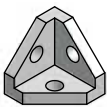
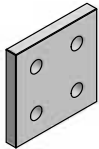
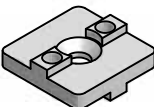
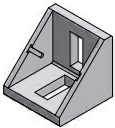
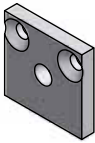
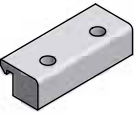
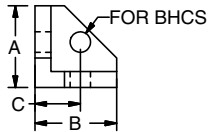
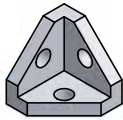


Section 3

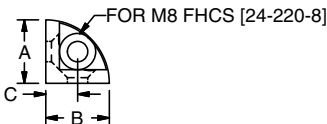
Brackets, Gussets & Plates

Corner Brackets	98		Joining Plates	102-103	
Corner Connectors	99		Angle Brackets	104-105	
Cross Connector	100		Machined Gussets	106	
Angle Connector	100		Cast Gussets	107	
Mounting Plate	101		Corner Elements	108	
Clamp Block	101		Machined Corner Elements	109	

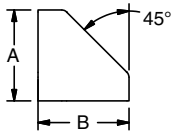
Corner Bracket



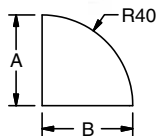
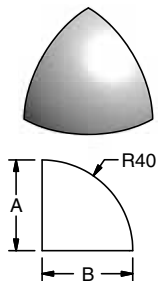
22-146
22-153



22-150

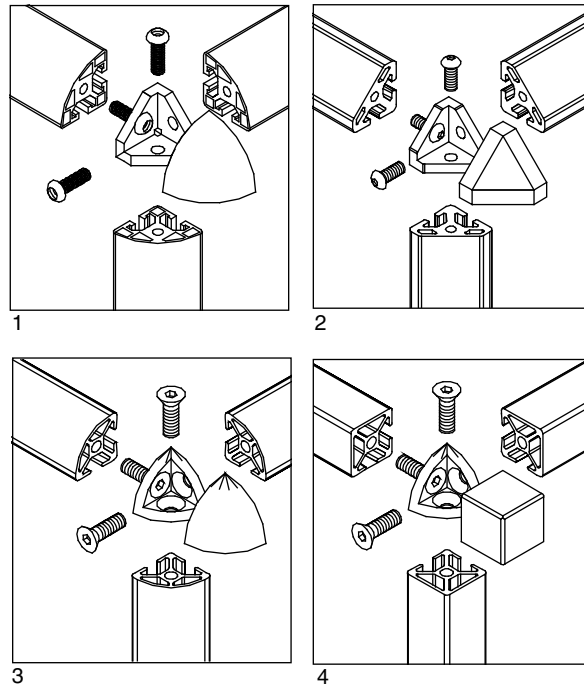


18-822



18-821
22-151
22-154

18-842
22-152



Application

Corner brackets are used for connecting 40, 30 and 1.5" Series profiles at right angles. Ideal for construction of display cases, tables, cover hoods or anywhere a protected corner is desired. Caps are designed to match the contour of the profile.

Technical Data

Bracket: Die Cast Zinc

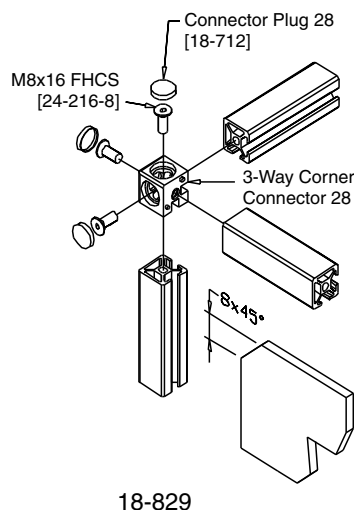
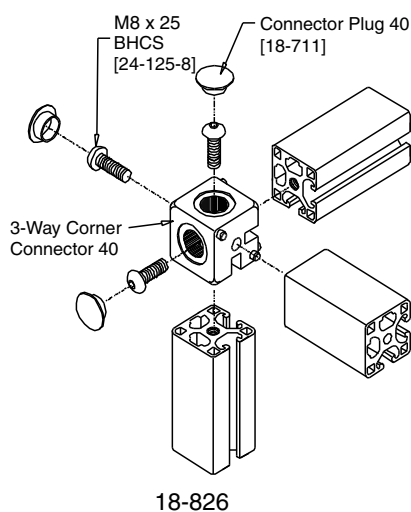
End Cap: Glass-filled Nylon, Black

Profile ends must be tapped for M8 (5/16-18) screws (included with set).

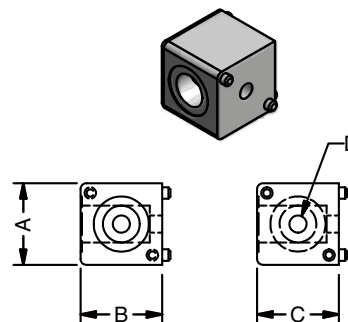
Ordering Information

Series	Description	A	B	C	Unit	Wt.	Part #
40	Corner Bracket	36	36	20	Set	120 g	22-146
	Radius Connector Cap	40	40	—	Each	8 g	18-821
	3x45° Connector Cap	40	40	—	Each	9 g	18-822
	Square Connector Cap	40	40	—	Each	15 g	18-842
30	Corner Bracket	28	28	15	Set	69 g	22-150
	Radius Connector Cap	30	30	—	Each	4 g	22-151
	Square Connector Cap	30	30	—	Each	7 g	22-152
1.5"	Corner Bracket	1.5"	1.5"	0.75"	Set	120g	22-153
	Radius Connector Cap	1.5"	1.5"	—	Each	8 g	22-154

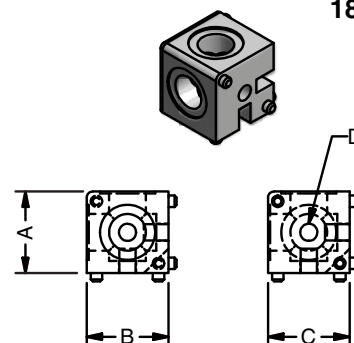
* For Machining M8 Tap use part number 19-010 for each profile end



Corner Connector



18-826
 18-852
 18-872
 18-892
 18-902



18-827
 18-829
 18-853
 18-873
 18-893
 18-903

Application

Corner connectors are ideal for use with closed face profiles. Suitable for clean room environments, they include access plugs to cover hardware.

Order all hardware separately

Series	2-Way	3-Way
40	(2) 24-125-8	(3) 24-125-8
30	(2) 24-216-8	(3) 24-216-8
28	—	(3) 24-216-8
20	(2) 24-112-5	(3) 24-112-5
1.5"	(2) 25-116-5	(3) 25-116-5
1"	(2) 25-112-4	(3) 25-112-4

Technical Data

40 Series

Block: Die-cast Aluminum, Silver Paint
 Plug: Nylon

28 Series

Block: Aluminum, Black Anodized
 Plug: Acetal (Delrin)

20, 1" and 1.5" Series

Block: Die-cast aluminum, Silver Paint
 Plug: Nylon

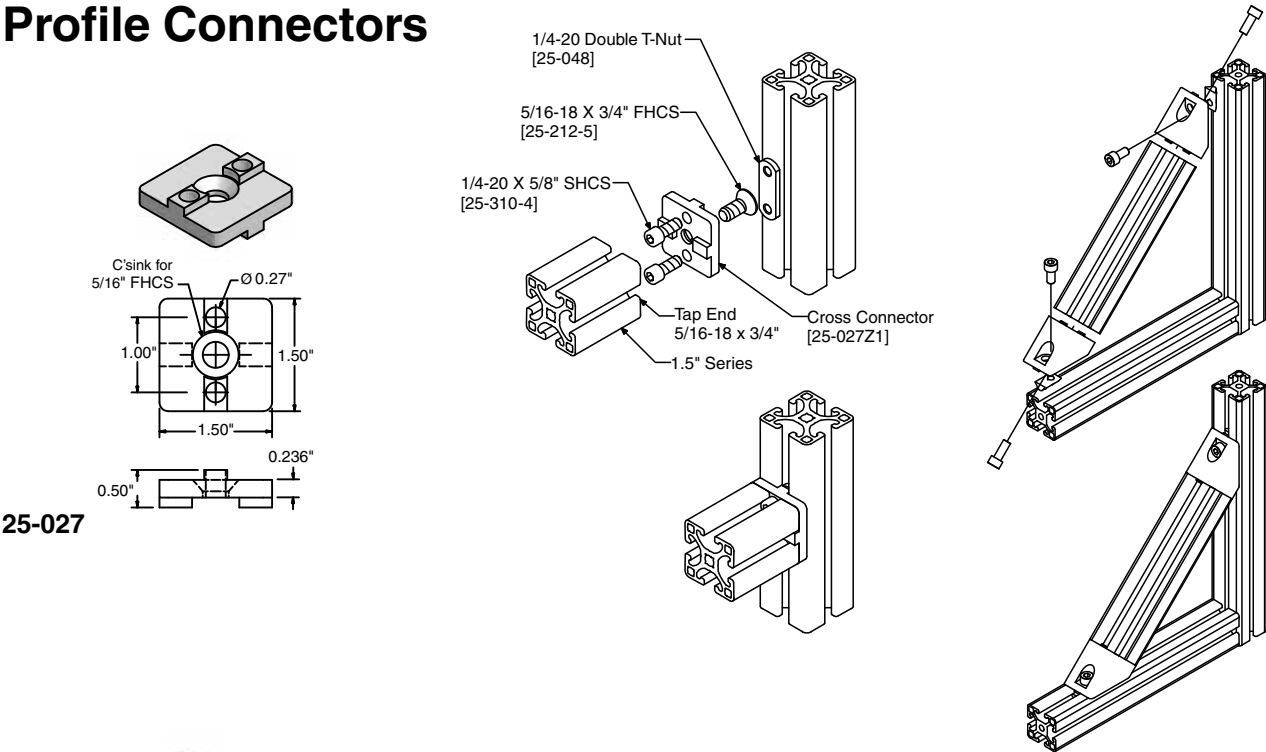
Profile ends must be tapped for screws.
 Hardware not included.

Ordering Information

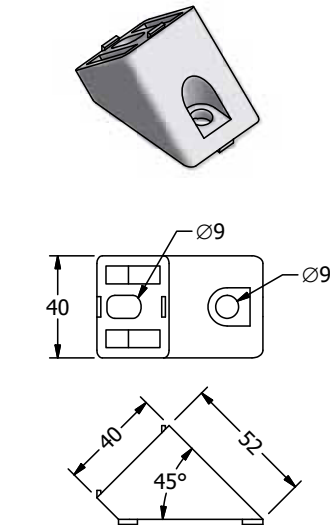
Series	Description	A	B	C	D	Unit	Weight	Part #
40	2-Way	40	40	40	M8 BHCS	Set	26 g	18-826
	3-Way	40	40	40	M8 BHCS	Set	26 g	18-827
30	2-Way	30	30	30	M8 FHCS	Set	47 g	18-902
	3-Way	30	30	30	M8 FHCS	Set	47 g	18-903
28	3-Way	28	28	28	M8 FHCS	Set	25 g	18-829
	Access Plug	—	—	—	—	Each	1 g	18-712
20	2-Way	20	20	20	M5 BHCS	Set	13 g	18-852
	3-Way	20	20	20	M5 BHCS	Set	10 g	18-853
1.5"	2-Way	1.5"	1.5"	1.5"	5/16-18 BHCS	Set	105 g	18-892
	3-Way	1.5"	1.5"	1.5"	5/16-18 BHCS	Set	91 g	18-893
1"	2-Way	1"	1"	1"	1/4-20 BHCS	Set	30 g	18-872
	3-Way	1"	1"	1"	1/4-20 BHCS	Set	26 g	18-873

* For Machining Tap use part number 19-010 for each profile end.

Profile Connectors



25-027



27-600

Application

The cross connector and angle connector are bracket style connectors that allow you to connect 40 or 1.5" Series profiles together with minimal servicing. You can cut the profile to length, tap one end of the profile and be able to join two pieces of profile together.

Technical Data

25-027

Zinc Cast, Clear Zinc Plate Finish

All fasteners included. To order plate only, add Z1 at end of part number.

27-600

Zinc Cast, Clear Paint

Order fasteners separately.

Recommended Hardware (Order Separately)

Part #	Series	Screws	T-Nut
27-600	40	(2) 24-320-8 (2) 24-316-8	(2) 20-058
	1.5"	(2) 25-312-5 (2) 25-310-5	(2) 25-002

Ordering Information

Series	Description	Unit	Weight	Part #
40/1.5"	Cross Connector, Double Tab	Each	55 g	25-027
40/1.5"	Angle Connector, 45°	Each	200 g	27-600

* For Machining M8 Tap, use part number 19-010 for each profile end.
For machining 5/16-18 Tap, use part number 19-009 for each profile end.

Application

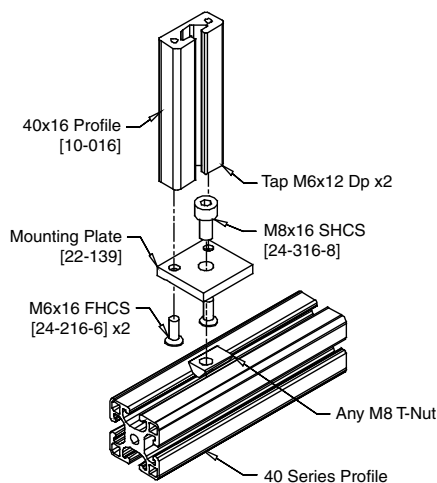
Designed to mount 40x16 profile (10-016) at 90° angle to any 40 or 1.5" Series profile.

Technical Data

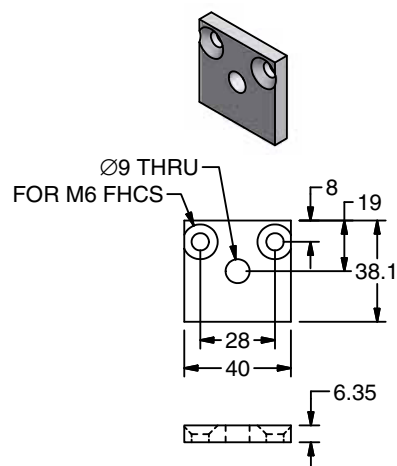
Aluminum, Clear Anodized

Requires the following hardware:

Screw	(1) 24-316-8
T-Nut	(1) 20-058
FHCS	(2) 24-216-6

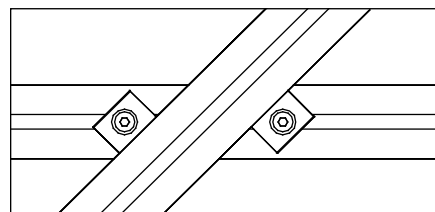


Mounting Plate



Ordering Information

Series	Description	Unit	Weight	Part #
40	Mounting Plate for 40x16 profile	Each	19 g	22-139



Application

Cost effective connection of 40 Series profiles stacked at intersecting angles. Not recommended for linear applications. Use in pairs to accomplish proper clamping.

Technical Data

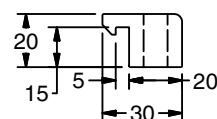
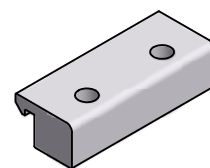
Aluminum, Clear Anodized

Requires the following hardware per hole:

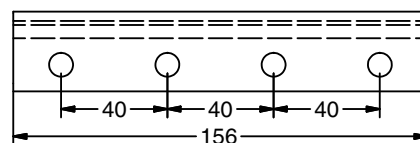
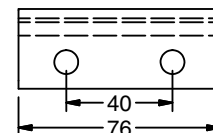
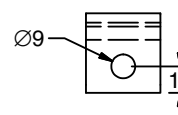
Screw	T-Nut
(1) 24-130-8	(1) 20-064

Ordering Information

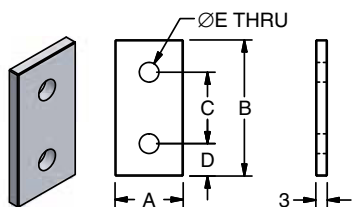
Series	Description	Unit	Weight	Part #
40	Clamp Block 1 (1 hole)	Each	0.03 kg	20-018-1
	Clamp Block 2 (2 holes)	Each	0.90 kg	20-018-2
	Clamp Block 4 (4 holes)	Each	0.17 kg	20-018-4



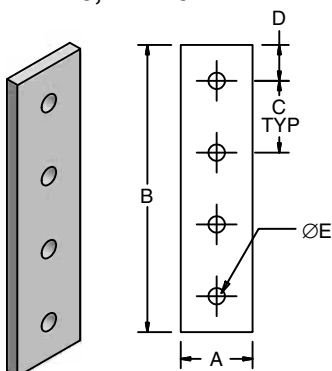
20-018-1
20-018-2
20-018-4



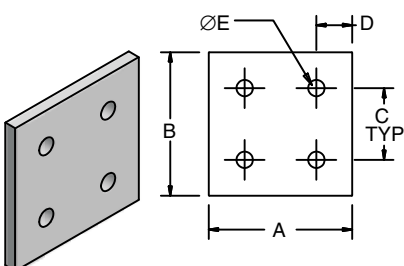
Straight



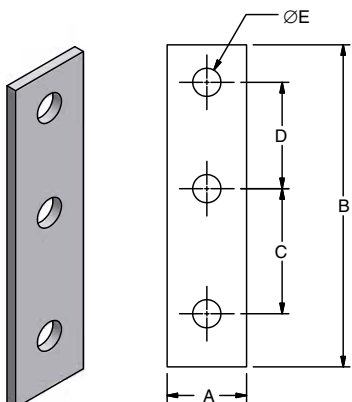
20-117
20-300, 20-310
22-140, 22-145



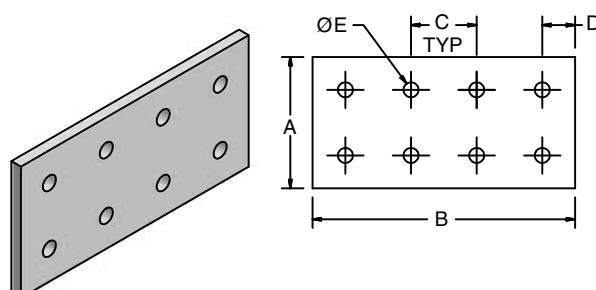
20-108
20-301, 20-310



20-111
20-118
20-302, 20-312



20-104



20-112
20-303
20-313

Application

Exterior joining plates for fastening profiles without servicing. Can also be used for additional strength on joints with fasteners.

Technical Data

Aluminum, Anodized,
40 Series: 6.4mm Thick
30/28 Series: 3.2mm Thick
1.5" and 1" Series: 0.25" Thick

Recommended Fasteners (Order Separately)

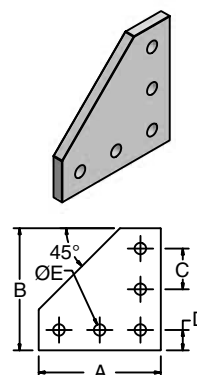
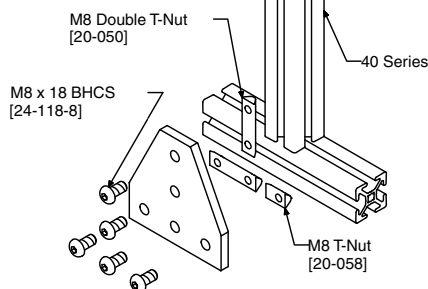
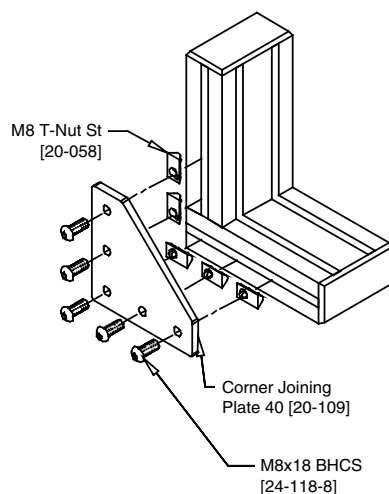
Series	Screws	T-Nuts	Double T-Nut (if applicable)
40	24-118-8	20-058	20-050
30	24-112-8	20-058	20-050
28	21-110-8	20-057	—
20	24-108-5	20-045	—
1.5"	25-110-5	25-002, 25-082 or 20-182	25-041 or 25-046
1"	25-108-4	25-031, 25-034 or 25-036	25-032 or 25-037

Ordering Information

Series	A	B	C	D	E	Unit	Weight	Part #
40	38	76	40	18	9	Each	40 g	22-140
	34	154	40	17	9	Each	86 g	20-108
	74	74	40	17	9	Each	90 g	20-111
	74	154	40	17	9	Each	188 g	20-112
30/28	25	54	28	13	9	Each	33 g	22-145
	25	103	40	34	9	Each	20 g	20-104
20	19	38	20	9	5.5	Each	7 g	20-117
	38	38	20	9	5.5	Each	11 g	20-118

Series	A	B	C	D	E	Unit	Weight	Part #
1.5"	1.50"	3.00"	1.50"	0.75"	0.34"	Each	45 g	20-300
	1.50"	6.00"	1.50"	0.75"	0.34"	Each	90 g	20-301
	3.00"	3.00"	1.50"	0.75"	0.34"	Each	95 g	20-302
	3.00"	6.00"	1.50"	0.75"	0.34"	Each	195 g	20-303
1"	1.00"	2.00"	1.00"	0.50"	0.28"	Each	18 g	20-310
	1.00"	4.00"	1.00"	0.50"	0.28"	Each	36 g	20-311
	2.00"	2.00"	1.00"	0.50"	0.28"	Each	36 g	20-312
	2.00"	4.00"	1.00"	0.50"	0.28"	Each	68 g	20-313

Corner & "T"



20-105
20-109
20-304
20-314

Application

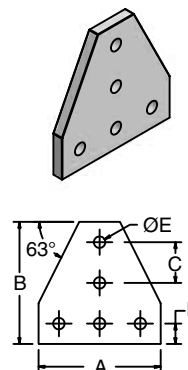
Exterior joining plates for fastening profiles without servicing. Can also be used for additional strength on joints with fasteners.

Technical Data

Aluminum, Anodized,
40 Series: 6.4mm Thick
30/28 Series: 3.2mm Thick
1" and 1.5" Series: 0.25" Thick

Recommended Fasteners (Order Separately)

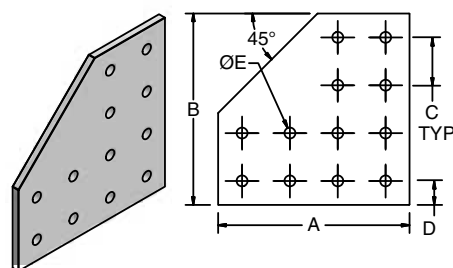
Series	Screws	T-Nuts	Double T-Nut (if applicable)
40	24-118-8	20-058	20-050
30	24-112-8	20-058	20-050
28	21-110-8	20-057	—
1.5"	25-110-5	25-002, 25-082 or 20-182	25-041 or 25-046
1"	25-108-4	25-031, 25-034 or 25-036	25-032 or 25-037



20-106
20-110
20-305
20-315

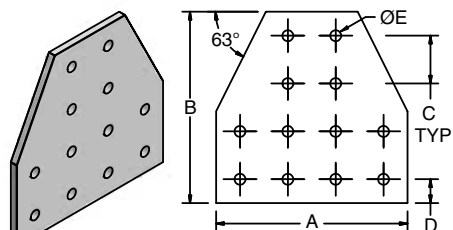
Ordering Information

Series	A	B	C	D	E	Unit	Weight	Part #
40	114	114	40	17	9	Each	163 g	20-109
	114	114	40	17	9	Each	163 g	20-110
	154	154	40	17	9	Each	341 g	20-113
	154	154	40	17	9	Each	341 g	20-114
30/28	80	80	28	12	9	Each	39 g	20-105
	80	80	28	12	9	Each	39 g	20-106



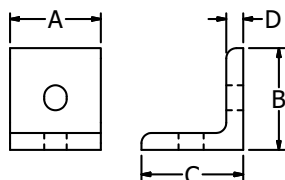
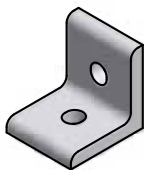
20-113
20-307

Series	A	B	C	D	E	Unit	Weight	Part #
1.5"	4.50"	4.50"	1.50"	0.75"	0.34"	Each	173 g	20-304
	4.50"	4.50"	1.50"	0.75"	0.34"	Each	173 g	20-305
	6.00"	6.00"	1.50"	0.75"	0.34"	Each	359 g	20-306
	6.00"	6.00"	1.50"	0.75"	0.34"	Each	359 g	20-307
1"	3.00"	3.00"	1.00"	0.50"	0.28"	Each	41 g	20-314
	3.00"	3.00"	1.00"	0.50"	0.28"	Each	41 g	20-315

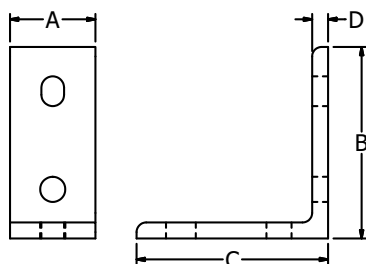
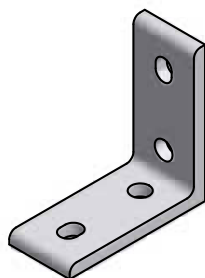
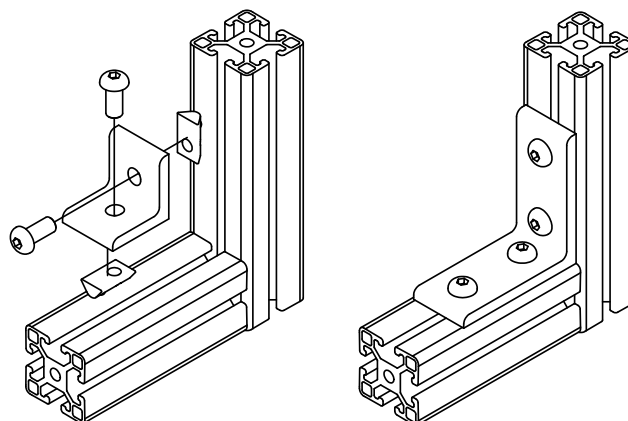


20-114
20-306

Angle Brackets



28-600
28-601
28-602



28-605
28-606

Application

Angle Brackets are used to fasten profiles together without any machining. Although it does not provide as solid a joint as other fastening methods, it allows flexibility for positioning and joining of profiles with no servicing.

Technical Data

Aluminum, Anodized

Recommended Fasteners (Order Separately)

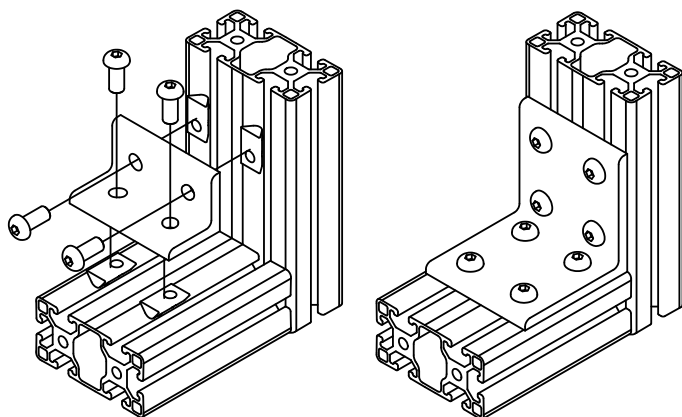
Series	Screws	T-Nuts	Double T-Nut (if applicable)
40	24-118-8	20-058	20-050
30	24-116-8	20-056	—
28	24-110-8	20-055	—
20	24-108-5	20-045	—
1.5"	25-110-5	25-002	25-041
1"	25-106-4	25-031	—

Ordering Information

Series	A	B	C	D	Hole Ø	Weight	Part #
40	34	38.1	38.1	6.4	9	38	28-602
	34	76.2	76.2	6.4	9	79	28-606
30/28	25	25.4	25.4	3.2	8.4	9	28-601
	25	57.2	57.2	3.2	8.4	21	28-605
20	15.9	19.1	19.1	3.2	5.5	4	28-600

Series	A	B	C	D	Hole Ø	Weight	Part #
1.5"	1.34"	1.50"	1.50"	0.25"	9mm	38	28-602
	1.34"	3.00"	3.00"	0.25"	9mm	79	28-606
1"	0.63"	0.75"	0.75"	0.13"	5.5mm	4	28-600

Angle Brackets

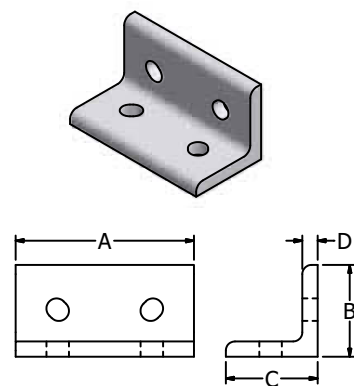


Application

Angle Brackets are used to fasten profiles together without any machining. Although it does not provide as solid a joint as other fastening methods, it allows flexibility for positioning and joining of profiles with no servicing.

Technical Data

Aluminum, Anodized



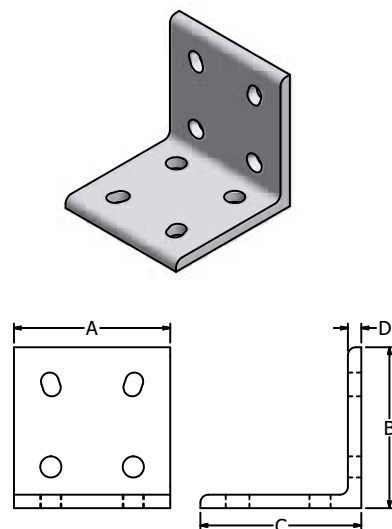
20-116
28-603
28-604

Recommended Fasteners (Order Separately)

Series	Screws	T-Nuts	Double T-Nut (if applicable)
40	24-118-8	20-058	20-050
30	24-116-8	20-056	—
28	24-110-8	20-055	—
20	24-108-5	20-045	—
1.5"	25-110-5	25-002	25-041
1"	25-106-4	25-031	—

Ordering Information

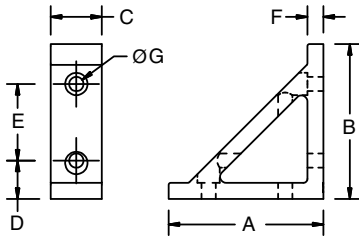
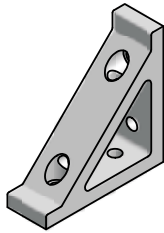
Series	A	B	C	D	Hole Ø	Weight	Part #
40	74	38.1	38.1	6.4	9	84 g	28-604
	74	76.2	76.2	6.4	9	174 g	28-608
30/28	50.8	25.4	25.4	3.2	8.4	18 g	28-603
	53	57.2	57.2	3.2	8.4	45 g	28-607
20	36	19.1	19.1	3.2	5.5	10 g	20-116



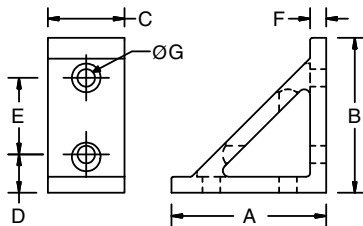
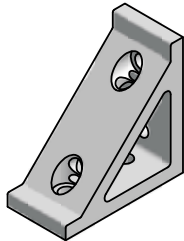
28-607
28-608

Series	A	B	C	D	Hole Ø	Weight	Part #
1.5"	2.91"	1.50"	1.50"	0.25"	9mm	84 g	28-604
	2.91"	3.00"	3.00"	0.25"	9mm	174 g	28-608
1"	2.00"	1.00"	1.00"	0.13"	5.5mm	18 g	28-603

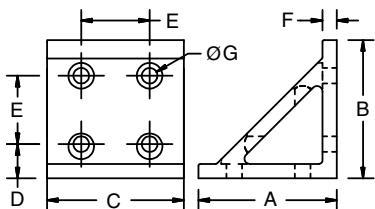
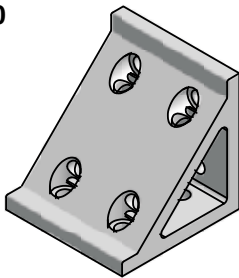
Machined Gussets



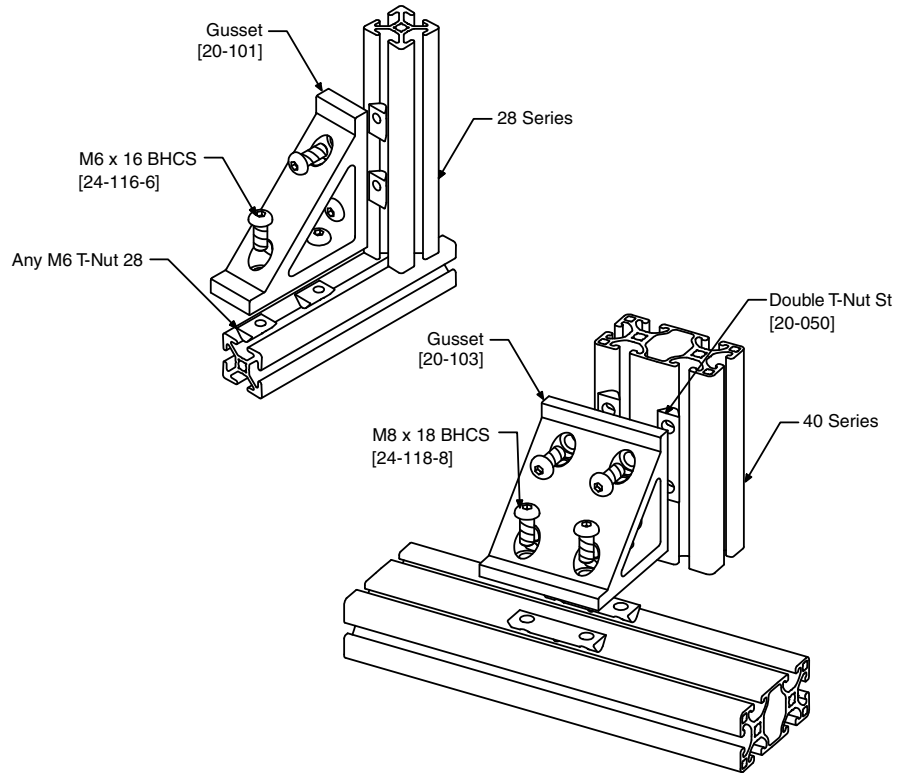
20-101
20-442



20-102
20-440



20-103
20-441



Application

Provide a high strength connection between profiles. Gussets are used to attach profiles at 90° angles without additional fasteners. Can be added to joints with fasteners to increase strength or ensure accurate right angles.

Technical Data

Aluminum, Clear Anodized
Order all hardware separately.

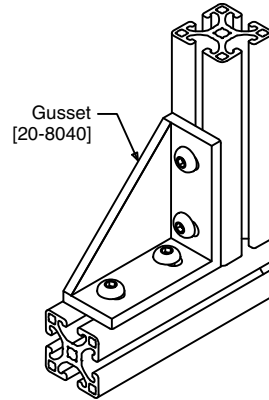
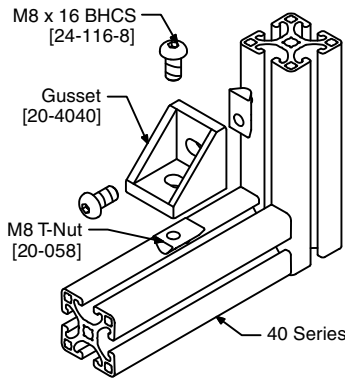
Recommended Fasteners (Order Separately)

Series	Screws	T-Nuts
40	24-118-8	20-058 or 20-050
30	24-116-6	20-056
28	24-116-6	20-055
1.5"	25-112-5	25-002 or 25-041
1"	25-110-4	25-031, 25-034 or 25-036

Ordering Information

Series	A	B	C	D	E	F	G	Weight	Part #
40	77	77	34	20	40	8	9	0.14 kg	20-102
	77	77	74	20	40	8	9	0.31 kg	20-103
30/28	77	77	25.4	20	40	8	7	0.11 kg	20-101
1.5"	3.03"	3.03"	1.25"	0.75"	1.50"	0.32"	0.34"	0.14 kg	20-440
	3.03"	3.03"	2.75"	0.75"	1.50"	0.32"	0.34"	0.31 kg	20-441
1"	3.03"	3.03"	0.875"	0.75"	1.50"	0.32"	0.28"	0.11 kg	20-442

* For Machining Tap use part number 19-010 for each profile end



Application

Provide a high strength right angle connection between two profiles. These gussets can only be used for right angle connections in-line with T-slots as shown. Cast tabs help align the gussets in the center of the profile.

Technical Data

Die Cast Aluminum

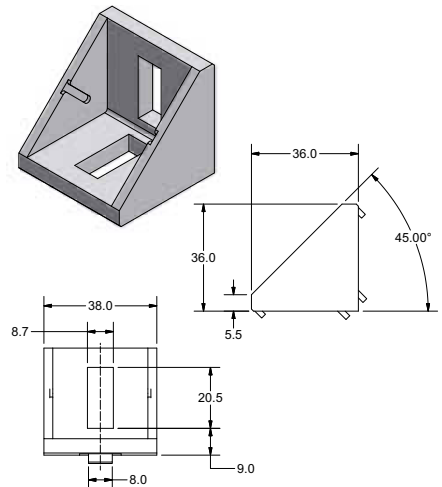
Recommended Fastening Hardware (Order Separately)

Series	Screws	T-Nuts
40	24-116-8	Any M8
20	25-106-4	25-031, 25-034 or 25-036
1.5"	25-112-5	25-002 or 25-041

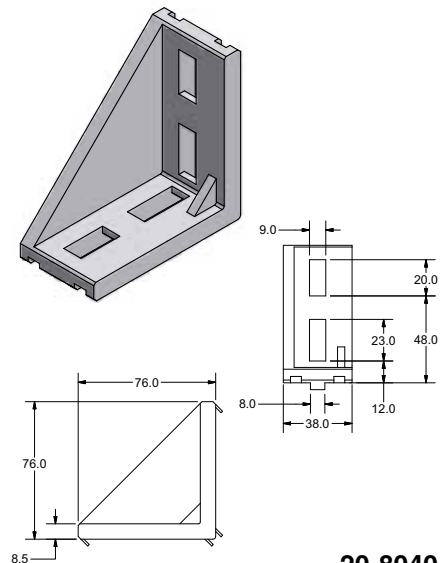
Ordering Information

Description	Unit	Weight	Part #
Gusset 40	Each	59 g	20-4040
Gusset 80x40	Each	136 g	20-8040
Gusset 20	Each	36 g	20-1010

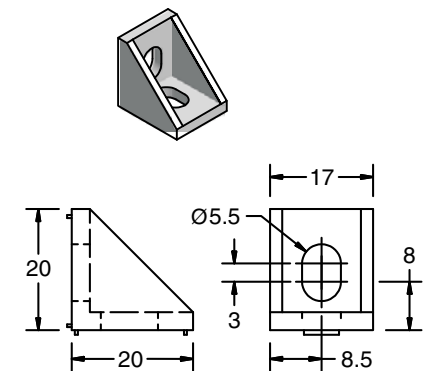
Cast Gussets



20-4040

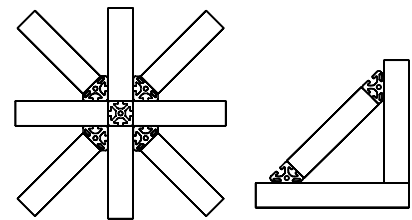
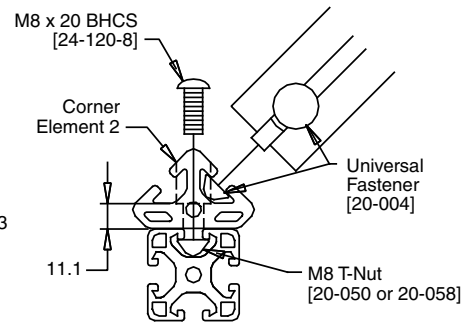
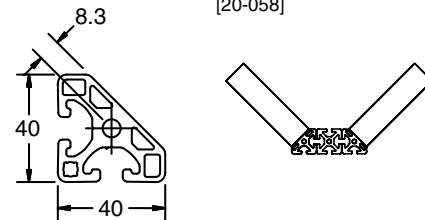
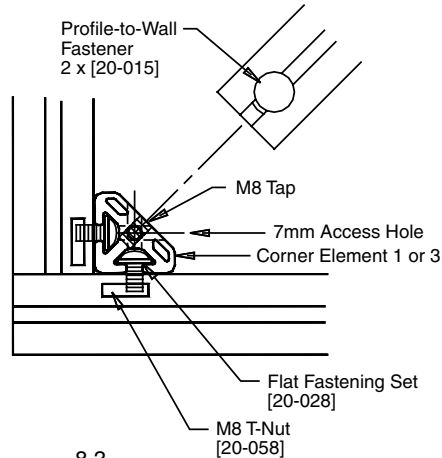
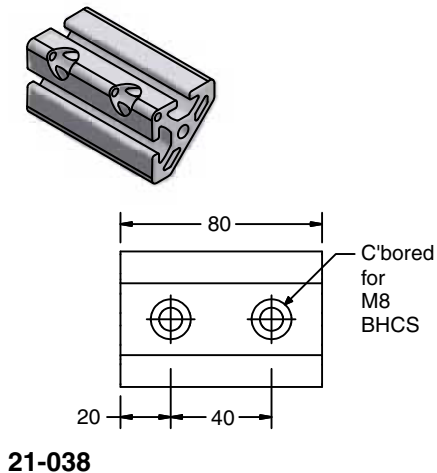
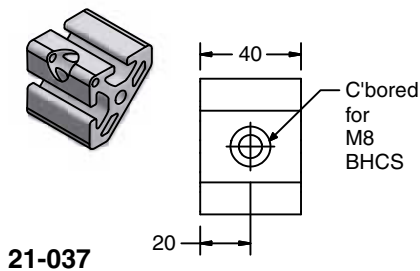
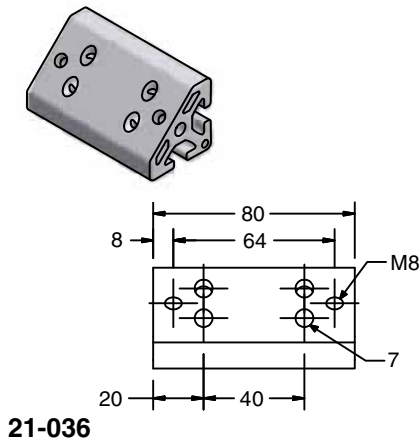
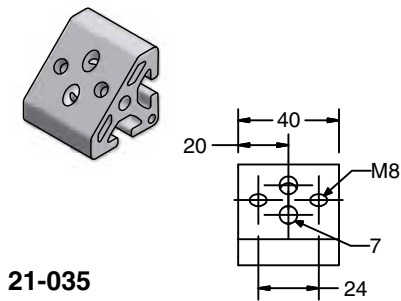


20-8040



20-1010

Corner Elements



Application

Designed for attaching profiles at 45°. Ideal for trusses, bracing and supports.

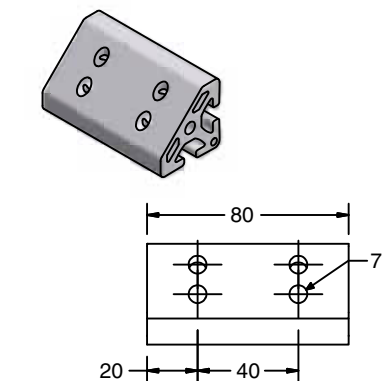
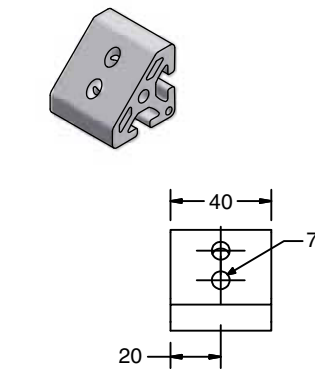
Ordering Information

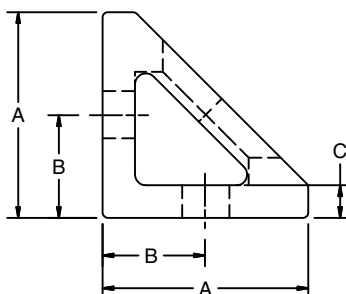
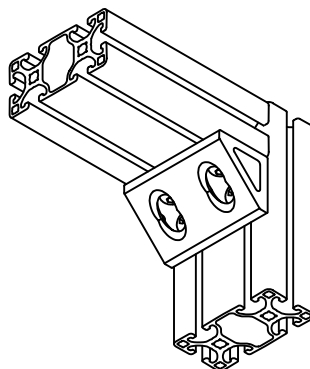
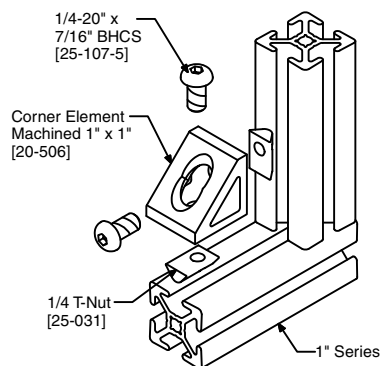
Series	Description
40	Corner Element 1, 40
	Corner Element 1, 80
	Corner Element 2, 40
	Corner Element 2, 80
	Corner Element 3, 40
	Corner Element 3, 80
	End Cap 40 x 40-45°

Technical Data

Aluminum, Clear Anodized

Unit	Weight	Part #
Each	71 g	21-035
Each	45 g	21-036
Each	67 g	21-037
Each	133 g	21-038
Each	73 g	21-135
Each	150 g	21-136
Each	6 g	18-820





Application

These corner brackets provide a high strength, accurate right angle connection between two profiles, while providing a low profile, aesthetically pleasing look.

Technical Data

Aluminum, Clear Anodized

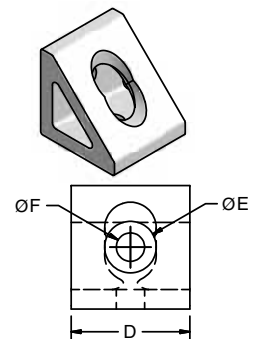
Recommended Fastening Hardware (Order Separately)

Series	Screws	T-Nuts	Double T-Nuts (if applicable)
40	24-116-8	20-058, 20-081 or 20-181	20-050
28	24-112-6	20-056, 20-090 or 20-190	—
1.5"	25-110-5	25-002, 20-082 or 20-182	25-041 or 25-046
1"	25-107-4	25-031, 25-034 or 25-036	25-032 or 25-037

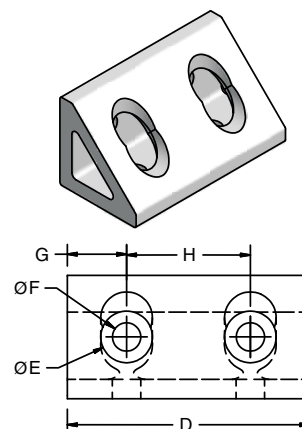
Ordering Information

Series	A	B	C	D	E	F	G	H	Wt.	Part #
40	38	20	6	35	15	8.5	—	—	64 g	20-4040M
	38	20	6	75	15	8.5	17.5	40	136 g	20-4080M
28	27	14	5	25	11	7	—	—	23 g	20-2828M
	27	14	5	53	11	7	12.5	28	50 g	20-2856M
1.5"	1.496"	0.75"	0.177"	1.25"	0.63"	0.34"	—	—	64 g	20-508
	1.496"	0.75"	0.177"	2.75"	0.63"	0.34"	0.72"	1.50"	136 g	20-509
1"	1.000"	0.50"	0.236"	0.88"	0.44"	0.28"	—	—	23 g	20-506
	1.000"	0.50"	0.236"	1.88"	0.44"	0.28"	0.47"	1.00"	50 g	20-507

Machined Corner Elements



20-2828M
20-4040M
20-506
20-508



20-2856M
20-4080M
20-507
20-509

