Section #6 Pictorial Table Of Contents

Panels & Doors

80/20® Inc.
*The **Industrial** Erector Set®*
THE STANDARD

Fractional

Panels & Doors

Section #6 Pictorial Table Of Contents

6

6

T-Slotted Aluminum Profile Compatibility Code*

How to find parts compatible with the T-slotted profile you are currently using:

1. Not all T-slotted profiles are created equal. Not only are there numerous outside dimensions, fractional and metric, but there are also differences in T-slot dimensions. The opening of the slot is the critical dimension when determining part/profile compatibility.

2. Certain fasteners, parts and accessories are designed to work with only one particular slot dimension, while others are compatible with more than one slot size.

3. Series designations such as 10, 15, 20, 25, 30, 40, 45 etc. refer to overall outside dimensions of the profile and/or center-to-center dimensions of two T-slots.

4. The critical slot opening dimensions mentioned above are stated in millimeters. They include openings of 5, 6, 8, 10, 11 and 12 mm.

5mm – .197"	10 – 1.00"
6mm – .236"	15 – 1.50"
8mm – .315"	20 – 20mm
10mm – .394"	25 – 25mm
11mm – .433"	30 – 30mm
12mm – .472"	40 – 40mm
	45 – 45mm
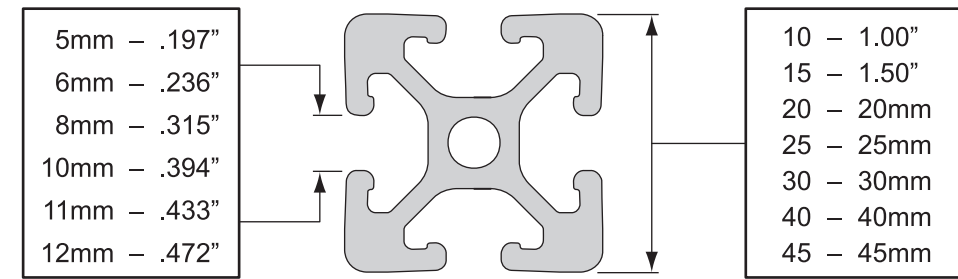
5. To determine compatibility the slot opening and profile series must be known. This will establish the compatibility code, which is listed for every part.

Slot Opening	Series Designation		Slot Opening	Series Designation

8-40 ← **EXAMPLES** → **10-45**

8 mm   40 mm   10 mm   45 mm

* Patent Pending

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Fractional
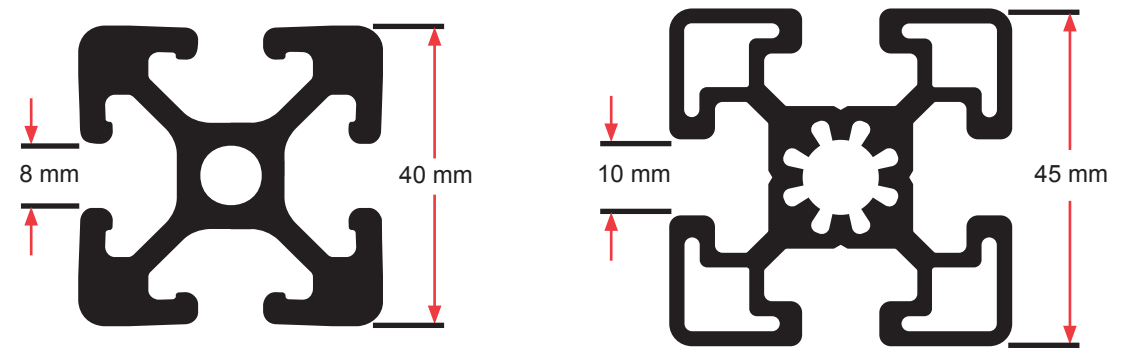
Introduction to Hinges
Design & Assembly Tips, Tricks and Recommendations

Our **Hinges**, standard and lift-off, may be used in various applications. The following highlights of hinge features will assist you in proper selection and use. Plastic lift-off hinges are available in **left** and **right** positions.

Left – Pin on the left, door opens right to left
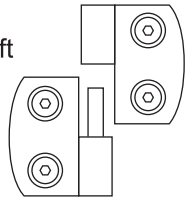
Right – Pin on the right, door opens left to right
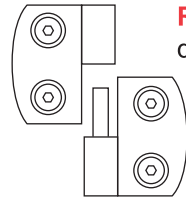
Tip: Using all right or all left hinges will allow the door to lift off
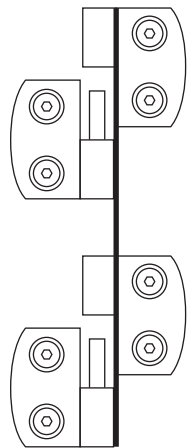
Tip: Mixing right and left hinges on one side will captivate the door
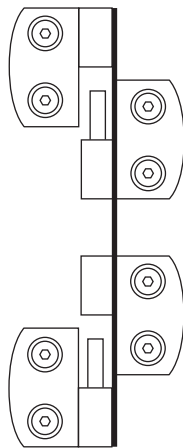
Recommendation:

Select hinges with the **Slot Tabs or Slot Pins** compatible with the T-Slot profile. Slot Tabs/Pins prevent the hinge from rotating and increase its load bearing capacity.

Slot Tabs/Slot Pins may be removed or broken off when, for example, a panel is being mounted.

Slot Tab (Slot Pin)
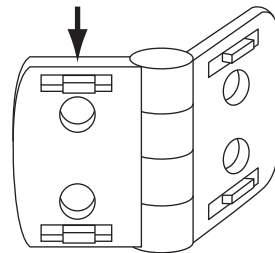
Introduction to Hinges continued
Design & Assembly Tips, Tricks and Recommendations

Trick: Transition Hinges
Notice the Plastic Hinges listed on pages 359-360 have two common dimensions; leaf thickness and hinge height. This feature allows **Plastic Lift Off Hinge** leaf sizes to be interchanged, creating a transition for hinging different sizes of T-slot profiles or panels. The same position hinges must be used, i.e. two lefts or two rights.

Hinge Height

Hinge Leaf Thickness

48.00mm

9.00mm
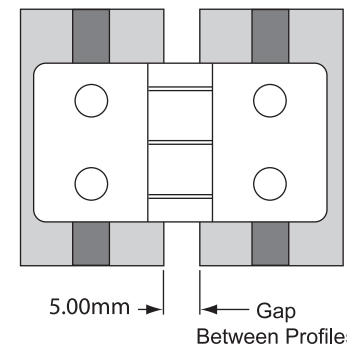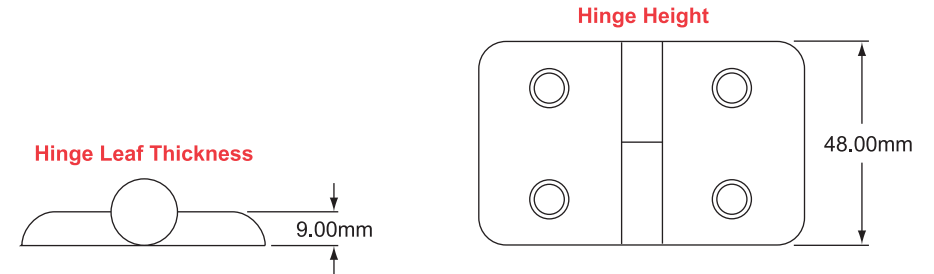
A **5.00mm** gap is commonly created when hinging together two T-slotted profiles.

5.00mm   Gap Between Profiles

Bolt Kits

The recommended bolt kits listed with hinges are for mounting that hinge to a specific T-slotted profile or panel. For more bolt kit options, refer to Fractional or Metric Section 3.

Legend for Icons

This part is 10 Series compatible

Design files for this part can be found on the 80/20® DVD (Design Software)

This part can use double economy T-nuts (see bolt kit table P on page 268)

This part can use triple economy T-nuts (see bolt kit table Q on page 268)

We specialize in **FAST**™ *same day shipments!*

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How to Order 80/20® Panels & Door Components

With the wide selection of 80/20 panels and door components available, it is important to take special care to include all required information when ordering. See the following page for a list of ordering requirements that will speed up your order process and help us better meet your needs. And remember, there is always an 80/20 specialist available in your area to help with any design, ordering, or assembly questions you may have.

How To Order

Shipping Method: _____
Ordered By: _____

Ship To:
Customer: _____
Address: _____
City / State: _____
Attention: _____
Tag: _____

Complete Address & Shipping Method Required... NO P.O. Box

	Part Number	Quantity	Length	Description / Machining	Price/ UOM	Ext. Price
1	1010	2	18.50"	7042 in A both ends	$.23	$8.51
	1515-Lite-145	5	145.00"	Full length profile	$65.25	$326.25
	3060	4	40.00"	7029 one end	$2.95	$472.00
	3030	4	36.00"	7050 style G in W, X both ends	$1.50	$216.00
2	CM01-051006	2		Custom bracket per drawing #1	$23.00	$46.00
3	2611	1	5.25 sf.	1/4" bronze polycarb 1 @ 18" x 40" w/ 7311 per drawing	$10.40	$54.60
4	7150	1		Cut plastic panels all sides < -48"	$10.50	$10.50
	7042	4		10 Series anchor fastener counterbore	$2.25	$9.00
	7005	2		Cut-to-length for 1010	$1.95	$3.90
	7023	4		Cut-to-length for 3060	$2.90	$11.60
	7030	4		Cut-to-length for 3030	$2.60	$10.40
	7050	64		15 Series drill access hole	$1.95	$124.80
	7029	4		5/16-18 tap service for 3060	$15.20	$60.80
	7311	2		Anchor fastener notch for 10 Series	$0.53	$1.06
5	3380	32		15 Series 5/16-18 black zinc end fastener w/ screw	$1.60	$51.20
	2114	16		Gray T-Slot covers for 10 Series	$3.45	$55.20
	2050	8		End caps for 3030	$1.85	$14.80
	3395	4		10 Series anchor fasteners	$2.90	$11.60
	3279	5		15 Series 5/16-18 black zinc double economy T-nut	$0.79	$3.95
	4132	12		2 hole inside corner gusset bracket	$3.95	$47.40
	3393	24		10 Series 1/4-20 BHSCS & economy T-nut	$0.40	$9.60
				TOTAL		**$1549.17**

NOTE: Prices shown for illustration use only. Contact your distributor for a personalized quote.

Special Instructions: *Must be delivered for assembly by Friday!!!*

1 - Profiles = Pages 147-202   •   2 - Custom Parts = Pages 203-220   •   **3** - Panels = Pages 349-432

4 - Machining Services = Pages 559-608   •   5 - Accessories & Tools = Pages 433-456 & 549-558

Calculate Panel Area

Since all panels are sold by the square foot, the most important step when ordering panels from 80/20® is calculating the panel's area. To round up your specific panel size, refer to the quick reference panel size chart on page 330.

Example: **14**" (Length) x **31**" (Width) Rounded Up To **18**" (Length) x **36**" (Width)

18" x **36**" = **4.50** Sq. Ft.

Specifying Machining On A Drawing

When submitting a panel drawing, please place a call out letter on each corner of your panel. Notice in the example at right that the width and length are referenced by their specified call outs.
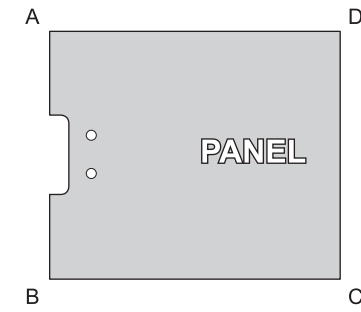
Beginning with the upper left corner, call outs are designated A, B, C, and D in a counterclockwise direction. Referencing these call outs when ordering machining allows for proper measuring of the service position.

In this example the service center line is measured down from the "A" call out.

A   D

PANEL

B   C

Ordering Example:
2609 (1) @ (AD) 36.000" x (AB) 24.000"
w/ 7313 on Side AB @ 12.000"

Panel Sizing Tip

When sizing a panel that will be inserted into a profile's T-slot be sure to add extra material to your visible panel size.

Example:

All four sides of the panel will recess inside the 10 Series profile's T-slot. The visible size of the panel will be 24" x 24"; we add .50" to the "**A**" dimension of the panel that will recess into the T-slot. Our total panel size will now be 24.5" x 24.5"

Add .50" to "A" for 10 Series
Add .75" to "A" for 15 Series

A

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Lift-Off Hinges

- **10 and 15 Series compatible**
- **All required fasteners included**
- **Hinge body made of 6105-T5 anodized aluminum with permanently lubricated bronze bushings**
- **Heavy-duty stainless steel hinge pins provide strength, long life, and smooth operation**
- **Captivated nylon thrust washer eliminates metal-to-metal contact and won't fall out**
- **Positioning long pin in upper position simplifies door assembly**
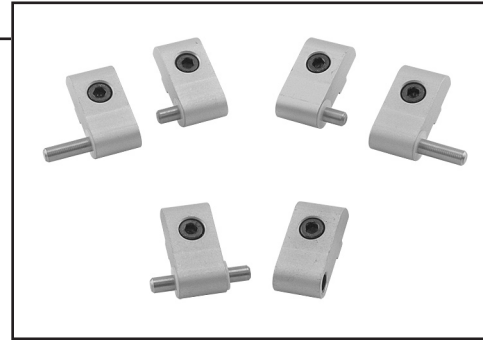
⌘ = 10 Series Compatible Part
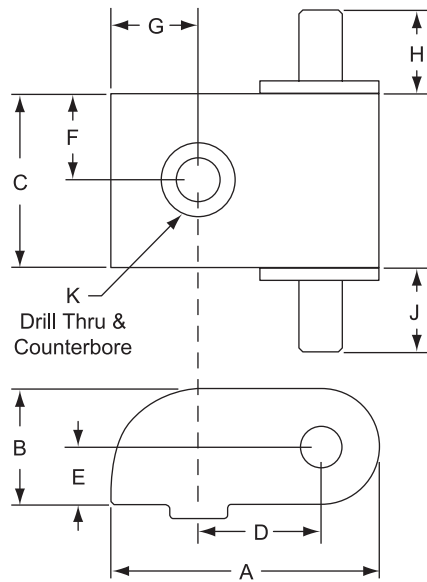
Note: Position the long pin in the upper position to simplify door assembly.
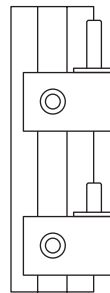
Note: The distance of the gap between the two mating profiles will equal .063" for 10 Series, 15 Series and transitions of both Series.

.063"

K — Drill Thru & Counterbore
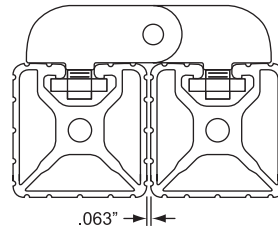
Part No.	A	B	C	D	E	F	G	H	J	K	Lbs.
2073 ⌘	1.156	.500	.750	.529	.250	.375	.377	–	.750	10-32 SHCS	.060
2074 ⌘	1.156	.500	.750	.529	.250	.375	.377	.750	–	10-32 SHCS	.060
2075 ⌘	1.156	.500	.750	.529	.250	.375	.377	–	.360	10-32 SHCS	.055
2076 ⌘	1.156	.500	.750	.529	.250	.375	.377	.360	–	10-32 SHCS	.055
2077 ⌘	1.156	.500	.750	.529	.250	.375	.377	–	–	10-32 SHCS	.050
2078 ⌘	1.156	.500	.750	.529	.250	.375	.377	.360	.360	10-32 SHCS	.065
2093	1.655	.500	.750	.780	.250	.375	.625	–	.750	1/4-20 SHCS	.085
2094	1.655	.500	.750	.780	.250	.375	.625	.750	–	1/4-20 SHCS	.085
2095	1.655	.500	.750	.780	.250	.375	.625	–	.360	1/4-20 SHCS	.080
2096	1.655	.500	.750	.780	.250	.375	.625	.360	–	1/4-20 SHCS	.080
2097	1.655	.500	.750	.780	.250	.375	.625	–	–	1/4-20 SHCS	.075
2098	1.655	.500	.750	.780	.250	.375	.625	.360	.360	1/4-20 SHCS	.090

Standard Lift-Off Hinge Assemblies

- **Mounting hardware included**

⌘ = 10 Series Compatible Part

	Individual Part No.											
	2073	**2074**	**2075**	**2076**	**2077**	**2078**	**2093**	**2094**	**2095**	**2096**	**2097**	**2098**
	⌘	⌘	⌘	⌘	⌘	⌘	Long	Long	Short	Short	No Pin	2 Pin
	Long	Long	Short	Short	No Pin	2 Pin						

Complete Assembly Part No.

Assembly	2073	2074	2075	2076	2077	2078	2093	2094	2095	2096	2097	2098
2064 ⌘ Right Hinge, Long Pin Top, Short Pin Bottom, .215 Lbs.	1		1		2							
2065 ⌘ Left Hinge, Long Pin Top, Short Pin Bottom, .215 Lbs.		1		1	2							
2066 ⌘ Heavy-Duty Hinge, .160 Lbs. Captivates Door		1	1		1							
2104 Right Hinge, Long Pin Top, Short Pin Bottom, .320 Lbs.							1		1		2	
2105 Left Hinge, Long Pin Top, Short Pin Bottom, .320 Lbs.								1		1	2	
2106 Heavy-Duty Hinge, .240 Lbs. Captivates Door								1	1		1	

Transition Assembly Part No.

Assembly	2073	2074	2075	2076	2077	2078	2093	2094	2095	2096	2097	2098
2101 ⌘ Right Hinge, Long Pin Top, Short Pin Bottom, .270 Lbs.							2	1		1		
2102 ⌘ Left Hinge, Long Pin Top, Short Pin Bottom, .270 Lbs.							2		1		1	
2103 ⌘ Heavy-Duty Hinge, .215 Lbs. Captivates Door							1			1	1	

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Economy Lift-Off Hinges

- **10 and 15 Series compatible**
- **Aluminum with clear anodize finish**
- **Aluminum pin, long or short pin lengths**
- **Available in both right and left hand options**
- **Cost-effective option for lightweight doors and on-site assembly**
- **10 Series offers 40 Lbs. capacity
  15 Series offers 70 Lbs. capacity**
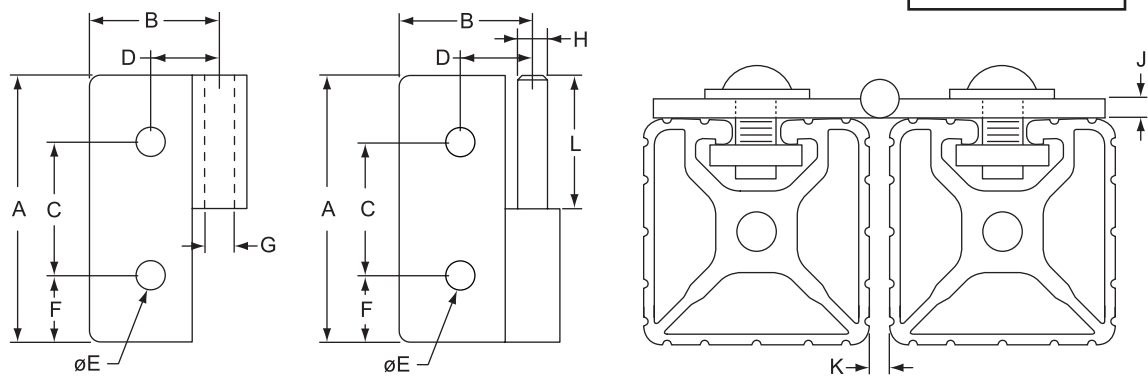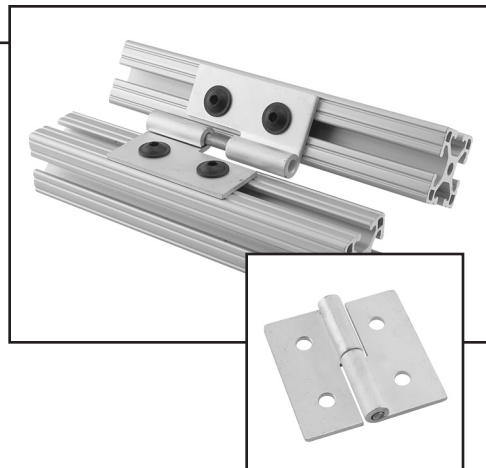
Part No.	Type	A	B	C	D	E	F	G	H	J	K	L	Capacity
2830 ✖	Left Hinge Short Pin	2.000	1.000	1.000	.469	.281 (4)	.500	.195	.187	.093	.063	.500	40 Lbs.
2831 ✖	Left Hinge Long Pin	2.000	1.000	1.000	.469	.281 (4)	.500	.195	.187	.093	.063	1.000	40 Lbs.
2832	Left Hinge Short Pin	3.000	1.500	1.500	.812	.328 (4)	.750	.250	.255	.120	.120	.750	70 Lbs.
2833	Left Hinge Long Pin	3.000	1.500	1.500	.812	.328 (4)	.750	.250	.255	.120	.120	1.500	70 Lbs.
2835 ✖	Left Hinge Assembly	–	–	–	–	–	–	–	–	–	–	–	–
2836	Left Hinge Assembly	–	–	–	–	–	–	–	–	–	–	–	–
2837 ✖	Right Hinge Short Pin	2.000	1.000	1.000	.469	.281 (4)	.500	.195	.187	.093	.063	.500	40 Lbs.
2838 ✖	Right Hinge Long Pin	2.000	1.000	1.000	.469	.281 (4)	.500	.195	.187	.093	.063	1.000	40 Lbs.
2839	Right Hinge Short Pin	3.000	1.500	1.500	.812	.328 (4)	.750	.250	.255	.120	.120	.750	70 Lbs.
2840	Right Hinge Long Pin	3.000	1.500	1.500	.812	.328 (4)	.750	.250	.255	.120	.120	1.500	70 Lbs.
2841 ✖	Right Hinge Assembly	–	–	–	–	–	–	–	–	–	–	–	–
2842	Right Hinge Assembly	–	–	–	–	–	–	–	–	–	–	–	–

Note: Hinge assemblies include (2) hinges, one long pin, and one short pin.

✖ = 10 Series Compatible Part

Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Bolt Kit No.	Lift-Off Hinge Part No.											
	2830	2831	2832	2833	2835	2836	2837	2838	2839	2840	2841	2842
3386 ✖	4	4	–	–	8	–	4	4	–	–	8	–
3319	–	–	4	4	–	8	–	–	4	4	–	8

Fractional

Plastic Lift-Off Hinges
Fiberglass-Reinforced Black Nylon w/Stainless Steel Pin
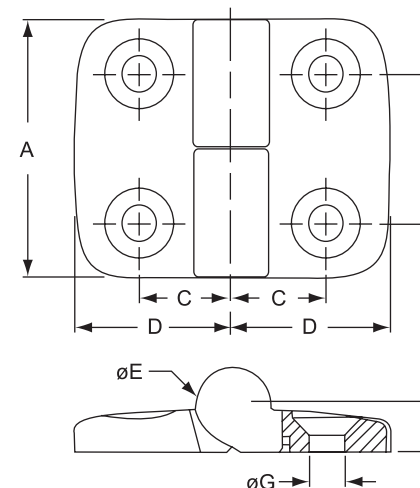
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description	Hinge Part No.	Location
3419	2	1/4-20 x 1/2 FHSCS & Slide-In T-nut	12101-12105	T-slot
3409	2	1/4-20 x 5/8 FHSCS & Drop-In T-nut	12119-12132	T-slot
3417	2	1/4-20 x 3/4 FHSCS, Hex Nut & Washer	All	1/4" Panel

Part No.	Slot Tab	Position	A	B	C	D	E	F	G	Max. Load	Lbs.	Compatibility Code*
12101	None	Left	1.890	1.102	.590	1.024	.551	.354	.260	18 ft-Lbs.	.07	6-10
12102	.236	Left										
12104	None	Right										6-25
12105	.236	Right										
12119	None	Left			.787	1.397				25 ft-Lbs.	.08	8-15*
12120	.315	Left										
12122	None	Right										
12123	.315	Right										
12128	None	Left			.886	1.515					.09	8-15
12129	.315	Left										
12131	None	Right										8-40
12132	.315	Right										

* Gap between profiles is 1.9mm. See Introduction to Hinges on pages 352-353.

* See Compatibility Code information on page 351.

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Fractional

Plastic Lift-Off Hinges
Fiberglass-Reinforced Nylon, Black w/Stainless Steel Pin
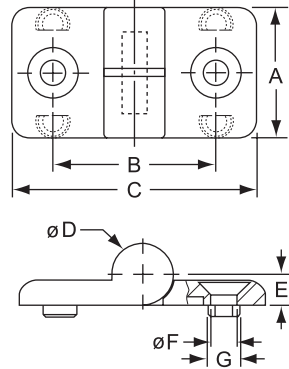
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description	Location
3409	2	1/4-20 x 5/8 FHSCS & Drop-In T-nut	T-slot

Part No.	A	B	C	D	E	F	G (Slot Tab)	Position	Max. Load	Lbs.	Compatibility Code*
12072	1.260	1.575	2.362	.590	.295	.252	.315	Left	20 ft-Lbs.	.05	8-15**
12073								Right			

** Gap between profiles is 1.9mm. See Hinge Tips on pages 1002-1003

Plastic Double Lift-Off Hinge
Fiberglass-Reinforced Nylon, Black w/Stainless Steel Pin
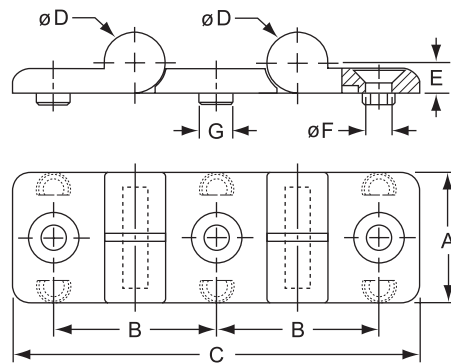
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description	Location
3409	2	1/4-20 x 5/8 FHSCS & Drop-In T-nut	T-slot

Part No.	A	B	C	D	E	F	G (Slot Tab)	Max. Load	Lbs.	Compatibility Code*
12071	1.260	1.575	3.937	.590	.295	.252	.315	20 ft-Lbs.	.08	8-15**

** Gap between profiles is 1.9mm. Introduction to Hinges on pages 352-353.

* See Compatibility Code information on page 351.

Lift-Off Hinge
Stainless Steel, Right or Left Position
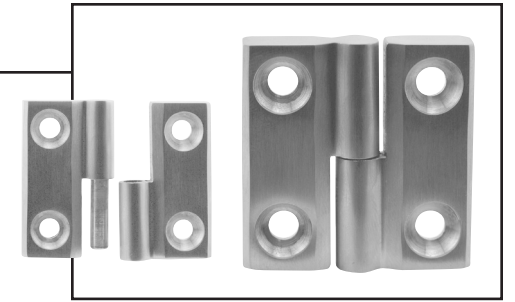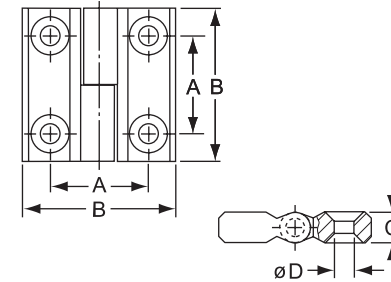
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description
3648	4	1/4-20 x 5/8" FHSCS & Roll-In T-nut

Part No.	A	B	C	D	Max. Load	Lbs.	Compatibility Code*
12095	1.260	1.968	.394	.252	221.0 ft-Lbs.	.34	6-10, 6-25

Standard 2-D Hinge
Die-Cast Zinc, Black Powder Coat, Adjustable Mount

12068　**12069**　**12070**
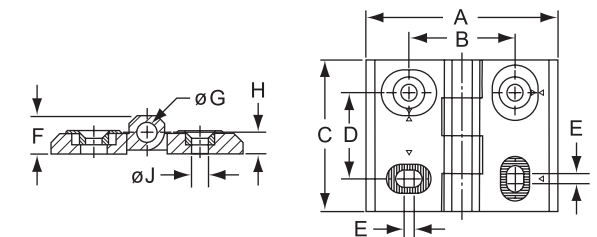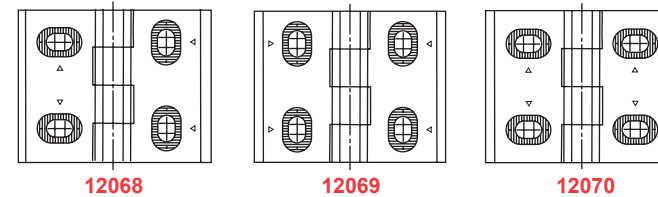
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description
3407	4	1/4-20 x 3/4" FHSCS & Drop-In T-nut

Part No.	Adjustable	A	B	C	D	E	F	G	H	J	Max. Load	Lbs.	Compatibility Code*
12068	Vert. & Horiz.	2.99	1.653	2.362	1.338	.157	.590	.315	.335	.260	221 ft-Lbs.	0.42	8-15
12069	Vert. Only												8-40
12070	Horiz. Only												

* See Compatibility Code information on page 351.

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Fractional

Adjustable Hinges

- **10 and 15 Series compatible**
- **Body made of black acetal with clear polycarbonate hinge pins**
- **Durable yet economical, allows you to adjust pivot tension**
- **Hinges mount plastic panels and lightweight doors to T-slotted profiles**
- **See page 597 for panel machining details**
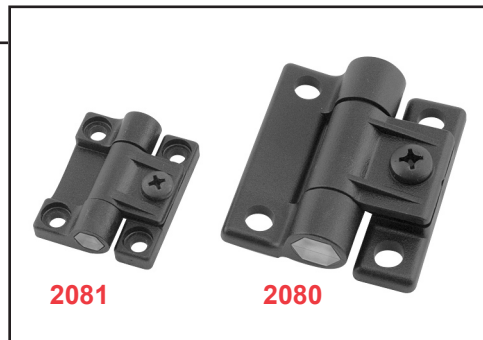
2081   **2080**

Note: These hinges are not suitable for hinging T-slotted profiles together.

Fixed Leaf

Hinge Pin

Adjusting Tension Screw

Adjustable Leaf

K
Drill Thru (4)
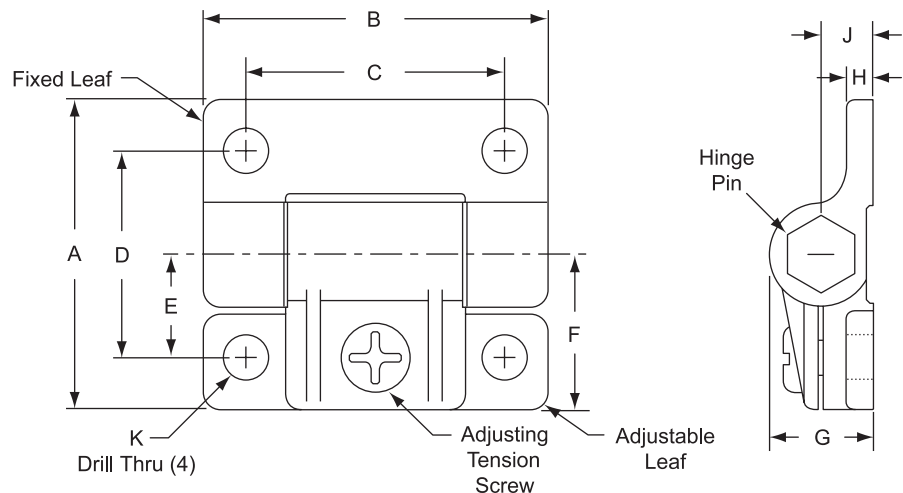
Part No.	A	B	C	D	E	F	G	H	J	K	Lbs.
2081 ⌘	1.440	1.690	1.250	1.000	.500	.720	.500	.230	.270	.197	.030
2080	2.250	2.500	1.880	1.500	.750	1.125	.770	.200	.410	.328	.100

⌘ = 10 Series Compatible Part

Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description
3457 ⌘	2	10-32 x $^3/_8$" SHCS & Economy T-Nut
3365	2	$^5/_{16}$-18 x $^5/_8$" BHSCS & Economy T-Nut

Recommended Bolt Assembllies Per Leaf (Hinge to 1/4" Panel):

Part No.	Qty	Description
3459 ⌘	2	10-32 x $^3/_8$" SHCS & Hex Nut
3442	2	$^5/_{16}$-18 x $^3/_4$" BHSCS & Hex Nut

Adjustable Hinge Strength Guidelines

	2080	2081
Ultimate Tensil	896 Lbs.	375 Lbs.
Ultimate Tensil	670 Lbs.	286 Lbs.
Ultimate Shear	417 Lbs.	182 Lbs.

Detent Hinges

- **10 and 15 Series compatible**
- **Hold doors closed and open at 120° and 170° for hands-free access**
- **Snap-on cover hides mounting hardware**
- **Aluminum door stop block with mounting hardware included**
- **See page 597 for panel machining service**

2071

2091

Note: These hinges are not suitable for hinging T-slotted profiles together.

10 Series Detent Hinge
(.188 Drill Thru Required For Panels)
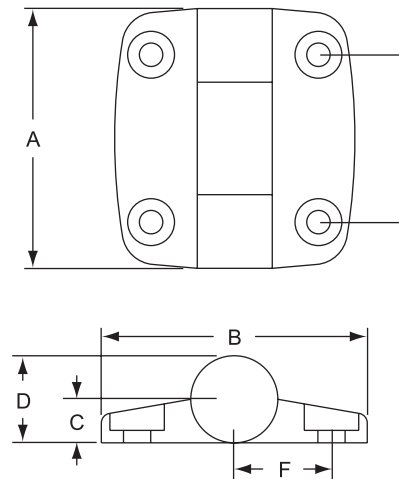
15 Series Detent Hinge
(.250 Drill Thru Required For Panels)
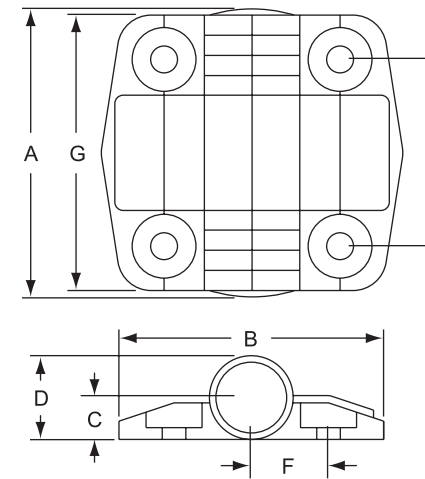
Part No.	A	B	C	D	E	F	G	Lbs.
2071 ⌘	1.940	1.710	.280	.550	1.250	.500	–	.090
2091	2.050	2.240	.410	.730	1.340	.670	1.970	.140

⌘ = 10 Series Compatible Part

Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description
3483 ⌘	2	8-32 x $^3/_8$" BHSCS & Economy T-Nut
3487	2	10-32 x $^1/_2$" BHSCS & Economy T-Nut

Recommended Bolt Assembllies Per Leaf (Hinge to 1/4" Panel):

Part No.	Qty	Description
3489 ⌘	2	8-32 x $^1/_2$" BHSCS & Hex Nut
3488	2	10-32 x $^5/_8$" BHSCS & Hex Nut

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Detent Positioning Hinges
**Fiberglass-Reinforced Black Nylon
w/Cover Caps & Die-Cast Zinc Pin**

- **Detent at 0°,
  85° or 175°**
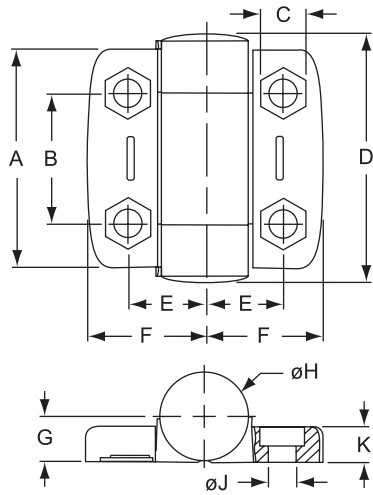
Aluminum Hinges

- **10 and 15 Series compatible**
- **Part No. 2084 transitions from 10 to 15 Series**
- **Clear anodize finish**
- **10 Series maximum load capacity is 40 lbs.
  15 Series maximum load capacity is 75 lbs.**
- **Mount heavier doors or even two profiles side
  by side**

Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description	Hinge Part No.	Location
3418	2	1/4-20 x 5/8" BHSCS & Econ. T-nut	12326-12327	T-Slot
3469	2	1/4-20 x 3/4" BHSCS, Hex Nut & Washer		1/4" Panel

Part No.	Slot Tab	A	B	C	D	E	F	G	H	J	K	Max. Load	Lbs.	Compatibility Code*
12326	None	2.205	1.417	.402	2.480	.699	1.447	.413	.787	.252	.315	14.7 ft-Lbs.	0.21	8-15, 8-40
12327	.315													
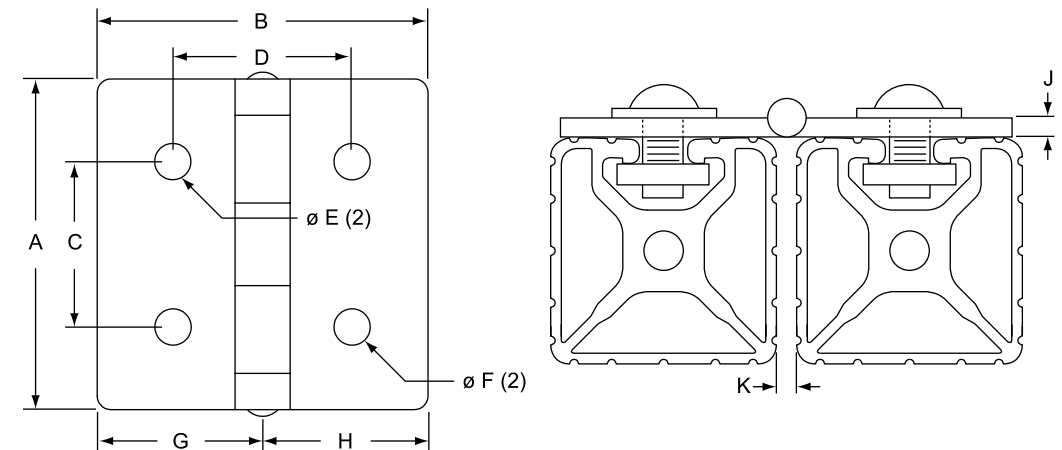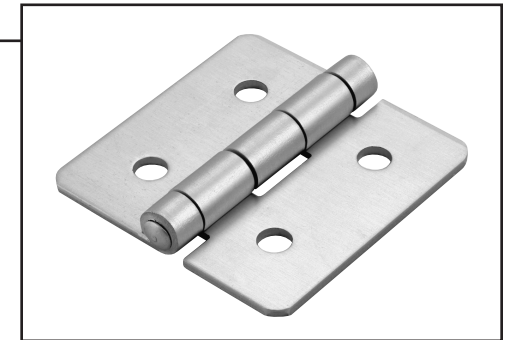
Part No.	A	B	C	D	E	F	G	H	J	K	Capacity	Lbs.
2086 ✕	2.000	2.000	1.000	1.063	.257 (2)	.257 (2)	1.000	1.000	.078	.063	40 Lbs.	.055
2085	3.000	3.000	1.500	1.625	.328 (2)	.328 (2)	1.500	1.500	.125	.125	70 Lbs.	.170
2084 ✕	3.000	2.500	1.500	1.375	.328 (2)	.257 (2)	1.500	1.000	.125	.125	75 Lbs.	.150

✕ = 10 Series Compatible Part

Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

	Hinge Part No.		
Bolt Kit No.	2086	2085	2084
3386 ✕	4	–	2
3319	–	4	2

* See Compatibility Code information on page 351.

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Panels & Doors (left margin)
Panels & Doors (right margin)

Plastic Standard Hinges
Fiberglass-Reinforced Black Nylon w/Stainless Steel Pin
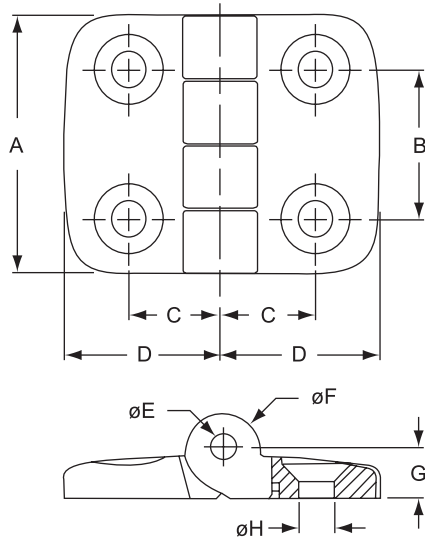
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description	Hinge Part No.	Location
3419	2	1/4-20 x 1/2 FHSCS & Slide-In T-nut	12098-12099	T-slot
3417	2	1/4-20 x 3/4 FHSCS, Hex Nut & Washer		1/4" Panel
3409	2	1/4-20 x 5/8 FHSCS & Drop-In T-nut	12116-12126	T-slot
3417	2	1/4-20 x 3/4 FHSCS, Hex Nut & Washer		1/4" Panel

Part No.	Slot Tab	A	B	C	D	E	F	G	H	Max. Load	Lbs.	Compatibility Code*
12098	None	1.890	1.102	.590	1.024	.236	.551	.354	.260	22 ft-Lbs.	.07	6-10, 6-25
12099	.236											
12116	None			.787	1.398					25 ft-Lbs.	.09	8-15*
12117	.315											
12125	None			.886	1.516					30 ft-Lbs.	.10	8-15, 8-40
12126	.315											

* Gap between profiles is 1.9mm. Introduction to Hinges on pages 352-353.

* See Compatibility Code information on page 351.

Plastic Standard Hinge
Fiberglass-Reinforced Nylon, Black w/Steel Pin
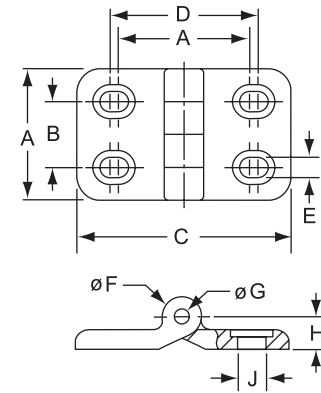
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description	Location
3418	2	1/4-20 x 5/8" BHSCS & Econ. T-nut	T-Slot
3469	2	1/4-20 x 3/4" BHSCS, Hex Nut & Washer	1/4" Panel

Part No.	A	B	C	D	E	F	G	H	J	Max. Load	Lbs.	Compatibility Code*
12254	1.575	.787	2.559	1.772	.244	.472	.157	.394	.342	12.5 ft-Lbs.	.02	8-15, 8-40

Plastic Standard Hinge
Fiberglass-Reinforced Black Nylon w/Cover Caps & Die-Cast Zinc Pin
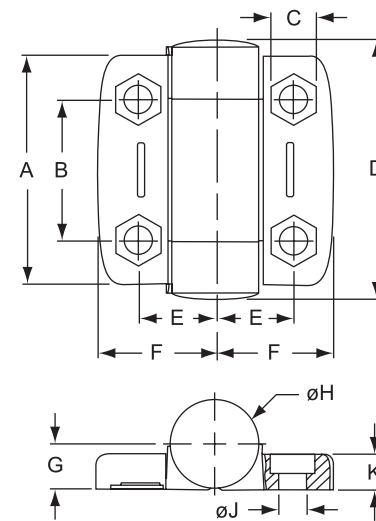
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description	Hinge Part No.	Location
3418	2	1/4-20 x 5/8" BHSCS & Econ. T-nut	12165-12166	T-Slot
3469	2	1/4-20 x 3/4" BHSCS, Hex Nut & Washer		1/4" Panel

Part No.	Slot Tab	A	B	C	D	E	F	G	H	J	K	Max. Load	Lbs.	Compatibility Code*
12165	None	2.205	1.417	.402	2.480	.895	1.447	.413	.787	.252	.315	14.7 ft-Lbs.	.11	8-15, 8-40
12166	.315													

* See Compatibility Code information on page 351.

366

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367

6 (left margin)
6 (right margin)

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Standard Hinge
Die-Cast Zinc, Black Powder Coat
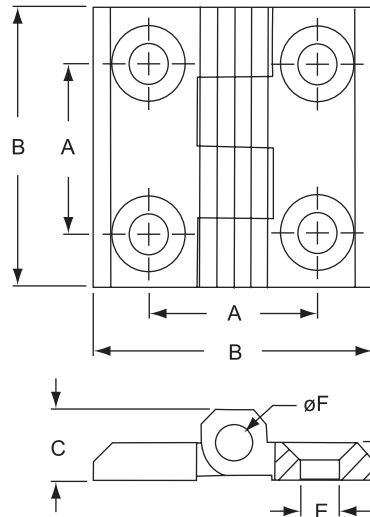
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description
3414	2	1/4-20 x 1/2" FHSCS & Econ. T-nut

Part No.	A	B	C	D	E	F	Max. Load	Lbs.	Compatibility Code*
12256	1.181	1.969	.453	.236	.244	.236	36.8 ft-Lbs.	.20	6-10, 6-25
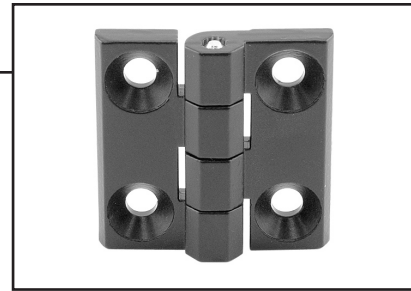
Standard Hinge
Stainless Steel, Plain Finish
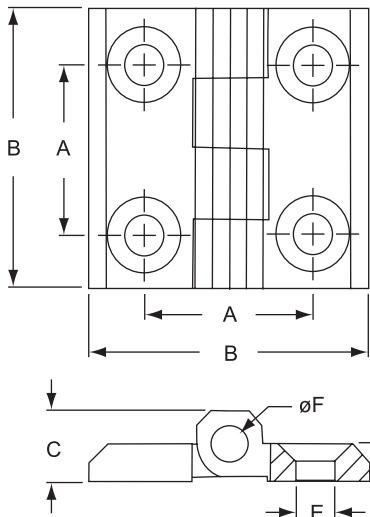
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description
3639	2	1/4-20 x 1/2" FHSCS & Std. T-nut

Part No.	A	B	C	D	E	F	Max. Load	Lbs.	Compatibility Code*
12094	1.181	1.969	.453	.236	.244	.236	36.8 ft-Lbs.	.21	6-10, 6-25
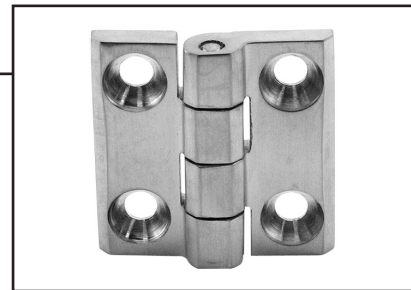
* See Compatibility Code information on page 351.

Combination Hinges

- **15 Series compatible**
- **Black powder-coated zinc die-cast hinge with stainless steel pin**
- **4488 features ratcheting clamp handle for locking hinge into position**
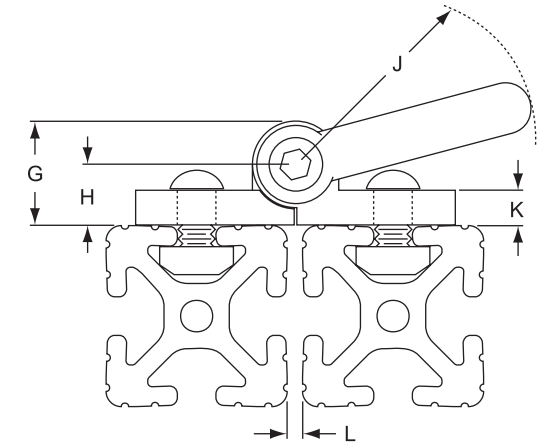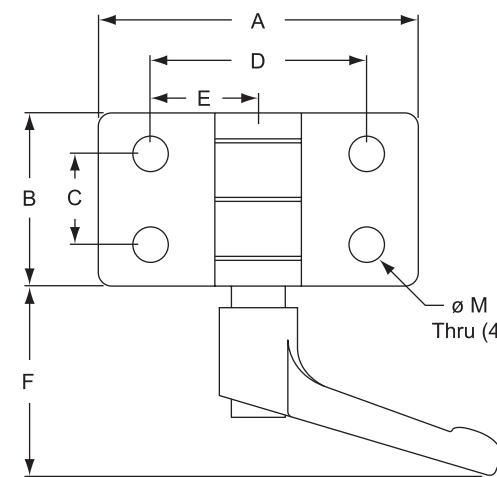
4489

4488

Part No.	A	B	C	D	E	F	G	H	J	K	L	M	Lbs.
4488	2.913	1.575	.827	1.772	.886	1.650	.954	.562	2.562	.312	.272	.323	.49
4489	2.913	1.575	.827	1.772	.886	N/A	.954	.562	N/A	.312	.272	.323	.42

Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description
3114	4	5/16-18 x 3/4" BHSCS
AND		
3203	4	5/16-18 Standard T-Nut

6

6

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Standard Hinges
Die-Cast Zinc, Black Powder Coat
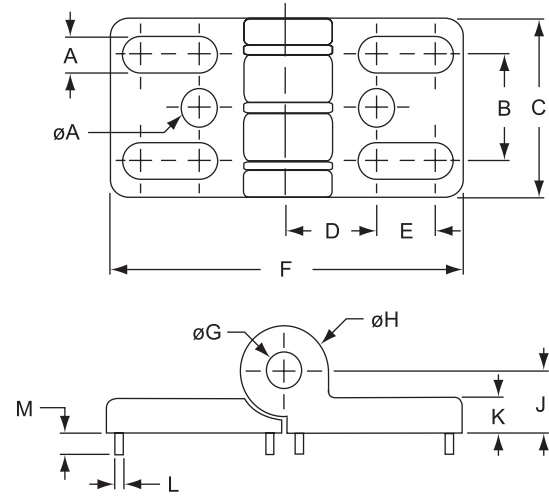
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description	Hinge Part No.
3455	4	5/16-18 x 3/4" SHCS & Econ. T-nut	12084, 12088

Part No.	Slot Tab	A	B	C	D	E	F	G	H	J	K	L	M	Max. Load	Lbs.	Compatibility Code*
12084	None	.327	.945	1.575	.787	.512	3.15	.315	.787	.551	.315	.071	.177	184 ft-Lbs.	.39	8-15, 8-40
12088	.315															

Standard Hinges with Locking Lever
Die-Cast Zinc, Black Powder Coat
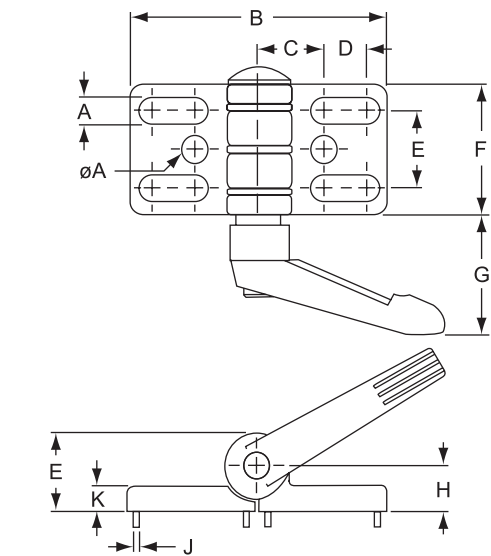
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description	Hinge Part No.
3455	4	5/16-18 x 3/4" SHCS & Econ. T-nut	12085, 12086

Part No.	Slot Tab	A	B	C	D	E	F	G	H	J	K	Max. Load	Lbs.	Compatibility Code*
12085	None	.327	3.15	.787	.512	.945	1.575	1.614	.551	.071	.177	184 ft-Lbs.	.43	8-15, 8-40
12086	.315													

* See Compatibility Code information on page 351.

Standard Panel Hinge
Steel, Black Powder Coat
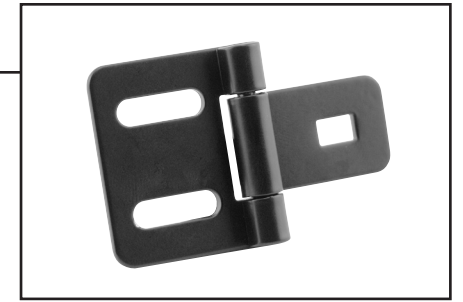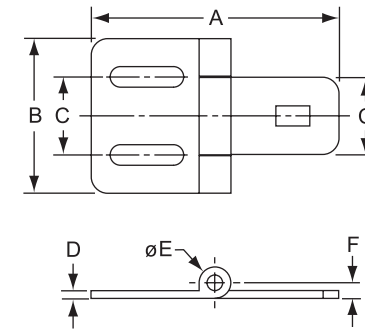
Recommended Bolt Assemblies Per Leaf (Hinge to 1/4" Panel):

Part No.	Qty	Description
N/A	1	M5 Screw, Nut & Washer Included

Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description
3487	2	10-32 x 1/2" BHSCS & Std. Slide-In T-nut

Part No.	A	B	C	D	E	F	Max. Load	Lbs.	Compatibility Code*
12097	2.520	.575	.787	.083	.323	.161	18.0 ft-Lbs.	.09	8-15

Standard Constant Friction Hinges
Die-Cast Zinc, Black Enamel
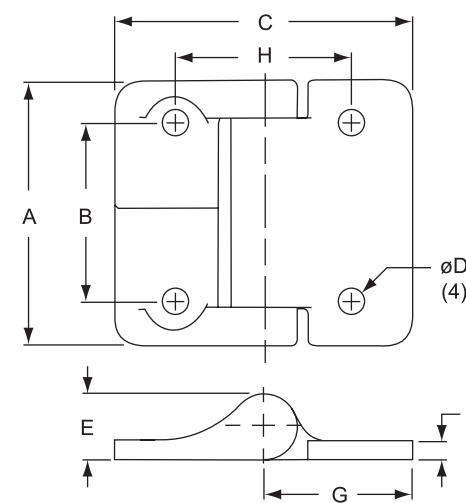
Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description	Location
3556	2	M4 x 10mm SHCS & Drop-In T-nut	To T-slot
3558	2	M4 x 16mm SHCS, Hex Nut & Washer	6mm Panel

Part No.	A	B	C	D	E	F	G	H	Max. Load	Friction Moment	Lbs.	Compatibility Code*
12079	1.496	.701	1.598	.177	.394	.118	.799	1.102	29.5 ft-Lbs.	0.7 ft-Lbs.	.09	6-10, 6-25
12080										1.3 ft-Lbs.		

* See Compatibility Code information on page 351.

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Glass Panel Holders

- **10 and 15 Series compatible**
- **4491 includes (2) M5 x 12 SHCS, for mounting to 4490 glass panel clamp**
- **Zinc Die-Cast with a gray powder-coated finish**
- **Fasten plastic panels from .078" to .393" thick**
- **Use 4490 and 4491 together for frameless plastic panel corner**

4490

4490 Glass Panel Clamp

H Drill Thru
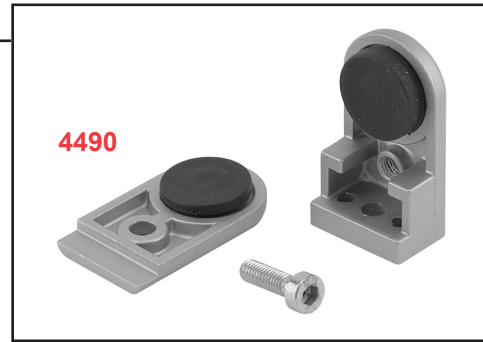
4491 Panel Clamp 90º Corner

N Tap
.375" Deep
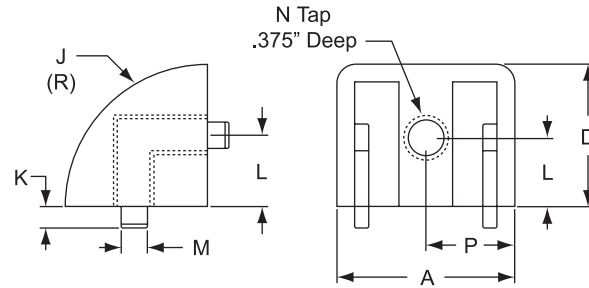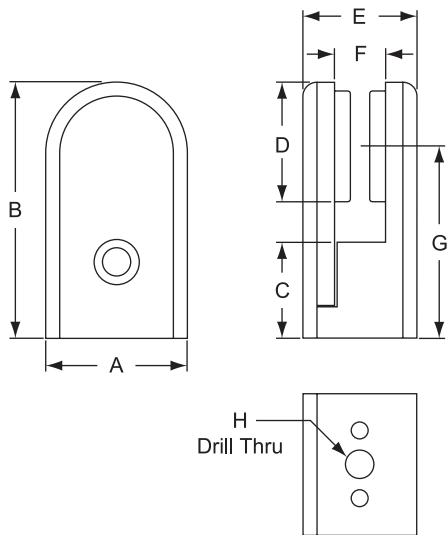
4491

Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Lbs.
4490	.980	1.760	.670	.790	.820	.354	1.280	.214	-	-	-	-	-	-	.148
4491	.980	-	-	-	-	-	-	-	.790	.118	.395	.156	M5	.490	.076

Recommended 10 Series Hardware (Mount 4490 To Profile):

Part No.	Qty	Description
3050	1	10-32 x 1/2" BHSCS
AND		
3205	1	10-32 Standard T-Nut

Recommended 15 Series Hardware (Mount 4490 To Profile):

Part No.	Qty	Description
3051	1	10-32 x 5/8" BHSCS
AND		
3201	1	10-32 Standard T-Nut
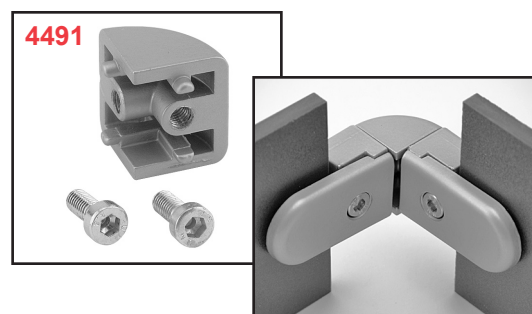
Plastic Door Handles

- **10 and 15 Series compatible**
- **Made of high strength black or red polycarbonate, making the handle light yet durable**
- **Corrosion-resistant material will stand up to outdoor weather**
- **Lightweight handle bolts directly onto T-slotted profiles or plastic panels**
- **See page 598 for panel machining service**

F
Drill Thru
& Counterbore
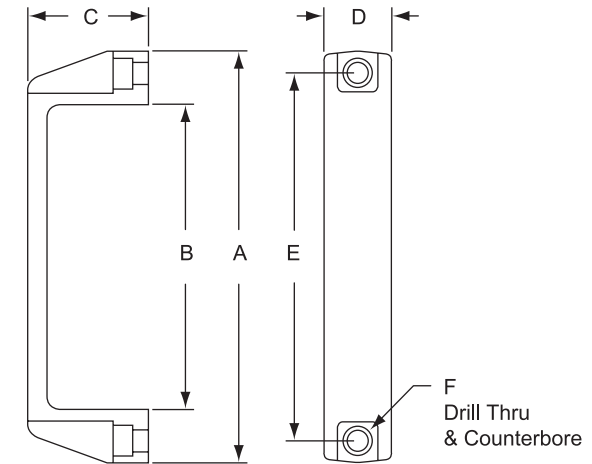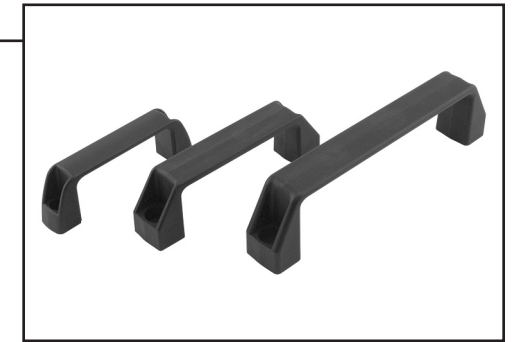
Part No.	Size	Color	A	B	C	D	E	F	Lbs.	Compatibility Code*
2060	Large	Black	7.750	6.020	2.000	1.100	7.050	5/16-18 SHCS (2)	.150	8-15, 8-40
2061	Medium	Black	5.470	3.690	1.630	1.020	4.600	5/16-18 SHCS (2)	.095	8-15, 8-40
2062 ⌗	Small	Black	4.410	2.950	1.420	.830	3.678	1/4-20 SHCS (2)	.055	6-10, 6-25
2880	Large	Red	7.750	6.020	2.000	1.100	7.050	5/16-18 SHCS (2)	.150	8-15, 8-40
2881	Medium	Red	5.470	3.690	1.630	1.020	4.600	5/16-18 SHCS (2)	.095	8-15, 8-40
2882 ⌗	Small	Red	4.410	2.950	1.420	.830	3.678	1/4-20 SHCS (2)	.055	6-10, 6-25

⌗ = 10 Series Compatible Part

Recommended Mounting Hardware (Mount to Profile):

Part No.	Qty	Description
3491 ⌗	2	1/4-20 x 1/2" SHCS & Economy T-Nut
3455	2	5/16-18 x 3/4" SHCS & Economy T-Nut

Recommended Mounting Hardware (Mount to 1/4" Panel):

Part No.	Qty	Description
3315 ⌗	2	1/4-20 x 7/8" SHCS w/ Washer & Hex Nut
3473	2	5/16-18 x 1" SHCS w/ Washer & Hex Nut

* See Compatibility Code information on page 351.

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Aluminum Cabinet Handles

- **This 15 Series compatible part is available in two sizes**
- **Rigid, drawn aluminum design creates a smooth shape and durable finish**
- **Available in black or natural tumble finish**

C, E, D, B, A, ø F, H, G

Drill Thru & Counterbore
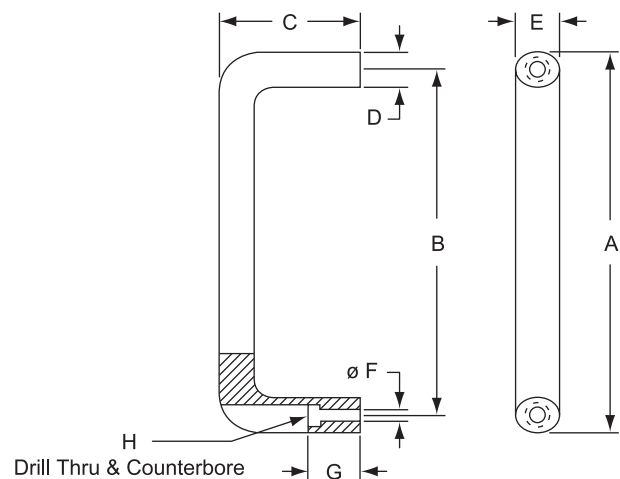
Part No.	Finish	A	B	C	D	E	F	G	H	Lbs.
2884	Black	5.080	4.570	2.090	.670	1.020	.252	.670	M6 SHCS	.344
2885	Natural	5.080	4.570	2.090	.670	1.020	.252	.670	M6 SHCS	.344
2886	Black	6.970	6.460	2.240	.670	1.020	.252	.670	M6 SHCS	.447
2887	Natural	6.970	6.460	2.240	.670	1.020	.252	.670	M6 SHCS	.447

Recommended Mounting Hardware (Mount to Profile):

Part No.	Qty	Description
3035	2	M6 x 20mm SHCS & Economy T-Nut

Offset Handle

- **10 and 15 Series compatible**
- **All mounting hardware included – Part No. 3065 (2), 3063 (2), and 3382 (2)**
- **Corrosion-resistant handles made of fiber reinforced technopolymer**
- **Bolt directly onto T-slotted profiles – ideal for bi-fold doors**
- **One side is solid, preventing finger-pinch injuries**
- **Orange snap-on cover hides mounting screws**

Snap On Cover

G, 15º, E, F, H, C, B, A, D
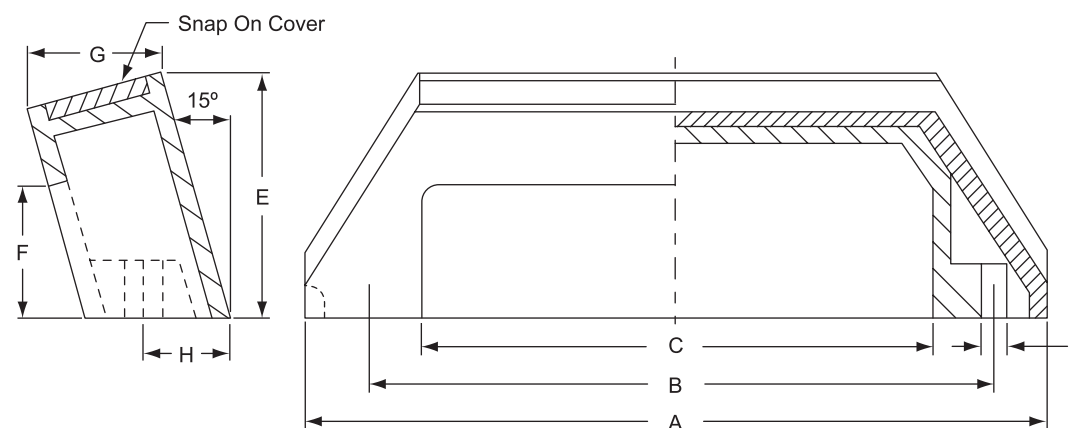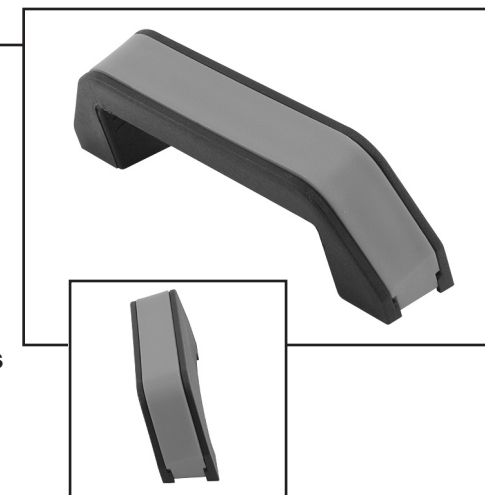
Part No.	A	B	C	D	E	F	G	H	Lbs.
2079	5.120	4.290	3.460	ø.256	1.730	.940	.953	.585	.210

80/20® Inc.
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Fractional

Flush Handles

- Two sizes available
- Mounts in panels 1/4" or less thick
- All mounting hardware included
- Housings made of black polymer
- 2056 handle pull made of black polymer
- 2058 handle pull made of black powder-coated aluminum
- See page 596 for panel machining service

2056   **2058**
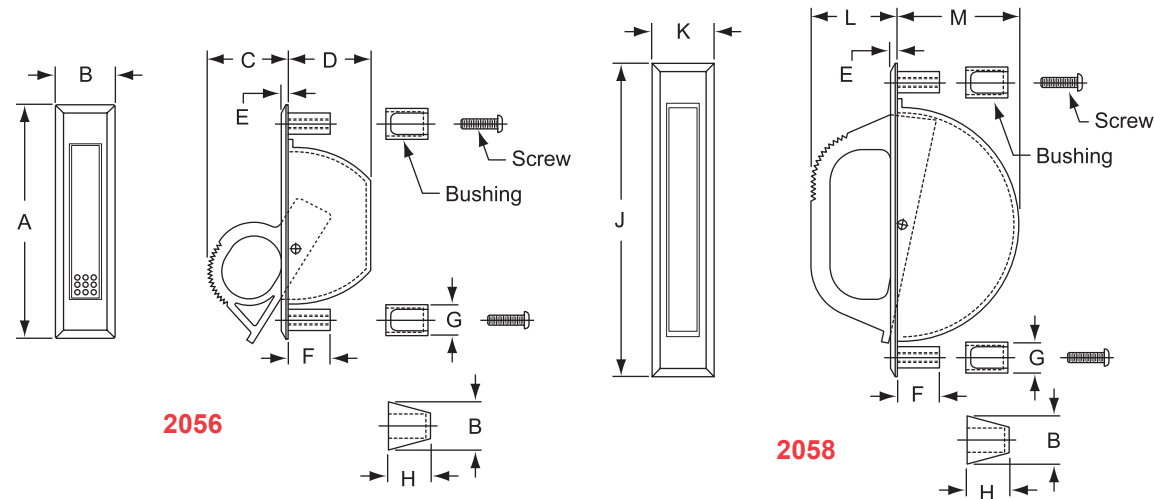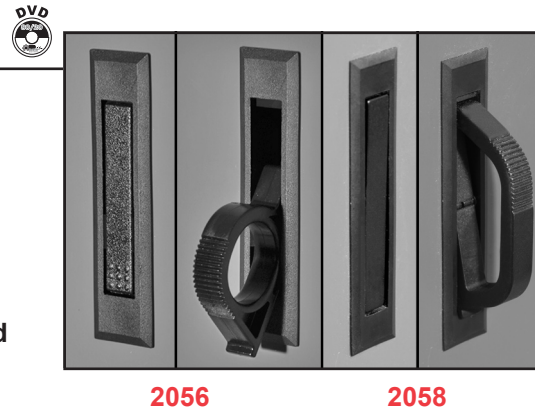
2056

2058

Part No.	Size	A	B	C	D	E	F	G	H	J	K	L	M	Lbs.
2056	Small	3.190	.810	1.340	1.120	.090	.560	.410	.670	–	–	–	–	.095
2058	Medium	–	.810	–	–	.090	.560	.410	.670	4.190	.820	1.160	1.620	.150

Steel Door Handle

- Bolts directly to plastic panels
- Compact size is ideal for low profile applications
- All mounting hardware included – (2) 8-32 x 1/2" BHSCS
- See page 599 for panel machining service

F Tap (2)
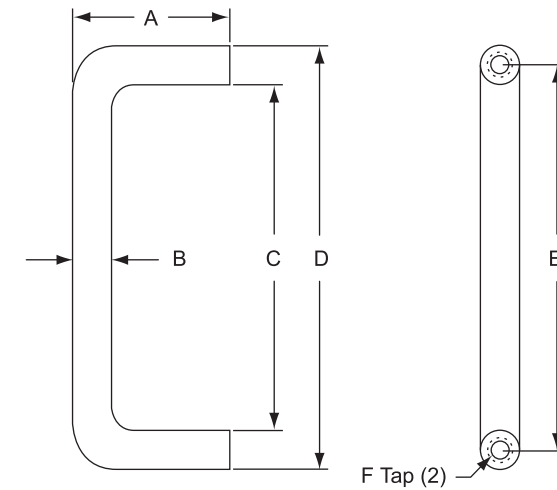
Part No.	A	B	C	D	E	F	Lbs.
2070	1.230	.310	2.690	3.300	3.000	8-32 x .50 Deep	.105

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Large Ergonomic Handle
Fiberglass-Reinforced Nylon, Black

• **Ergonomic design with finger protection**

• **Cover caps hide mounting screws**

Aluminum Panel Handles

• **This lightweight handle easily mounts directly onto the end of 1/4" thick plastic panels**

• **Made of 6105-T5 clear anodized aluminum**

• **Custom lengths available – see page 219**
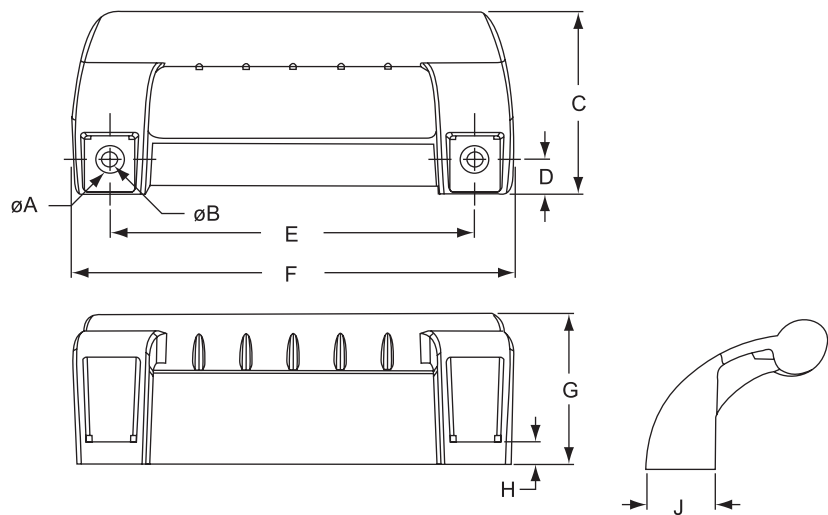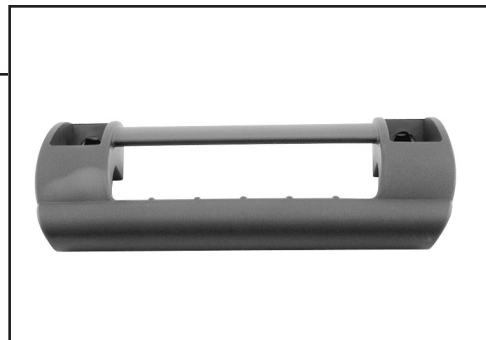
Part No.	A	B	C	D	E	F	G	H	J	Lbs.	Compatibility Code*
12000	.610	.343	3.937	.748	7.874	9.528	3.228	.492	1.496	.79	8-15

Recommended Mounting Hardware (Mount to Profile):

Part No.	Qty	Description
3452	2	5/16-18 x 5/8 SHCS & Econ. Slide-In T-nut
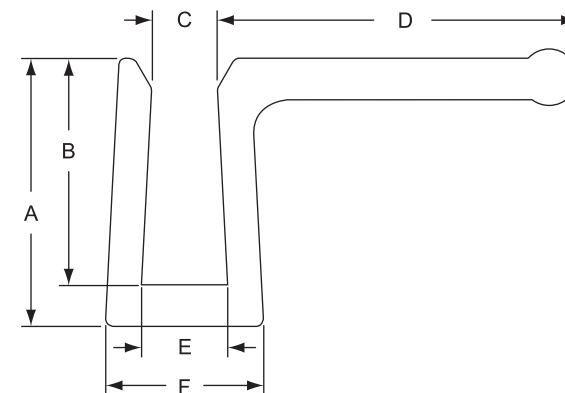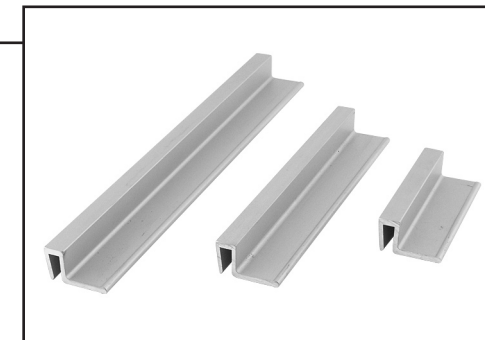
Part No.	Length	A	B	C	D	E	F	Lbs.
2780	3.000"	.710	.600	.181	.950	.240	.420	.075
2781	6.000"	.710	.600	.181	.950	.240	.420	.152
2782	9.000"	.710	.600	.181	.950	.240	.420	.228

* See Compatibility Code information on page 351.

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Locking Grabber Handle

- **Mounts to .075" to .275" plastic panels and can be opened from inside of the door**
- **This high strength black polycarbonate provides a slam action latch, handle, and lock in one unit**
- **Striker plate and all mounting hardware is included**
- **See page 595 for panel machining service**
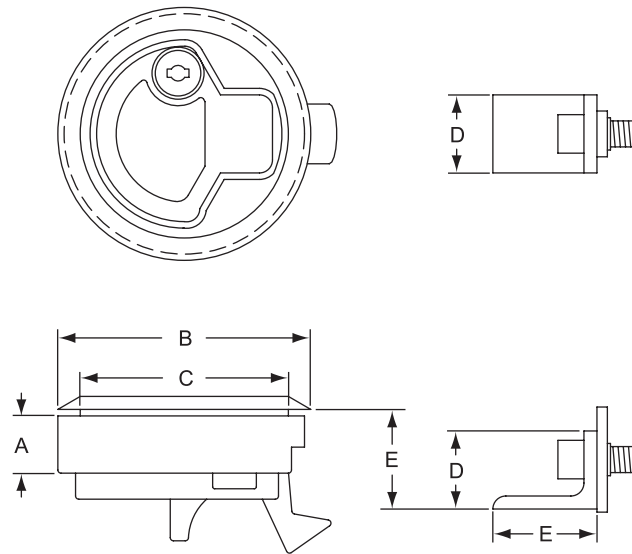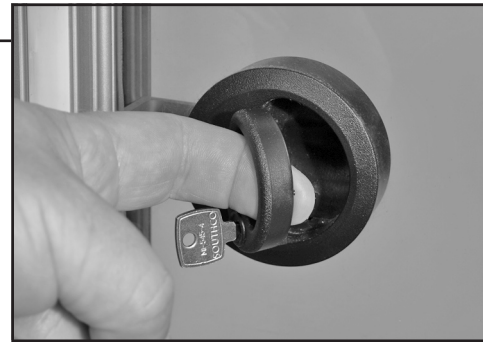
Part No.	A	B	C	D	E	Lbs.
2730	.550	2.410	1.960	.750	1.000	.120
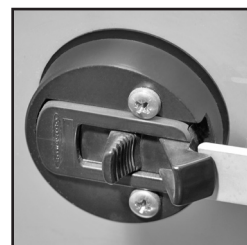
Fractional

Deluxe Door Handles

- **15 Series compatible**
- **Corrosion-resistant chrome finish**
- **All mounting hardware and pawl kit (2) 10-32 x 1.500" FHSCS included**
- **Ideal solution for cabinet and guarding applications**
- **Requires furniture door latch machining service on page 576**
- **Locking and non-locking versions listed below**

Nylon Washer
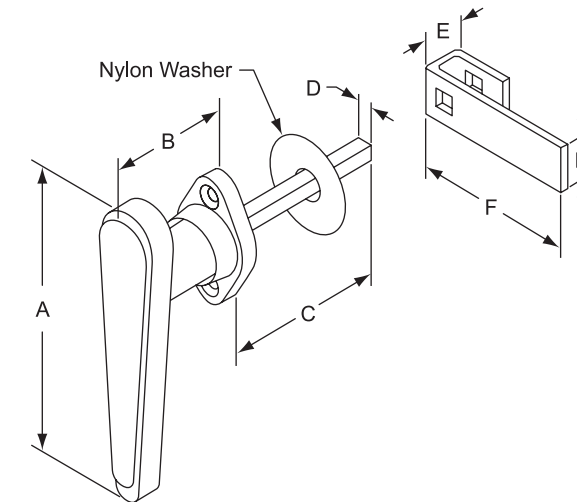
Part No.	Locking	A	B	C	D	E	F	Lbs.
2055	No	4.375	2.000	2.593	.312	.750	2.750	.685
2063	Yes	4.375	2.000	2.593	.312	.750	2.750	.685

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Furniture Handles

- **10 and 15 Series compatible**
- **Corrosion-resistant chrome-plated or matte black handles ideal for T-slot framed doors**
- **Allows for 90° of counter-clockwise rotation to latch door**
- **Requires furniture door latch machining service found on page 576**
- **Choose pawl kit that suits your needs – refer to page 383**

Furniture Handle Pawl Kits

- **10 Series Pawl Kits Include:**
  - **(2) M4 x 22mm SHCS**
  - **(1) 1.00" Nylon Washer**
- **15 Series & Standard Pawl Kits Include:**
  - **(2) M4 x 30mm SHCS**
  - **(1) 1.00" Nylon Washer**
- **Transition Pawl Kits Include:**
  - **(2) M4 x 22mm SHCS**
  - **(2) M4 x 30mm SHCS**
  - **(1) 1.00" Nylon Washer**
- **To order complete handle set, select handle type and desired pawl kit (list both on your order)**
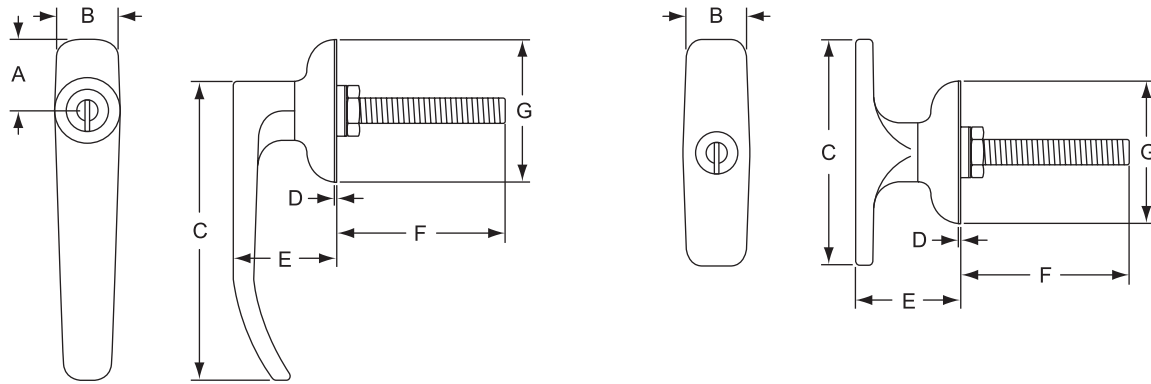
Part No.	Handle	Locking	Finish	Latching	A	B	C	D	E	F	G
2082	T	Yes	Chrome	Counter Clockwise	–	.980	3.310	.030	1.530	2.500	2.130
2083	T	No	Chrome		–	.980	3.310	.030	1.530	2.500	2.130
2087	L	Yes	Chrome		1.060	.980	4.430	.030	1.530	2.500	2.130
2089	L	No	Chrome		1.060	.980	4.430	.030	1.530	2.500	2.130
2952	T	Yes	Black		–	.980	3.310	.030	1.530	2.500	2.130
2953	T	No	Black		–	.980	3.310	.030	1.530	2.500	2.130
2957	L	Yes	Black		1.060	.980	4.430	.030	1.530	2.500	2.130
2959	L	No	Black		1.060	.980	4.430	.030	1.530	2.500	2.130
2932	T	Yes	Chrome	Clockwise	–	.980	3.310	.030	1.530	2.500	2.130
2933	T	No	Chrome		–	.980	3.310	.030	1.530	2.500	2.130
2937	L	Yes	Chrome		1.060	.980	4.430	.030	1.530	2.500	2.130
2939	L	No	Chrome		1.060	.980	4.430	.030	1.530	2.500	2.130
2922	T	Yes	Black		–	.980	3.310	.030	1.530	2.500	2.130
2923	T	No	Black		–	.980	3.310	.030	1.530	2.500	2.130
2927	L	Yes	Black		1.060	.980	4.430	.030	1.530	2.500	2.130
2929	L	No	Black		1.060	.980	4.430	.030	1.530	2.500	2.130

Pawl Kits:

Part No.	Type	A	B	C	D
2761 ⊠	10 Series	1.250	.500	.687	.750
2765	15 Series	1.750	.500	.687	.750
2763 ⊠	Transition	1.500	.500	.687	.750
2760	Standard	2.750	.500	.687	.750

⊠ = 10 Series Compatible Part

	Chrome				Black			
Counter Clockwise Latching	**2082** T-Handle Locking	**2083** T-Handle Non-Locking	**2087** L-Handle Locking	**2089** L-Handle Non-Locking	**2952** T-Handle Locking	**2953** T-Handle Non-Locking	**2957** L-Handle Locking	**2959** L-Handle Non-Locking
Clockwise Latching	**2932** T-Handle Locking	**2933** T-Handle Non-Locking	**2937** L-Handle Locking	**2939** L-Handle Non-Locking	**2922** T-Handle Locking	**2923** T-Handle Non-Locking	**2927** L-Handle Locking	**2929** L-Handle Non-Locking

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Slam Latch
Die-Cast Zinc, Black Powder Coat

- **Low-profile slam latch mounts to T-slot door and frame from the back**
- **Four M6 T-nuts (supplied) placed in slots on back of latch**
- **Four thru holes required. See page 572 for machining service information**
- **Call out machining service(s) and mounting bolts for the profile series you are using**
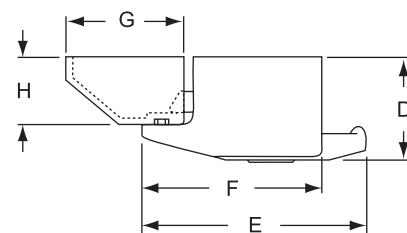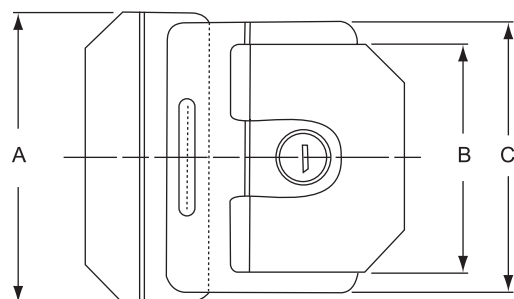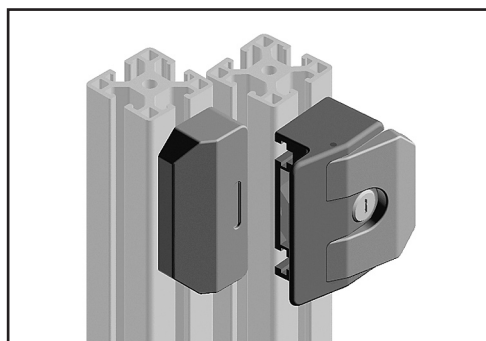
Part No.	Lock	A	B	C	D	E	F	G	H	Lbs.	Compatibility Code*
12090	keyed alike	3.150	2.539	2.953	1.181	2.598	2.087	1.378	.787	1.24	8-15, 8-40
12091	different key										
12092	without key										

* See Compatibility Code information on page 351.

Velcro® Latch

- **10 and 15 Series compatible**
- **All mounting hardware included – Part No. 3064 (2), 3068 (2) and 3382 (2)**
- **Velcro® fabric bonded to clear anodized aluminum body**
- **Plastic "hook" receptacle twists into T-slot**
- **Ideal for display, enclosure and light-duty doors where easy access is required**
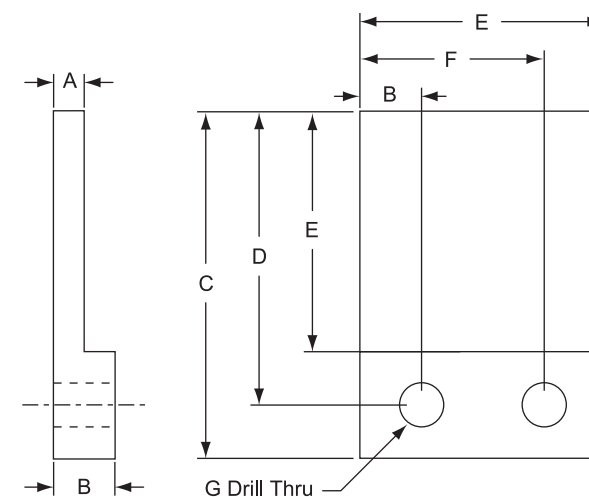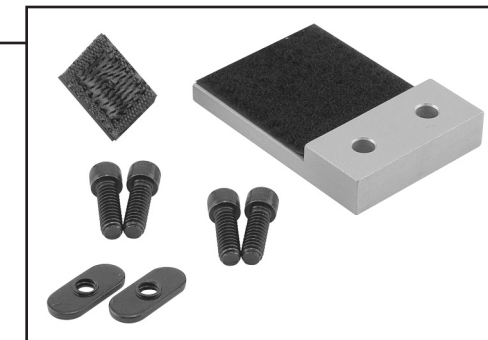
Part No.	A	B	C	D	E	F	G	Lbs.
2126	.250	.500	2.875	2.437	2.000	1.500	.257	.270

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Deadbolt Latch

- **10 and 15 Series compatible**

- **All mounting hardware included – Part No. 3062 (4) and 3382 (4)**

- **Clear anodized 6105-T5 aluminum body supports S/S bolt, spring, and ø.386 pin**

- **Positive spring-loaded deadbolt ideal for guarding and enclosure applications**
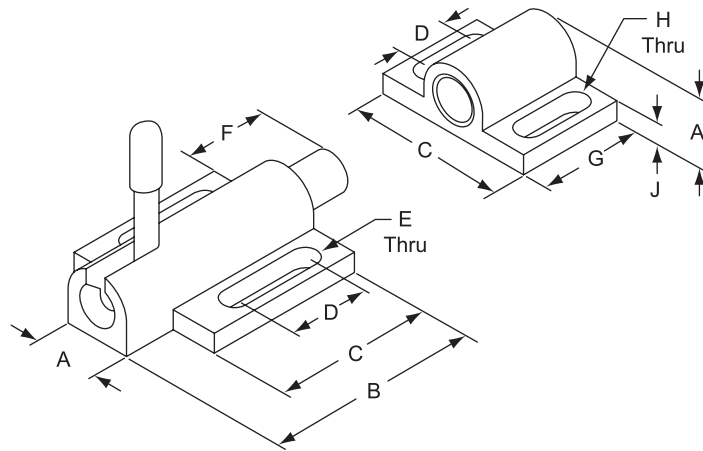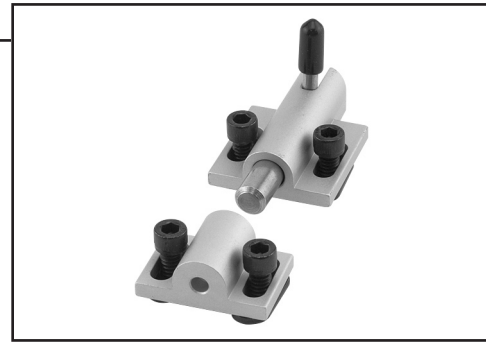
Part No.	A	B	C	D	E	F (Bolt Travel)	G	H	J	Lbs.
2053	.625	2.000	1.500	.500	.257	.550	1.000	.257	.187	.321

90º Deadbolt Latch

- **10 and 15 Series compatible**

- **All mounting hardware included – Part No. 3062 (4) and 3382 (4)**

- **Clear anodized 6105-T5 aluminum body supports S/S bolt, spring, and ø.386 pin**

- **Positive spring-loaded deadbolt ideal for guarding and enclosure applications**

- **Pin handle is positioned 90º to the side**
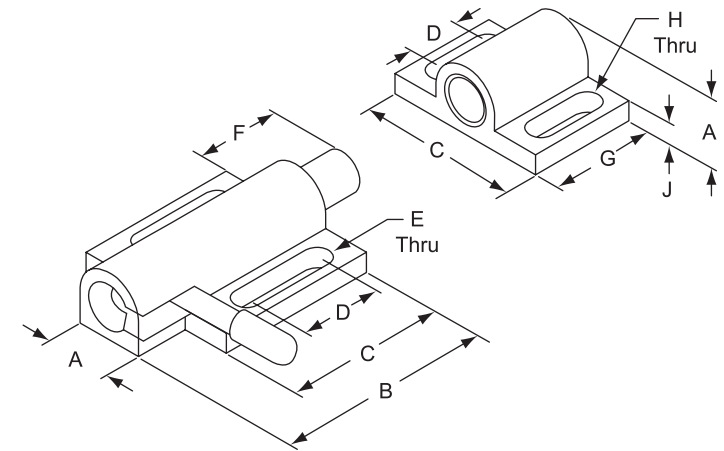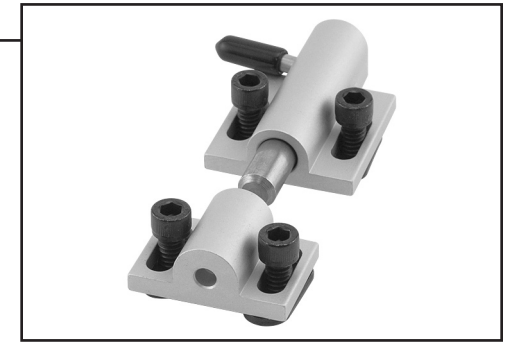
Part No.	A	B	C	D	E	F (Bolt Travel)	G	H	J	Lbs.
2107	.625	2.000	1.500	.500	.257	.550	1.000	.257	.187	.321

6

6

80/20® Inc.
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Fractional

Panels & Doors

Panels & Doors

Grabber™ Door Catch

- **10 and 15 Series compatible**
- **All mounting hardware to plate included – (4) 6-32 x .500" BHSCS**
- **Corrosion-resistant, black ABS catches available in three pull-up forces**
- **Spring-loaded over-center catch mounts inside enclosure – push to close, pull to open**
- **Mounts to T-slots with Grabber™ door catch mounting plates found on page 389**
- **See page 594 for panel machining service**
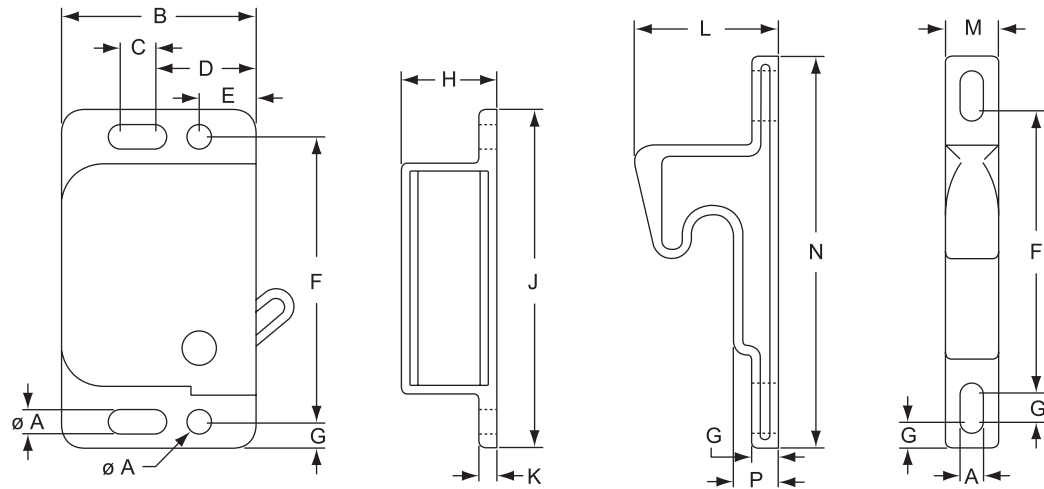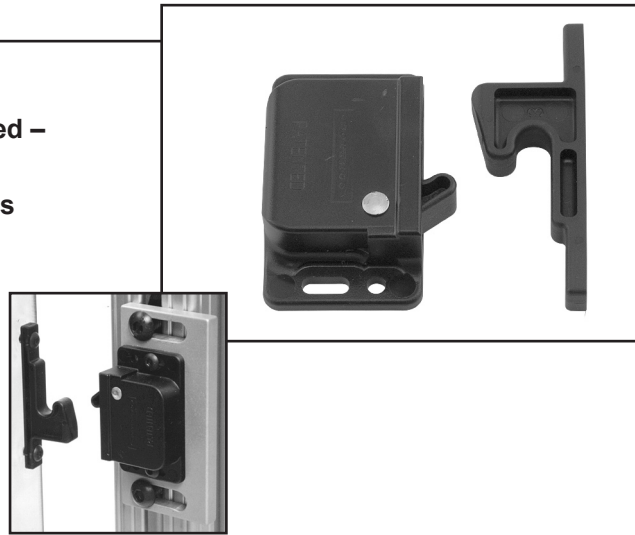
Catch

Keeper

Part No.	Pull Force	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Lbs.
2069	3 Lbs.	ø.130	1.110	.200	.570	.320	1.600	.150	.540	1.900	.100	.810	.300	2.200	.250	.030
2088	5 Lbs.	ø.130	1.110	.200	.570	.320	1.600	.150	.540	1.900	.100	.810	.300	2.200	.250	.035
2125	10 Lbs.	ø.130	1.110	.200	.570	.320	1.600	.150	.540	1.900	.100	.810	.300	2.200	.250	.035

Grabber™ Door Catch is a registered trademark of Southco, Inc.

Grabber™ Door Catch Mounting Plates

- **10 and 15 Series compatible**
- **Made of 1/4" 6105-T5 clear anodized aluminum**
- **Securely mounts Grabber™ door catch onto T-slotted profile**
- **Notching and drilling services required for mounting to plastic panels – see page 594**
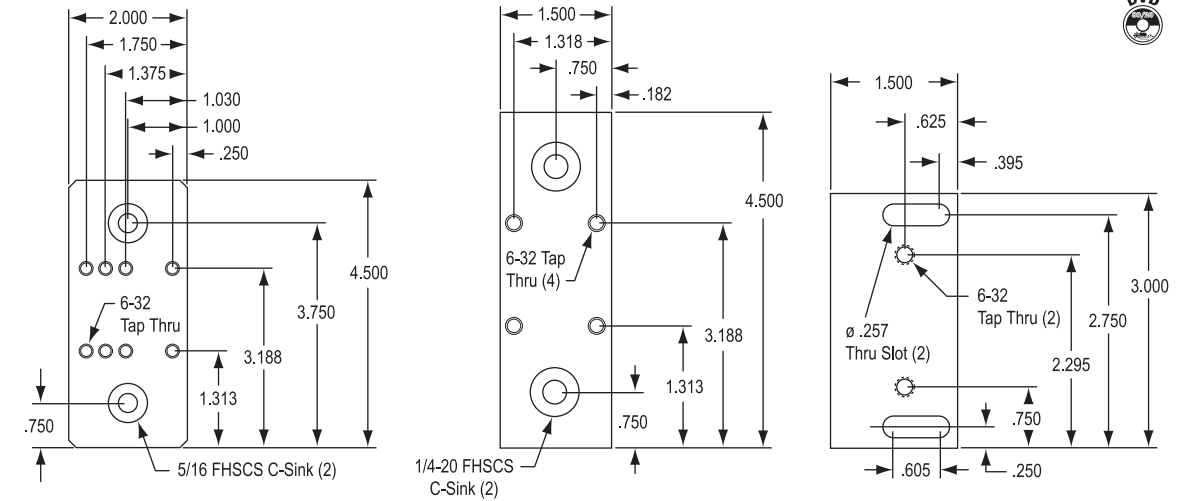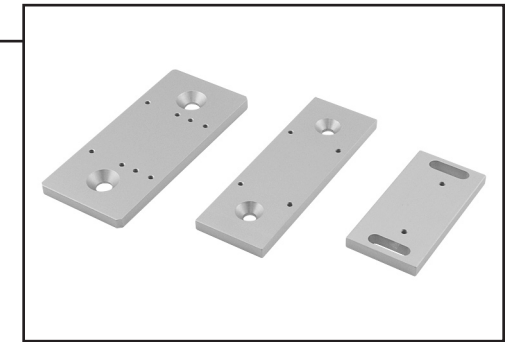
2121
Aligns keeper with Door Track P/N 2210 and 2220 shown on page 299. Mounts to 15 Series T-slots.

2122
Aligns keeper with Door Track P/N 2211 and 2221 shown on page 299. Mounts to 10 Series T-slots.

2123
Mounts catch to 10 or 15 Series T-slots. Provides adjustment for flush closure of hinged plastic panels up to 1/4" thick.

Part No.	Series	Plate Type	Lbs.
2121	15	Keeper Mount Plate	.204
2122 ⌗	10	Keeper Mount Plate	.152
2123 ⌗	10 & 15	Catch Mount Plate	.098

⌗ = 10 Series Compatible Part

Recommended Mounting Hardware:

	Mounting Plate Part No.			
Nut Type	2121	2122	2123	2123
Drop-In T-Nut	(2) 3413	(2) 3415	(2) 3372	(2) 3481
Econ T-Nut	(2) 3412	(2) 3414	(2) 3371	(2) 3321

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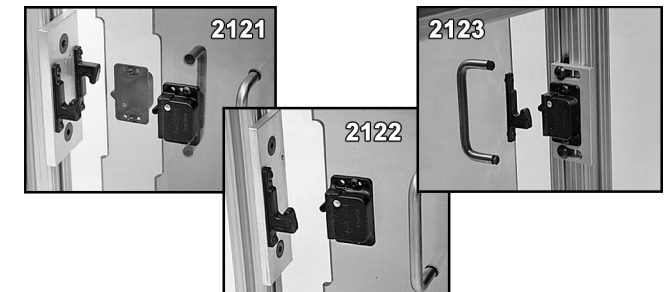
Magnetic Door Catch

- **10 and 15 Series compatible**
- **All required mounting hardware included**
- **Lightweight, ideal for latching plastic panels in place**
- **Tap required in panel for mounting striker plate; refer to page 604 (misc. panel machining)**

Nylon Magnetic Catch

- **10 and 15 Series compatible**
- **Quick latching method for lightweight plastic panel doors**
- **Made of molded black fiberglass-reinforced nylon**
- **Tap required in panel for mounting striker plate, refer to page 604 (misc. panel machining)**
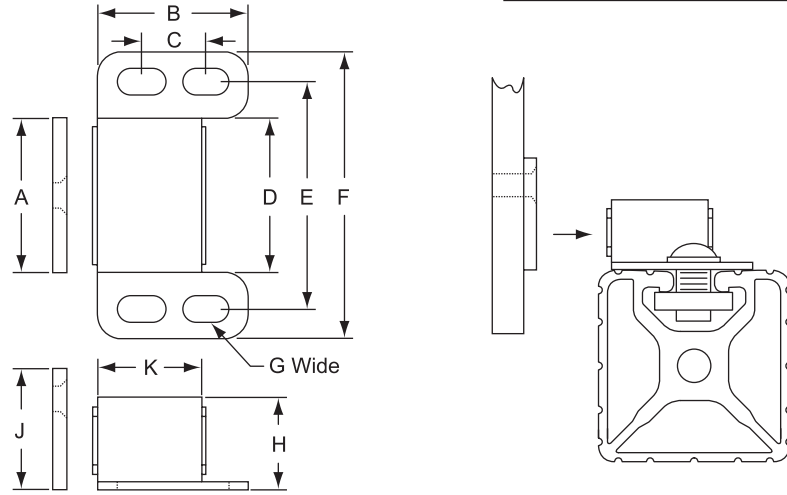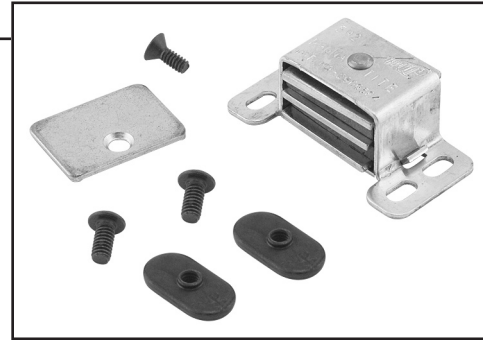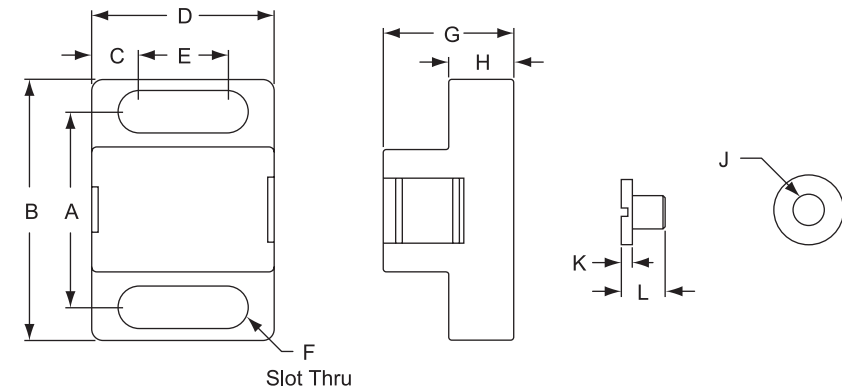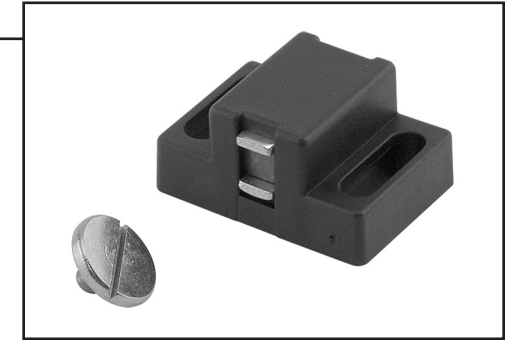
Part No.	A	B	C	D	E	F	G	H	J	K	Lbs.
2090	1.142	1.000	.650	1.224	1.673	2.087	.154	.720	.890	.909	.120

Magnetic Door Catch Bracket

- **10 and 15 Series compatible**
- **All mounting hardware is included – Part No. 3258 (2), 3061 (2), 3382 (2)**
- **Used for catching the magnet mounted to a T-slotted profile door**

F
Slot Thru

Recommended Mounting Hardware:

Part No.	Qty	Description
3493 ⊠	2	$^{1}/_{4}$-20 x $^{5}/_{8}$" SHCS & Economy T-Nut
3304	2	$^{1}/_{4}$-20 x $^{3}/_{4}$" SHCS & Economy T-Nut

⊠ = 10 Series Compatible Part

Part No.	A	B	C	D	E	F	G	H	J	K	L	Lbs.
4486	1.181	1.570	.285	1.102	.532	.255	.795	.393	M5 Thread	.093	.250	.070

Part No.	Description	Lbs.
2745	Magnetic Door Catch Bracket	.090

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Nylon Ball Catch

- **10 and 15 Series compatible**
- **Body of catch is made of molded black fiberglass-reinforced nylon**
- **Zinc-plated steel ball can latch into the top or front of catch**
- **Quick latching method for lightweight plastic panel doors**

Double Ball Catch
Fiberglass-Reinforced Nylon, Black

- **Stainless steel ball**
- **Locking force: 25 N (5.62 lb)**

Recommended Mounting Hardware Per Leaf (Hinge to T-Slot):

Part No.	Qty	Description
3483	2	M5 x 16mm SHCS, Washer & Drop-In T-nut

Part No.	A	B	C	D	E	F	G	H	J	Lbs.	Compatibility Code*
12019	2.913	2.244	.905	.590	1.457	1.142	1.850	.276	.630	.08	8-15, 8-40, 10-45

Slot Thru
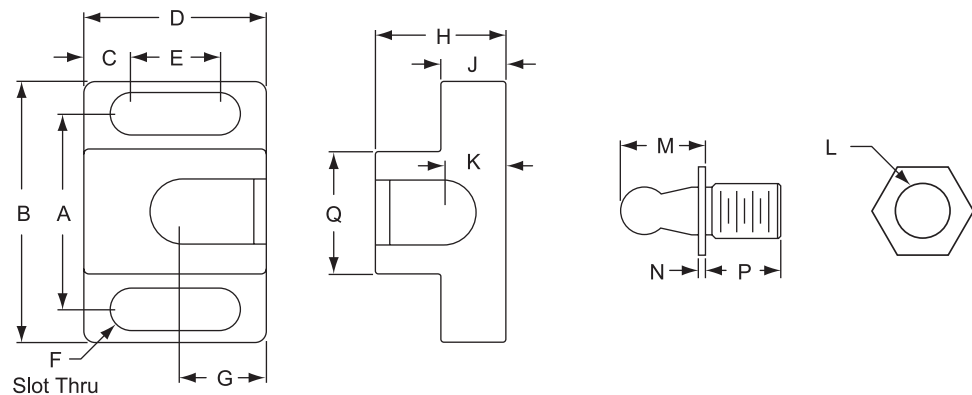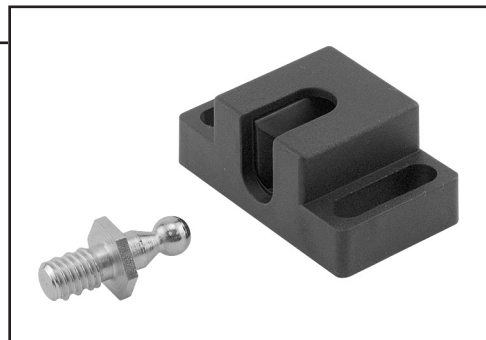
Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	Lbs.
4487	1.457	1.880	.236	1.102	.630	.255	.520	.787	.393	.354	M8 Thread	.641	.088	.472	1.023	.090

Recommended Mounting Hardware:

Part No.	Qty	Description
3493 ⌗	2	¹/₄-20 x ⁵/₈" SHCS & Economy T-Nut
3304	2	⁵/₁₆-18 x ³/₄" SHCS & Economy T-Nut

⌗ = 10 Series Compatible Part

* See Compatibility Code information on page 351.

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Fractional

Tension Ball Latch

- **15 Series compatible**
- **All mounting hardware included –
  (4) 1/4-20 x .500 SHCS & Economy T-Nut**
- **Latch and striker are zinc alloy with chrome finish; mounting plate is clear anodized aluminum**
- **Striker can enter adjustable latch from either front or side; latch tension adjusts with two spring-loaded screws**
- **Medium to heavy-duty latch for swinging or sliding door**

B
C
A
D
A
A
E
Slot Thru Typ
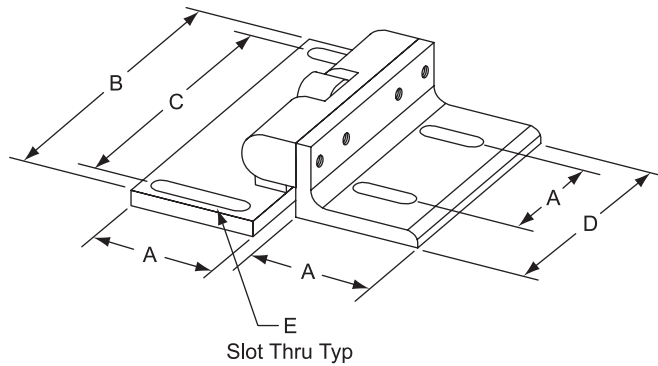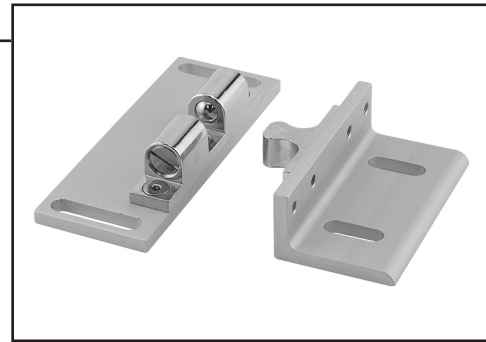
Part No.	Push In Force	Pulling Force	A	B	C	D	E	Lbs.
2134	9.400 Lbs.	7.200 Lbs.	1.500	4.000	3.500	2.760	.257	.446

Hinge Door Configuration

Min Gap = .060
Max Gap = .750

"Door"   "Frame"

.910

2.140
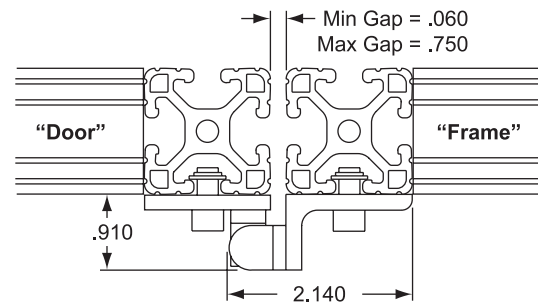
- **Mount latch to angle bracket**
- **Mount strike to flat plate**

Sliding Door Configuration

Min Gap = .000
Max Gap = .750

"Frame"   "Door"

.910

2.140
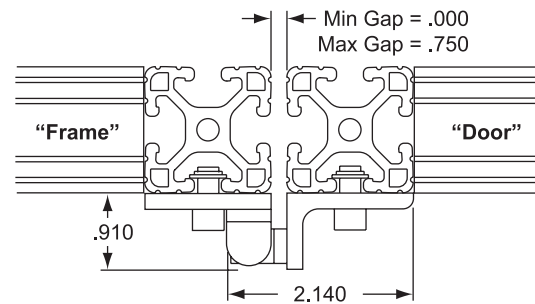
- **Mount latch to flat bracket**
- **Mount strike to angle plate**

Sliding Door Lock

- **Locks 1/4" thick sliding panels when used with sliding door track shown on page 401**
- **Economical security lock ideal for storage or display cases**
- **Attractive chrome finish**

A
B (Minimum)
C (Maximum)
D
Panel
E
Panel
F
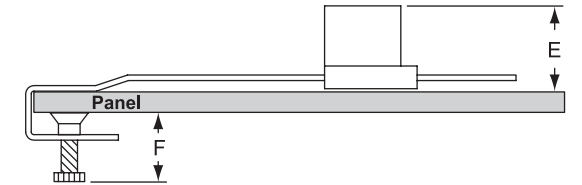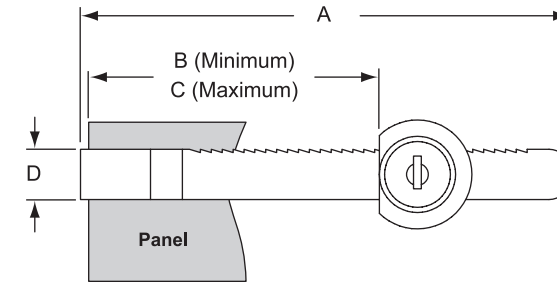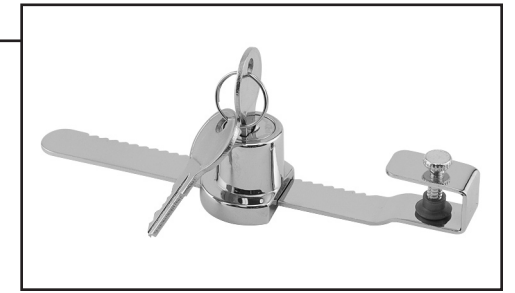
Part No.	A	B	C	D	E	F	Lbs.
2057	5.625	1.125	4.437	.580	.980	.800	.200

Sliding Door Glide

- **10 and 15 Series compatible**
- **Includes stainless steel mounting screw**
- **Made from UHMW polyethylene**
- **Bolts onto the profile end and freely rotates as door pivots**
- **See pg 606-607 for bi-fold door information**
- **See pg 523-525 for UHMW material specifications**

C
B
A
D
Drill Thru & C-Sink For FHSCS
G H
F E
C L
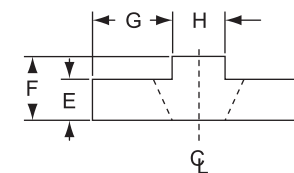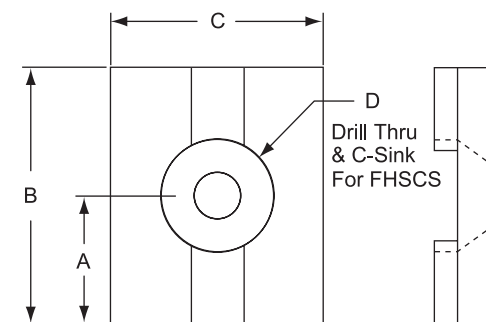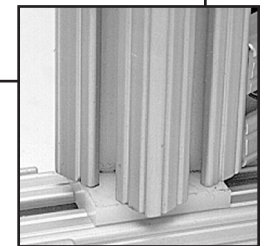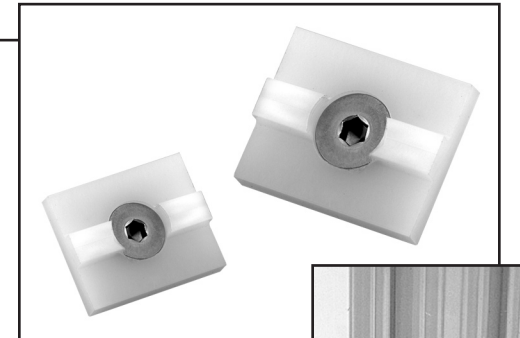
Part No.	A	B	C	D	E	F	G	H	Lbs.
2067 ✖	.500	1.000	.812	1/4-20	.240	.375	.281	.250	.007
2068	.750	1.500	1.250	5/16-18	.240	.375	.470	.310	.016

✖ = 10 Series Compatible Part

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Panels & Doors

Panels & Doors

Top Mount Bi-Fold Door Hanger Assembly

- **10 and 15 Series compatible**
- **Mounting screw supplied**
- **Made of UHMW polyethylene – see drawing below for dimensions**
- **Creates sliding or bi-fold doors without the use of bottom rail**
- **Bolts onto the profile end and freely rotates as the door pivots**
- **See page 564 for tap machining service**
- **See pages 606-607 for bi-fold door information**
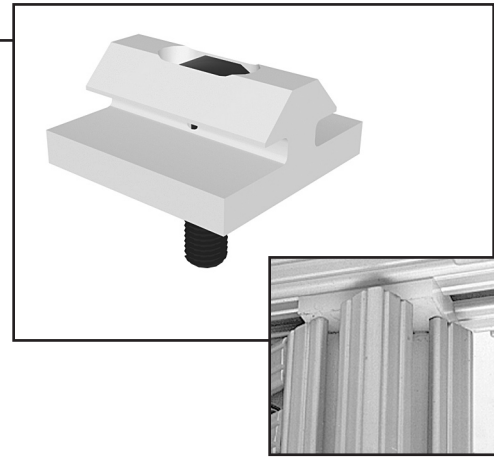
Part No.	Description	Length	Thread Size	Lbs.
2059 ✖	Bi-Fold Door Hanger	1.000	1/4-20 x .410	.045
2051	Bi-Fold Door Hanger	1.500	5/16-18 x .780	.060

✖ = 10 Series Coampatible Part

Top Mount Bi-Fold Door Hanger Profile

- **10 and 15 Series compatible**
- **Stock length: 145" – Cut to length with machining service No. 7212**
- **Made of UHMW polyethylene – see pages 523-525 for UHMW material specifications**
- **Create custom sliding or bi-fold doors without the use of bottom rail**
- **See pages 606-607 for bi-fold door information**
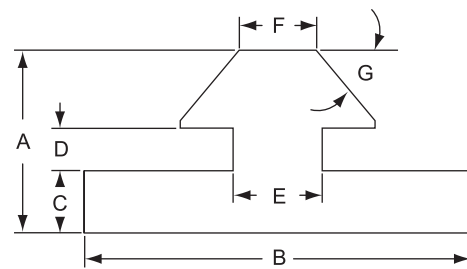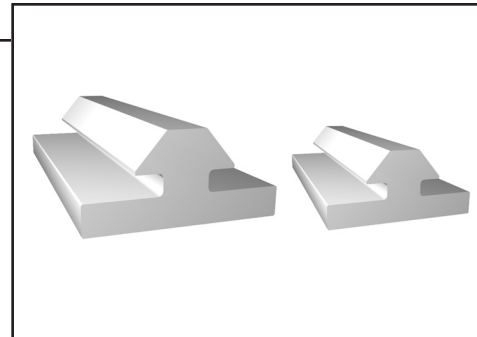
Part No.	A	B	C	D	E	F	G	Lbs. / Ft.
6710 ✖	.470	1.000	.160	.110	.230	.200	50º	.103
6808	.700	1.500	.240	.180	.300	.270	45º	.223

✖ = 10 Series Compatible Part

Roller Wheels with Ball Bearing Hub
Fiberglass-Reinforced Nylon, Black

- **Move frames, panels and other components by rolling in the profile T-slot**
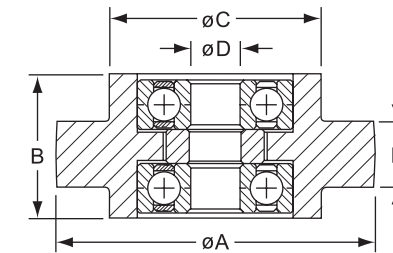
Part No.	A	B	C	D	E (Slot Tab)	Lbs.	Compatibility Code•
12017	1.535	.693	1.016	.236	.315	.07	8-15, 8-40
12018					.394	.07	
12020	1.850	.772	1.323	.315	.315	.11	
12021					.394	.11	

Roller Wheel with Steel Hub
Fiberglass-Reinforced Nylon, Black

- **Move frames, panels and other components by rolling in the profile T-slot**
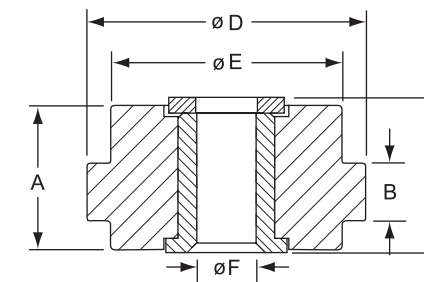
Part No.	A	B (Slot Tab)	C	D	E	F	Lbs.	Compatibility Code•
12024	.590	.236	.634	1.142	.945	.244	.02	6-10, 6-25

* See Compatibility Code information on page 351.

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Roller Wheels

- **10 and 15 Series compatible**
- **All mounting hardware included**
- **Made of self-lubricating black nylon**
- **Part No. 2290 has permanently lubricated bronze bushing; Part No. 2280 has ball bearing hub**
- **Mounts to profile end or T-slot – ideal for guided linear motion**
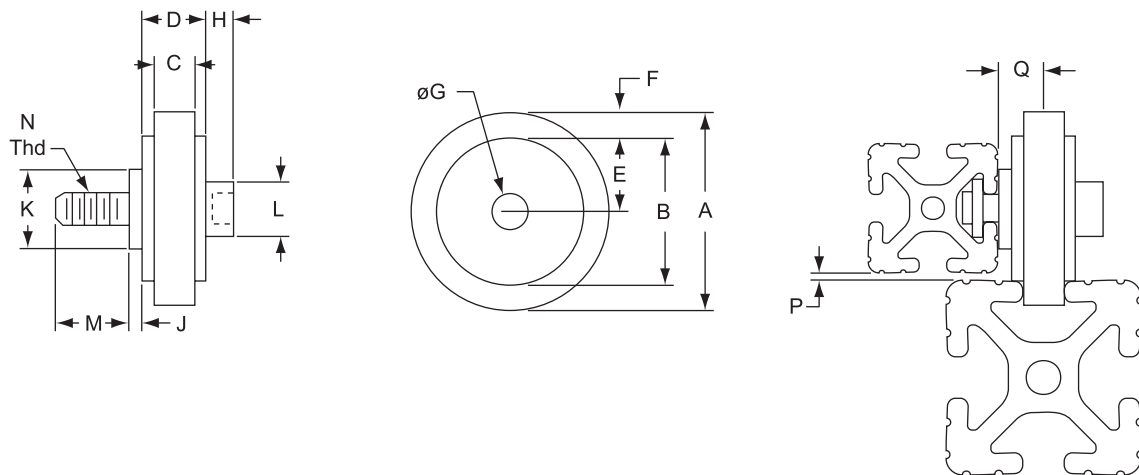
⊠ = 10 Series Compatible Part

Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	Lbs.
2281 ⊠	1.500	1.125	.240	.480	.563	.188	.314	.219	.125	.625	.435	.310	1/4-20	.060	.370	.070
2282 ⊠	1.500	1.125	.310	.480	.563	.188	.314	.219	.125	.625	.435	.310	1/4-20	.060	.370	.075
2280	2.000	1.625	.310	.720	.812	.188	.375	.250	.125	.750	.562	.375	5/16-18	.060	.485	.185
2290	2.000	1.625	.310	.720	.812	.188	.375	.250	.125	.750	.562	.375	5/16-18	.060	.485	.165

Part No.	Bearing Type	Mounts To	Rolls In
2281 ⊠	Permanent Lubricated Bronze Bushing	10 Series	10 Series
2282 ⊠	Permanent Lubricated Bronze Bushing	10 Series	15 Series
2280	Dual Roller Bearing	15 Series	15 Series
2290	Permanent Lubricated Bronze Bushing	15 Series	15 Series

2281 ⊠ **2282** ⊠ **2290** **2280**

Roller Wheel Brackets

- **10 and 15 Series compatible**
- **Hardware for mounting bracket to T-slot included**
- **Made of clear anodized aluminum**
- **Mounts to T-slot profile; ideal for moving framed doors and other components**
- **See pages 397-398 for nylon roller wheels**
- **See page 400 for roller wheel bracket assemblies**

Q
Tap Thru Typ

R
Drill & C-Bore
For LHSCS (4)
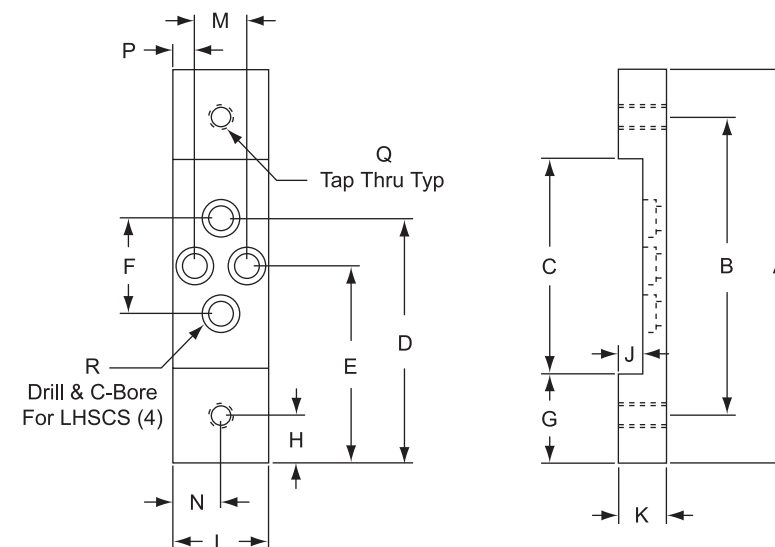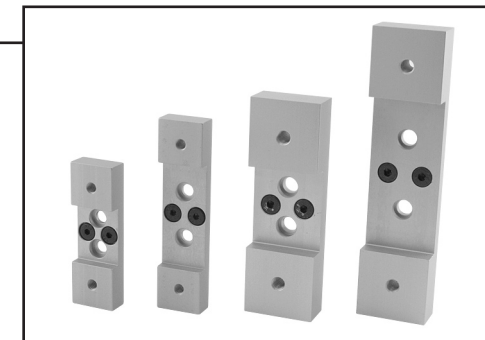
Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	Lbs.
2750 ⊠	3.125	2.125	1.250	1.897	1.563	.669	.938	.500	.255	.500	1.000	.544	.500	.228	1/4-20	1/4-20	.120
2752 ⊠	4.125	3.125	2.250	2.562	2.063	1.000	.938	.500	.255	.500	1.000	.544	.500	.228	1/4-20	1/4-20	.140
2754	4.625	3.125	1.750	2.743	2.313	.860	1.438	.750	.390	.750	1.500	.735	.750	.383	5/16-18	5/16-18	.420
2757	6.125	4.625	3.250	3.813	3.063	1.500	1.438	.750	.390	.750	1.500	.735	.750	.383	5/16-18	5/16-18	.500

Note: Be sure to use the included washer with the roller wheels for proper spacing

⊠ = 10 Series Compatible Part

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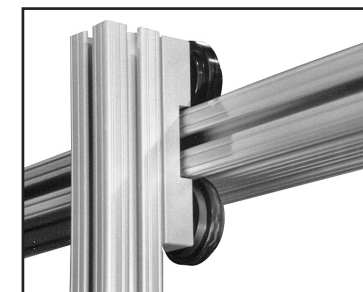
Roller Wheel Bracket Assemblies

- **10 and 15 Series compatible**
- **All mounting hardware included for both roller wheel and mounting bracket –**

  10 Series - (2) 1/4-20 x 3/8" LHSCS

  (2) P/N 3204, 1/4-20 Standard T-nut

  15 Series - (2) 5/16-18 x 5/8" LHSCS

  (2) P/N 3203, 5/16-18 Standard T-nut

- **Mounts to T-slot profile – ideal for moving framed doors and other components**

		Individual Part No.							
Assembly Part No.		**2750**	**2752**	**2754**	**2757**	**2281**	**2282**	**2280**	**2290**
2751 .260 Lbs.	1.000"	1				2			
2753 .280 Lbs.	2.000"		1			2			
2755 .790 Lbs.	1.500"			1				2	
2758 .870 Lbs.	3.000"				1			2	
2756 .740 Lbs.	1.500"			1					2
2759 .820 Lbs.	3.000"				1				2

= 10 Series Compatible Part

Door Slide Track

- **Snaps into T-slot – no hardware required**
- **Made of 6105-T5 clear anodized aluminum**
- **Deeper slots in upper track allow panels to be inserted after frame is assembled**
- **Radius bearing surface in lower track allows easier sliding**
- **Stock length: 145"**
- **Refer to page 563 for cut-to-length service**

10 Series   **15 Series**
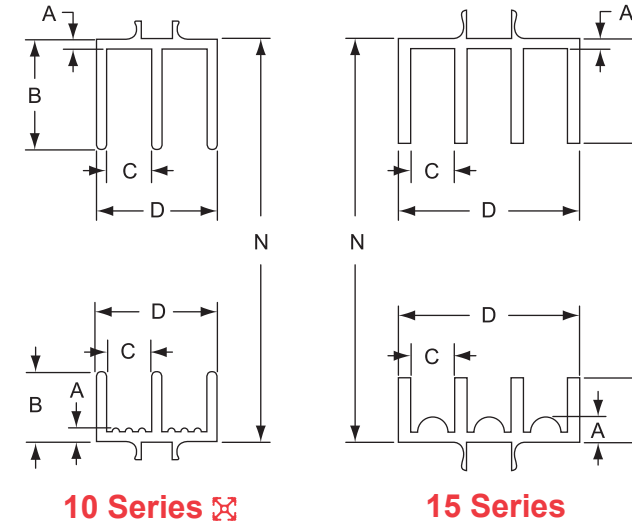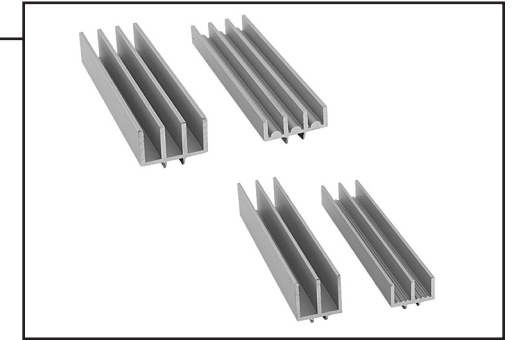
Part No.	Track Type	Stock Length	A	B	C	D	Lbs. / Ft.
2211	Upper	145.000"	.062	.688	.281	.750	.208
2221	Lower	145.000"	.085	.438	.281	.750	.156
2210	Upper	145.000"	.060	.650	.275	1.125	.304
2220	Lower	145.000"	.154	.400	.275	1.125	.264

Note: To calculate the panel height, subtract .500" from dimension N.

= 10 Series Compatible Part

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Panel Stiffeners

- **Add rigidity to large 1/4" thick plastic panels**
- **Made of 6105-T5 clear anodized aluminum**
- **Stock length is 72.5"; for lengths other than 72.5", see page 116**
- **Use a soft face mallet to apply this profile to the panel; see page 558**

6
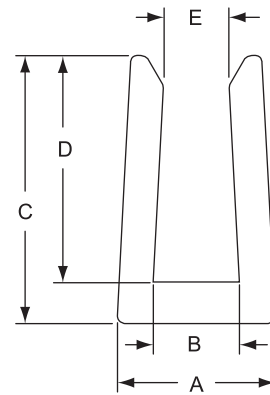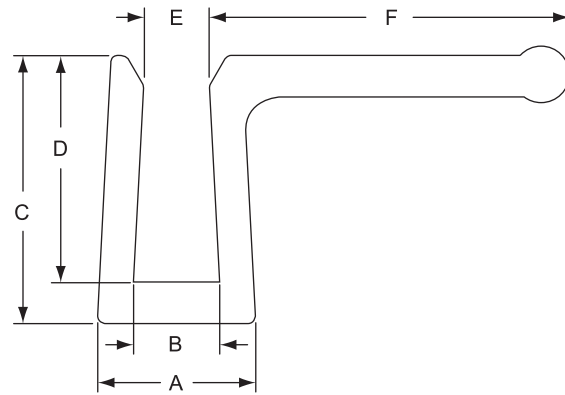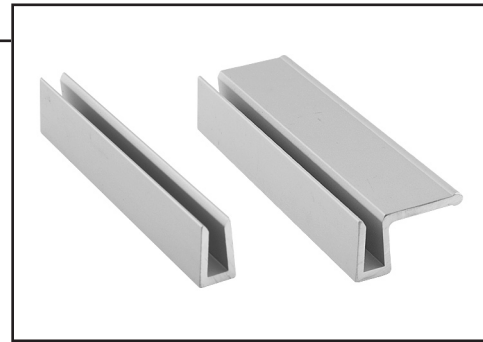
Part No.	Handle	A	B	C	D	E	F	Lbs.
2429	Yes	.420	.240	.710	.600	.181	.950	1.710
2424	No	.420	.240	.710	.600	.181	–	1.470
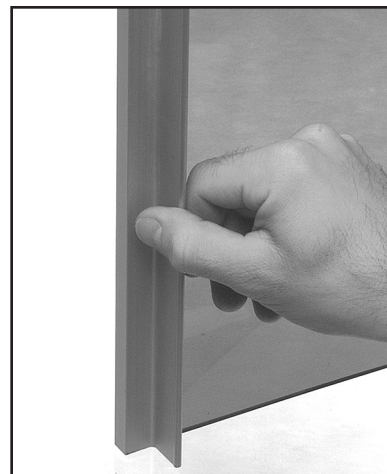
Panel Gasket – 15 Series

- **15 Series compatible**
- **Made of high density black polyethylene (HDPE)**
- **Stock length: 72.5"**
- **Inserts into the T-slot from the top or end to securely hold plastic panels (.240")**
- **Panel machining service No. 7500 or 7501, an edge radius, makes assembly easier – see page 592**

6
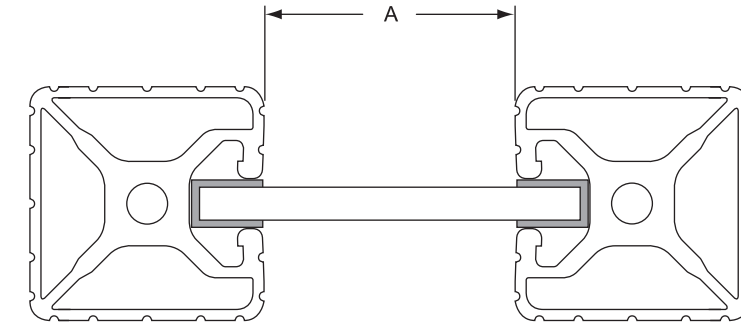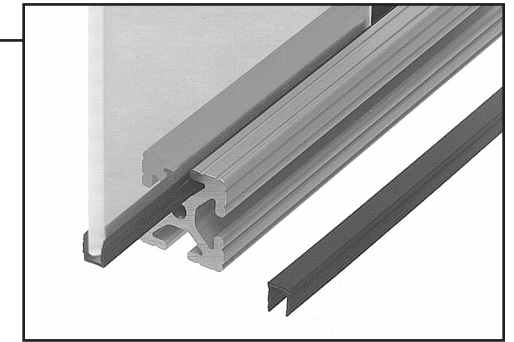
Part No.	Description	Lbs.
2120	Black 15 Series Panel Gasket	.100

Note: To calculate the panel width, add .750" to dimension A.

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Rubber Panel Gasket

- **10 and 15 Series compatible**
- **Holds .188" thick panels secure in 10 Series Holds .236" thick panels secure in 15 Series**
- **Available in black**
- **Black rubber panel gasket can be ordered by the foot or in 150 ft. rolls**

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Silicone Rubber Panel Gasket

- **10 and 15 Series compatible**
- **Holds plastic panels tight in the T-slot; easily inserted after the panel is placed in the frame**
- **Made of gray silicone rubber for improved chemical and heat resistance; panel gasket only needs to be inserted on one side**
- **Holds .188" thick panels secure in 10 Series Holds .236" thick panels secure in 15 Series**
- **Order by the foot**

Part No.	Slot	B	C	Description	Lbs.
2116 ⌘	6	4.50	10.00	Rubber Panel Gasket (Per Foot)	.0150 Lbs. / ft.
2118 ⌘	6	4.50	10.00	Rubber Panel Gasket (Per 150 Foot Roll)	2.250 Lbs. / roll
2115	8	6.10	14.60	Rubber Panel Gasket (Per Foot)	.0250 Lbs. / ft.
2117	8	6.10	14.60	Rubber Panel Gasket (Per 150 Foot Roll)	3.750 Lbs. / roll

Note: To calculate the panel width for 10 Series, add .500" to dimension "A".
To calculate the panel width for 15 Series, add .750" to dimension "A".

⌘ = 10 Series Compatible Part

Part No.	Description	Lbs. / Ft.
2177 ⌘	Silicone Rubber Panel Gasket (Per Foot)	.020
2178	Silicone Rubber Panel Gasket (Per Foot)	.030

Note: To calculate the panel width for 10 Series, add .500" to dimension "A".
To calculate the panel width for 15 Series, add .750" to dimension "A".

⌘ = 10 Series Compatible Part

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Rubber Door Seal

- Use with 15 Series profiles only
- Black EPDM door seal presses into the T-slot
- Minimum .250" gap between the door and frame
- Sold by the foot or in 100 foot rolls

Fractional

Panel Mount Blocks

- 10 and 15 Series compatible
- Hardware for mounting block to T-slot included
- Made of 6105-T5 clear anodized aluminum
- Firmly mount plastic panels flush or offset
- Simplifies adding or removal of plastic panels
- See page 600 for panel machining services
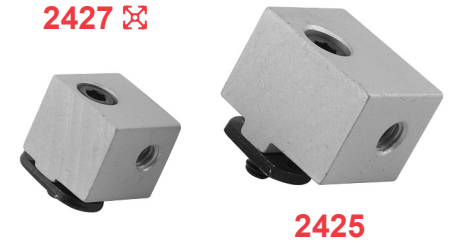
2427 ⋈
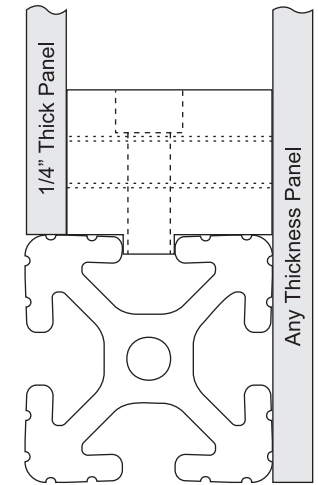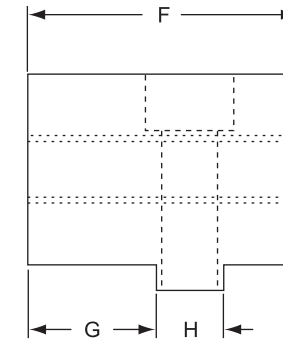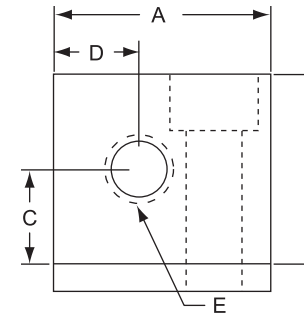
2425

.250 Door Gap

Part No.	Unit Sold	A	B	C	D	Lbs.
2829	Per Foot	.250	.750	.310	.340	.128 Lbs. / ft.
2834	Per 100 Ft. Roll	.250	.750	.310	.340	12.800 Lbs. / Roll

2425 Shown

1/4" Thick Panel

Any Thickness Panel

Recommended Mounting Hardware (Mount to 1/4" Panel):

Part No.	Qty	Description
3063 ⋈	1	1/4-20 x 5/8" BHSCS
3114	1	5/16-18 x 3/4" BHSCS

Part No.	A	B	C	D	E	F	G	H	Lbs.
2427 ⋈	.750	.700	.375	.250	1/4-20 Tap Thru	.812	.373	.247	.050
2425	1.000	.880	.437	.390	5/16-18 Tap Thru	1.250	.600	.310	.120

Note: 2427 - mounts 3/16" panels flush with 10 Series profiles.
2425 - mounts 1/4" panels flush with 15 Series profiles.

⋈ = 10 Series Compatible Part

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Panel Mount Bracket

- **10 and 15 Series compatible**
- **Made of 6105-T5 clear anodized aluminum**
- **Mounts 1/4" panels flush with P/N 2430**
- **Slotted hole makes panel alignment easy**
- **Economical panel mounting method**
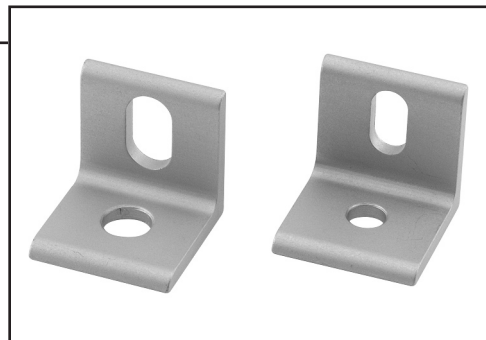
Note: 10 Series does NOT mount standard panels flush
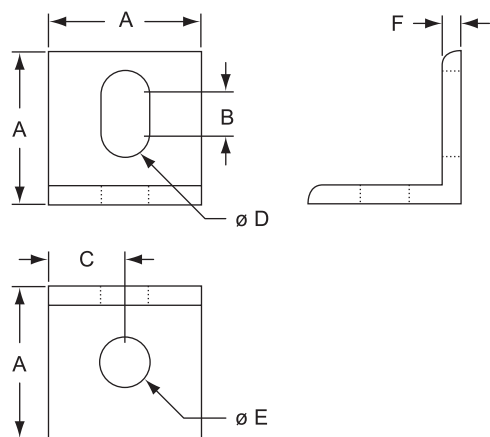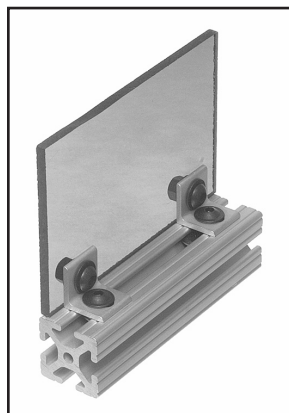
Part No.	A	B	C	D	E	F	Lbs.
2428 ✕	1.000	.250	.500	.255	.257	.125	.020
2430	1.000	.250	.500	.328	.328	.125	.020

Recommended Mounting Hardware (Mount to T-Slot):

Part No.	Qty	Description
3386 ✕	1	$^1/_4$-20 x $^3/_8$" FBHSCS & Economy T-Nut
3319	1	$^5/_{16}$-18 x $^1/_2$" FBHSCS & Economy T-Nut

Recommended Mounting Hardware (Mount to 1/4" Panel):

Part No.	Qty	Description
3004 ✕	1	$^1/_4$-20 x $^3/_4$" FBHSCS & Hex Nut w/ Washer
3463	1	$^5/_{16}$-18 x $^5/_8$" FBHSCS & Hex Nut w/ Washer

✕ = 10 Series Compatible Part

Plastic Panel Mount Block with Square Nut
Fiberglass-Reinforced Nylon, Black

- **15 Series compatible**
- **Square nut travels in a slot with .366" of adjustment**
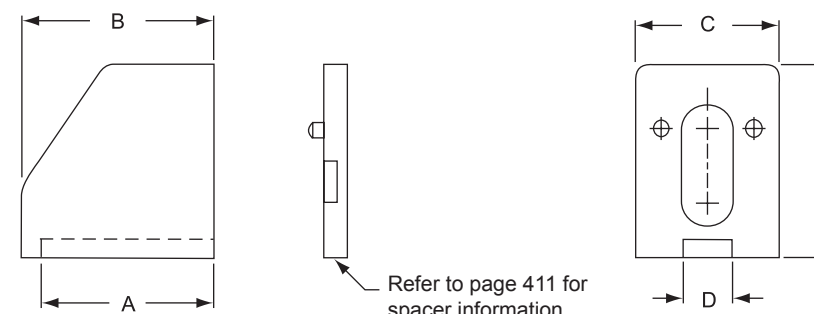
Refer to page 411 for spacer information

Recommended Mounting Hardware (Mount to T-Slot):

Part No.	Qty	Description
3408	1	1/4-20 x 1/2" BHSCS & Drop-In T-Nut

Part No.	A	B	C	D	Nut Thread	Lbs.	Compatibility Code*
12049					M5		8-15, 8-30
12050	.886	.984	.728	.248	M6	.020	
14192					1/4-20		8-40, 10-45
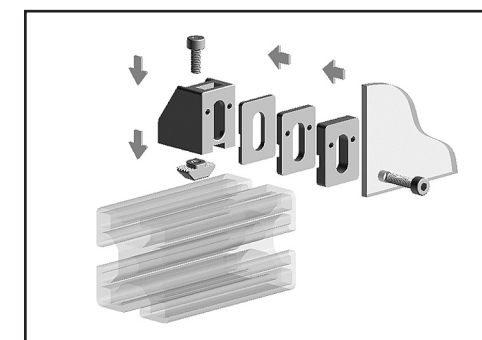
* See Compatibility Code information on page 351.

Panels & Doors

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Panels & Doors

Panel Mount Block, 1/4 Turn w/Square Nut
Fiberglass-Reinforced Nylon, Black

- **15 Series compatible**
- **Adjustable, zinc-plated steel square nut**
- **See spacers on page 411**
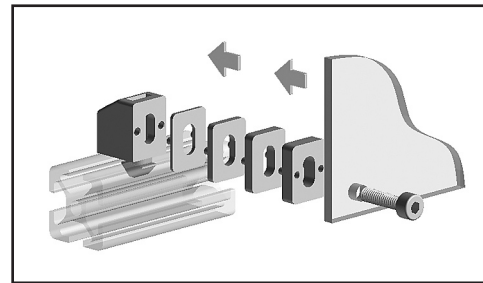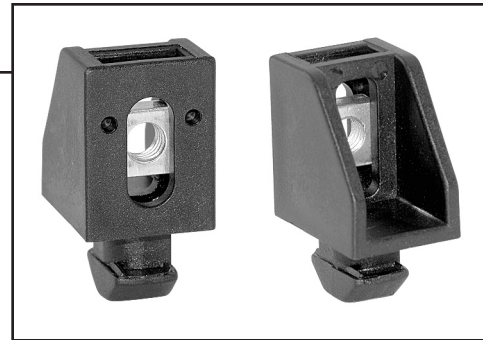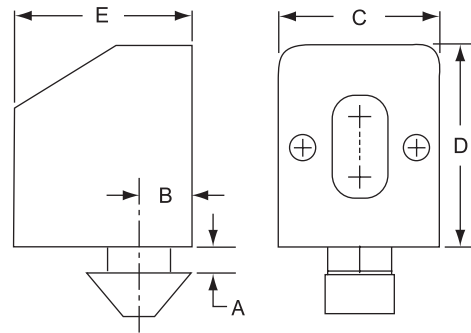
Part No.	A	B	C	D	E	Nut Thread	Lbs.	Compatibility Code*
14139		.315				M6		
14186		.315				1/4-20		
14142	.157	.472	.728	.984	.728	M6	.020	8-15
14143		.551				M6		8-40
14167		.472				1/4-20		
14191		.551				1/4-20		

Panel Mount Block
Die-Cast Zinc, Black
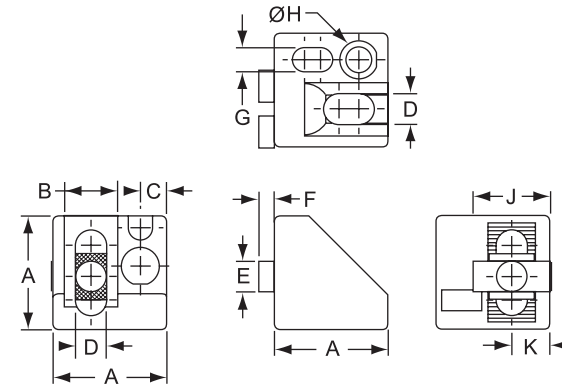
Recommended Mounting Hardware: (Mount to T-Slot)

Part No.	Qty	Description
3455	1	5/16-18 x 3/4" SHCS & Econ. Slide-In T-nut

Part No.	Nut Thread	A	B	C	D	E (Slot)	F	G	H	J	K	Lbs.	Compatibility Code*
12057	M6	1.181	.551	.276	.323	None	.157	.252	.268	.807	.394	.130	8-15, 8-40
12058						.315						.130	

Spacer for Panel Mount Block
Fiberglass-Reinforced Nylon, Black

- **Sold individually**
- **Compatible with the plastic panel mount blocks shown in this section**
- **Three thicknesses available**
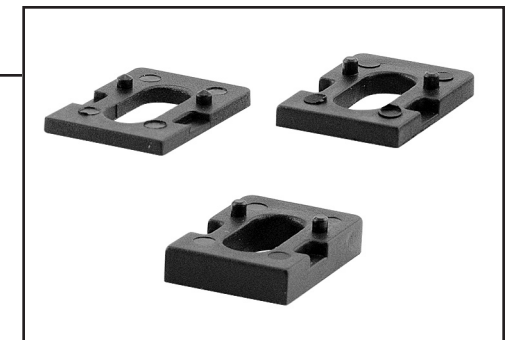
Part No.	Spacer Thickness	Lbs.	Comments
12051	.079	.00	Works with panel mount blocks shown on pages 307-309
12053	.118	.00	
12055	.197	.00	

* See Compatibility Code information on page 351.

* See Compatibility Code information on page 351.

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The Industrial Erector Set®
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Quick Change Panel Clamp

- **Use with 15 Series only**
- **Mounts panels up to 1/4" thick with no machining or hardware required**
- **Made of high strength black nylon**
- **1/4" turn locks the block on the T-slot**
- **Easily remove the panel clip with a flat tip screwdriver**

2423 Clip
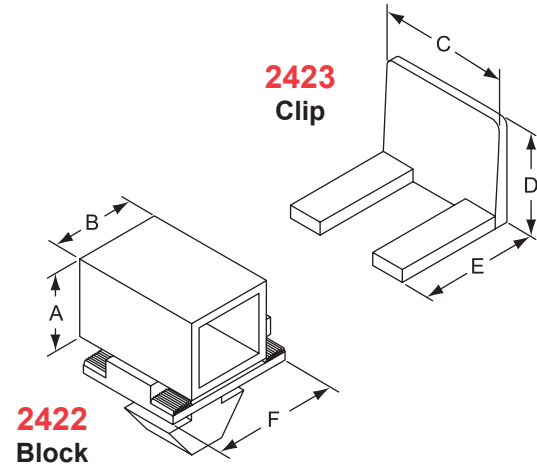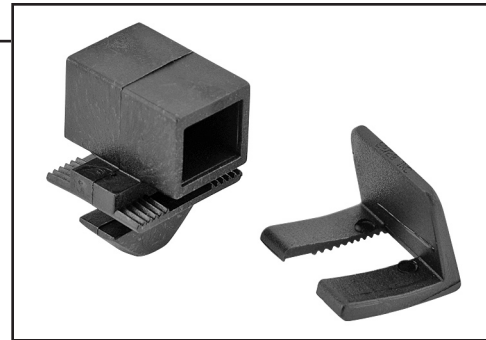
2422 Block

Part No.	Description	A	B	C	D	E	F	Lbs.
2421	Complete Set (Block & Clip)	.775	.640	.980	.785	.870	.920	.018
2422	Block	.775	.640	–	–	–	.920	.014
2423	Panel Clip	–	–	.980	.785	.870	–	.004

Note: To calculate the panel height, subtract .450" from dimension N.
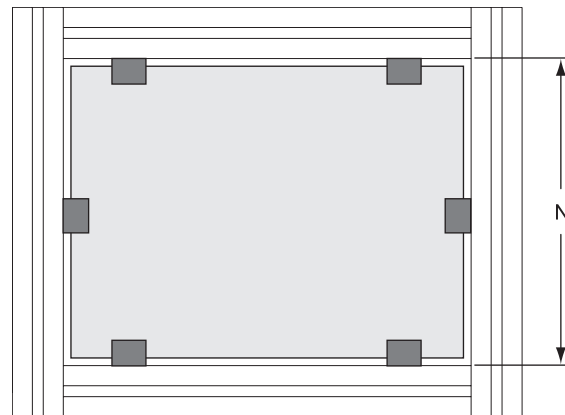
Drop-In Panel Bracket

- **10 and 15 Series compatible**
- **No fasteners or machining required for mounting to T-slot**
- **Made of 6105-T5 clear anodized aluminum**
- **Bracket can be loaded from face of the T-slot**
- **Mounts panel flush with outside of 10 or 15 Series profiles**
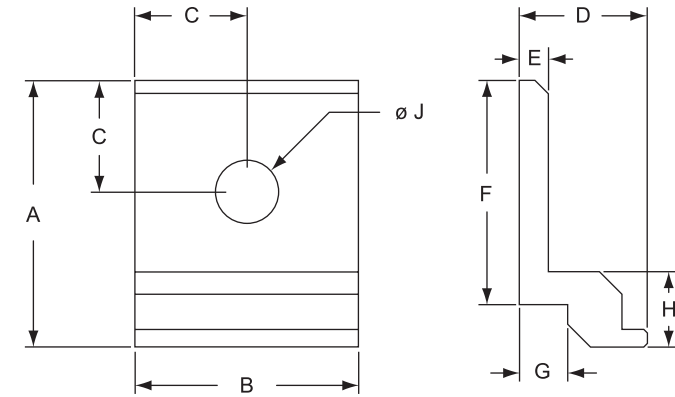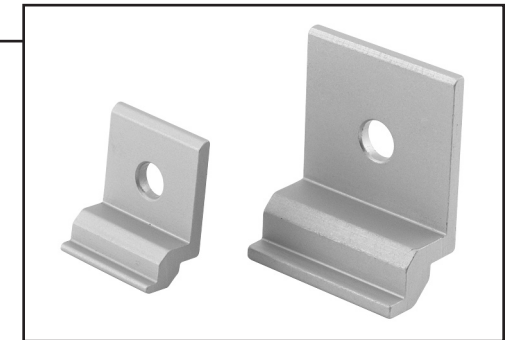
Part No.	A	B	C	D	E	F	G	H	J	Lbs.
2489 ⌘	1.190	1.000	.500	.573	.130	1.000	.217	.335	.281	.021
2488	1.812	1.500	.750	.782	.130	1.500	.306	.500	.328	.058

⌘ = 10 Series Compatible Part

Recommended Mounting Hardware (Mount to 1/4" Panel):

Part No.	Qty	Description
3063 ⌘	1	$1/4$-20 x $5/8$" BHSCS
3114	1	$5/16$-18 x $3/4$" BHSCS

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Single Panel Retainers

- **10 and 15 Series compatible**
- **Made of 6105-T5 clear anodized aluminum**
- **Strongest way to cost-effectively retain plastic panels in a frame**
- **Simplifies panel installation and removal**
- **Requires a drill thru hole in the panel that lines up with retainer's tapped hole(s), see page 601**
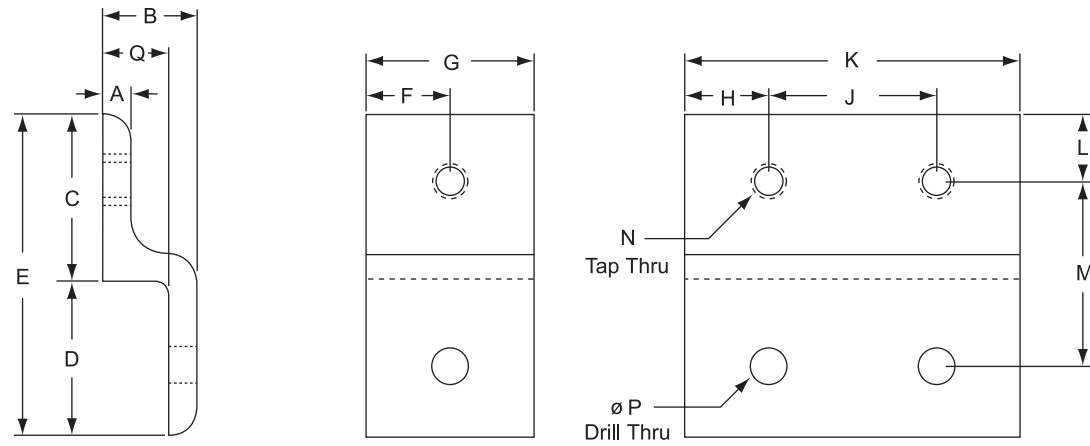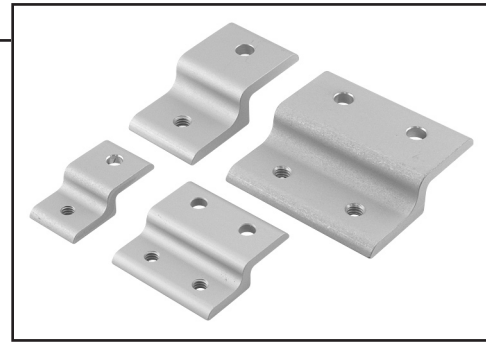
2496 **2434**

2497 **2433**

⌖ = 10 Series Compatible Part

Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	Lbs.
2496 ⌖	.188	.563	1.000	.938	1.938	.500	1.000	–	–	–	.392	1.108	1/4-20	.257	.375	.040
2434	.250	.840	1.500	1.379	2.879	.750	1.500	–	–	–	.594	1.656	5/16-18	.328	.590	.120
2497 ⌖	.188	.563	1.000	.938	1.938	–	–	.500	1.000	2.000	.392	1.108	1/4-20	.257	.375	.080
2433	.250	.840	1.500	1.379	2.879	–	–	.750	1.500	3.000	.594	1.656	5/16-18	.328	.590	.240

Recommended Mounting Hardware (Mount to T-Slot):

	Retainer Part No.			
Part No.	2496	2434	2497	2433
3321 ⌖	1	–	2	–
3320	–	1	–	2

Recommended Mounting Hardware (Mount to 1/4" Panel):

	Retainer Part No.			
Part No.	2496	2434	2497	2433
3390 ⌖	1	–	2	–
3340	–	1	–	2

Double Panel Retainers

- **10 and 15 Series compatible**
- **Made of 6105-T5 clear anodized aluminum**
- **Strongest way to cost-effectively retain two plastic panels separated by a profile**
- **Simplifies panel installation and removal**
- **Requires a drill thru hole in the panel that lines up with retainer's tapped hole(s), see page 602**
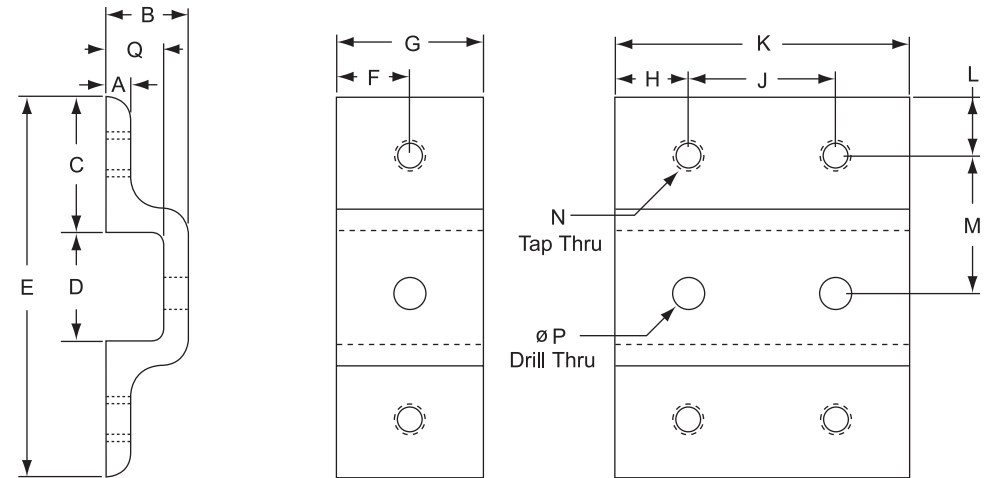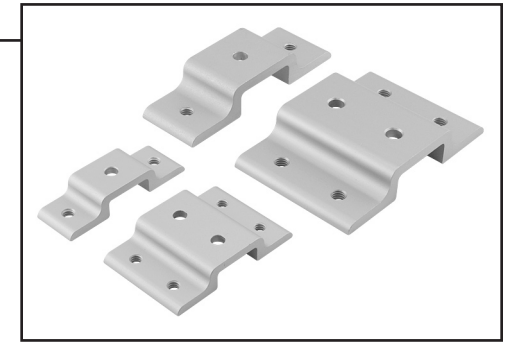
2512 **2515**

2513 **2516**

⌖ = 10 Series Compatible Part

Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	Lbs.
2512 ⌖	.188	.563	1.000	1.021	3.021	.500	1.000	–	–	–	.392	1.118	1/4-20	.257	.375	.060
2515	.250	.840	1.500	1.523	4.520	.750	1.500	–	–	–	.594	1.666	5/16-18	.328	.590	.195
2513 ⌖	.188	.563	1.000	1.021	3.021	–	–	.500	1.000	2.000	.392	1.118	1/4-20	.257	.375	.120
2516	.250	.840	1.500	1.523	4.520	–	–	.750	1.500	3.000	.594	1.666	5/16-18	.328	.590	.390

Recommended Mounting Hardware (Mount to T-Slot):

	Retainer Part No.			
Part No.	2512	2515	2513	2516
3321 ⌖	1	–	2	–
3320	–	1	–	2

Recommended Mounting Hardware (Mount to 1/4" Panel):

	Retainer Part No.			
Part No.	2512	2515	2513	2516
3390 ⌖	2	–	4	–
3340	–	2	–	4

6

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Fractional

Single Mesh Panel Retainers

- **10 and 15 Series compatible**
- **Made of 6105-T5 clear anodized aluminum**
- **Strongest way to cost-effectively retain wire mesh or expanded metal panels**
- **Simplifies panel installation and removal**
- **Panel is secured when tightened between retainer and its threaded backing plate**

Backing
Plate
Detail
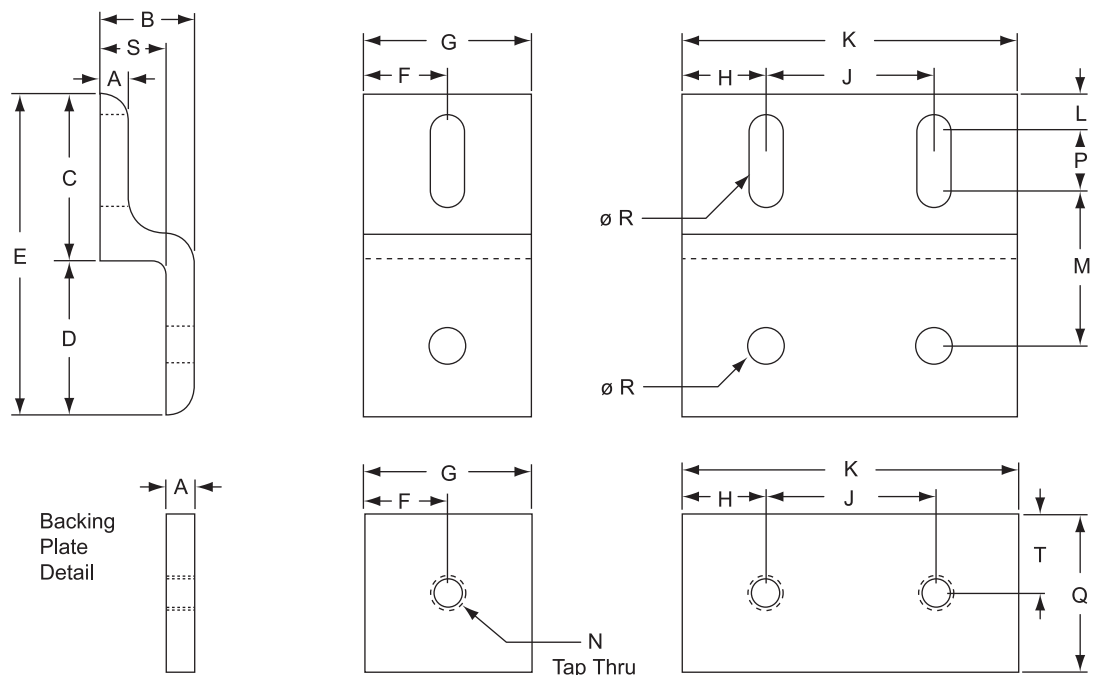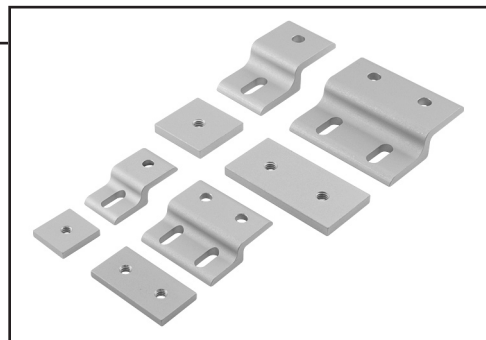
2491
2436

2494
2435

Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	Lbs.
2491	.188	.563	1.000	.938	1.938	.500	1.000	–	–	–	.250	.875	1/4-20	.375	1.000	.255	.375	.500	.055
2436	.250	.840	1.500	1.379	2.879	.750	1.500	–	–	–	.344	1.406	5/16-18	.500	1.500	.328	.590	.750	.175
2494	.188	.563	1.000	.938	1.938	–	–	.500	1.000	2.000	.250	.875	1/4-20	.375	1.000	.255	.375	.500	.110
2435	.250	.840	1.500	1.379	2.879	–	–	.750	1.500	3.000	.344	1.406	5/16-18	.500	1.500	.328	.590	.750	.350

 = 10 Series Compatible Part

Note: Refer to following page for recommended mounting hardware.

Single Mesh Retainers continued
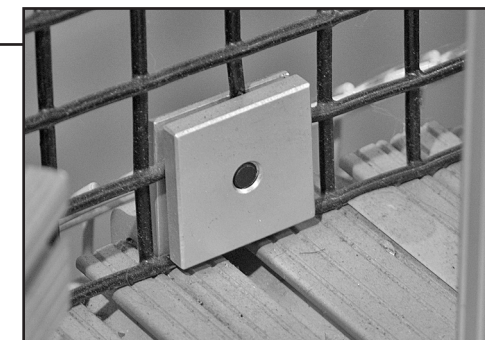
Recommended Mounting Hardware (Mount to 12/16" Gauge Wire):

Part No.	Retainer Part No.			
	2491	2436	2494	2435
3063	1	–	2	–
3114	–	1	–	2

Recommended Mounting Hardware (Mount to T-Slot):

Part No.	Retainer Part No.			
	2491	2436	2494	2435
3321	1	–	2	–
3320	–	1	–	2

Part No.	Lbs.	Size	Description
2490	.035	1.000	Mesh Retainer
2432	.120	1.500	Mesh Retainer
2493	.075	2.000	Mesh Retainer
2431	.240	3.000	Mesh Retainer
2491	.055	1.000	Mesh Retainer w/ Backing Plate
2436	.175	1.500	Mesh Retainer w/ Backing Plate
2494	.110	2.000	Mesh Retainer w/ Dbl Backing Plate
2435	.350	3.000	Mesh Retainer w/ Dbl Backing Plate
2492	.020	1.000	Backing Plate
2438	.055	1.500	Backing Plate
2495	.035	2.000	Dbl Backing Plate
2437	.110	3.000	Dbl Backing Plate

 = 10 Series Compatible Part

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Double Mesh Panel Retainers

- **10 and 15 Series compatible**
- **Made of 6105-T5 clear anodized aluminum**
- **Strongest way to cost-effectively retain two wire panels separated by a profile**
- **Simplifies panel installation and removal**
- **Panel is secured when tightened between retainer and its threaded backing plate**

Double Mesh Retainers continued

Backing Plate Detail

N Tap Thru

Recommended Mounting Hardware: (Mount 12 / 16 Gauge Wire)

Part No.	Retainer Part No.			
	2521	2517	2523	2519
3063 ✖	2	–	4	–
3114	–	2	–	4

Recommended Mounting Hardware (Mount to T-Slot):

Part No.	Retainer Part No.			
	2521	2517	2523	2519
3321 ✖	1	–	2	–
3320	–	1	–	2

Part No.	Lbs.	Size	Description
2521 ✖	.060	1.000	Double Mesh Retainer
2517	.195	1.500	Double Mesh Retainer
2523 ✖	.120	2.000	Double Mesh Retainer
2519	.390	3.000	Double Mesh Retainer
2522 ✖	.080	1.000	Double Mesh Retainer w/ Backing Plate
2518	.250	1.500	Double Mesh Retainer w/ Backing Plate
2524 ✖	.155	2.000	Double Mesh Retainer w/ Dbl Backing Plate
2520	.500	3.000	Double Mesh Retainer w/ Dbl Backing Plate
2492 ✖	.020	1.000	Double Backing Plate
2438	.055	1.500	Double Backing Plate
2495 ✖	.035	2.000	Double Dbl Backing Plate
2437	.110	3.000	Double Dbl Backing Plate

✖ = 10 Series Compatible Part

Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	Lbs.
2521 ✖	.188	.563	1.000	1.021	3.021	.500	1.000	–	–	–	.250	.885	1/4-20	.375	1.000	.255	.375	.500	.060
2517	.250	.840	1.500	1.523	4.520	.750	1.500	–	–	–	.344	1.416	5/16-18	.500	1.500	.328	.590	.750	.195
2523 ✖	.188	.563	1.000	1.021	3.021	–	–	.500	1.000	2.000	.250	.885	1/4-20	.375	1.000	.255	.375	.500	.120
2519	.250	.840	1.500	1.523	4.520	–	–	.750	1.500	3.000	.344	1.416	5/16-18	.500	1.500	.328	.590	.750	.390

✖ = 10 Series Compatible Part

Note: Refer to following page for recommended mounting hardware.

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Wire Edge "Cut You Not"

- Crimps on edge of wire mesh or expanded metal panels
- Made of black flexible PVC with internal metal clips
- Create clean, safe, and easy access openings
- Sold by the foot with no cut charge necessary
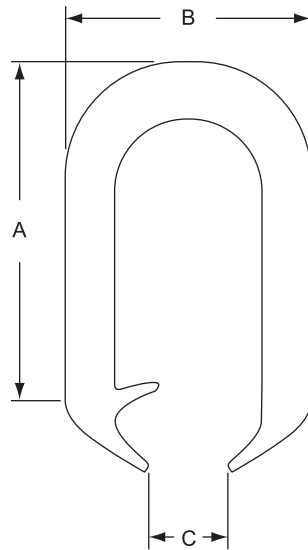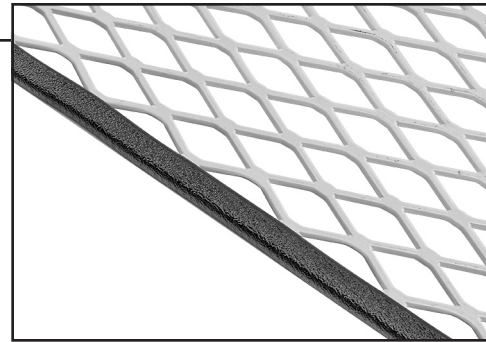
Part No.	Description	A	B	C	Lbs. / Ft.
2465	Black Wire Edge	.560	.395	.188	.075

Acrylic Panels

- Cost-effective panel alternative
- High optical clarity
- Resistant to weather elements
- Stable up to 180º
- Cut plastic panels to size with 7150 or 7155 services on page 583
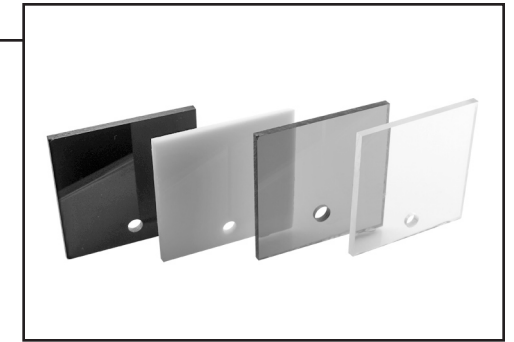
Part No.	Trade Name	Color	Thickness	Lbs. / Sq. Ft.	Stock Sheet Size
2601	Lucite® / Acrylite®	Clear	.220 - .236"	1.450	48" x 96" + .500 - 0
2602	Lucite® / Acrylite®	Clear	.177"	.840	48" x 96" + .500 - 0
2603	Lucite® / Acrylite®	White	.220 - .236"	1.450	48" x 96" + .500 - 0
2604	Lucite® / Acrylite®	White	.177"	.840	48" x 96" + .500 - 0
2605	Lucite® / Acrylite®	Black	.220 - .236"	1.450	48" x 96" + .500 - 0
2606	Lucite® / Acrylite®	Black	.177"	.840	48" x 96" + .500 - 0
2607	Lucite® / Acrylite®	Bronze	.220 - .236"	1.450	48" x 96" + .500 - 0
2608	Lucite® / Acrylite®	Bronze	.177"	.840	48" x 96" + .500 - 0

Acrylic panels are a cost-effective alternative to polycarbonate. While less impact-resistant, acrylic is lighter in weight and available in more colors. Acrylic is great in applications where optical clarity and resistance to the elements are important. Only half as heavy as glass and only 40% as heavy as aluminum, acrylic is also easy to cut, drill, rout and paint. Use acrylic for applications such as displays, signs, furniture, low-impact guarding and partitions.

AR Polycarbonate Panels

- Abrasion-resistant coating
- High impact resistance
- Stable up to 240º
- Good visual transparency
- Cut plastic panels to size with 7150 or 7155 services on page 583
- See pages 583-605 for all plastic panel machining services

Part No.	Trade Name	Color	Thickness	Lbs. / Sq. Ft.	Stock Sheet Size
2641	Makrolon® AR	Clear	.177"	1.150	48" x 96" + .875 - 0
2642	Makrolon® AR	Clear	.220 - .236"	1.500	48" x 96" + .875 - 0

AR Polycarbonate is a standard polycarbonate panel with an abrasion-resistant coating. This hard coat surface gives a durable, impact-resistant polycarbonate panel the wearability of an acrylic sheet. AR Polycarbonate can be used to maintain a clear view of an enclosed operation on machine guards and other safety applications in high traffic areas.

80/20® Inc.
*The **Industrial** Erector Set®*
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Polycarbonate Panels

- **Easily machinable**
- **Good optical clarity**
- **High impact resistance**
- **Stable up to 240º**
- **Now available in .118", .375" and .500" thickness**
- **Cut plastic panels to size with 7150 or 7155 services on page 583 (for .375 and .500 thick panels, use 7151 or 7153 services)**
- **See pages 583-605 for all plastic panel machining services**
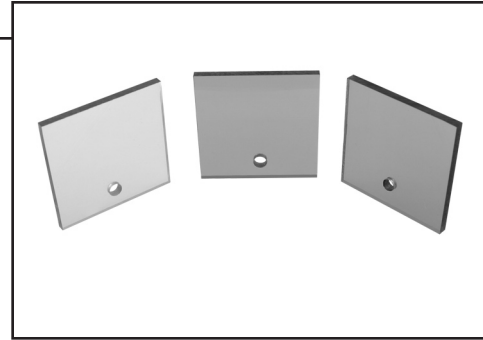
Part No.	Trade Name	Color	Thickness	Lbs. / Sq. Ft.	Stock Sheet Size
2645	Lexan® / Makrolon® / Palram	Clear	.500"	3.120	48" x 96" + .875 - 0
2644	Lexan® / Makrolon® / Palram	Clear	.375"	2.340	48" x 96" + .875 - 0
2609 *	Lexan® / Makrolon® / Palram	Clear	.220 - .236"	1.500	48" x 96" + .875 - 0
					60" x 96" + .875 - 0
2643	Lexan® / Makrolon® / Palram	Clear	.118"	.737	48" x 96" + .875 - 0
2610	Lexan® / Makrolon® / Palram	Clear	.177"	1.150	48" x 96" + .875 - 0
2611	Lexan® / Makrolon® / Palram	Bronze	.220 - .236"	1.500	48" x 96" + .875 - 0
2612	Lexan® / Makrolon® / Palram	Bronze	.177"	1.150	48" x 96" + .875 - 0
2629	Lexan® / Makrolon® / Palram	Gray	.220 - .236"	1.500	48" x 96" + .875 - 0
2630	Lexan® / Makrolon® / Palram	Gray	.177"	1.150	48" x 96" + .875 - 0

* Specify sheet size when ordering

Polycarbonate is a high performance industrial application panel. Easily machined with standard hand tools, the high impact resistance offered by polycarbonate prevents cracking, chipping or breaking when cutting or drilling panels. Polycarbonate is best used in applications where high impact resistance is needed while offering a clear view of the enclosed device. Polycarbonate excels in industrial and manufacturing applications such as machine guards, equipment enclosures and workstations.

ABS Haircell Panels

- **Lightweight**
- **Textured side hides marks and scratches**
- **Cost-effective**
- **Stable up to 180º**
- **Cut plastic panels to size with 7150 or 7155 services on page 583**
- **See pages 583-605 for all plastic panel machining services**

Part No.	Trade Name	Color	Thickness	Lbs. / Sq. Ft.	Stock Sheet Size
2613	–	Black	.236"	1.700	54" x 103" + .875 -0
2614	–	Black	.177"	1.000	48" x 96" + .875 -0

ABS Haircell is a great cost-effective alternative to acrylic and polycarbonate. ABS Haircell has a unique textured side, which hides scratches and other marks while offering greater impact resistance than acrylic panels. Easily machined, ABS Haircell is a general purpose sheet that is well suited to almost any application, including furniture, workstations, displays, guarding and partitions.

Kydex® Panels

- **Impact-resistant panel**
- **Fire rated UL 94 V-O**
- **Textured finish on front of panel hides marks and scratches**
- **Available in black or yellow**
- **Stable up to 160º**

Part No.	Trade Name	Color	Thickness	Lbs. / Sq. Ft.	Stock Sheet Size
2660	Kydex®	Black	.187"	1.150	48" x 96" + .375 - 0
2661	Kydex®	Black	.250"	1.500	48" x 96" + .375 - 0
2662	Kydex®	Yellow	.187"	1.150	48" x 96" + .375 - 0
2663	Kydex®	Yellow	.250"	1.500	48" x 96" + .375 - 0

Kydex® is an impact-resistant sheet that features a colored cap with a similarly colored substrate. Textured on one side, this fire-retardant panel combines an aesthetic appearance with long service life.

80/20® Inc.
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Fractional

Expanded PVC Panels

- **Low cost and lightweight**
- **Decorative applications can be designed using several of our available colors**
- **Stable up to 140º**
- **Good chemical resistance**
- **Cut plastic panels to size with 7150 or 7155 services on page 583**
- **See pages 583-605 for all plastic panel machining services**

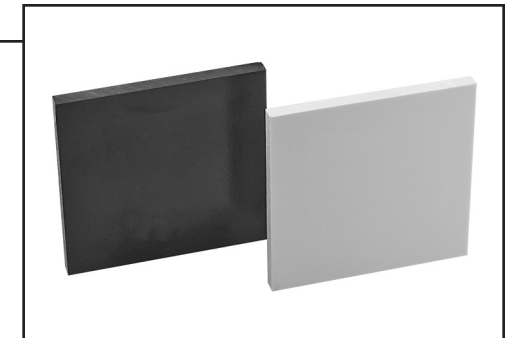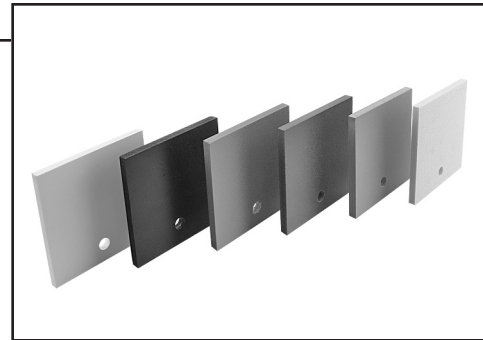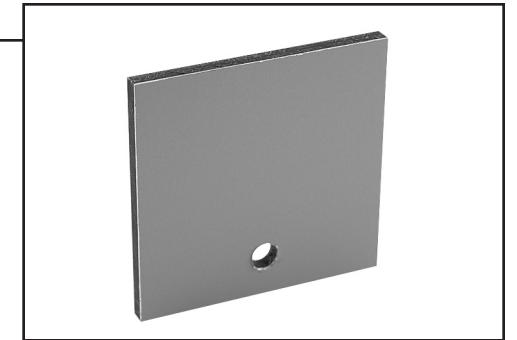| Part No.	Trade Name	Color	Thickness	Lbs. / Sq. Ft.	Stock Sheet Size
2615	Sintra® / Celtec®	White	.236"	.900	48" x 96" + .500 - 0
2616	Sintra® / Celtec®	White	.118"	.500	48" x 96" + .500 - 0
2617	Sintra® / Celtec®	Black	.236"	.900	48" x 96" + .500 - 0
2618	Sintra® / Celtec®	Black	.118"	.500	48" x 96" + .500 - 0
2619	Sintra® / Celtec®	Red	.236"	.900	48" x 96" + .500 - 0
2620	Sintra® / Celtec®	Red	.118"	.500	48" x 96" + .500 - 0
2621	Sintra® / Celtec®	Blue	.236"	.900	48" x 96" + .500 - 0
2622	Sintra® / Celtec®	Blue	.118"	.500	48" x 96" + .500 - 0
2623	Sintra® / Celtec®	Gray	.236"	.900	48" x 96" + .500 - 0
2624	Sintra® / Celtec®	Gray	.118"	.500	48" x 96" + .500 - 0
2631	Sintra® / Celtec®	Yellow	.236"	.900	48" x 96" + .500 - 0
2632	Sintra® / Celtec®	Yellow	.118"	.500	48" x 96" + .500 - 0

Expanded PVC panels, available in 6 colors, are a low cost alternative to Acrylic and Polycarbonate panels. Expanded PVC panels are very weather-resistant and easily machined. The light impact resistance limits the usage of Expanded PVC panels to light-duty applications where contact is a minimum. Expanded PVC works great as signage, displays or exhibit panels.

Alucobest Panels

- **Half the weight of solid aluminum, making machining easy**
- **Smooth metallic finish is impact-resistant**
- **Alucobest is durable and resistant to weather and elements**
- **Stable up to 175º**
- **Cut plastic panels to size with 7150 or 7155 services on page 583**
- **See pages 583-605 for all plastic panel machining services**

Part No.	Trade Name	Color	Thickness	Lbs. / Sq. Ft.	Stock Sheet Size
2650	Alucobest	Platinum	.236"	1.490	50" x 122"

An aluminum composite material composed of two .020" aluminum skins bonded to a polyethylene core, Alucobest has a smooth metallic finish similar to that of a solid aluminum panel, with only half the weight. Offering good impact resistance, Alucobest also resists buckling and warping and is easily machined. When you need a strong, solid panel for guarding, enclosures, or workstations in place of a solid aluminum sheet, Alucobest is the answer.

Alumalite® Panels

- **Lightweight composite panel**
- **Smooth, glossy, painted finish**
- **Water-resistant core**
- **Stable up to 120º**
- **Cut plastic panels to size with 7150 or 7155 services on page 583**
- **See pages 583-605 for all plastic panel machining services**

Part No.	Trade Name	Color	Thickness	Lbs. / Sq. Ft.	Stock Sheet Size
2633	Alumalite®	Blue	.236"	.625	48" x 96"
2634	Alumalite®	Red	.236"	.625	48" x 96"
2635	Alumalite®	Silver	.236"	.625	48" x 96"
2636	Alumalite®	Yellow	.236"	.625	48" x 96"

Alumalite®, a strong aluminum composite panel with a corrugated polyallomer core between two .016" aluminum skins, is a perfect choice for applications that require a lightweight, aesthetic looking panel. The CPA core provides Alumalite® weather-resistant properties that make this panel appropriate for indoor or outdoor applications including furniture, signs, displays, workstations and machine guarding.

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Twin Wall Polycarbonate Panels

- **Lightweight**
- **90% light transmission**
- **Resistant to weather and elements**
- **Twin walls**
- **Cut plastic panels to size with 7150 or 7155 services on page 583**
- **See pages 583-605 for all plastic panel machining services**
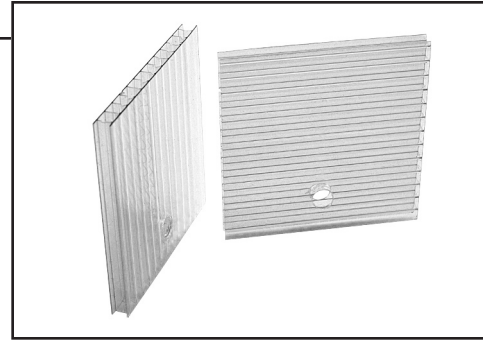
Part No.	Trade Name	Color	Thickness	Lbs. / Sq. Ft.	Stock Sheet Size
2640	–	Clear	.236"	.266	48" x 96"

Twin Wall Polycarbonate provides an excellent solution for a wide range of lightweight guarding, partition, and enclosure needs. At one-sixth the weight of a solid polycarbonate panel, Twin Wall Polycarbonate is quick and easy to work with.
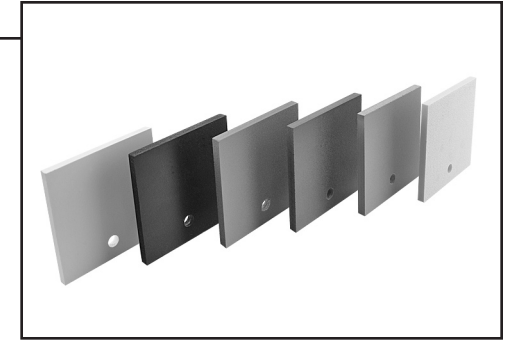
96"

48"

Horizontal Orientation

Vertical Orientation
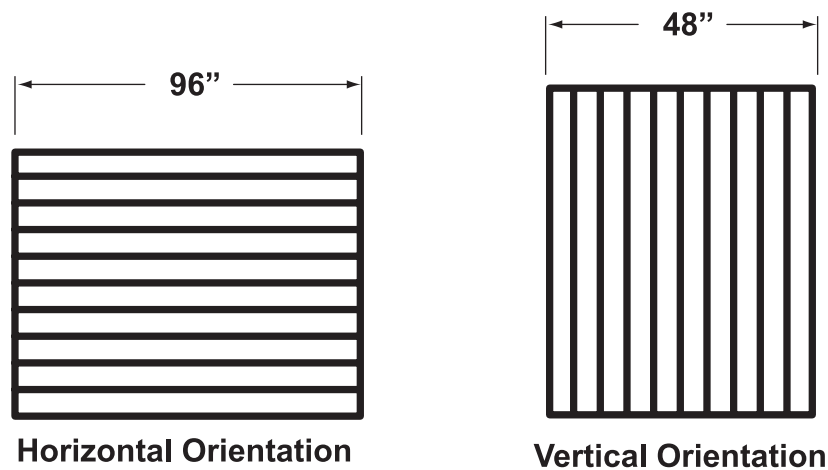
Always specify the required direction for the channel orientation when ordering Twin Wall Polycarbonate panels.

HDPE Panels

- **Cost-effective decorative panel available in six colors**
- **Haircell-type texture on both sides**
- **More impact-resistant than expanded PVC panels**
- **Very good chemical resistance**

Part No.	Trade Name	Color	Thickness	Lbs. / Sq. Ft.	Stock Sheet Size
2651	–	Black	.220 - .236"	1.200	48" x 96"
2652	–	Black	.177"	.900	48" x 96"
2653	–	White	.220 - .236"	1.200	48" x 96"
2654	–	White	.177"	.900	48" x 96"
2655	–	Gray	.220 - .236"	1.200	48" x 96"
2656	–	Gray	.177"	.900	48" x 96"
2657	–	Yellow	.220 - .236"	1.200	48" x 96"
2658	–	Yellow	.177"	.900	48" x 96"
2666	–	Blue	.220 - .236"	1.200	48" x 96"
2667	–	Blue	.177"	.900	48" x 96"
2668	–	Red	.220 - .236"	1.200	48" x 96"
2669	–	Red	.177"	.900	48" x 96"

HDPE panels, available in six colors, are a great alternative to Expanded PVC panels. HDPE panels are weather-resistant and have excellent machining characteristics. With two textured sides, this panel is a great option in areas where both sides of the panel are exposed. HDPE has a high coefficient of thermal expansion. Allow panels to expand and contract by using oversized mounting holes, and not captivating the panel tightly in the T-slot.
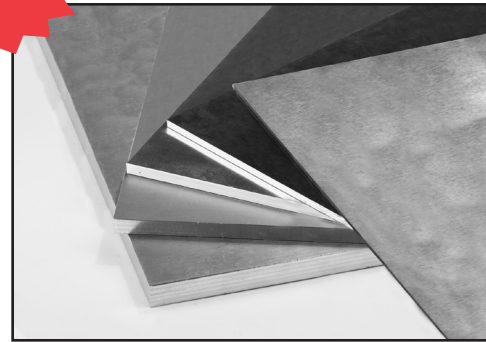
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Solid Aluminum Plate

NEW!

- **Unanodized mill finish**
- **Anodized parts quoted on request (CM)**
- **6061-T6 alloy**
- **See page 608 for aluminum plate machining services**

Part No.	Material	Thickness	Lbs. / Sq. Ft.	Stock Sheet Size
2452	Aluminum Plate	.060"	.889	48" x 144"
2453	Aluminum Plate	.125"	1.764	48" x 144"
2454	Aluminum Plate	.187"	2.680	48" x 144"
2455	Aluminum Plate	.250"	3.700	48" x 144"
2456	Aluminum Plate	.375"	5.550	48" x 144"

80/20® now offers solid aluminum, mill finish plate in five thicknesses. These aluminum sheets can be anodized and machined to meet your needs.

Laminated Table Tops DVD

- **Quality 1.25" high-pressure laminate table tops**
- **Perfect choice for completing your custom workstation**
- **Available in gray color**
- **1/8" PVC bumper edge coordinates with table color**
- **See page 443 for tabletop fastening kit**
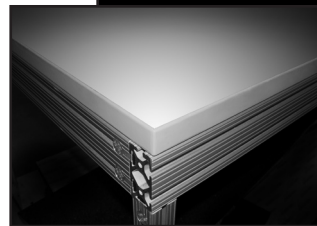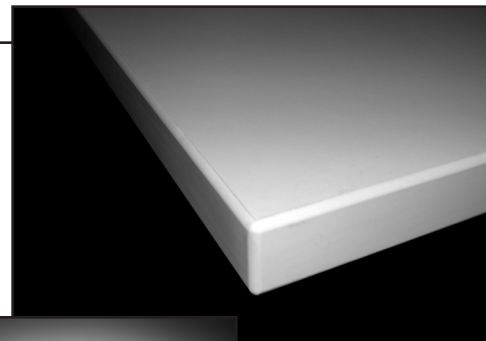
Part No.	Size	Lbs.
2800	1.25" x 30" x 48"	50.000
2802	1.25" x 30" x 60"	63.000
2804	1.25" x 30" x 72"	75.000
2806	1.25" x 36" x 72"	90.000

Expanded Metal Panels

- **Heavy-duty panel**
- **Powder coat or carbon steel finish**
- **Stronger than welded wire cloth**
- **Impact resistant**
- **Shear expanded metal panels to size with 7095 or 7100 services on page 583**
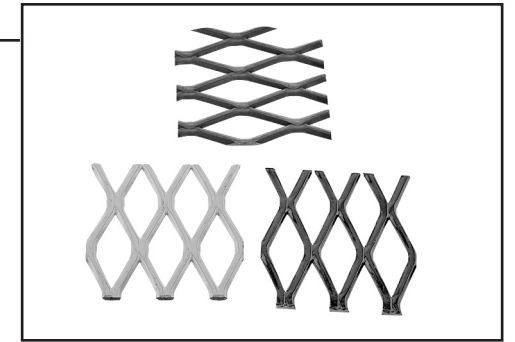
Part No.	Material	Type	Thickness	Lbs. / Sq. Ft.	Dimensions	Stock Sheet Size
2480	Carbon Steel	Flattened	.135"	1.720	Diamond 2" x .9"	48" x 96"
2481	Powder Coated Black	Flattened	.140"	1.720	Diamond 2" x .9"	48" x 96"
2482	Powder Coated Yellow	Flattened	.140"	1.720	Diamond 2" x .9"	48" x 96"

80/20®'s Expanded Metal Panels are the perfect choice for any heavy-duty guarding application. Available in a standard carbon steel finish, Expanded Metal is also stocked with a black or yellow powder coated finish. Expanded Metal surpasses wire mesh in strength and durability.

96"   48"
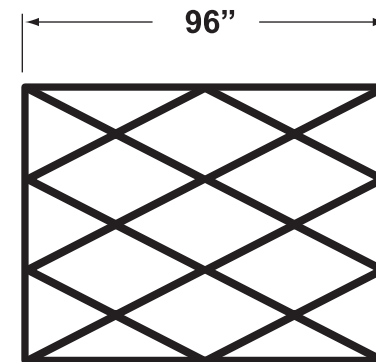
Horizontal Orientation
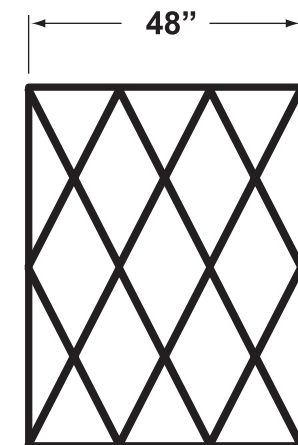
Always specify the required direction for the diamond orientation when ordering Expanded Metal Panels.

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Wire Mesh Panels

- **Great for guarding applications**
- **Low-cost alternative to expanded metal panels**
- **Lightweight yet impact resistant**
- **Powder coat or carbon steel finish**
- **Shear wire mesh panels to size with 7095 or 7100 services on page 583**

NOW AVAILABLE IN BLUE AND BLACK!

PVC Coated Wire Mesh Panels

- **Widely used in guarding and enclosure applications**
- **Strong yet lightweight**
- **Low wear value, won't flake or chip**
- **Light impact-resistant**
- **Corrosion resistant**
- **Shear wire mesh panels to size with 7095 or 7100 services on page 583**
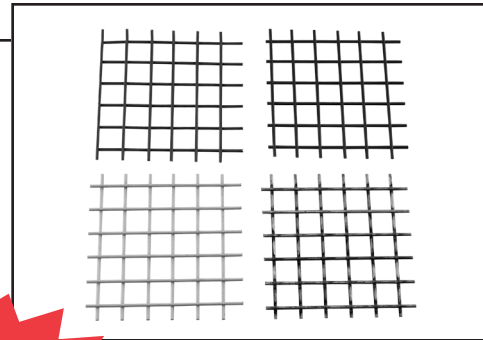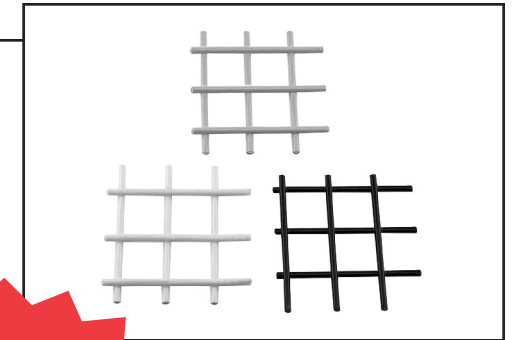
NOW AVAILABLE IN 2" X 2" DIMENSIONS!

Part No.	Material	Wire Gauge	Thickness	Lbs. / Sq. Ft.	Dimensions	Stock Sheet Size
2470	Galvanized Steel	12	.200"	1.010	Square 1" x 1"	48" x 96" +/- .50"
2460	Galvanized Steel	16	.137"	.510	Square .50" x .50"	48" x 96" +/- .50"
2468	Powder Coated Blue	12	.200"	1.010	Square 1" x 1"	48" x 96" +/- .50"
2463	Powder Coated Blue	16	.137"	.580	Square .50" x .50"	48" x 96" +/- .50"
2467	Powder Coated Red	12	.200"	1.010	Square 1" x 1"	48" x 96" +/- .50"
2462	Powder Coated Red	16	.137"	.580	Square .50" x .50"	48" x 96" +/- .50"
2471	Powder Coated Yellow	12	.200"	1.010	Square 1" x 1"	48" x 96" +/- .50"
2461	Powder Coated Yellow	16	.137"	.580	Square .50" x .50"	48" x 96" +/- .50"
2479	Powder Coated Black	12	.200"	1.010	Square 1" x 1"	48" x 96" +/- .50"
2464	Powder Coated Black	16	.137"	.580	Square .50" x .50"	48" x 96" +/- .50"

Welded Wire Mesh Panels are a great low cost alternative to expanded metal panels. While not as strong as expanded metal, their light weight makes working with Wire Mesh Panels quick and easy. Available in carbon steel and four powder coat colors, these Wire Mesh Panels work well for guarding and enclosure applications.

Part No.	Material	Wire Gauge	Thickness	Lbs. / Sq. Ft.	Dimensions	Stock Sheet Size
2472	PVC Coated Carbon Steel Black	12	.210"	1.300	Square 1" x 1"	48" x 96" +/- .50"
2474	PVC Coated Carbon Steel Black	16	.140"	.650	Square .50" x .50"	48" x 96" +/- .50"
2478	PVC Coated Carbon Steel Black	12	.210"	1.300	Square 2" x 2"	48" x 96" +/- .50"
2473	PVC Coated Carbon Steel Yellow	12	.210"	1.300	Square 1" x 1"	48" x 96" +/- .50"
2475	PVC Coated Carbon Steel Yellow	16	.140"	.650	Square .50" x .50"	48" x 96" +/- .50"
2477	PVC Coated Carbon Steel Grey	12	.210"	1.300	Square 1" x 1"	48" x 96" +/- .50"
2476	PVC Coated Carbon Steel Grey	16	.140"	.650	Square .50" x .50"	48" x 96" +/- .50"

PVC Coated Wire Mesh is the low-cost alternative to powder coated wire and expanded metal. Available in three colors, the PVC coating creates a clean look for your application and prevents cuts and other injuries. PVC Wire Mesh Panels are great for use in guarding, enclosure and machine frame applications.

We specialize in **FAST**™ *same day shipments!*

6

6

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Panel Area Calculation Chart

Directions for area calculation:

- **Round both length and width dimensions of the panel up to the next 6" increment.**
- **Find the length and width along the top and left side of area calculation chart.**
- **Find the area in square feet at the intersection of the length and width dimensions.**

Linear Dimensions	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"
6"	.25	.50	.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50
12"	.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
18"	.75	1.50	2.25	3.00	3.75	4.50	5.25	6.00	6.75	7.50
24"	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00
30"	1.25	2.50	3.75	5.00	6.25	7.50	8.75	10.00	11.25	12.50
36"	1.50	3.00	4.50	6.00	7.50	9.00	10.50	12.00	13.50	15.00
42"	1.75	3.50	5.25	7.00	8.75	10.50	12.25	14.00	15.75	17.50
48"	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00
54"	2.25	4.50	6.75	9.00	11.25	13.50	15.75	18.00	20.25	22.50
60"	2.50	5.00	7.50	10.00	12.50	15.00	17.50	20.00	22.50	25.00
66"	2.75	5.50	8.25	11.00	13.75	16.50	19.25	22.00	24.75	27.50
72"	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00
78"	3.25	6.50	9.75	13.00	16.25	19.50	22.75	26.00	29.25	32.50
84"	3.50	7.00	10.50	14.00	17.50	21.00	24.50	28.00	31.50	35.00
90"	3.75	7.50	11.25	15.00	18.75	22.50	26.25	30.00	33.75	37.50
96"	4.00	8.00	12.00	16.00	20.00	24.00	28.00	32.00	36.00	40.00
102"	4.25	8.50	12.75	17.00	21.25	25.50	29.75	34.00	38.25	42.50
108"	4.50	9.00	13.50	18.00	22.50	27.00	31.50	36.00	40.50	45.00
114"	4.75	9.50	14.25	19.00	23.75	28.50	33.25	38.00	42.75	47.50
120"	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00

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