \times 10^9} \]

Load at end
Span

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

EX-60

\[ y = \frac{PL^3}{3.063 \times 10^7} \]
• Finish = Clear anodized
• Material = 6105-T5 Aluminum
• Est. Area = .866 Sq. In.

• Weight/ft = 1.018 lbs
• 96", 192.63" Lengths standard.

Section Properties:

<table>
<thead>
<tr>
<th>Moment of Inertia in^4</th>
<th>0.200</th>
<th>0.210</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in^3</td>
<td>0.267</td>
<td>0.276</td>
</tr>
</tbody>
</table>

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

**EX-61**

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)

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

**EX-63**

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

**Section Properties:**

<table>
<thead>
<tr>
<th>Moment of Intertia in$^4$</th>
<th>0.195</th>
<th>0.203</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in$^3$</td>
<td>0.260</td>
<td>0.267</td>
</tr>
</tbody>
</table>

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

$$Y_{max} = \frac{PL^3}{3.74 \times 10^6}$$

$$Y_{max} = \frac{PL^3}{3.90 \times 10^6}$$

Graph showing load vs. span.
Structural Aluminum Extrusions

**EX-63**

---

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

\[
Y_{\text{max}} = \frac{PL^3}{2.09 \times 10^6}
\]

---

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

\[
Y_{\text{max}} = \frac{PL^3}{5.85 \times 10^6}
\]

---

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

\[
Y_{\text{max}} = \frac{PL^3}{2.18 \times 10^6}
\]

---

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

\[
Y_{\text{max}} = \frac{PL^3}{9.09 \times 10^6}
\]

---

---
EX-64

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = .849 Sq. In.

- Weight/ft = .998 lbs
- 96", 192.63" Lengths standard.

**Section Properties:**

<table>
<thead>
<tr>
<th>Moment of Intertia in$^4$</th>
<th>0.190</th>
<th>0.210</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in$^3$</td>
<td>0.253</td>
<td>0.280</td>
</tr>
</tbody>
</table>

**Load condition:**

- Fixed at both ends, load at center
- Deflection = $y$ (inches)

- $Y_{max} = \frac{PL^3}{4.08 \times 10^8}$
- $Y_{max} = \frac{PL^3}{3.65 \times 10^8}$
Load condition:
Fixed at one end, sliding at one end, load at center
Deflection = Y (inches)

\[ Y_{\text{max}} = \frac{PL^3}{2.25 \times 10^8} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{2.04 \times 10^8} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{2.70 \times 10^6} \]
**EX-65**

- **Finish** = Clear anodized
- **Material** = 6105-T5 Aluminum
- **Est. Area** = .849 Sq. In.

- **Weight/ft** = .998 lbs.
- **96", 192.63" Lengths standard.**

**Section Properties:**
- Moment of Intertia in^4 = 0.200
- Section modulus in^3 = 0.267

---

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

**Graph:**
- **Load at center (P)**
- **Span (L)**

---

**Formula:**
\[ y_{max} = \frac{PL^3}{3.84 \times 10^8} \]
Load condition: Fixed at one end, sliding at one end, load at center
Deflection = Y (inches)

\[ Y_{max} = \frac{PL^3}{2.15 \times 10^8} \]

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

\[ Y_{max} = \frac{PL^3}{6.00 \times 10^6} \]
- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.559 Sq. In.
- Weight/ft = 1.833 lbs.
- 96", 192.63" Lengths standard.

**Section Properties:**
- Moment of 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)

\[ Y_{max} = \frac{PL^3}{2.66 \times 10^9} \]
\[ Y_{max} = \frac{PL^3}{7.70 \times 10^{11}} \]
Load condition:
Fixed at one end, sliding at one end, load at center
Deflection = Y (inches)

\[ Y_{\text{max}} = \frac{PL^3}{1.48 \times 10^8} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{4.40 \times 10^8} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{1.48 \times 10^9} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{4.16 \times 10^9} \]
Material = 6105-T5 Aluminum
Est. Area = 1.569 Sq. In.

Weight/ft = 1.845 lbs
96", 144.25" (clear), 192.63" Lengths standard.

Section Properties:

<table>
<thead>
<tr>
<th></th>
<th>EX-67 Clear</th>
<th>BLX-67 Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moment of Inertia</td>
<td>1.376</td>
<td>0.387</td>
</tr>
<tr>
<td>Section Modulus</td>
<td>0.917</td>
<td>0.516</td>
</tr>
</tbody>
</table>

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

\[
Y_{\text{max}} = \frac{PL^3}{2.64 \times 10^9}
\]

\[
Y_{\text{max}} = \frac{PL^3}{7.43 \times 10^9}
\]
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)

\[ Y_{max} = \frac{PL^3}{1.48 \times 10^9} \]

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

\[ Y_{max} = \frac{PL^3}{4.15 \times 10^6} \]

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

\[ Y_{max} = \frac{PL^3}{1.16 \times 10^7} \]
Structural Aluminum Extrusions

EX-68

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

- Weight/ft = 1.880 lbs.
- 96", 192.63" Lengths standard.

**Section Properties:**

<table>
<thead>
<tr>
<th>Moment of Intertia in$^4$</th>
<th>1.385</th>
<th>0.401</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in$^3$</td>
<td>0.923</td>
<td>0.535</td>
</tr>
</tbody>
</table>

Load condition:

- Fixed at both ends, load at center
- Deflection = $y$ (inches)

**Load at center (P)**

$Y_{max} = \frac{PL^3}{2.66 \times 10^6}$

$Y_{max} = \frac{PL^3}{7.70 \times 10^6}$

<table>
<thead>
<tr>
<th>Load P, lbs.</th>
<th>5,000</th>
<th>4,000</th>
<th>3,000</th>
<th>2,000</th>
<th>1,000</th>
<th>500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Span L, in.</td>
<td>0</td>
<td>20</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
</tr>
</tbody>
</table>

- .17 typ.
- .75 typ.
- 1.50 typ.
- .33 typ.
- .35
- .209 sq. typ.
- .26 dia. 5/16-18 tap size

- 10/16
Load condition:
Fixed at one end, sliding at one end,
load at center
Deflection = Y (inches)

\[ Y_{\text{max}} = \frac{P L^3}{1.48 \times 10^9} \]

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

\[ Y_{\text{max}} = \frac{P L^3}{4.16 \times 10^7} \]
Structural Aluminum Extrusions

EX-69

- Finish = Clear anodized
- Material = 6105-T5 Aluminum
- Est. Area = 1.554 Sq. In.

- Weight/ft = 1.828 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

Moment of Intertia 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)

$$Y_{max} = \frac{PL^3}{2.66 \times 10^8}$$

$$Y_{max} = \frac{PL^3}{7.70 \times 10^{11}}$$

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

\[ Y_{\text{max}} = \frac{PL^3}{1.48 \times 10^8} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{4.40 \times 10^8} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{4.16 \times 10^9} \]

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

\[ Y_{\text{max}} = \frac{PL^3}{1.20 \times 10^7} \]
Aluminum Extrusion

EX-83

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

Section Properties:
Moment of Inertia in$^4$ 1.229 0.338
Section Modulus in$^3$ 0.779 0.424
Finish: Mill Finish
Material: 6105-T6 Aluminum
Est. Area: 6.330 Sq In.
Wt./Ft. 7.445 lbs.
Std. Length: 192.63"
Special cut charge required for non-standard length (EM-1-EX45)

Section Properties:
Moment of Inertia in\(^4\) 16.4
Section Modulus in\(^3\) 6.56
Aluminum Extrusion

**EX-11** Clear Anodized

**BLX-11** Black Anodized

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

**Section Properties:**
- **Moment of Intertia in**\(^4\) = 0.049
- **Section modulus in**\(^3\) = 0.097

![Graphic representation of section properties](image)

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

\[
y = \frac{PL^3}{9.33 \times 10^7}
\]

![Graph of deflection vs. load and span](image)
Aluminum Extrusion

Clear Anodized EX-11
Black Anodized BLX-11

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

Load at center

\[
y = \frac{PL^3}{5.22 \times 10^7}
\]

Span in inches (L)

Load lbs (P)

250
500
750
1000

10 20 30 40 50 60 70 80 90 100 110 120

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

Load at end

\[
y = \frac{PL^3}{1.46 \times 10^8}
\]

Span in inches (L)

Load lbs (P)

250
500
750
1000

10 20 30 40 50 60 70 80 90 100 110 120

Clear Anodized
Black Anodized
EX-11
BLX-11
Aluminum Extrusion

EX-12  Clear Anodized
BLX-12  Black Anodized

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

Section Properties:
Moment of Intertia in$^4$  .316  .088
Section modulus in$^3$  .316  .176

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

$$y = \frac{PL^3}{6.07 \times 10^6}$$

$$y = \frac{PL^3}{1.69 \times 10^6}$$
Aluminum Extrusion

Clear Anodized  EX-12

Black Anodized  BLX-12

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

Load lbs (P) vs. Span in inches (L)

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

Clear Anodized  EX-12

Black Anodized  BLX-12

Load lbs (P) vs. Span in inches (L)
Aluminum Extrusion

EX-13

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

Section Properties:
- Moment of Intertia in$^4$ 1.376 0.387
- Section modulus in$^3$ 0.917 0.516

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

$Y_{max} = \frac{PL^3}{1.89 \times 10^9}$

$Y_{max} = \frac{PL^3}{2.42 \times 10^9}$
EX-13

Aluminum Extrusion

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

\[ Y_{\text{max}} = \frac{PL^3}{1.06 \times 10^9} \]

Load at center (P)

Span (L)

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

\[ Y_{\text{max}} = \frac{PL^3}{2.86 \times 10^7} \]

Load at end (P)

Span (L)
Aluminum Extrusion

EX-14

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

**Section Properties:**
- Moment of Intertia in$^4$ = .037
- Section modulus in$^3$ = .068

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

\[ y = \frac{PL^3}{7.07 \times 10^7} \]
Load condition:
Fixed at one end, sliding at one end, load at center
Deflection = Y (inches)

\[ y = \frac{PL^3}{3.95 \times 10^7} \]

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

\[ y = \frac{PL^3}{1.10 \times 10^6} \]
Aluminum Extrusion

**EX-22** Clear Anodized

**BLX-22** Black Anodized

- Material = 6105-T5 Aluminum
- Est. Area = 1.249 Sq. In.
- Weight/ft = 1.468 lbs.
- 96", 192.63" Lengths standard.

**Section Properties:**
- Moment of Intertia in$^4$ = 0.569
- Section modulus in$^3$ = 0.569

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

\[
y = \frac{PL^3}{1.09 \times 10^9}
\]
Aluminum Extrusion

Clear Anodized EX-22
Black Anodized BLX-22

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

Load at center

Load lbs (P)

Span in inches (L)

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

Load at end

Load lbs (P)

Span in inches (L)
Structural Aluminum Extrusions

EX-24

- Finish = Clear anodized
- Material = 6063-T6HT Aluminum
- Est. Area = 2.352 Sq. In.

- Weight/ft = 2.766 lbs.
- 96", 192.63" Lengths standard.

Section Properties:

<table>
<thead>
<tr>
<th>Moment of Intertia in^4</th>
<th>3.634</th>
<th>1.078</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section modulus in^3</td>
<td>1.817</td>
<td>1.078</td>
</tr>
</tbody>
</table>

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

\[ y = \frac{PL^3}{6.98 \times 10^9} \]

\[ y = \frac{PL^3}{2.07 \times 10^9} \]
Structural Aluminum Extrusions

EX-24

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

\[ y = \frac{PL^3}{3.9 \times 10^9} \]

Load at center

\[ y = \frac{PL^3}{1.56 \times 10^9} \]

Span

Load in lbs (P)

8000
7000
6000
5000
4000
3000
2000
1000

10 20 30 40 50 60 70 80 90 100 110 120

Span in inches (L)

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

\[ y = \frac{PL^3}{1.09 \times 10^8} \]

Load at end

\[ y = \frac{PL^3}{3.23 \times 10^7} \]

Span

Load in lbs (P)

4000
3500
3000
2500
2000
1500
1000
500

10 20 30 40 50 60 70 80

Span in inches (L)
Aluminum Extrusion

EX-70

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

**Section Properties:**

- Moment of Intertia in\(^4\) 0.057 0.052
- Section modulus in\(^3\) 0.114 0.099

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

\[
y = \frac{PL^3}{9.96 \times 10^7}
\]

\[
y = \frac{PL^3}{1.094 \times 10^8}
\]

Load lbs (P)

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

$y = \frac{PL^3}{5.57 \times 10^7}$

$y = \frac{PL^3}{6.12 \times 10^7}$

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

$y = \frac{PL^3}{1.46 \times 10^6}$

$y = \frac{PL^3}{1.71 \times 10^6}$
Aluminum Extrusion

EX-71

- Finish = Clear anodized
- Material = 6105-T5 Aluminum

- Weight/ft = .550 lbs.
- 96", 192.63" Lengths standard.

Section Properties:
- Moment of Intertia in\(^4\) = .057 .046
- Section modulus in\(^3\) = .114 .093

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

\[ y = \frac{PL^3}{1.09 \times 10^8} \]

\[ y = \frac{PL^3}{8.91 \times 10^7} \]
EX-71

Aluminum Extrusion

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

\[ y = \frac{PL^3}{6.10 \times 10^7} \]

\[ y = \frac{PL^3}{4.98 \times 10^7} \]

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

\[ y = \frac{PL^3}{1.70 \times 10^6} \]

\[ y = \frac{PL^3}{1.40 \times 10^6} \]

Load lbs (P)
Span in inches (L)
Aluminum Extrusion

EX-72

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

Section Properties:
- Moment of Inertia in$^4$ = .051
- Section modulus in$^3$ = .098

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

\[ y = \frac{PL^3}{9.85 \times 10^7} \]
EX-72

Aluminum Extrusion

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

\[ y = \frac{PL^3}{5.51 \times 10^7} \]

Load at center

Span

Load lbs (P)

1000
750
500
250

10 20 30 40 50 60
Span in inches (L)

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

\[ y = \frac{PL^3}{1.54 \times 10^6} \]

Load at end

Span

Load lbs (P)

1250
1000
750
500
250

10 20 30 40 50 60
Span in inches (L)
Aluminum Extrusion

**EX-73**

- Finish = Clear anodized
- Material = 6105-T5 Aluminum

**Section Properties:**
- Moment of Intertia in\(^4\) .051 .046
- Section modulus in\(^3\) .099 .092

- Weight/ft = .523 lbs.
- 96", 192.63" Lengths standard.

---

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

\[
y = \frac{PL^3}{8.87 \times 10^7}
\]

\[
y = \frac{PL^3}{9.81 \times 10^7}
\]

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

Load at center
Span

Load lbs (P)

\[ y = \frac{PL^3}{4.96 \times 10^7} \]

\[ y = \frac{PL^3}{5.48 \times 10^7} \]

Span in inches (L)

---

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

Load at end
Span

Load lbs (P)

\[ y = \frac{PL^3}{1.39 \times 10^6} \]

\[ y = \frac{PL^3}{1.53 \times 10^6} \]

Span in inches (L)
FRAME-WORLD’s blank angle bracket profiles are made from aluminum and are provided with a standard mill finish. Clear anodized finish is also available. They are stocked in 8 ft. and 12 ft. lengths.

**EX-15**

| EX-15-ANDZ | 1.68 lb/ft |

<table>
<thead>
<tr>
<th>3.00</th>
<th>.25 R typ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td></td>
</tr>
</tbody>
</table>

**EX-16**

| EX-16-ANDZ | .81 lb/ft |

<table>
<thead>
<tr>
<th>1.50</th>
<th>.25 R typ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.50</td>
<td></td>
</tr>
</tbody>
</table>

Order by Part No. For Special lengths, consult the factory.
FRAME-WORLD’s blank angle bracket profiles are made from aluminum and are provided with a standard mill finish. Clear anodized finish is also available. They are stocked in 8 ft. and 12 ft. lengths.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Weight per Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX-17</td>
<td></td>
<td>.83 lb/ft</td>
</tr>
<tr>
<td>EX-17-ANDZ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EX-18</td>
<td></td>
<td>.40 lb/ft</td>
</tr>
<tr>
<td>EX-18-ANDZ</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Order by Part No. For Special lengths, consult the factory.
FRAME-WORLD Blank Angle Profiles are made from aluminum and are provided with a standard mill finish. They are stocked in 8 ft. and 12 ft. lengths.

<table>
<thead>
<tr>
<th>EX-34</th>
</tr>
</thead>
<tbody>
<tr>
<td>EX-34-ANDZ</td>
</tr>
</tbody>
</table>

1.25 lb/ft

![Diagram of EX-34 profile]

Dimensions:
- Height: 3.00
- Width: 1.50
- Thickness: 0.25
EX-53 Door Stop

Mill Finish

.24 lb/ft

Standard Length 96", 192.63"

Material: Aluminum
Finish: Mill Finish
Angle Bracket Profiles

FRAME-WORLD’s blank angle bracket profiles are made from aluminum and are provided with a standard mill finish. Clear anodized finish is also available. They are stocked in 8 ft. and 12 ft. lengths.

**EX-30**

- **EX-30-ANDZ**
- 1.10 lb/ft
- 1.50
- 1.50
- .38 typ.

**EX-32**

- **EX-32-ANDZ**
- .42 lb/ft
- 1.00
- 1.00
- .13 typ.

**EX-31**

- **EX-31-ANDZ**
- 2.61 lb/ft
- 3.00
- 3.00
- .38 typ.

**EX-33**

- **EX-33-ANDZ**
- 1.33 lb/ft
- 3.00
- 3.00
- .25
FRAME-WORLD can provide you with a kit that is ready to assemble. We will provide machining services such as access holes, taps, cuts and counterbores. We can also provide miter cuts and any special milling, drilling or tapping requirements that you may have.

In addition to the items within this catalog, FRAME-WORLD can also provide panels cut to size. Materials can be Acrylic (Plexiglass®), Polycarbonate (Lexan®) expanded PVC (Sintra®) or ABS (Haircell). This also includes any drilling, tapping or machining required for panel mounting.

Customized packaging is also available, such as kits for multiple quantities of the same item (i.e. frame, fixture, panel, etc.) or labeling individual components of one item.

For all special services and for any parts not shown in this catalog, please contact our Application Group.

**Standard Machining Services**

1. Cut to length 5/16" or 1/4" slot profiles
   - Any profile shape (except EX-45HD)
   - Length tolerance = +.015"
   - Squareness = .002" per inch

2. Cut to length EX-45HD
   - Length tolerance = +.030"
   - Squareness = .005" per inch

3. End hole tap
   A. 5/16" slot profiles
      - 5/16"-18 x 1.0 deep thread
      - .260 dia. extruded hole size
      - m8 x 1.25 on request
   B. 1/4" slot profiles
      - 1/4-20 x .75 deep thread
      - .201 dia. extruded hole size
      - m6 x 1.0 on request
Engineering and Machining Services

4. T-slot identification

EX-1  EX-6  EX-9  EX-11
EX-21  EX-52  EX-61  EX-70  EX-81
EX-65  EX-72  EX-54  EX-64  EX-71
EX-63  EX-73

EX-7  EX-8  EX-14  EX-23  EX-82
EX-2  EX-12  EX-67
EX-68  EX-66
EX-28  EX-57  EX-69

EX-3  EX-22  EX-37
EX-24  EX-36
EX-26
5. Access Hole Drill
   A. For 5/16" wide slot profiles
      the drill dia. = .31"
      all the way through
   B. For 1/4" wide slot profiles
      the drill dia. = .25"
      all the way through.

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"

6. C'bore or C'sink Hole Drill
   Specify type and location for a countersink hole in a panel or extrusion.

Example:
For a panel: Drill and C'sink for 5/16-18 FHCS per dwg
(must submit sketch of panel)
For an extrusion: Drill and C'bore for 5/16-18 SHCS slot [A] @ 0.75, 2.25 from end.
7. Anchor Fastener Counter Bores

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

   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

   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
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
8. Anchor Butt Fastener Counterbores

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

Example: (for a 300" long piece)

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

B. For 1/4" wide slot profiles the counterbore dia. = .562 x .445 deep. Location is .438 from the end

Example: (for a 200" long piece)

(2) EX-11 x 100.0
(2) EM-1
(4) EM-9
(2) 11-243
9. Set Screw Anchor Fastener Counterbore

For 5/16" wide slot profiles using and EF-49 fastener, an EM-13 counterbore dia = .625 dia x 1.00 deep at a distance of 1.312" from the end of the extrusion.

Example:
EX-65 ; 32.000" ; EM-13 [F] @ 1.312, 30.688

10. Wire Mesh and Plastic Panels Cut to Size

Panels any side ≤ 48.0"  
Panels any side > 48.0"

A. Wire Mesh and Plastic Panels are sold by the number of square feet

B. To calculate square feet, multiply the length by width (in inches) and then divide by 144.
   Round up to nearest square foot.

C. Example:
   (1) EB-38-1 that is 24" x 47"
   Order:
   (8) sq ft EB-38-1 (1) @ 24" x 47"
   (1) EM-4S
   Total Sq. Ft. = \( \frac{47.0 \times 24.0}{144.0} \) = (8) sq. ft. EB-38-1
11. Clearance Hole in a Panel  
For clearance holes drilled into panel material, include an EM-3P. Please provide a sketch.

12. Notch in Panel or Mesh  
For notches in panels or mesh, include an EM-4N for each notch. Please provide a sketch.

13. Extrusion Mitre Cuts & Counter Bores  
Miter cut per end  
Counter bore & hardware per end

(1) EM-6/Cut Piece

Example:

Order:
(1) EX-1 x 36.0
(2) EM-6
(2) EM-10  (times (2) for double slot, i.e. EX-2)
Note: for custom angles, consult the factory.
When comparing all costs in the fabrication of a typical machine or table frame using FRAME-WORLD components versus steel weldments, most users realize a 15 to 25% savings. Here are the reasons, or extra steps and equipment in weldment structures:

- Welding fixtures and clamps
- Welding time
- Grinding equipment and grinding of welds
- Clean and degrease
- Drill, tapping or reaming mounting holes
- Deburr
- Primer
- Paint frame and touch up after mounting

It's easy to see the savings and esthetic effect of FRAME-WORLD.

### Parts List

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Application Examples
Application Examples
Application Examples
Application Examples
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