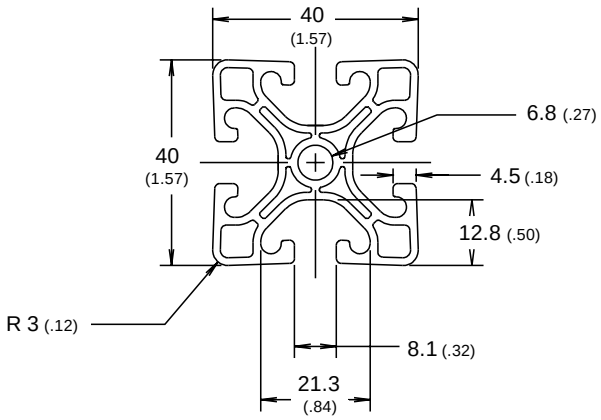
Extrusions/Fasteners 1-11
Enclosure/Gurarding Accessories 12-30
Floor Accessories 31-36
ParGlide Linear Motion 37-45
Machining Services 46-55

Dimensional Data

Part No. TSV4040

The TSV4040 profile is suitable for very light duty applications such as machine guarding/ enclosures and for light duty structural applications.

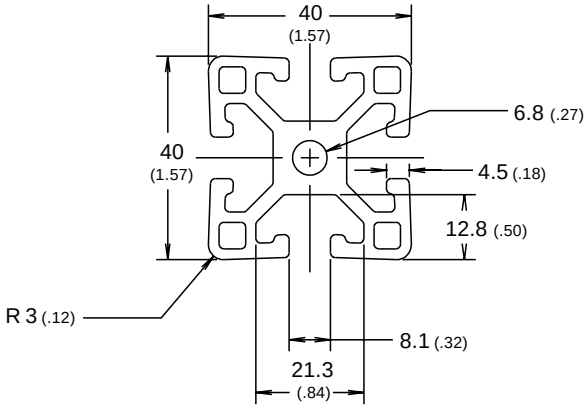
Weight:	1.50 kg/m (1.01 lbs/ft)
Cross-Sectional Area:	5.44 cm^2 (.84 in^2)
Moment of Inertia:	8.36 cm^4 (.201 in^4)
Section Modulus:	4.18 cm^3 (.255 in^3)



Part No. TSL4040

The TSL4040 profile is suitable for light to medium duty applications such as machine guarding/enclosures and structures.

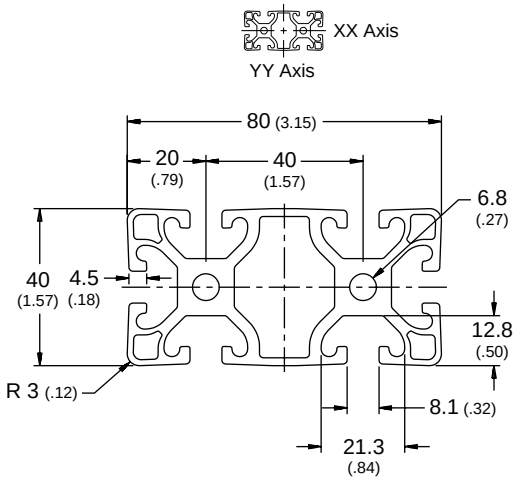
Weight:	1.86 kg/m (1.25 lb/ft)
Cross-Sectional Area:	6.71 cm^2 (1.04 in^2)
Moment of Inertia:	10.07 cm^4 (.242 in^4)
Section Modulus:	5.04 cm^3 (.307 in^3)



Part No. TSV4080

The TSV4080 profile is suitable for light to medium duty structural applications. The center of the profile can be used to house electrical or air lines, or as a manifold for pressurized air (150 psi maximum).

Weight:	2.95 kg/m (1.98 lb/ft)
Cross-Sectional Area:	10.85 cm^2 (1.68 in^2)
Moment of Inertia:	Ixx= 16.48 cm^4 (.397 in^4)
	Iyy= 64.57 cm^4 (1.55 in^4)
Section Modulus:	Zxx= 8.25 cm^3 (.503 in^3)
	Zyy= 16.14 cm^3 (.985 in^3)
Internal Volume:	6.77 cm^3/cm (1.05 in^3/in)



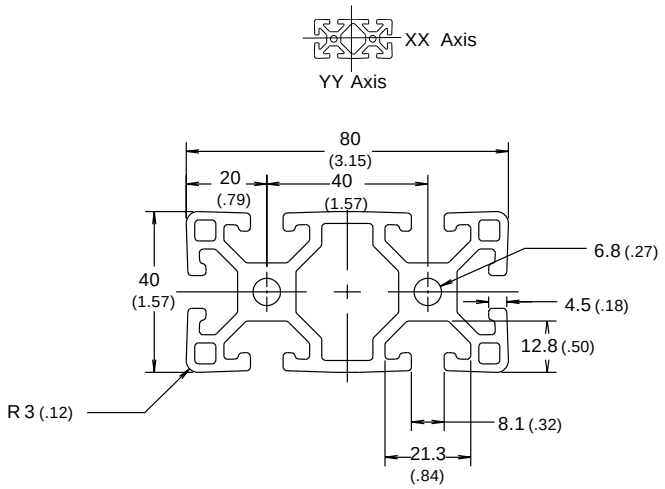
Note: All dimensions shown in mm (in)

Dimensional Data

Part No. TSL4080

The TSL4080 profile is suitable for light to medium duty structural applications. The center area of the profile can be used to house electrical or air lines, or as a manifold
for pressurized air (150 psi maximum).

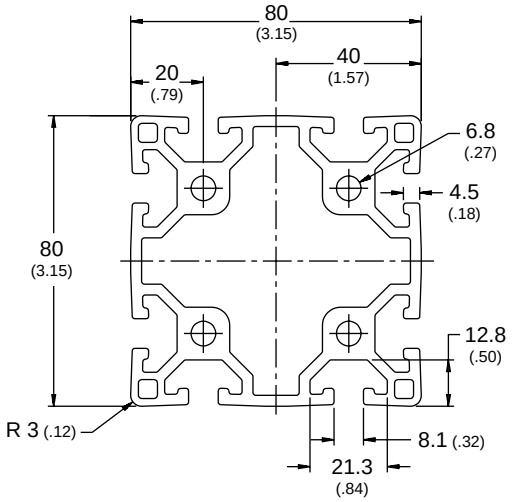
Weight:	3.34 kg/m (2.24 lb/ft)
Cross-Sectional Area:	12.02 cm^2 (1.86 in^2)
Moment of Inertia:	Ixx= 19.37 cm^4 (.465 in^4)
	Iyy= 73.96 cm^4 (1.78 in^4)
Section Modulus:	Zxx= 9.69 cm^3 (.591 in^3)
	Zyy= 18.49 cm^3 (1.13 in^3)
Internal Volume:	6.44 cm^3/cm (1.00 in^3/in)



Part No. TSL8080

The TSL8080 profile is suitable for medium duty structural applications. The center area of the profile can be used to house electrical or air lines, or as a manifold for pressurized air (150 psi maximum).

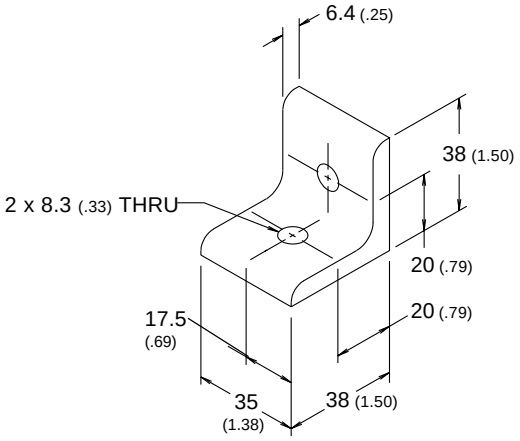
Weight:	5.12 kg/m (3.44 lb/ft)
Cross-Sectional Area:	18.87 cm^2 (2.93 in^2)
Moment of Inertia:	133 cm^4 (3.20 in^4)
Section Modulus:	66.5 cm^3 (4.06 in^3)
Internal Volume:	27.00 cm^3/cm (4.18 in^3/in)



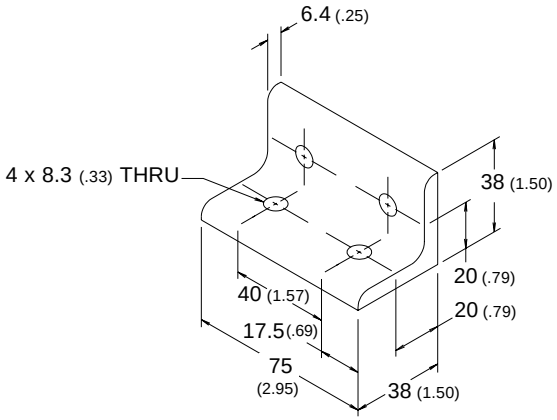
Note: All dimensions shown in mm (in)

Angle Brackets

TSB4040



TSB4080

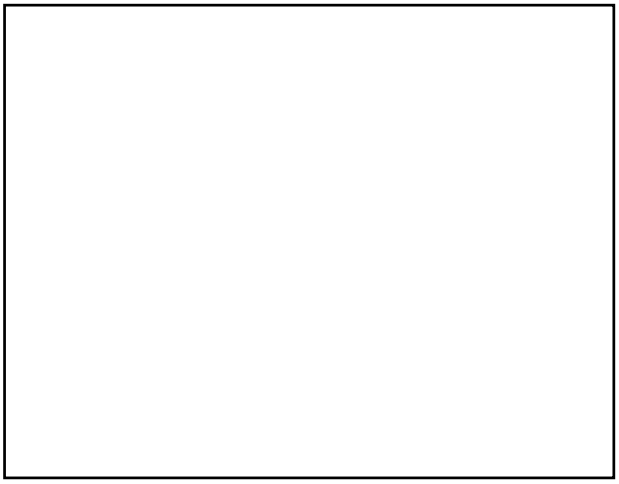


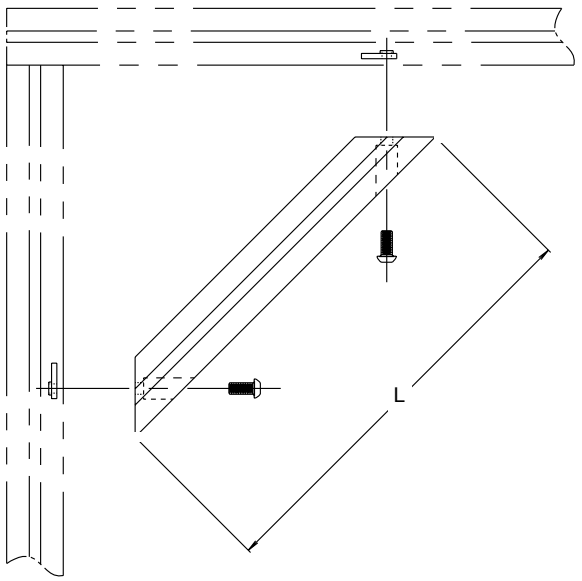
45° Support Brackets

These are used to provide a very high strength right angle connection. The chart below provides standard lengths. Custom lengths are available on request.

Machining Required: For a 45° support bracket, the profile requires a miter cut and counterbore operation – see Machining section.

Part No.	Material cm	Length in	kg	lb	Weight
TSS2150	15	5.9	0.20	0.44	TSL4040 Extrusion Profile
TSS2300	30	11.8	0.48	1.06	
TSS2450	45	17.7	0.76	1.67	
TSS2600	60	23.6	1.04	2.29	
TSS5150	15	5.9	0.37	0.81	TSL4080 Extrusion Profile
TSS5300	30	11.8	0.87	1.91	
TSS5450	45	17.7	1.37	3.01	
TSS5600	60	23.6	1.87	4.11	





Hinged Support Bracket

These hinges may be mounted at the end or the side of 40mm profiles and are generally used for two purposes. First, they can eliminate miter cuts when mounted like a gusset and fixed (eliminating rotation with the pin). Second, they each provide free rotation as a pivoting joint. The axis of the pivot pin may be orientated parallel or perpendicular to the T-slot allowing maximum flexibility.

Die cast tabs provide alignment with the profile and may be broken off for side-of-profile mounting. A drill point is cast into the body. When drilled through, a pin may be pressed in. A roll pin is provided as standard for gusset-type support applications.

Hinged support brackets may be mounted using a single bolt or a pair of anchor fasteners. The twin anchor fastener mount (for end of profile only) will provide greatest rigidity.

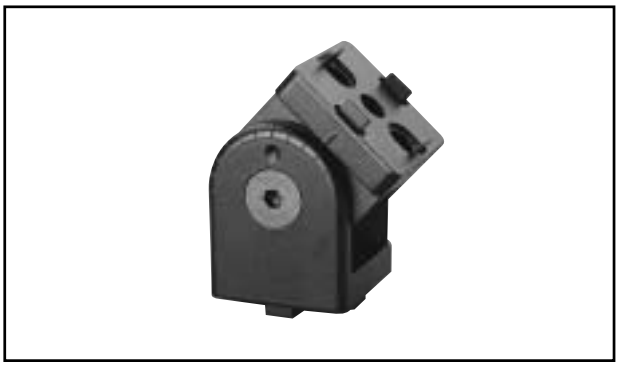
Part No.: TSA0150

Material: Zinc Die Casting

Color: Black

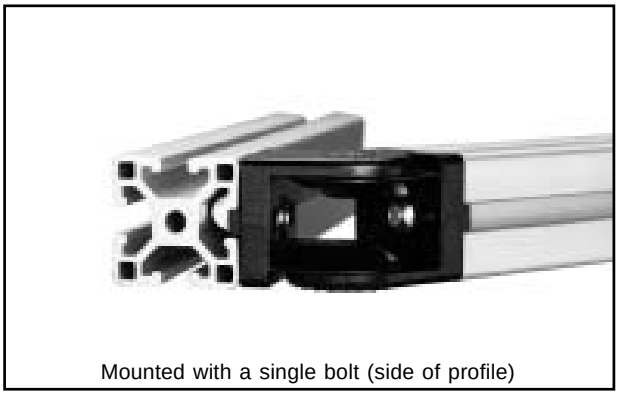
Machining Required: Anchor fastening assemblies utilize two counterbore operations. Refer to Machining section for details.

Fastening the hinge to the end of a profile requires tapping the end. Refer to the Machining section for details.



Mounted with anchor fasteners

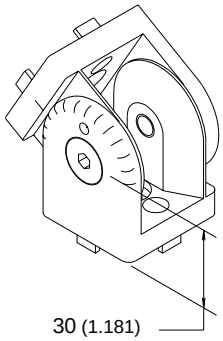
Mounted with a single bolt (end of profile)



Mounted with a single bolt (side of profile)

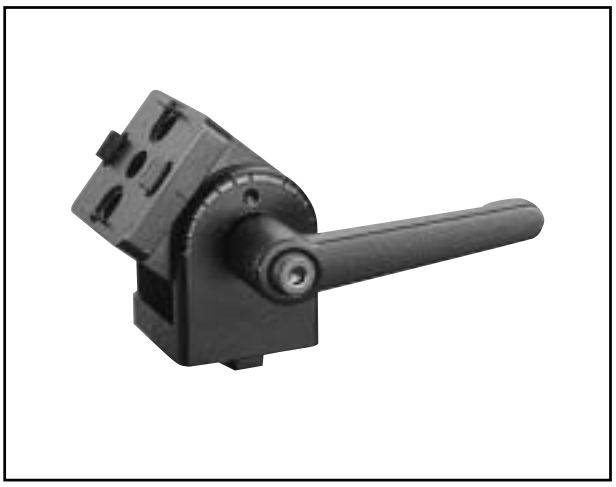
RECOMMENDED FASTENERS

Dimension	Anchor Fasteners	End of Profile	Side of Profile
Metric	TSF4008-35 (2 pcs)	TSF4008-25	TSF4008-18



Note: All dimensions in mm (in)

Hinged Support Bracket with Handle



These adjustable hinges may be mounted at the end or the side of 40mm profiles and are generally used for two purposes. First, they can eliminate miter cuts when mounted like a gusset. Second, they each provide free rotation as a pivoting joint. The axis of the pivot pin may be orientated parallel or perpendicular to the T-slot allowing maximum flexibility. Die cast tabs provide alignment with the profile and may be broken off for side of profile mounting.

Hinged support brackets may be mounted using a single bolt or a pair of anchor fasteners. The twin anchor fastener mount (for end of profile only) will provide greatest rigidity.

Handle allows for fixed positioning without drilling and pinning.

Part No.: TSA0152

Material: Zinc Die Casting

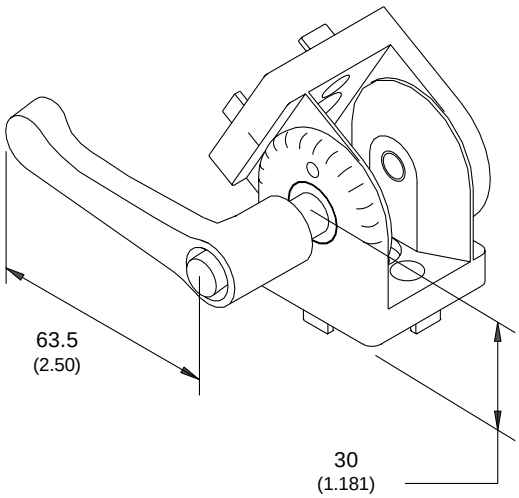
Color: Black

Machining Required: Anchor fastening assemblies utilize two counterbore operations. Refer to Machining section.

Fastening the hinge to the end of a profile requires tapping the end. Refer to Machining section for details.

RECOMMENDED FASTENERS

Dimension	Anchor Fasteners	End of Profile	Side of Profile
Metric	TSF4008-35 (2 pcs)	TSF4008-25	TSF4008-18

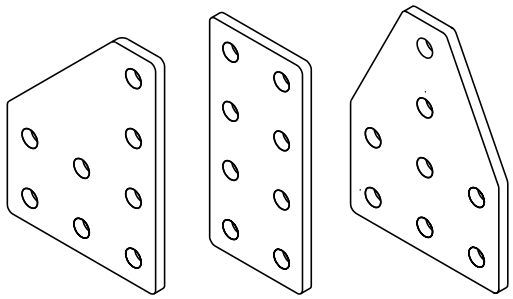


Note: All dimensions in mm (in)

Joining Plates

Joining Plates provide a simple and economical method for connecting extrusion profiles without drilling or tapping. Attachment can be made inline, at right angles or at 45° angles.

Material: 6061-T6 Aluminum Alloy, Clear Anodized



Part No.	Attachment	Profiles	Weight, kg (lb)	Number of Holes
TSJ4000	Inline or right angle	Two 40 x 40	.05 (.10)	2
TSJ4002	Double inline or right angle	Two 40 x 40 or two 40 x 80	.09 (.20)	4
TSJ4010	Right angle	Two 40 x 40 or two 40 x 80	.17 (.38)	5
TSJ4012	"T"	Two 40 x 40 or two 40 x 80	.17 (.38)	5
TSJ4014	45° angle	Two 40 x 40 or two 40 x 80	.25 (.54)	4
TSJ4016	45° angle	Two 40 mm or two 80 mm	.37 (.81)	6
TSJ8000	Inline or right angle	Two 40 x 80	.10 (.21)	4
TSJ8002	Inline or right angle	Two 40 x 80 or two 80 x 80	.20 (.43)	8
TSJ8010	Right angle	Two 40 x 80 or two 80 x 80	.36 (.79)	12
TSJ8012	"T"	Two 40 x 80 or two 80 x 80	.36 (.79)	12

Recommended Fasteners

For Part Numbers TSJ40xx and TSJ80xx (All quantities as required per number of holes)

1) Button Head Cap Screw Method

Metric

TSF4008-18 BHSCS
TSF3008 Standard T-Nut
or
TSF3208 Drop In T-Nut

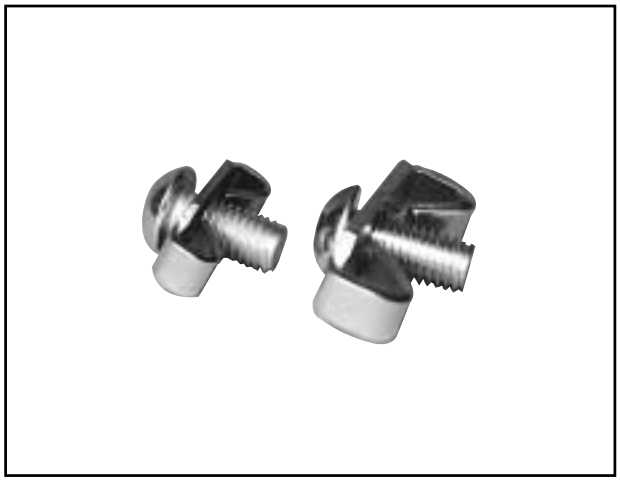
2) T-Slot Stud Method

Metric

TSF4208-20 T-Slot Stud
TSF1008 Flat Washer

End Fastener Assembly

This assembly provides a hidden right angle connection between two extrusion profiles. The bolt threads into a tapped hole at the end of an extruded profile. End fasteners resist rotation better than a single bolt connection.

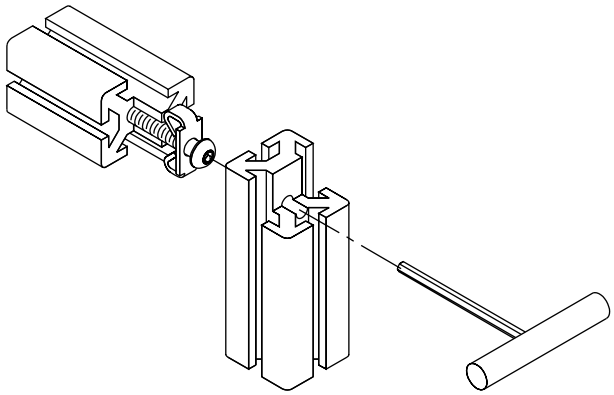


Material: Zinc Plated Carbon Steel

Machining Required: A fastener assembly requires two machining operations:

1. Tap the end of one profile - refer to the Machining section.
2. Drill an access hole in the other profile - refer the Machining section for details

Part No.	Description	Profiles
TSF0026	End Fastener with M8 x 20 BHSCS	40 & 80



Anchor Fastening Assembly

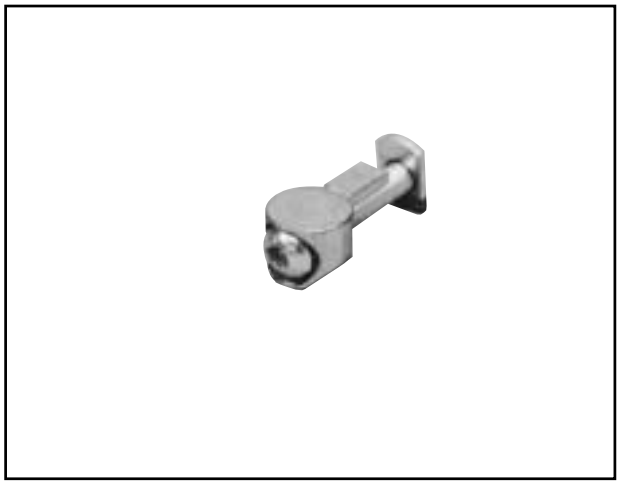
Anchor fasteners provide a clean, high strength, low-profile, right angle connection between two extrusion profiles where the T-slots are in line. Anchor fastened beams can easily be added to existing structures and are position adjustable.

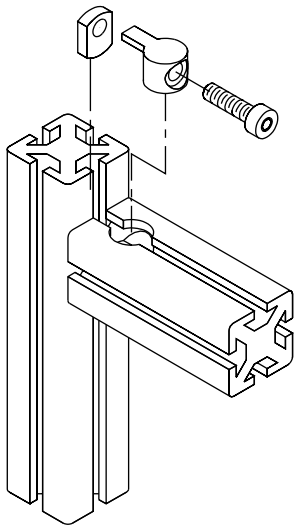
Material: Zinc Die Casting, Zinc Plated Carbon Steel

Machining Required: The Anchor Fastening Assembly requires a counterbore operation – refer to the Machining section for details.

Design Tip: Two anchor fasteners should be located in opposite T-slots. Example: T-slot locations A1 and A3 (See machining section).

Part No.	Description	Profiles	Weight
TSF0022	Includes M8 x 30 SHCS and Nut	Includes 40 & 80	.03 kg (.07 lb)





Butt Fastening Assembly

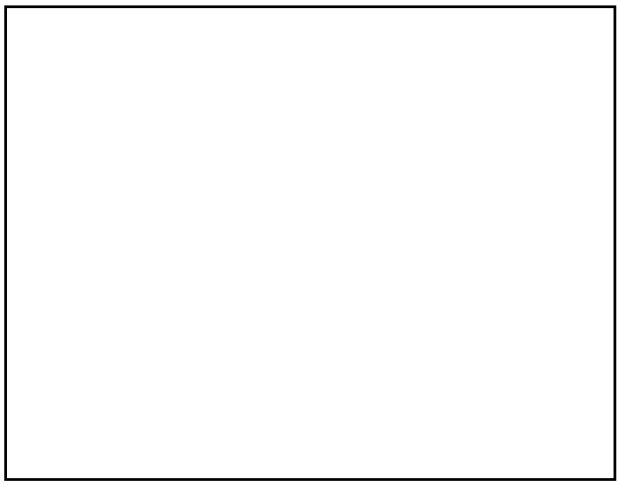
The Butt Fastening Assembly is used to join two similar extrusions end to end, where a hidden connection is desired. This fastening method allows lengthening of a structure and is particularly suited to "seamless" long conveyor lines with end-to-end connections.

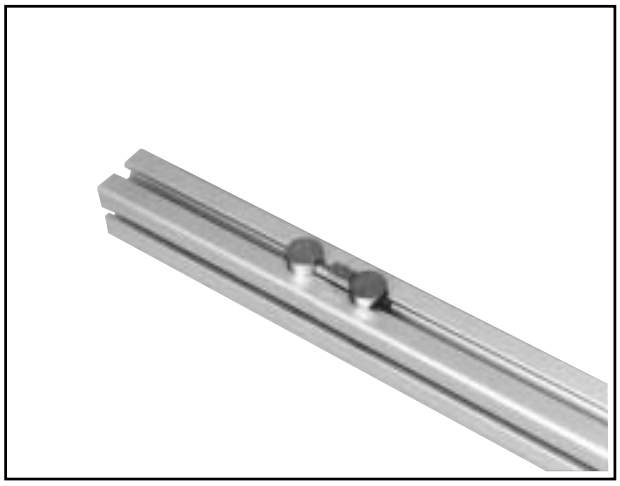
Material: Zinc Die Casting, Zinc Plated Carbon Steel

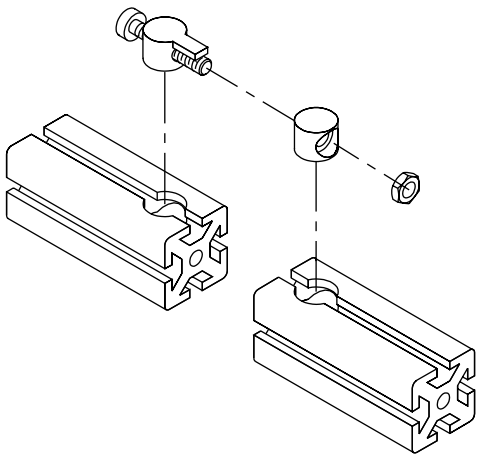
Machining Required: The Butt Fastening Assembly requires a counterbore operation in both profiles being connected – refer to Machining section for details.

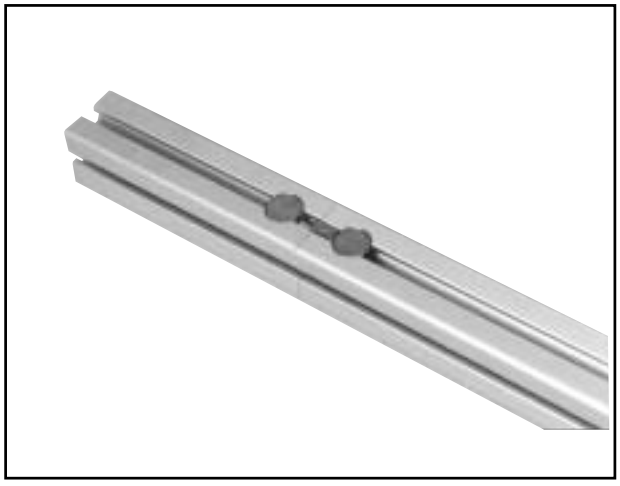
Design Tip: Two butt fasteners should be located in opposite T-slots. Example: A1 and A3 (See Machining section).

Part No.	Description	Profiles	Weight
TSF0020	Includes M8 x 45 SHCS	40 & 80	.05 kg (.12 lb)







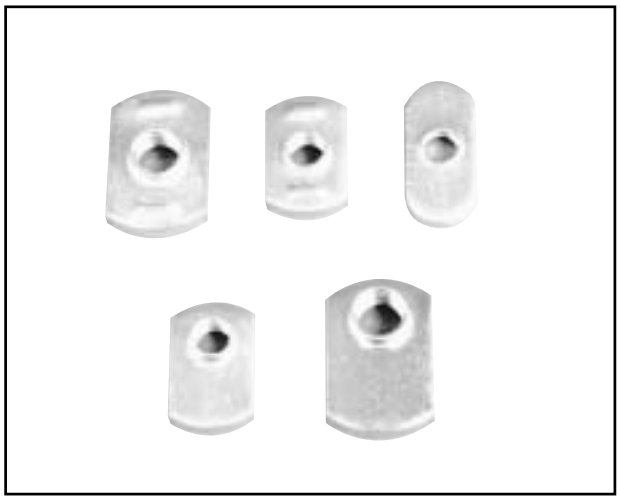


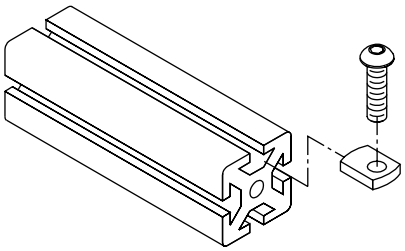
Economy T-Nuts

The economy T-Nut is the most economical method of fastening, and provides a high strength connection. This nut must be installed into the T-slot from an open end of the extrusion profile.

Material: Zinc Plated Carbon Steel

Assembly Tip: Insert economy T-nuts into the T-slot before final installation of accessories.

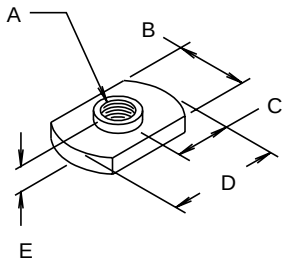




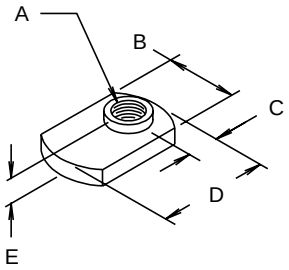
Part No.	A	B		C		D		E		Weight		Tapped Hole Position
		mm	in	mm	in	mm	in	mm	in	kg	lb	
TSF3004*	M4	11.00	0.43	11.00	0.43	22.00	0.87	3.50	0.14	0.005	0.01	Centered
TSF3005*	M5	11.00	0.43	11.00	0.43	22.00	0.87	3.50	0.14	0.005	0.01	Centered
TSF3006	M6	13.00	0.51	6.50	0.26	20.50	0.81	4.50	0.18	0.005	0.01	Offset
TSF3008	M8	16.00	0.63	7.00	0.28	25.00	0.87	5.80	0.23	0.009	0.02	Offset
TSF8019	10-32	11.00	0.43	11.00	0.43	22.00	0.87	3.50	0.14	0.005	0.01	Centered
TSF8025	1/4-20	13.00	0.51	6.50	0.26	20.50	0.81	4.50	0.18	0.005	0.01	Offset
TSF8031	5/16-18	16.00	0.63	7.00	0.28	25.00	0.87	5.80	0.23	0.009	0.02	Offset

* TSF3004 and TSF3005 can be dropped into the T-slot of 40 mm profiles after assembly.

T-Nut with Center Hole Position



T-Nut with Offset Hole Position



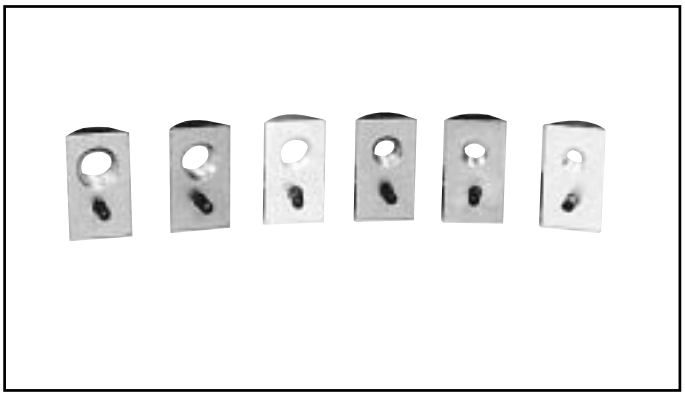
Drop In T-Nut

The Drop In T-Nut has a unique profile which allows it to be inserted into the T-slot at any point along an extrusion profile. This feature is useful when adding hardware to an existing assembly where the ends of the profile are not accessible.

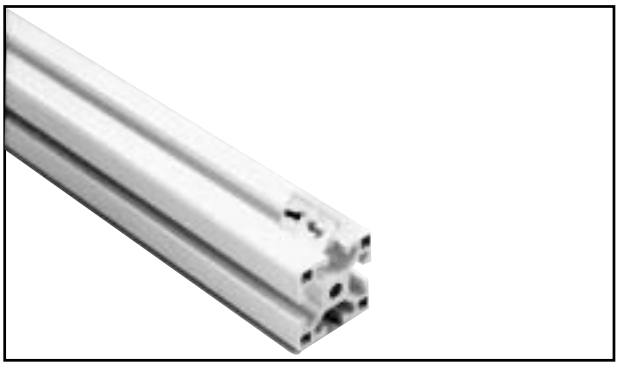
As an added benefit, the rubber tip can be used to drag the nut into place. Furthermore, a rubber tip provides a friction hold so that the T-nut remains fixed in place. This is especially important in vertical profiles.

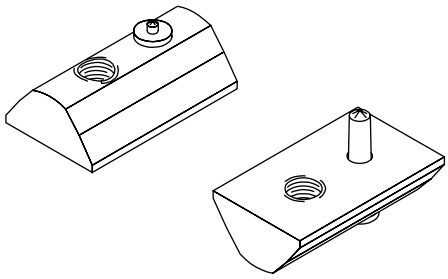
Material: Zinc Plated Carbon Steel

Weight: .009 kg (.02 lb)



Part No.	T-Nut Thread
TSF3205	M5
TSF3206	M6
TSF3208	M8
TSF8219	10-32
TSF8225	1/4-20
TSF8231	5/16-18





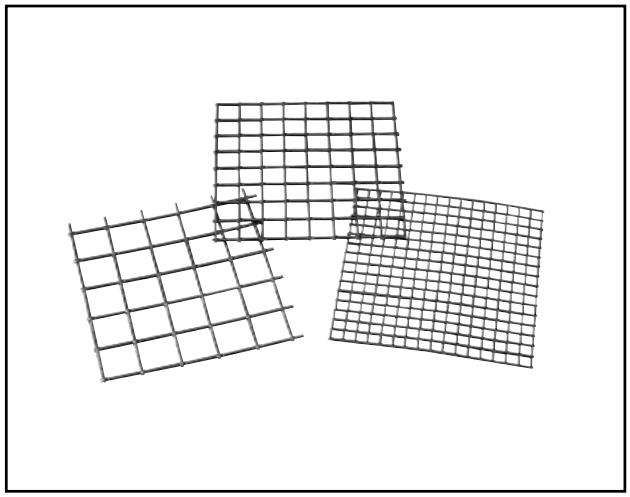
PVC Coated Wire Mesh

Maximum Size: 120 x 240 cm (48 x 96 in)

Machining Service: Custom mesh panels can be cut as required.

Specify dimensions.

Part No.	Color*	Square Size	Wire Gauge	Weight, kg/m² (lb/ft²)
TSP0054	Black	1/2" x 1/2"	16	3.1 (.62)
TSP0056	Black	1" x 1"	12.5	4.2 (.85)



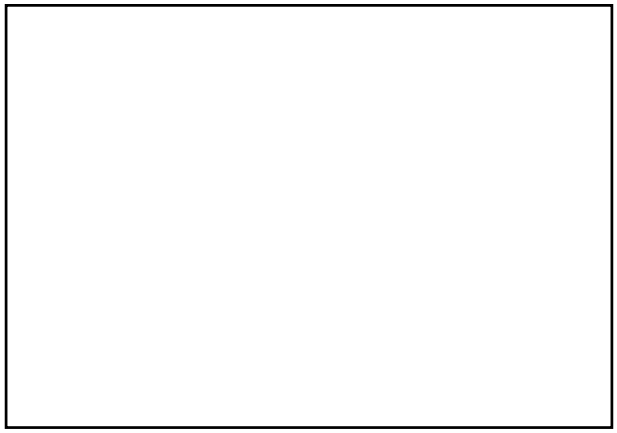
Economy Retainer for Wire Mesh

These retainers securely fasten wire mesh within the T-slot. Fasteners included.

Part No.: TSP0052

Material: Steel

Design Tip: For a 60 x 60 cm (2 x 2 ft) or smaller panel, use one clamp per side.



Deluxe Retainer for Wire Mesh

Mechanical clamps securely fasten wire mesh within the T-slot. Fasteners and backing plate are included. Specify inch or metric mounting to profile.

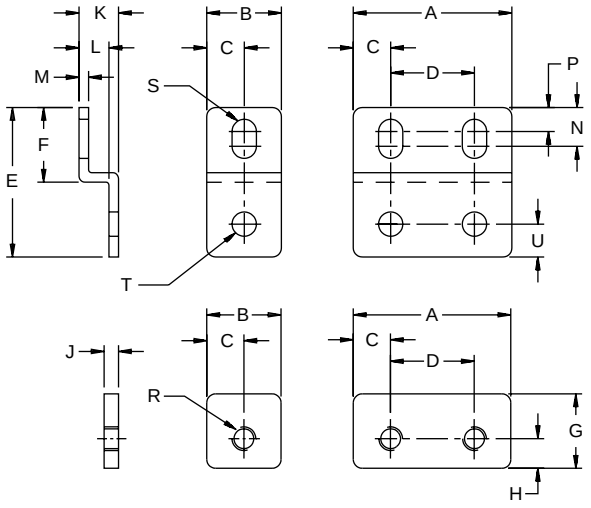
Material: Aluminum

Design Tip: For a 60 x 60 cm (2 x 2 ft) or smaller panel, use one clamp per side.

Part No.	Description	Weight	
		kg	lb
TSP4007	Single retainer, 40/80	.07	.16
TSP4008	Double retainer, 40/80	.14	.31

RECOMMENDED FASTENERS

Part No.	Metric
TSP4007	TSF4008-16 TSF3008
TSP4008	(2) TSF4008-16 (2) TSF3008



Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	ØT	U
TSP4007	N/A	40 (1.57)	20 (.79)	N/A	75 (2.95)	40 (1.57)	40 (1.57)	15 (.59)	4.8 (.19)	20.8 (.82)	16 (.63)	4.8 (.19)	24 (.945)	12 (.472)	5/16-18 THD	4.1 (.16)	8.12 (.320)	15 (.591)
TSP4008	80 (3.15)	N/A	20 (.79)	40 (1.575)	75 (2.95)	40 (1.57)	40 (1.57)	15 (.59)	4.8 (.19)	20.8 (.82)	16 (.63)	4.8 (.19)	24 (.945)	12 (.472)	5/16-18 THD	4.1 (.16)	8.12 (.320)	15 (.591)

Note: All dimensions in mm (in)

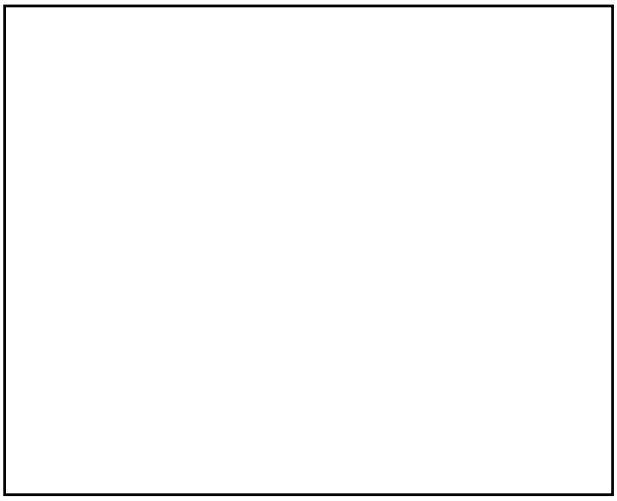
Panels

Panels are available in polycarbonate, expanded PVC or Trespa®.

Trespa is a very strong, scratch resistant panel material made from thermosetting resins reinforced with wood fibers. Trespa® panels have a decorative appearance which makes them ideal for displays, work surfaces, etc.

Machining Service: Custom panels can be cut as required. Specify dimensions. See Machining section.

Design Tip: Panel dimensions will deviate slightly depending on what fastening method is utilized.



Part No.	Color*	Material Description*	Maximum Size, cm (in)	Weight, kg/m² (lb/ft²)
TSP0002	Light Smoke	Polycarbonate – 6 mm (.25 in)	120 x 240 (48 x 96)	7.6 (1.6)
TSP0004	Clear	Polycarbonate – 6 mm (.25 in)	120 x 240 (48 x 96)	7.6 (1.6)
TSP0006	Black	Expanded PVC – 6 mm (.25 in)	120 x 240 (48 x 96)	4.4 (0.9)
TSP0008	Light Gray	Expanded PVC – 6 mm (.25 in)	120 x 240 (48 x 96)	4.4 (0.9)
TSP0010	White	Trespa® – 6mm (.25 in)	153 x 305 (60 x 120)	8.5 (1.7)

* Consult factory for other colors and materials.

Tightening the fit of a 6mm (.25 in) panel inside an 8 mm slot, the panel seal is pressed into the T-slot by hand or rounded tool, after a panel has been framed.

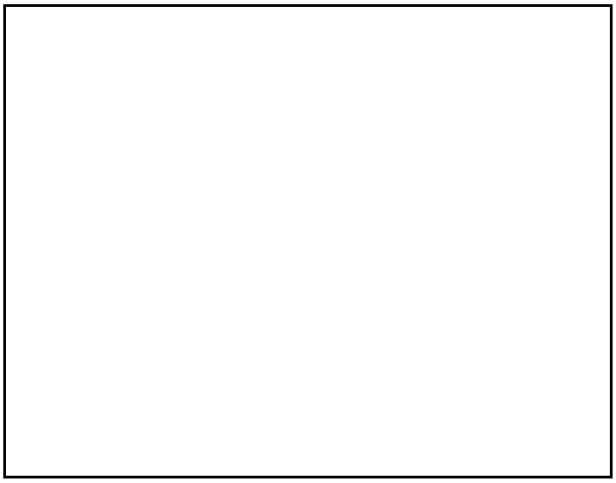
Part No.: TSA0001

Length: 150 cm (60 in)

Material: Flexible PVC

Color: Black

Design Tip: Push in this seal after a panel is captive.



Panel Gasket

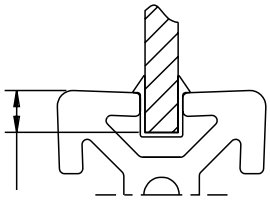
These gaskets tighten the fit of a 6mm (.25 in) panel inserted into an 8mm T-slot. Gaskets prevent rattling.

Length: 150 cm (60 in)

Assembly Tip: The TSA0003 soft gasket must be placed on panels prior to assembly. The TSA0004 hard gasket is placed into the profile T-slot before inserting the panel.

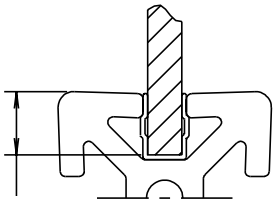
Part No.	Description	Profiles
TSA0003	Soft, vinyl, gray	40 & 80
TSA0004	Hard, high density, polyethylele, black	40 & 80

TSA0003



Add 8 mm (.32) per side

TSA0004



Add 10 mm (.39) per side

Panel Stiffener/Handle

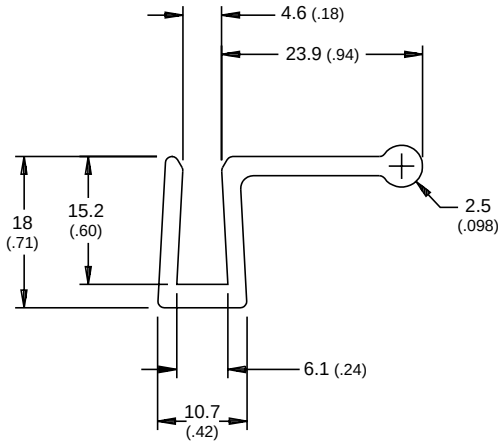
Aluminum profile easily mounts to edge of 6mm (1/4") thick panels. Offers rigidity to panels and provides a built-in handle.

Part No.: TSA0018

Length: Up to 305 cm (120")

Material: 6063-T6 Anodized Aluminum

Assembly Tip: Install with soft rubber mallet.



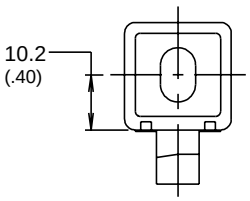
1/4-Turn Mounting Block

This block cam locks into place without utilizing tools. These provide easy mounting of paneling of various thickness. Panels may be mounted flush or overlap the profile as pictured below. **All fasteners included.**

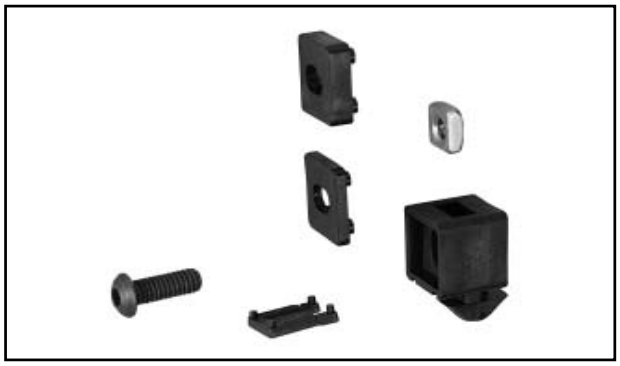
Part No.: TSP4004

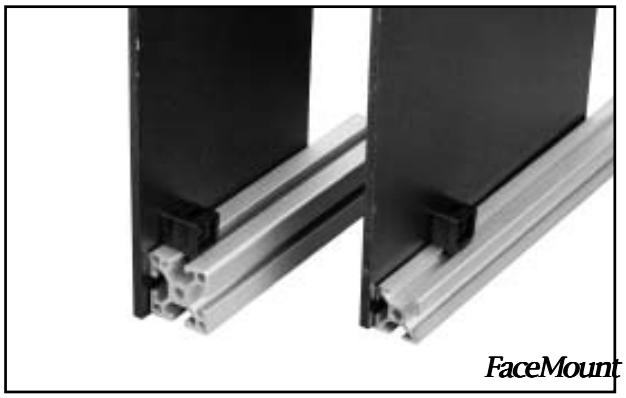
Material: Glass Filled Nylon

Assembly Tip: The mounting nut has freedom to move perpendicular to the profile's axis. This allows room for error in drilling a mounting hole through the paneling. Panel hole size is 0.28".

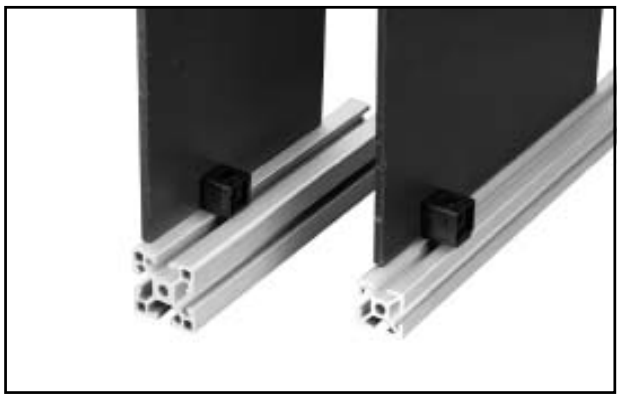


40 & 80 profiles





FaceMount



Note: All dimensions in mm (in)

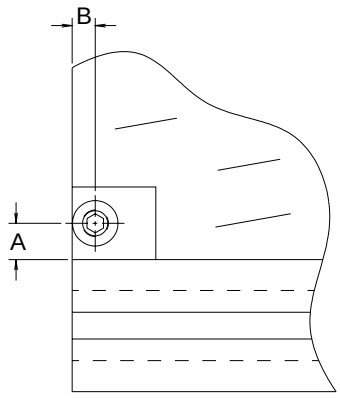
Panel Mounting Blocks

These blocks are used as a very strong mounting surface to attach a panel to a profile. One side of the block allows a 6 mm (.25 in) panel to mount flush with the edge of the profile. The opposite side of the block provides a mounting surface in line with the outside profile edge. **All fasteners included.**

Material: 6061-T6 Aluminum Alloy, Clear Anodized

Machining Required: To facilitate attachment of a plastic panel to the Panel Mounting Block, a thru hole should be drilled in the panel. Panel hole size is 0.28".

Part No.	Profile	Weight	
		kg	lb
TSP4002	40 & 80	0.5	0.11



Part No.	A	B
TSP4002	11 (.43)	7 (.28)

FaceMount

FlushMount

Note: All dimensions in mm (in)

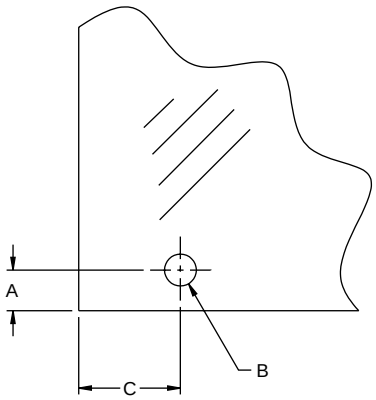
Quick Release Panel Mounting Block

These blocks are used to securely mount a panel to a profile. The panel can be easily removed with a quarter turn of the fastener. Flush mount or face mount are available. **All fasteners included.**

Material: 6061-T6 Aluminum Alloy, Clear Anodized

Machining Required: To facilitate attachment of a plastic panel to the Panel Mounting Block, a thru hole should be drilled in the panel. Panel hole size is 0.31".

Part No.	Mounting	Weight	
		kg	lb
TSP4020	Flush	.05	.10
TSP4022	Face	.05	.10



Part No.	A	B	C
TSP4020	10.2 (.40)	8 (.315)	As Required
TSP4022	45.7 (1.80)	8 (.315)	As Required

Note: All dimensions in mm (in)

Door Latch Assemblies

L-Handle

This latch secures all 40 mm framed doors. **All fasteners included.**

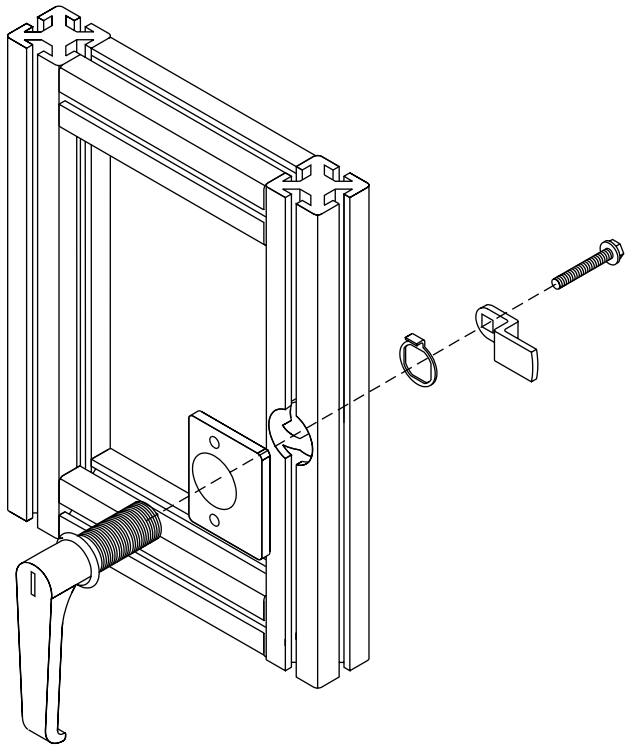
Material: Die Cast Zinc

Color: Black Powder Coating

Machining Service: Profiles can be pre-drilled if necessary. Refer to Machining section.

Design Tip: Use for framed doors larger than 60 x 60 cm (2 x 2 ft). Framing these doors helps reduce flexing.

Part No.	Description
TSA0140	Locking
TSA0142	Non-Locking



Door Latch Assemblies

Push Button

This latch secures unframed doors. **All fasteners included.**

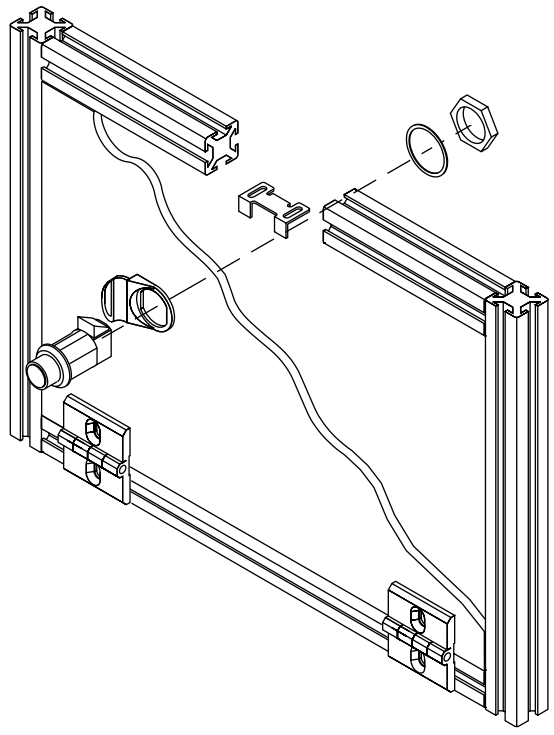
Material: Thermoplastic Polyester

Color: Black

Machining Service: Panels can be pre-drilled if necessary. Refer to Machining section.

Design Tip: Use for unframed doors smaller than 60 x 60cm (2 x 2 ft).

Part No.	Type
TSA0136	Locking
TSA0138	Non-Locking



Door Latch Assemblies

Deadbolt Latch

This latch secures 40 mm framed doors with a deadbolt.

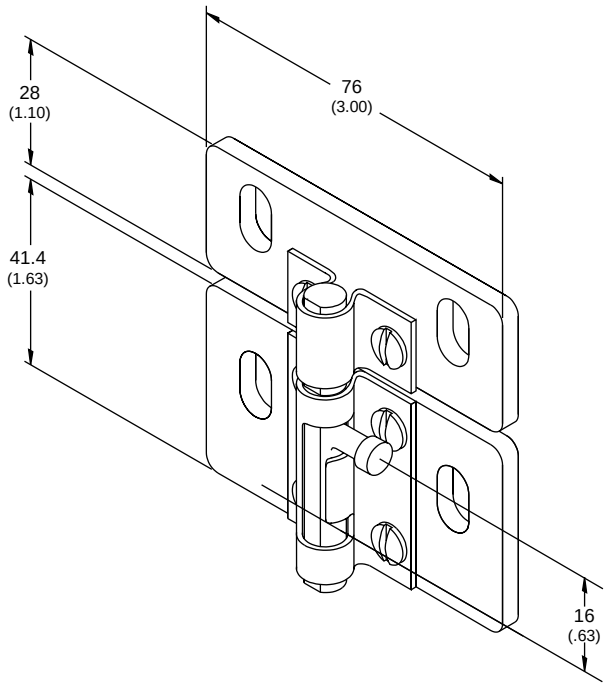
Part No.: TSA0300

Material: Mounting plates – aluminum
Deadbolt – steel

Color: Black

Fastening Sets

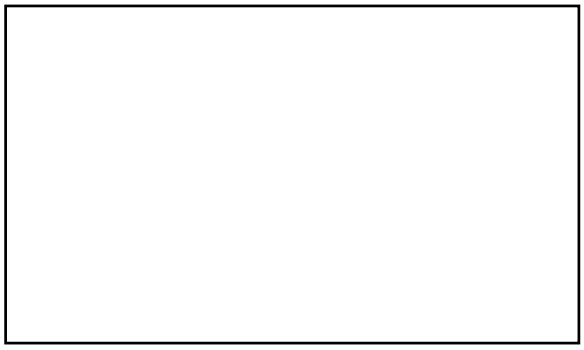
Part No.	Connection
TSF2514	40 Door to 40/80 Frame

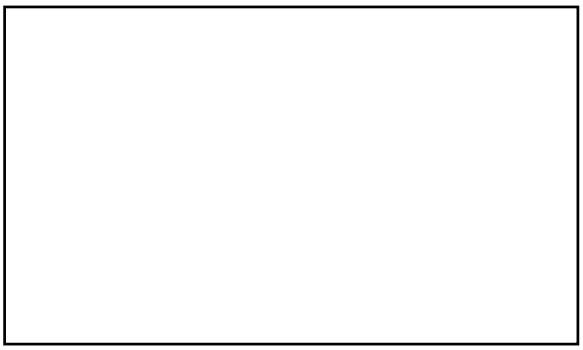


Handles

Two types of handles are available: First, a heavy-duty plastic handle (in two sizes) for mounting to profile T-slots. Second, a lighter duty nickel coated brass handle mounts directly to plastic panels. **All fasteners included.**

Machining Required: Panel mounting of Part No. TSA0114 requires two 5 mm (.19 in) diameter thru holes at 101.5 mm (4.00 in) centers.





Part No.	Hole Center Distance		Material	Color	Application	Weight	
	mm	in				kg	lb
TSA0103	117	4.61	Plastic	Black	All Profiles	0.05	0.10
TSA0104	179	7.05	Plastic	Black	All Profiles	0.07	0.15
TSA0114	101.5	4.00	Nickel Coated Brass	Silver	Plastic Panel	0.07	0.15

Metal Lift-Off Hinge Sets

Lift-off hinges allow doors to be lifted off to provide access into a structure. These hinges provide mounting of 40 mm framed doors to 40 & 80 mm profiles.

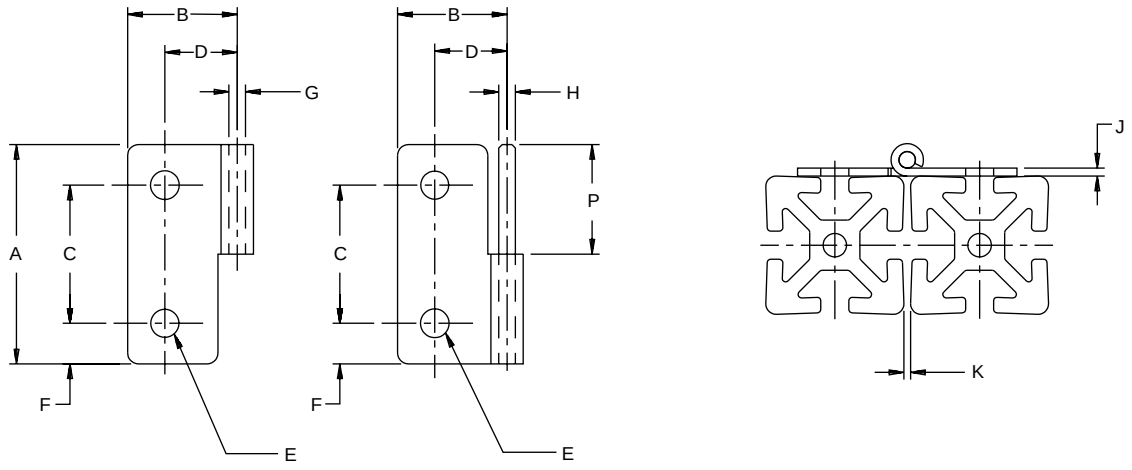
Specify a left hand or right hand lift-off hinge set. A set includes two hinges per door. See next page for a pictorial description. **All fasteners included.**

Material: Steel

Color: Black

Assembly Tip: For a **lift-off** door, both hinge pins should point in the same direction. For a **captive** door, hinge pins should point in opposite directions.

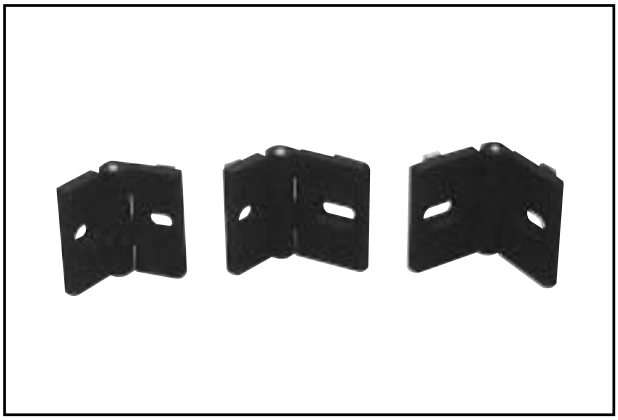
Hinge Sets	Frame/Door Profile Sizes 40/40
Lift-Off Left	TSA0240L
Lift-Off Right	TSA0240R
Captive	TSA0244



Hinge	A	B	C	D	E	F	G	H	J	K	P
40 Female	63.5 (2.50)	31.8 (1.25)	40.0 (1.575)	21.0 (.825)	8.1 (.320)	11.8 (.463)	4.8 (.190)	—	2.3 (.090)	1.9 (.075)	—
40 Male Long Pin	63.5 (2.50)	31.8 (1.25)	40.0 (1.575)	21.0 (.825)	8.1 (.320)	11.8 (.463)	—	4.7 (.187)	2.3 (.090)	1.9 (.075)	31.8 (1.25)
40 Male Short Pin	63.5 (2.50)	31.8 (1.25)	40.0 (1.575)	21.0 (.825)	8.1 (.320)	11.8 (.463)	—	4.7 (.187)	2.3 (.090)	1.9 (.075)	16.0 (.63)

Note: All dimensions in mm (in)

Adjustable Gap Hinges

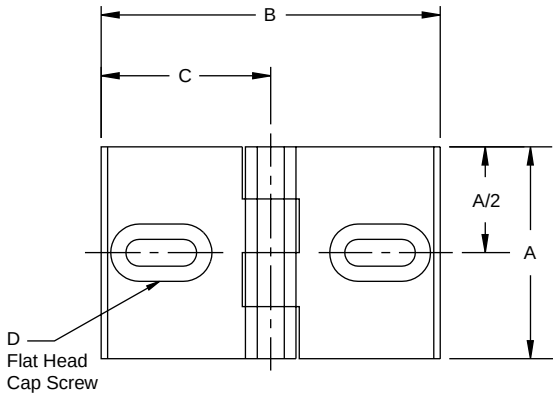


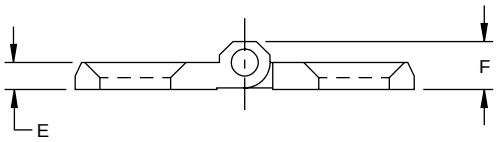
These hinges have slotted mounting holes for adjustment. Press-in blocks allow a variable "gap". **All fasteners included.**

Material: Zinc Die Casting

Color: Black

Part No.	Profile Connection	Weight	
		kg	lb
TSA0112	40 to All 40 & 80	0.14	0.31





Part No.	A	B	C	D	E	F
TSA0112	50 (1.97)	80 (3.15)	40 (1.57)	M6	6.4 (.25)	11.3 (.44)

Note: All dimensions in mm (in)

Upper/Lower Panel Track

This track acts as a guide for 6 mm (.25 in) panels. The upper track has deeper slots so that a panel can be installed after assembling the frame.

Length: 150 cm (60 in)

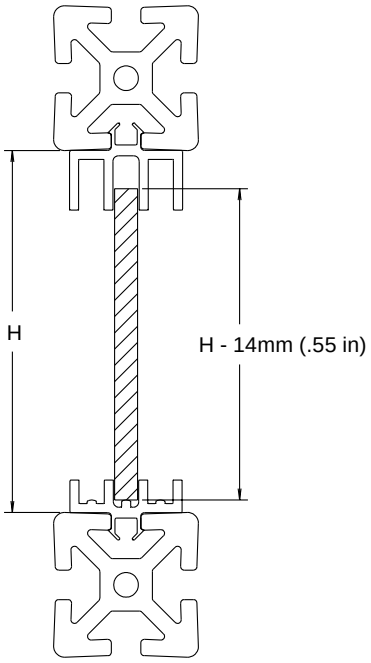
Material: High Impact Rigid PVC

Color: Black

Design Tip: A panel may be lifted out of the track if the spacing between profiles exceeds the panel distance by 14mm. Shorter spacing will cause the panels to be held captive.

Part No.	Description	Profile
TSA0006	Lower	40 & 80
TSA0008	Upper	40 & 80

40 & 80



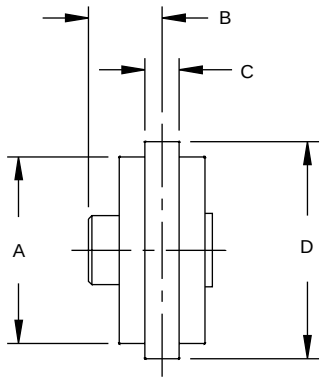
Note: All dimensions in mm (in)

Roller Wheels

Roller wheels are used to provide guided linear motion. The wheel mounts to a profile end or T-slot, and rolls in the mating profile's T-slot. The roller wheels are fitted with sealed ball bearings to provide for a smooth frictionless motion. **All fasteners are included.**

Material: Black Nylatron

Part No.	Profile	Maximum Load Per Wheel	
		kg	lb
TSA0132	40 & 80	15	33



	A	B	C	D
TSA0130	31 (1.221)	13.7 (.54)	8.0 (.31)	50.1 (1.973)
TSA0132	43 (1.693)	33.0 (1.30)	10.0 (.39)	57.1 (2.250)

Note: All dimensions in mm (in)

End Caps

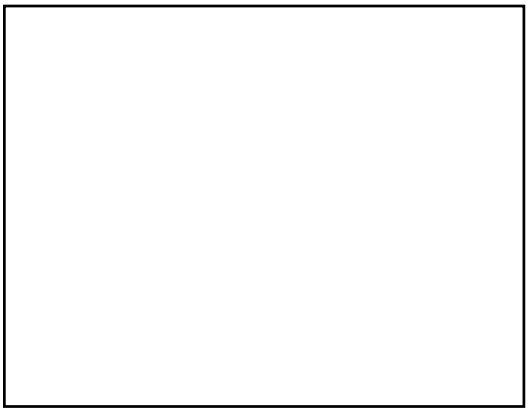
End caps are used for covering extrusion profile ends to eliminate deburring. They may be mounted extended or flush. Order push-in fasteners separately below.

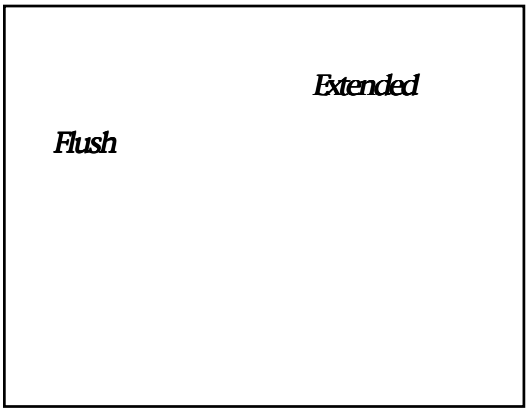
Material: High-Impact Plastic

Color: Black

Design Tip: End caps can be positioned flush to improve appearance.

Profile	End Cap Part No.	Fasteners per End
TSV4040	TSC4040	1
TSL4040	TSC4040	1
TSV4080	TSC4080	2
TSL4080	TSC4080	2
TSL8080	TSC8080	4





RECOMMENDED FASTENER

(See table above for quantity required per profile end.)

Part No.	Description
TSF0030	Push-in Fastener for all end caps

T-Slot Covers

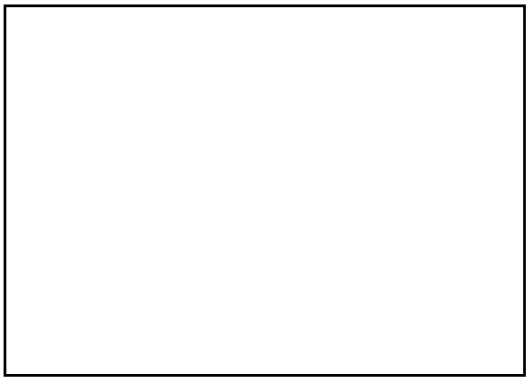
Black T-Slot Covers

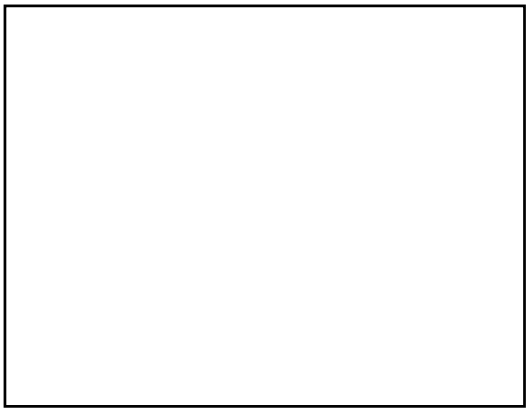
Inserting this cover into a T-slot prevents dirt or debris from collecting in the slot.

Length: 150 cm (60 in)

Material: High Density Polyethylene

Part No.	Color	Profiles
TSA0004	Black	40 & 80





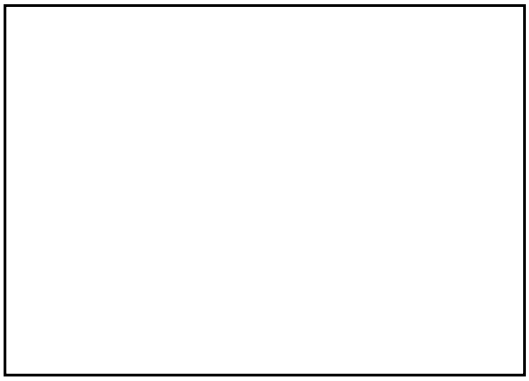
Yellow T-Slot Covers

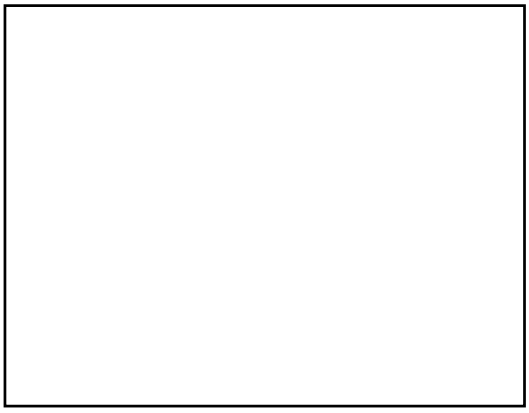
These bright covers provide high visibility in guarding applications. Inserting this cover into a T-slot prevents dirt or debris from collecting in the slot. Wide covers are highly visible for safety and guarding applications.

Length: 150 cm (60 in)

Material: PVC

Part No.	Style	Profiles
TSA0004-Y	Narrow	40 & 80
TSA0015-Y	Wide	40 & 80



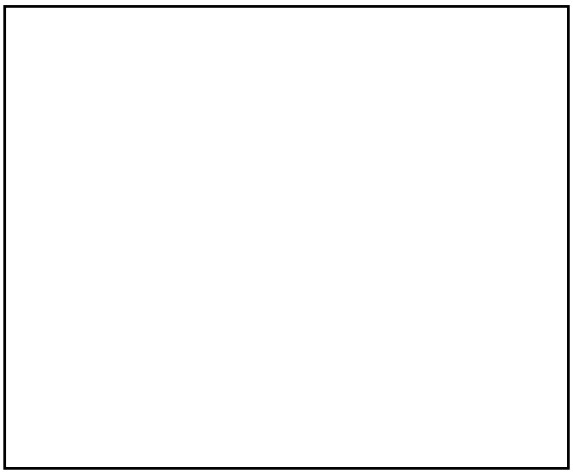


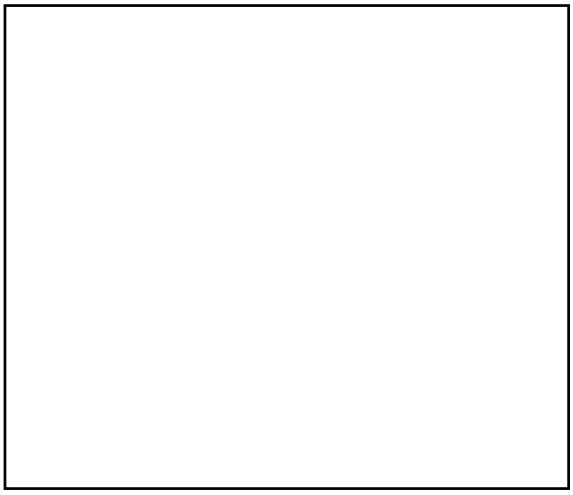
Floor Mounting Brackets

Floor Mounting Brackets are used to attach extrusion profiles to the floor. The brackets allow height adjustment (for leveling).

Material: 6061-T6 Aluminum Alloy, Clear Anodized

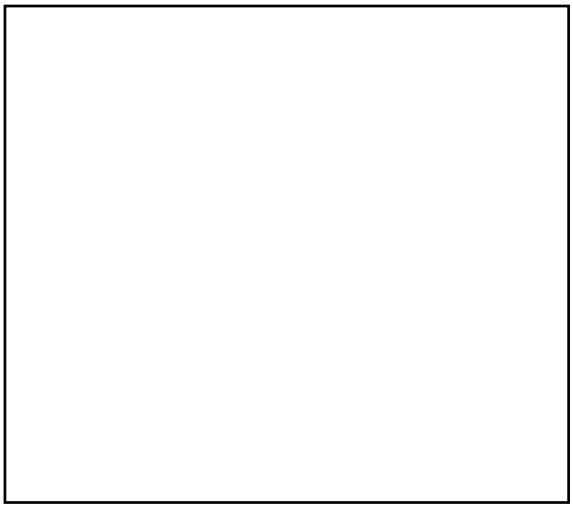
Part No.	Description	Fastener Holes	Weight	
			kg	lb
TSA4010	40 x 40 and 40 x 80	2	.49	1.07
TSA8010	40 x 80 and 80 x 80	4	1.00	2.19





FASTENING SETS

Part No.	Fastening Set No.
TSA4010	TSF2540
TSA8010	(2) TSF2540



Leveling Floor Mounting Bracket

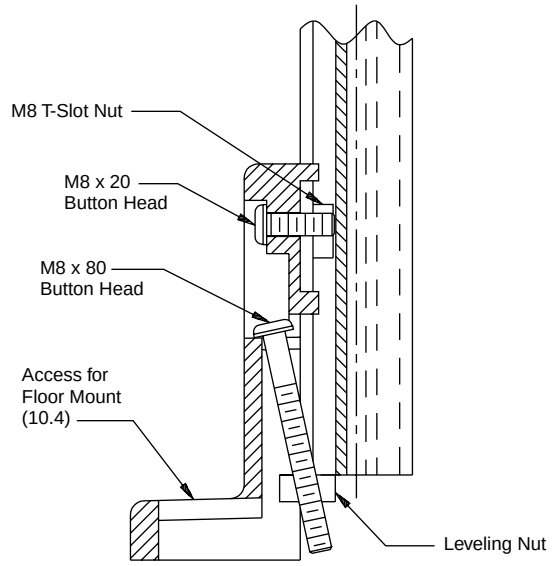
This bracket provides very convenient height adjustment. The screw adjustment is easily accessible from the top (not the bottom). This part also eliminates the machining normally required for a leveling foot. **All fasteners included.**

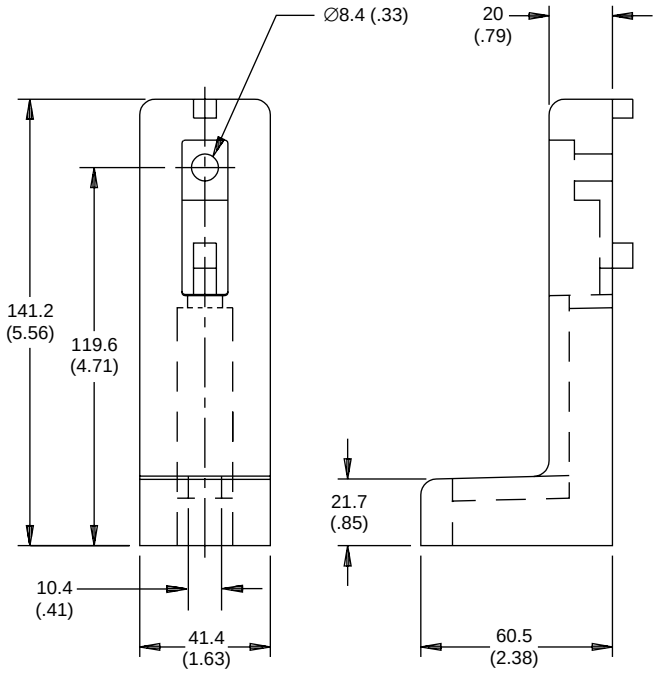
Part No.: TSA4011

Material: Cast Aluminum

Color: Black

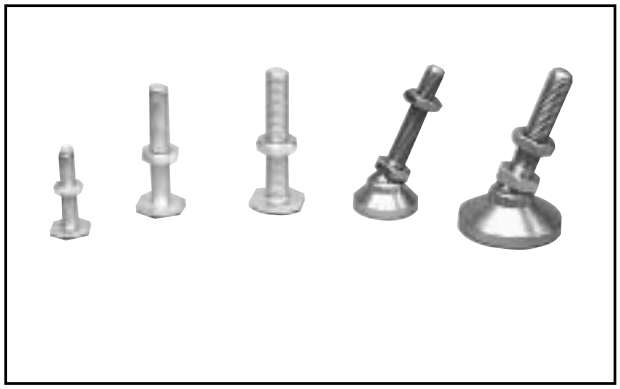
Weight: .35 kg (.78 lb)





Note: All dimensions in mm (in)

Leveling Feet



These levelers provide height adjustment for a structure. Swivel and economy styles are available.

Machining Required: Profiles can be pre-tapped if necessary. Refer to page machining section.

Design Tip: Profiles cannot be pre-tapped for M12 foot. Separate base/anchor plate is required.

Note: TSV4040 profiles can accept only an M8 foot. If a swivel foot is desired for these profiles, see below for M8 swivel foot with friction pad.

Part No.	Description	Overall Length (mm)	Material	Load Capacity		Weight	
				kg	lb	kg	lb
TSA0040	M10 x 50 mm with swivel	75	Hardened Steel, Zinc Plated	1182	2600	.10	.23
TSA0042	M12 x 50 mm with swivel	80	Hardened Steel, Zinc Plated	1727	3800	.23	.52
TSA0044	M8 x 40 mm	43	Carbon Steel, Zinc Plated	1160	2550	.02	.05
TSA0046	M10 x 50 mm	55	Carbon Steel, Zinc Plated	1160	2550	.05	.10
TSA0048	M12 x 50 mm	70	Carbon Steel, Zinc Plated	2136	4700	.07	.15

Leveling Feet with Friction Pads

The M8 leveler provides height adjustment. A swivel pivots up to 20° for floors which aren't level. This threads directly into the end of a tapped profile. A rubber pad on the bottom provides improved traction. Jam nut included.

The M10 leveling foot provides height adjustment. A swivel pivots up to 20° for floors which aren't level. This threads directly to a tapped profile. A rubber pad on the bottom provides improved friction. Two holes allow for bolting to floor. Jam nut included.

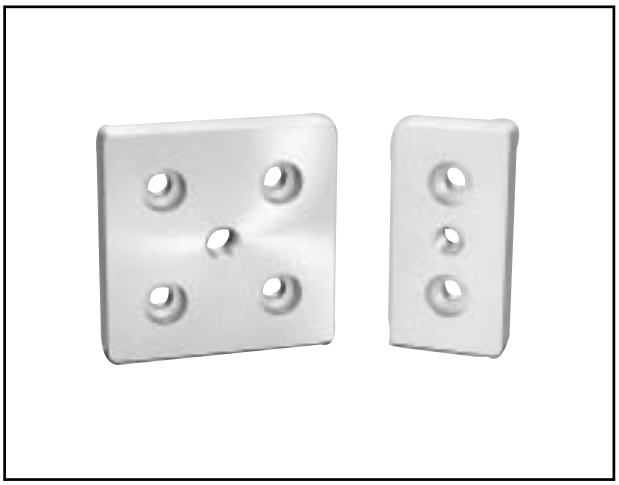
Machining Required: Profiles can be pre-tapped for M8 or M10 if necessary. Refer to Machining section.

Part No.	Description	Overall Length (mm)	Material	Load Capacity		Weight	
				kg	lb	kg	lb
TSA0036	M8 x 26mm	53	Carbon Steel, Zinc Plated, Rubber Pad	91	200	.05	.10
TSA0038	M10 x 102mm*	127	Carbon Steel, Zinc Plated, Rubber Pad	365	803	.05	.10
TSA0041	M10 x 102mm*	127	Carbon Steel, Nickel Plated, Nylon Base	113	248	.11	.25
TSA0045	M10 x 127mm*	152	Carbon Steel, Nickel Plated, Nylon Base	113	248	.13	.28

* Not available for TSV4040 and all 28mm profiles.

Base Plates

Base plates are used to mount leveling feet or king-pin mount casters to the bottom of an extrusion profile. The plate attaches to the tapped hole(s) in the end of the profile; a tapped center hole accepts the leveling foot or caster being mounted. The plate can also be used as a lifting point. In this case, the plate would be mounted to the top of an extrusion profile and an eye-bolt would be threaded into the center tapped hole of the plate for handling.



Material: 6061-T6 Aluminum Alloy, Clear Anodized

Machining Required: Base plates attach to tapped holes in the profile end.

Part No.	"A"	Profile	Weight		Tap Profile End Machining Service Part No.
			kg	lb	
TSA4000	M8	40 x 80	.11	.25	TSE0038
TSA4002	M10	40 x 80	.11	.25	TSE0038
TSA4004	M12	40 x 80	.11	.25	TSE0038
TSA8002	M10	80 x 80	.23	.50	TSE0040
TSA8004	M12	80 x 80	.22	.49	TSE0040

FASTENING SETS

Base Plate No.	Fastening Set No.
TSA4000, TSA4002, TSA4004	(2) TSF2542
TSA8002, TSA8004, TSA8008	(4) TSF2542

Anchor Plates

Anchor plates are similar to base plates, with the addition of a thru-hole for anchoring the plate to the floor.

Material: 6061-T6 Aluminum Alloy, Clear Anodized

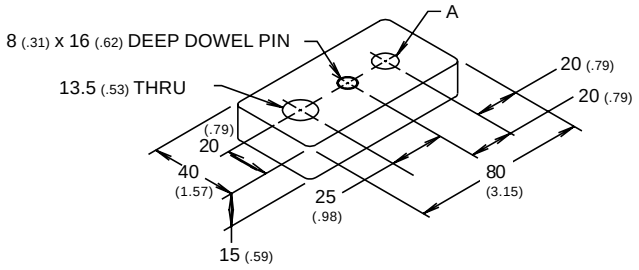
Part No.	"A"	Profile	Weight		Tap Profile End Machining Service Part No.
			kg	lb	
TSA4020	N/A*	40 x 40	.11	.25	TSE0036 or TSE0042
TSA4022	M10	40 x 80	.16	.35	TSE0038
TSA4024	M12	40 x 80	.16	.35	TSE0038
TSA8024	M12	80 x 80	.33	.72	TSE0040

* Thru hole will accept M8 or M10 leveling foot. Vertical post is also tapped to accept leveling foot.

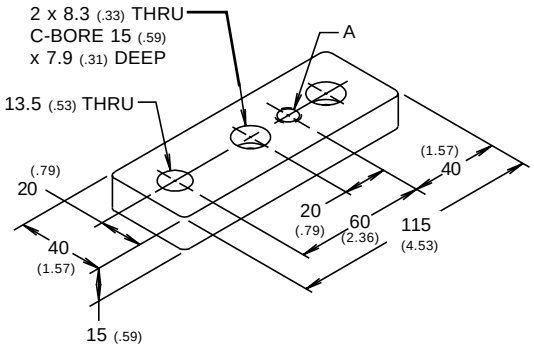
FASTENING SETS

Base Plate No.	Fastening Set No.
TSA4020	(1) TSF2542
TSA4022 & TSA4024	(2) TSF2542
TSA8024	(4) TSF2542

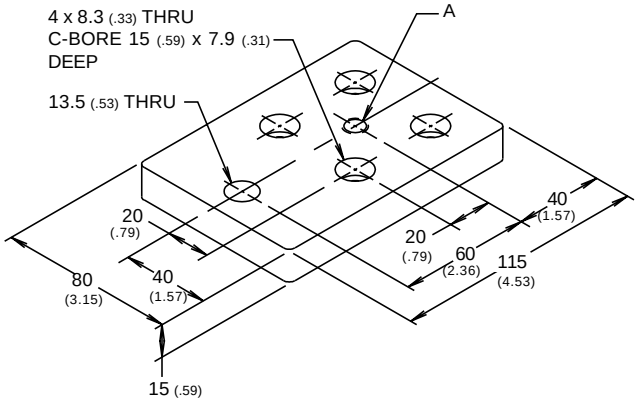
TSA4020



TSA4022 or TSA4024



TSA8024



Note: All dimensions in mm (in)

Corner Anchor/Leveling Plate

A corner anchor/leveling plate may be mounted at an angle between two horizontal profiles. This plate accomodates leveling feet, floor anchor bolts, king pin casters, etc.

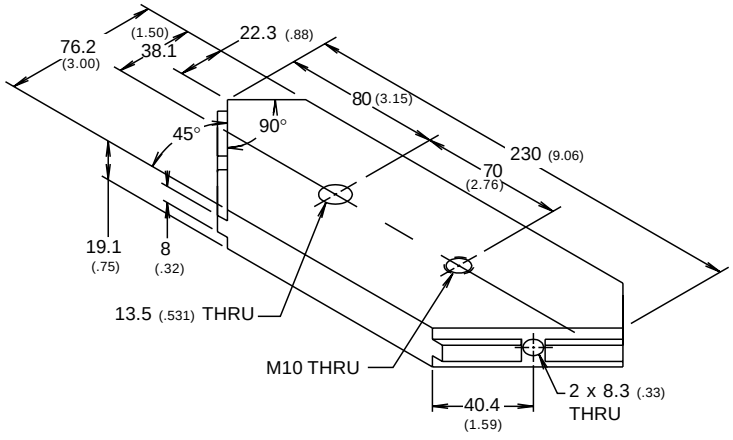
Part No.: TSA0094

Material: 6061-T6 Aluminum Alloy, Clear Anodized

Weight: .48 kg (1.06 lb)

FASTENING SET

Base Plate No.	Fastening Set No.
TSA0094	(2) TSF2544



Floor Mounting Plates

Floor Mounting Plates are used to attach extrusion profiles to the floor. They are designed for 4080 extrusions and 8080 extrusions.

Material: 6061-T6 Aluminum Alloy, Clear Anodized

Machining Required: Floor Mounting Plates attach to tapped holes in the profile end.

Part No	Description	Fasteners Holes
TSA4080	40x80 extrusions	4
TSA8080	80x80 extrusions	4

TSA4080

TSA8080

Guide Units

These 40 mm double flange units offer low cost linear guidance. They utilize glide pads oriented within T-slots. You make your own guidance device. You provide the power – pneumatic, electro-mechanical or manual.

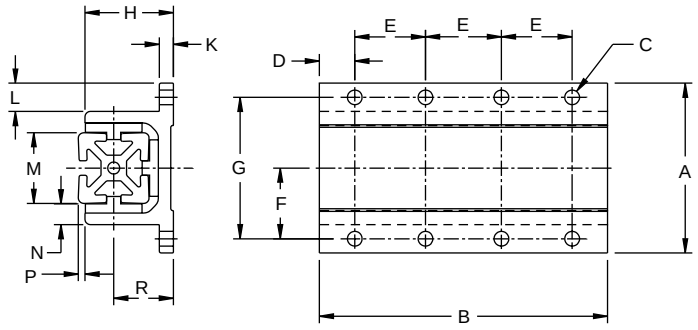
Shims are available to provide a more precise fit.

Optional clamping mechanism can be added as required. Each clamp requires a machined hole.

Material: Aluminum, Clear Anodized
UHMW glide pads

TSD4001

TSD4008



Part No.	A	B	C	D	E	F	G
TSD4001	96 (3.78)	80 (3.15)	4xØ8.3 (Ø.328)	20 (.787)	40 (1.575)	40 (1.575)	80 (3.15)
TSD4008	96 (3.78)	163 (6.42)	8xØ8.3 (Ø.328)	20 (.787)	40 (1.575)	40 (1.575)	80 (3.15)
Part No.	**H**	**K**	**L**	**M**	**N**	**P***	**R**
TSD4001	50 (1.97)	8 (.315)	16 (.63)	40 (1.575)	12 (.472)	4 (.157)	34 (1.34)
TSD4008	50 (1.97)	8 (.315)	16 (.63)	40 (1.575)	12 (.472)	4 (.157)	34 (1.34)

* Add 40mm (1.575") when using TSV/TSL/TSH4080 extrusion.

Note: All dimensions in mm (in)

Guide Units

These 40 mm single flange, side mount units offer low cost linear guidance. They utilize glide pads oriented within T-slots. You make your own guidance device. You provide the power – pneumatic, electro-mechanical or manual.

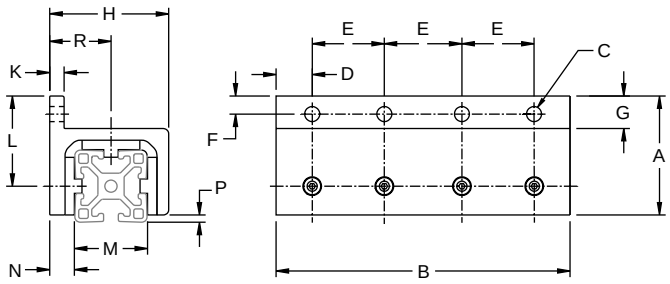
Shims are available to provide a more precise fit.

Optional clamping mechanism can be added as required. Each clamp requires a machined hole.

Material: Aluminum, Clear Anodized
UHMW glide pads

TSD4021

TSD4028



Part No.	A	B	C	D	E	F	G
TSD4021	66 (2.60)	80 (3.15)	2xØ8.3 (Ø.328)	21.5 (.848)	40 (1.575)	10 (.394)	18 (.71)
TSD4028	66 (2.60)	163 (6.42)	4xØ8.3 (Ø.328)	21.5 (.848)	40 (1.575)	10 (.394)	18 (.71)
Part No.	**H**	**K**	**L**	**M**	**N**	**P***	**R**
TSD4021	66 (2.60)	8 (.315)	50 (1.97)	40 (1.575)	14 (.551)	4 (.157)	34 (1.339)
TSD4028	66 (2.60)	8 (.315)	50 (1.97)	40 (1.575)	14 (.551)	4 (.157)	34 (1.339)

* Add 40mm (1.575") when using TSV/TSL/TSH4080 extrusion.

Guide Units

These 40 mm single flange, easy-mount units offer low cost linear guidance. They utilize glide pads oriented within T-slots. You make your own guidance device. You provide the power – pneumatic, electro-mechanical or manual.

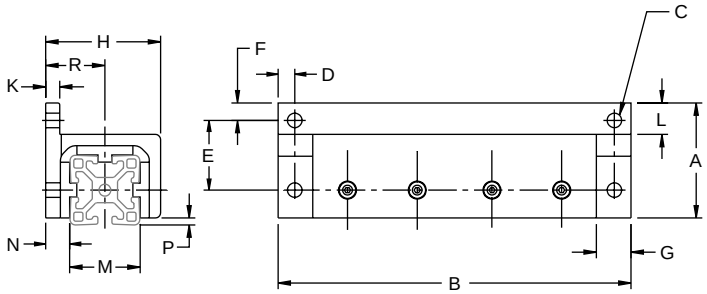
Shims are available to provide a more precise fit.

Optional clamping mechanism can be added as required. Each clamp requires a machined hole.

Material: Aluminum, Clear Anodized
UHMW glide pads

TSD4022

TSD4029



Part No.	A	B	C	D	E	F	G
TSD4022	60 (2.60)	120 (4.72)	2xØ8.3 (Ø.328)	10 (.394)	40 (1.575)	10 (.394)	20 (.79)
TSD4029	66 (2.13)	203 (4.06)	4xØ8.3 (Ø.328)	10 (.394)	40 (1.575)	10 (.394)	20 (.79)
Part No.	**H**	**K**	**L**	**M**	**N**	**P***	**R**
TSD4022	66 (2.60)	8 (.315)	18 (.709)	40 (1.575)	14 (.551)	4 (.157)	34 (1.339)
TSD4029	66 (2.60)	8 (.315)	18 (.709)	40 (1.575)	14 (.551)	4 (.157)	34 (1.339)

* Add 40mm (1.575") when using TSV/TSL/TSH4080 extrusion.

High Cycle Units

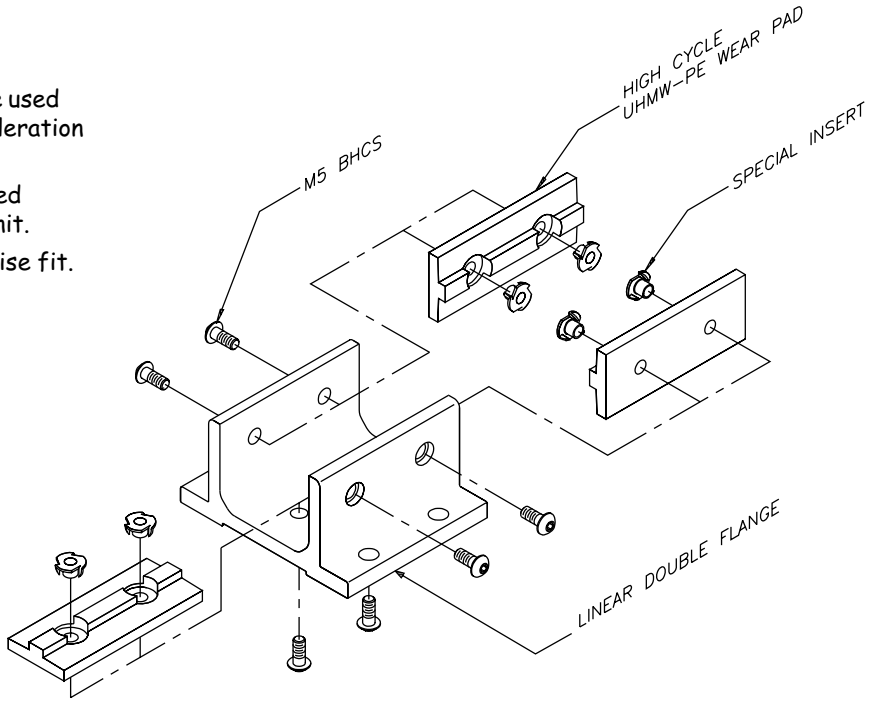
High Cycle ParGlide Units

These specially designed ParGlide units are used in high cycle applications where rapid acceleration and deceleration takes place.

High cycle ParGlide utilizes a steel threaded insert to mount the pad to the Par Glide unit.

Shims are available to provide a more precise fit.

Material: Aluminum, Clear Anodized
UHMW Glide Pads



High Cycle Units with Steel Threaded Inserts

Standard ParGlide Units

Part No.	Style	Profile
TSD4001-HC	Top Mount, Single	40 x 40
TSD4008-HC	Top Mount, Double	40 x 40
TSD4021-HC	Side Mount Flush, Single	40 x 40
TSD4022-HC	Side Mount Ext., Single	40 x 40
TSD4028-HC	Side Mount Flush, Double	40 x 40
TSD4029-HC	Side Mount Ext., Double	40 x 40

Glide Pads & Shims

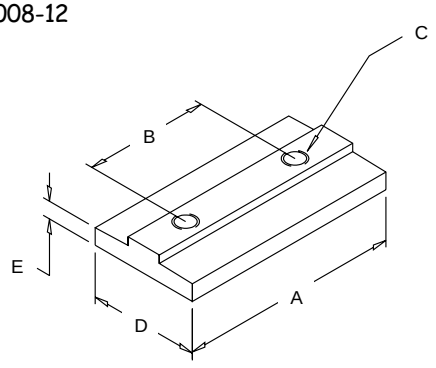
Glide Pads

Glide pads let you custom design a low friction guidance unit.

Material: UHMW

Part No.	Description	Profiles
TSD4000-2	Pretapped	40/80
TSD4000-3	Untapped	40/80

Recommended Fastener:
TSF4008-12



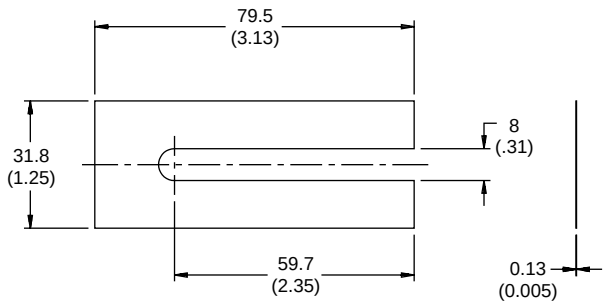
Part No.	A	B	C	D	E
TSD4000-2	80 (3.15)	40 (1.575)	M5	32 (1.26)	5.3 (.207)
TSD4000-3	300 (11.81)	NA	NA	32 (1.26)	5.3 (.207)

Shims for Extrusion Profiles

Shims provide a more precise fit for ParGlide. Five shims are supplied in each package.

Material: Steel

TSD4005 for 40mm Profiles



Note: All dimensions in mm (in)

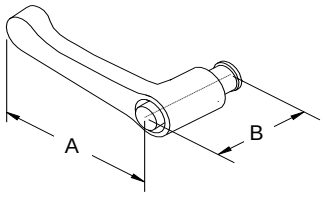
Handles

These clamp accessories provide positioning and adjustment for ParGlide units.

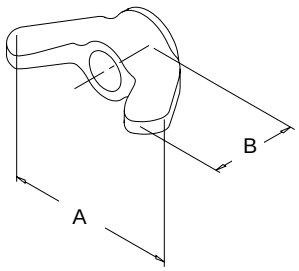
Machining Service: ParGlide extrusions and pads can be drilled to accept clamp accessories. See Machining section.

Part No.	Description	Profile
TSD0011	Ratcheting L-handle	40 & 80

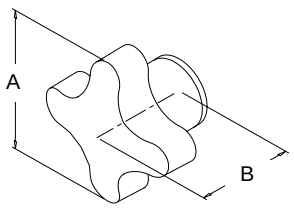
Part No.	A	B
TSD0011	63 (2.48)	32.8 (1.29)



Part No.	A	B
TSD0013	38 (1.50)	20.5 (.81)



Part No.	A	B
TSD0015	40 (1.57)	26.7 (1.05)



Note: All dimensions in mm (in)

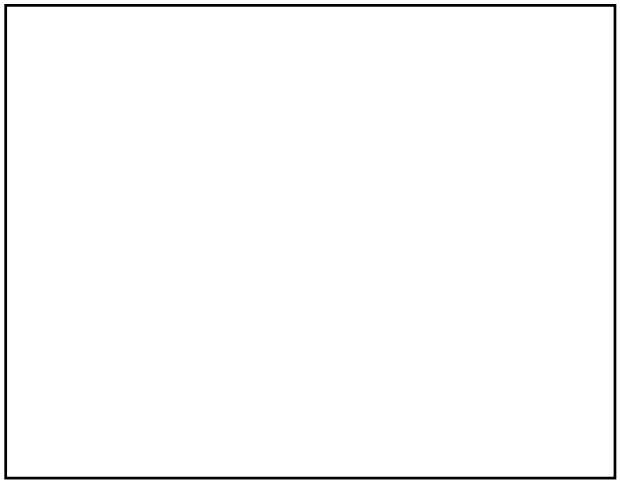
Pressure Plates

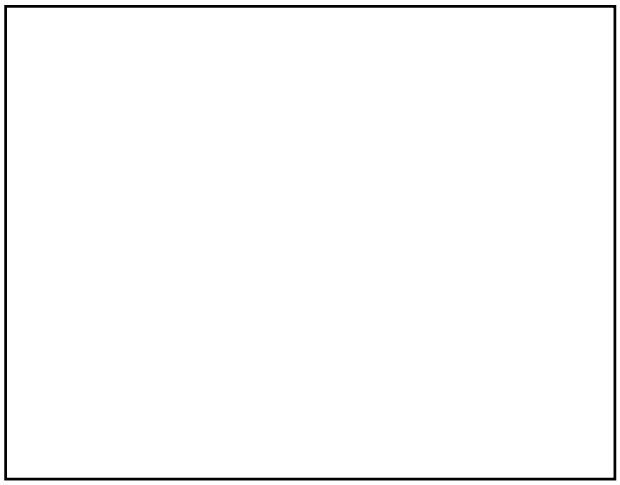
Pressure plates are used to encapsulate the chamber within a profile. The plates can be attached to the end or the side of a profile. Each plate is shipped with a nitrile gasket for sealing. To apply pressure to a TSL4040 profile, an 1/8" NPT port may be tapped at the end of the profile. Specify TSE0044 and refer to the Machining section for details.

Material: 6061-T6 Aluminum Alloy, Clear Anodized

Maximum Pressure: 150 psi air.

Machining: Attachment of Pressure plate to a profile end requires profile end tapping service. Refer to Machining section for details. A cross communication drilling is required for mounting to the side of a profile (customer supplied).





Part No.	Weight	"A"	Holes	
			kg	lb
TST4000	Blank	2	0.12	0.26
TST4001	1/8" NPT	2	0.11	0.25
TST4002	1/4" NPT	2	0.11	0.25
TST4004	3/8" NPT	2	0.11	0.25
TST4006	1/4" BSPP	2	0.12	0.26
TST4008	1/2" NPT	2	0.11	0.25
TST8000	Blank	4	0.25	0.54
TST8002	1/2" NPT	4	0.23	0.51
TST8006	1/2" BSPP	4	0.23	0.51
TST8008	1" NPT	4	0.21	0.46

RECOMMENDED FASTENERS

(Quantities as required by number of holes.)

For attachment to 40/80mm profile end:

Metric	Inch
TSF4008-25 BHSCS TSF1108 Lock Washer	TSF9031-100 BHSCS TSF6131 Lock Washer

For attachment to 40/8 mm profile T-slots:

Metric	Inch
TSF4008-18 BHSCS TSF3008 Standard T-Nut or TSF3208 Drop-in T-Nut	TSF9031-063 BHSCS TSF8031 Standard T-Nut or TSF8231 Drop-in T-Nut

GASKETS

Part No.	Profile
TST4000-2	40 x 80
TST8000-2	80 x 80

INTERNAL VOLUME

For internal volumes, see data for individual profiles in the Machining section

Conduit Plates

Conduit Plates provide a method of attaching 1/2" or 3/4" conduit to the end of the 80 x 80 profile.

Material: 6061-T6 Aluminum Alloy, Clear Anodized

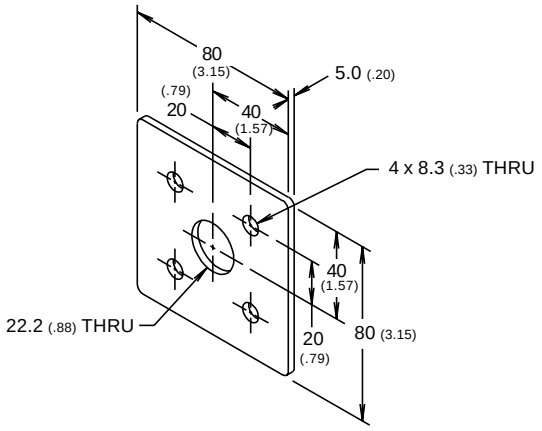
Weight: .05 kg (.10 lb)

Machining Required: Attachment of the Conduit Plate to an 80 x 80 profile end requires profile end tapping service no. TSE0040 or TSE1040.

Part No.	Conduit Size
TSA8020	12.7 mm (.50 in)
TSA8022	19.1 mm (.75 in)

RECOMMENDED FASTENERS:

Metric	Inch
(4) TSF4008-16 BHSCS (4) TSF1108 Lock Washer	(4) TSF9031-063 BHSCS (4) TSF6131 Lock Washer



Parts Containers

Plastic part containers are available in three sizes. Attachment to the profile T-slot is accomplished with a parts container hanger (see below).

Material: Polypropylene

Color: Blue

Part No.	Length		Width		Depth		Weight		Capacity	
	cm	in	cm	in	cm	in	kg	lb	kg	lb
TSA0116	13.6	5.38	10.4	4.12	7.6	3.00	0.07	0.16	4.5	10
TSA0118	18.7	7.38	10.4	4.12	7.6	3.00	0.11	0.25	4.5	10
TSA0120	27.6	10.88	13.9	5.50	12.7	5.00	0.29	0.63	13.6	30

Parts Container Hanger

Aluminum parts container hanger attaches to 40 and 80 mm profiles only. Part is 12" long. Fasteners included.

Part No.: TSA0124

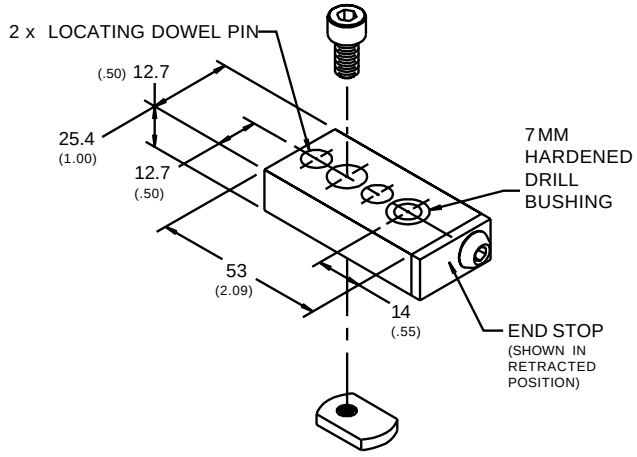
Tooling

Drill Jigs

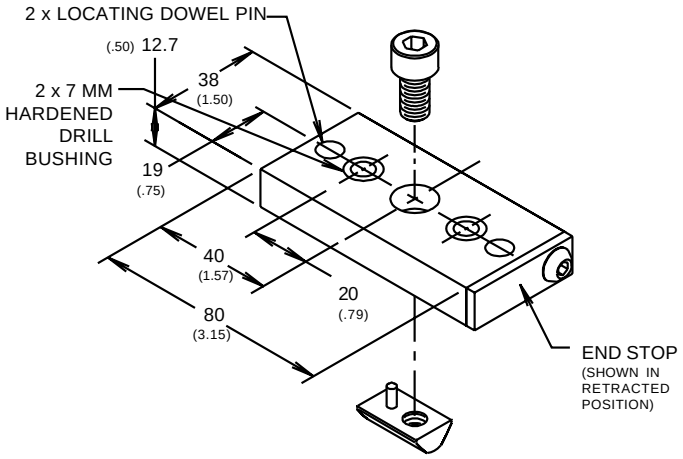
Drill Jigs provide a simple and effective method of accurately positioning 7mm diameter access holes on an extrusion profile. Each jig is supplied with locating dowel pins and fasteners to secure it in place for accurate and repeatable hole locations. Also, an end stop is provided for quick positioning at the end of a profile when drilling access holes for the End Fastening Assembly.

Part No.	Profiles
TSE0102	40 x 40 and 80 x 80
TSE0104	40 x 80 and 80 x 80

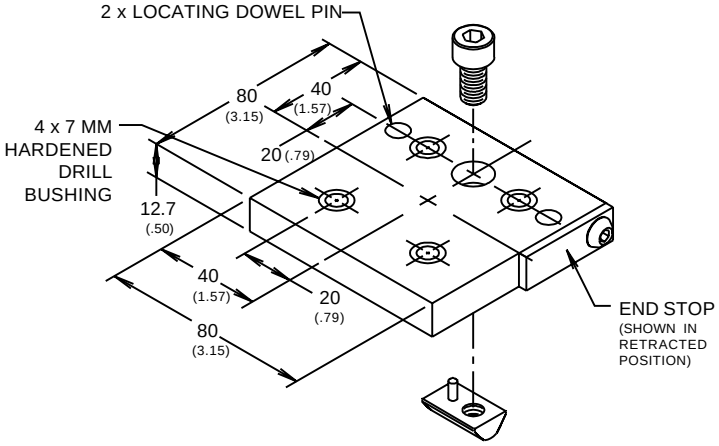
Part No. TSE0100



Part No. TSE0102



Part No. TSE0104



Note: All dimensions in mm (in)

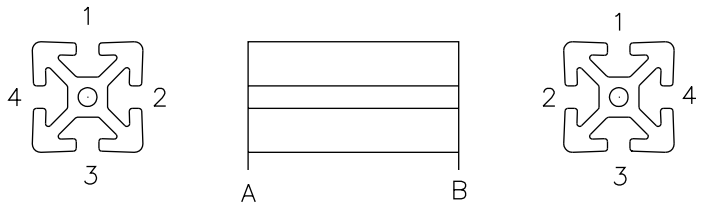
In addition to the basic structural framing components that are available, a complete set of machining services can be specified. Using these services, a ready-to-assemble frame can be designed and ordered. There are nine basic machining services:

- **Saw profile to length**
- **Tap profile end**
- **Counterbore anchor/butt fastening assembly**
- **Drill access hole**
- **Saw profile (miter) and counterbore**
- **Saw panels & wire mesh**
- **Notch panel for profile/fastener clearance**
- **Drill panel for push button latch assembly**
- **Drill extrusion for L-handle latch assembly**

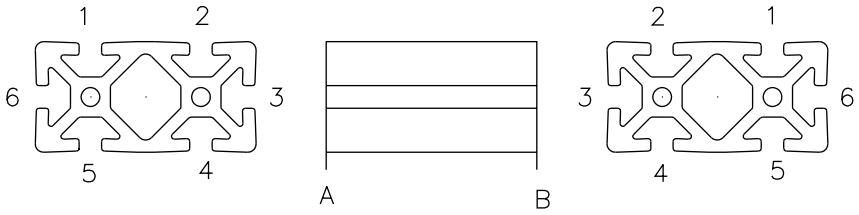
In order to make specifying the machining services simple and straightforward, it is necessary to identify the machinable surfaces of each extrusion profile. Please refer to the drawings on the next page for basic identification of each type of profile.

The following pages will provide ordering details and examples for each individual machining service. Also, details are included to machine the components on-site.

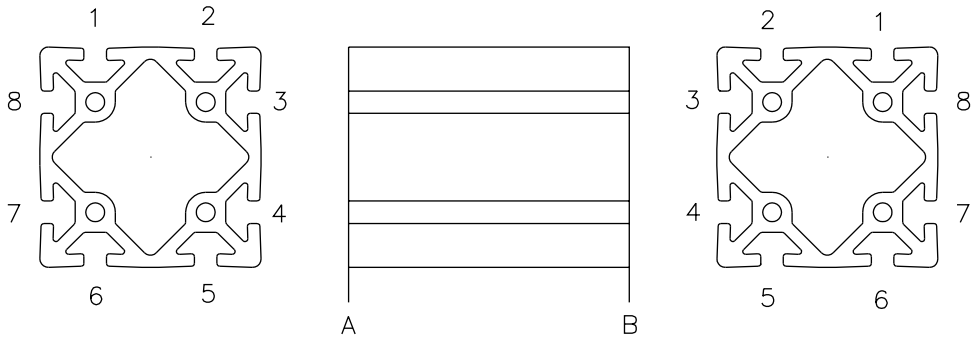
40 x 40 Profiles



40 x 80 Profiles



80 x 80 Profiles



Saw Profile to Length*

A cut to length extrusion profile can be ordered by specifying this machining service.

Tolerances: Length = ±04 cm (±015 in)
Squareness = ±004 cm/cm (±003 in/in)

Maximum Length*: 620 cm (244 in) for all profiles

Saw Cut Machining Service Numbers

Profile to be Cut	Machining Service Number
TSV4040	TSE4040
TSL4040	TSE4040
TSV4080	TSE4080
TSL4080	TSE4080
TSL8080	TSE8080

Ordering Note:
Saw cut requirements should be described by specifying the machining service number and length of cut required, in centimeters or inches.

Example:
A project requires 4 pieces of the 80 x 80 profile, saw cut to a length of 150 cm each. These profiles would be ordered as follows:

Line 1- Specify the total quantity required:
Part No. = TSL8080, Quantity= 600 cm

Line 2- Specify machining services required:
Machining Service No. = TSE8080 x 150 cm, Quantity = 4

*Maximum length is 620 cm (244 in) for all profiles.

Tap Profile End

This machining service provides one or more tapped holes, M8, M10, 5/16-18, or 1/8" NPT at the end of an extrusion profile. End tapped holes are required for the following fastening and accessory items:

- **End fastener assembly**
- **Leveling foot**
- **Base plate**
- **Anchor plate**
- **Caster mounting plate**
- **King-pin mount caster**
- **Pressure plate**
- **Conduit plate**
- **Bifold door guide**

Ordering Note:
Profile end tapping requirements should be described by specifying the machining service number and the end(s) at which the tapped hole is required.

Example:
A length of TSL4040 profile requires tapping at each end for attachment of the M8 End Fastener Assembly. This machining service would be ordered as follows:

Machining Service No.= TSE0034-A-B

In this example, there would be charges for two profile end tapping services.

Profile End Tapping Service Numbers

Profile to be Tapped	Machining Service Description	Machining Service Number
TSV4040 *TSL4040*	M8 – Std Depth or Bifold Guide	TSE0034
	5/16-18 – Std Depth	TSE1034
	M8 for Leveling Foot	TSE0036
	M10 for Leveling Foot	TSE0042
	1/8" NPT single hole (Specify location)	TSE0044
TSV4080 *TSL4080*	M8 – Std Depth (2-hole pattern)	TSE0038
	5/16-18 – Std Depth (2-hole pattern)	TSE1038
	1/8" NPT single hole (Specify location)	TSE0044
TSL8080	M8 – Std Depth (4-hole pattern)	TSE0041
	M8 – Std Depth (4-hole pattern)	TSE0040
	5/16-18 – Std Depth (4-hole pattern)	TSE1040
	1/8" NPT single hole (Specify location)	TSE0044

Profiles

Counterbore for Anchor/Butt Fastening Assembly

The counterbore machining service is necessary when an anchor or butt fastening assembly is required. For an anchor fastening assembly, the counterbore machining is required in only one of the mating parts. Both of the mating parts must be counterbored for a butt fastening assembly.

Profile	Machining Service No.
40, 80	TSE0002

Ordering Note:
Counterboring requirements should be described by specifying the machining service number, the end to be machined, and the T-slot location at which the counterbore is required. When multiple counterbores are needed on one profile, they should all be called out together, with a hyphen (-) separating each end/T-slot location call-out (See example). See page G3 for information on the correct end and T-slot location call-outs.

Example:
A project requires that two lengths of profile be machined for anchor fastening assemblies. One of the lengths is the TSL4040 profile and requires the counterboring at one end only, on the "top" and "bottom" of the profile. The other length is the TSL4080 profile, and requires machining for two anchor fasteners at each end, on the "top" and "bottom" of the profile only. These services would be ordered as follows:

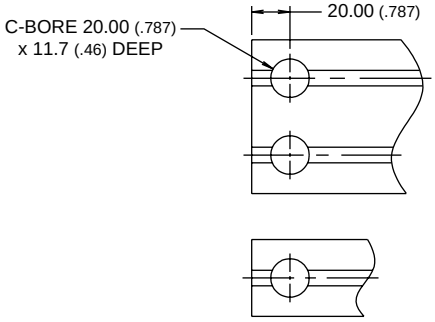
Case 1 - Profile No. TSL4040
Machining Service No. = TSE0002-A1-A3

Case 2 - Profile No. TSL4080
Machining Service No. = TSE0002-A1-A2-A4-A5-B1-
B2-B4-B5

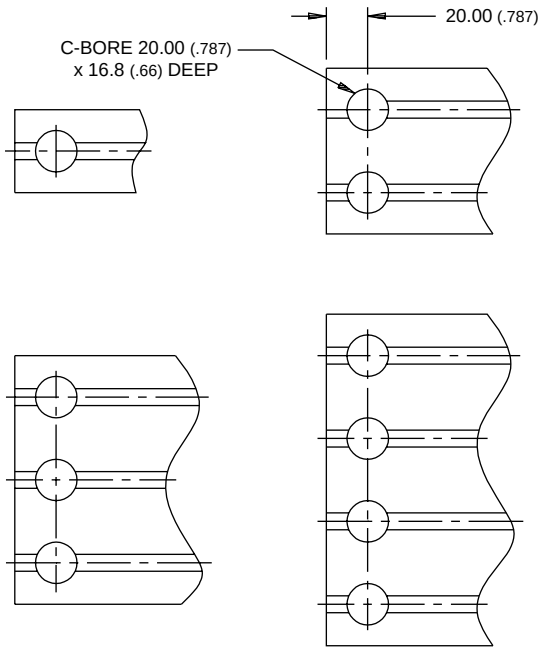
Counterboring machining services will be priced per counterbore required.

Counterbore Machining Details

TSE0003



TSE0002



Note: All dimensions in mm (in)

Profiles

Drill Access Holes

The access hole is a 7 mm diameter thru hole that is required any time an end fastening assembly is used. It allows access for tightening the button-head screw used in the fastening set. Access holes may also be required for general usage of profile T-slots for mounting external items.

Access Hole Machining Service Numbers

Description of Access Hole Machining	Machining Service No. 40/80mm
Single Access Hole	TSE0010
Two-hole Pattern Inline on a Single T-Slot	TSE0004
Two-hole Pattern Side-by-Side on a Double T-Slot	TSE0006
4-Hole Pattern	TSE0008

Ordering Note:
Access hole requirements should be described by specifying the machining service number, the T-slot(s) location at which the drilling is required, and the distance from the end being used as a reference. If multiple single hole drillings are required on one profile, they should be called out together, with a hyphen (-) separating each drilling location callout. If different access hole drilling services are required on one profile (i.e. 1 x single hole, 1 x 4-hole pattern), they should be called out as separate line items. See page G3 for information on the correct end and T-slot location call-outs.

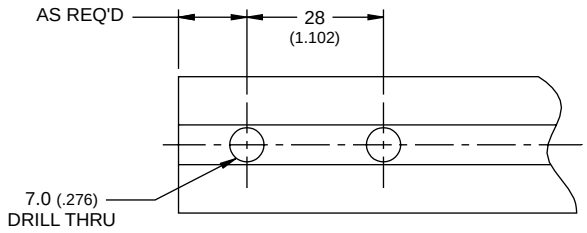
Example:
A length of TSL4080 profile requires a 4-hole access hole pattern at one end, for attachment of a length of TSL8080 with end fasteners. Also, a length of TSL4040 profile requires a single access hole at both ends for attachment of another length of TSL4040 with end fasteners. These services would be ordered as follows:

Case 1 - Profile No. TSL4080
Machining Service No.= TSE0008-A1/20.0mm

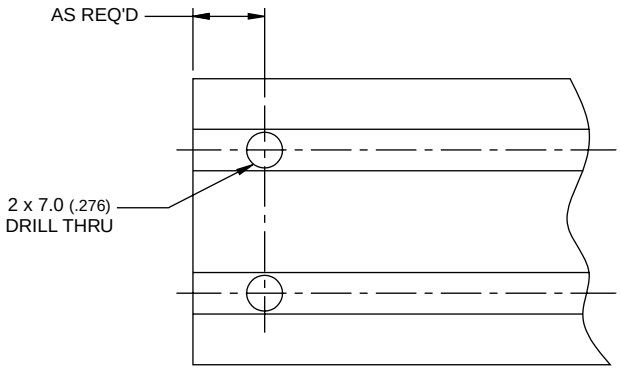
Case 2 - Profile No. TSL4040
Machining Service No.=
TSE0010-A1/14.0mm-B1/14.0mm

Note that the distance specified in both cases (from the reference end of the profile) will provide a flush connection with the mating component.

TSE0046



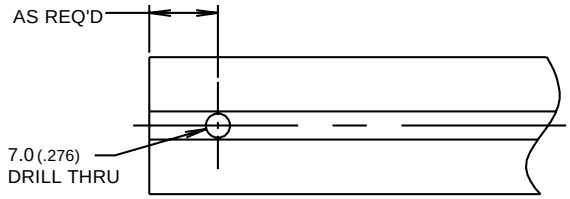
TSE0048



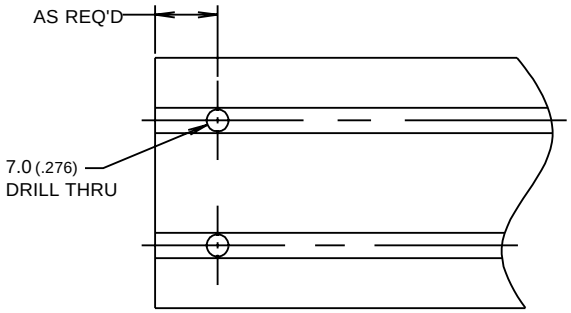
Note: All dimensions in mm (in)

Access Hole Machining Details

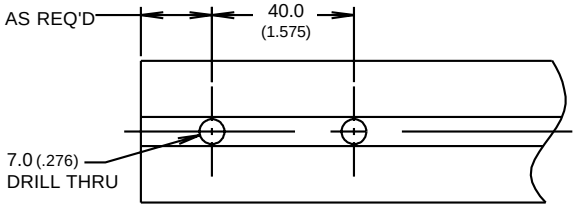
Service No. TSE0010



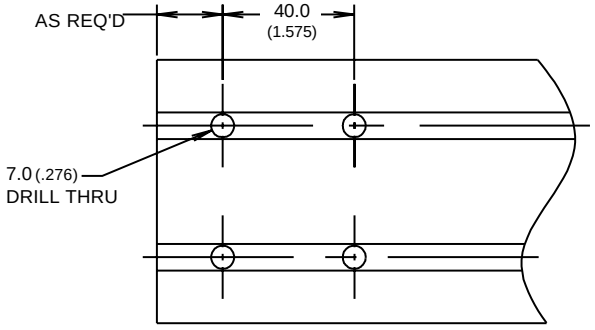
Service No. TSE0006



Service No. TSE0004



Service No. TSE0008



Note: All dimensions in mm (in)

Profiles

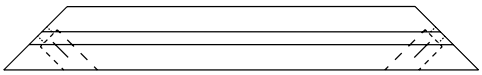
Miter Saw Cut/Counterbore

For custom 45° support brackets and other types of brackets, a miter saw cut and counterbore machining service is required.

Machining Service Numbers

Profile to be Miter Cut and Counterbored	Machining Service Number
TSL4040/TSH4040	TSE0014
TSL4080/TSH4080	TSE0016

After machining, the support bracket would look as illustrated below:

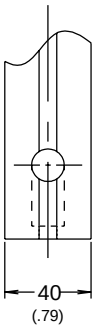


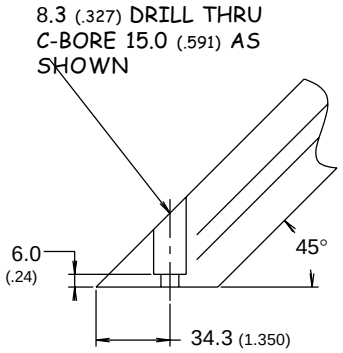
Ordering Note:
Miter cut & counterbore requirements should be described by specifying the machining service number, the end at which the machining is required, and the face from which a bolt would be installed into the counterbore. Also, indicate the length of the finished profile from corner to corner. To specify the correct face on a 40 x 80 profile (where there are multiple T-slots), specify only one of the T-slot locations on that face.

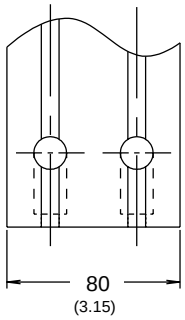
Example:
A custom support bracket is required for a project. This TSL4040 bracket must be 40 cm long from corner to corner and must be machined from the same face at both ends. This machining service would be ordered as follows:

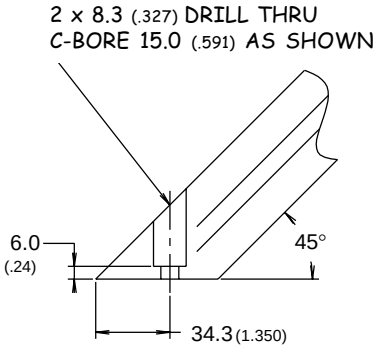
Machining Service No.= TSE0014-A1-B1 x 40 cm

Service No. TSE0014









Service No. TSE0016

Note: All dimensions in mm (in)

Panels & Wire Mesh

Cut to Size

A cut-to-size machining service is available for polycarbonate panels, expanded PVC panels, and wire mesh.

Machining Service Number: TSE0018

Maximum Size:
The maximum size single panel available is 122 cm x 244 cm (48 in x 96 in).

Ordering Note:
Panel saw cut requirements should be described by specifying the type of panel required, and the size required in centimeters or inches. Pricing is calculated on a square foot basis. The saw cut charge will appear as a separate line item.

Example:
A machine guard project requires a clear Lexan® panel, part no. TSP0004, cut to a size of 3 ft x 2 ft. This panel would be ordered as follows:

Line 1- Specify the total quantity required:
Part No.= TSP0004, Quantity= 6 ft²

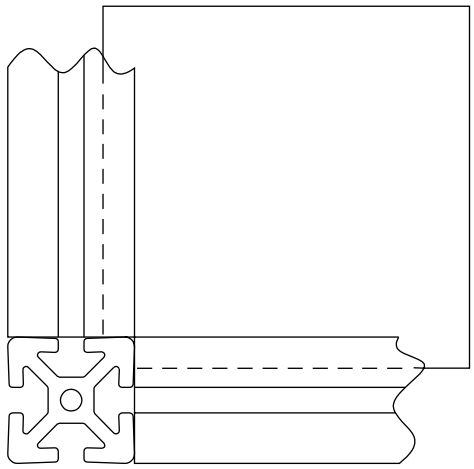
Line 2- Specify machining services required:
Machining Service No.= TSE0018-3 ft x 2 ft

Panels

Notch Corner for Extrusion Clearance

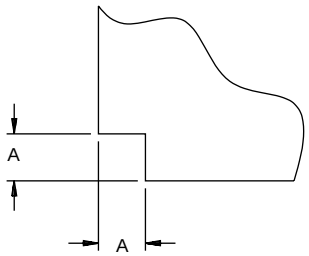
Notch gives clearance for perpendicularly mounted extrusions. This service is needed only when panels are installed in T-slots.

Profile	Service Number
40	TSE0062



Dimensions

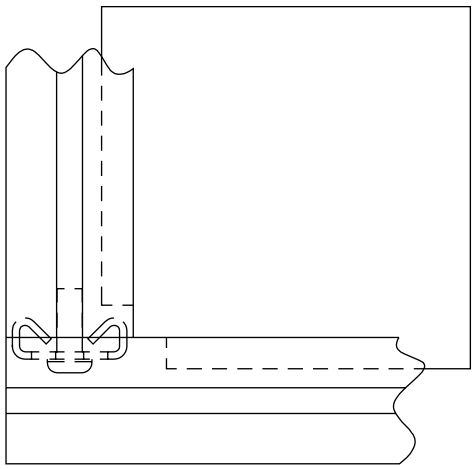
Profile	A
40	10.2 (.400)



Notch Corner for End Fastener Clearance

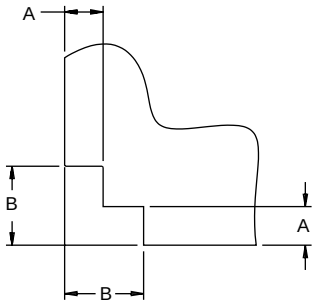
Notch gives clearance for end fastener. This service is needed only when panels are installed in T-slots.

Profile	Service Number
40	TSE0072



Dimensions

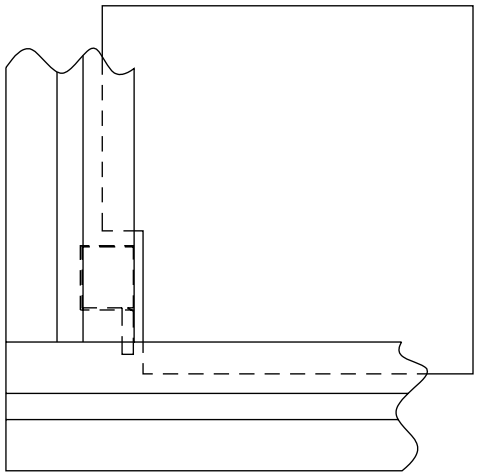
Profile	A	B
40	10.2 (.400)	20.30 (.800)



Notch Corner for Anchor Fastener Clearance

Notch gives clearance for anchor fastener. This service is needed only when panels are installed in T-slots.

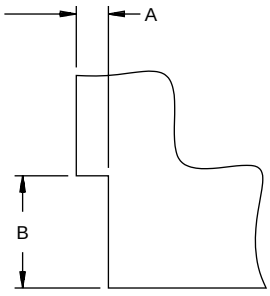
Profile	Service Number
40	TSE0082



Note: Panel should be installed after the anchor fastener is tightened.

Dimensions

Profile	A	B
40	12.7 (.500)	44.50 (1.750)

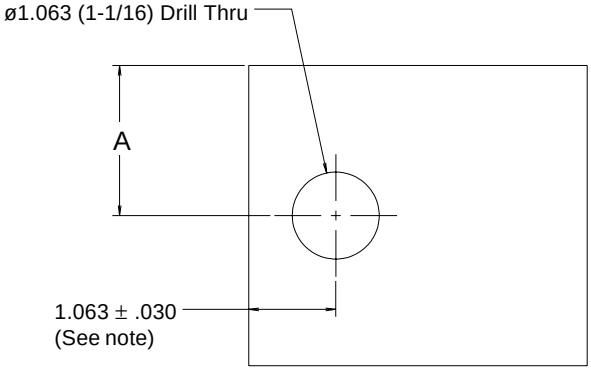


Note: All dimensions in mm (in)

Latch Assemblies

Drill Panel for Push Button Latch Assembly

Maching Service No.: TSE0020



Example:
A machine guard needs a polycarbonate door with a latching system. This door would be ordered as follows:

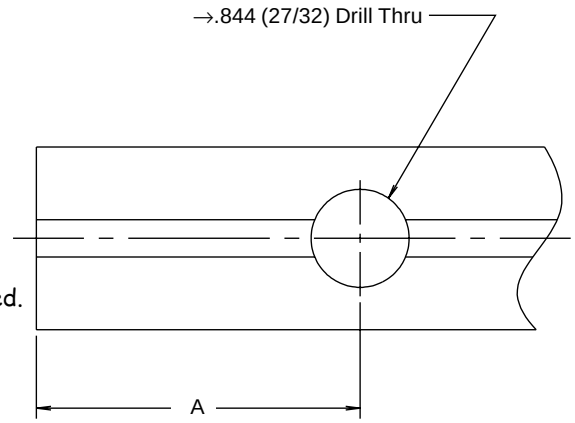
Line 1- Specify the total quantity required:
Part No.= TSP0004, Quantity= 6 ft²

Line 2- Specify machining services required:
Machining Service No.= TSE0018-3 ft x 2 ft

Line3- Specify machining services required:
Machining Service No.= TSE0020 - A @ customer specification

Note: The hole location shown is for a tight fit between the panel and frame. For clearance fit, subtract the amount of clearance from this dimension.

Drill Extrusion for L-handle Latch Assembly



Profiles	Machining Service Number
40 & 80	TSE0024

Example:
A framed door using 40 x 40 profiles with a latching system is required. The framed door would be ordered as follows:

Line 1- Specify the total length (height) of door:
Part No.= TSL4040, 30"

Line 2- Specify machining services required:
Machining Service No.= TSE4040, 1 pc @ 30"

Line3- Specify machining services required:
Machining Service No.= TSE0024, A1 @ customer specification

Note: All dimensions in mm (in)