Overview

One of the greatest strengths of the Bosch Rexroth structural aluminum framing system is the wide choice of connection methods, and the ability to provide the right connection regardless of whether your concern is strength, flexibility, or aesthetics, or a combination of all those advantages.

New! designLINE - quality and performance with appeal

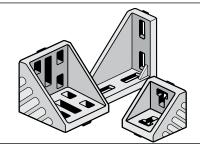
Need a way to make your already appealing structures even more attractive? Do you value an attractive design?

Then look for the new designLINE versions of our standard connectors throughout this section.

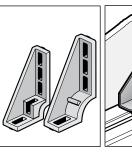
A new surface treatment with special silver paint ensures that designLINE components seamlessly match the aluminum frame. The paint is scratch proof, preserving the connector's ESD compatibility.

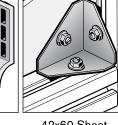
For added convenience all designLINE connectors are available as a kit with fasteners and caps (where provided).

90° Right Angle Connectors



Die-Cast Gussets 20-Series 3-3 • 30-Series 3-4 40-Series 3-5 • 45-Series 3-6 50-Series 3-7 • 60-Series 3-8 80-Series 3-8 • 90-Series 3-9 100-Series 3-9

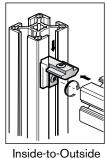




Die-Cast Foundation Brackets 3-10 & 3-11

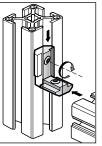
42x60 Sheet Metal Gusset

3-12



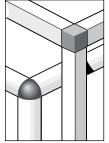
Gussets

3-12

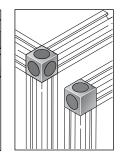


3

Inside-to-Inside Gussets 3-13



Corner Brackets 3-14



Corner Cube Kits 3-15



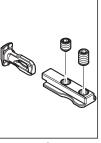
S6, S8, & S12 Self-Tapping Connection Screws 3-16



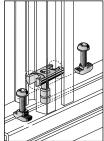
M12 Connection Screws and Anti-Rotation T-Blocks 3-17



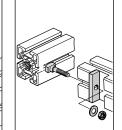
M16 Connection Screw 3-18



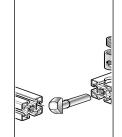
Tension Connector 3-18



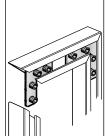
Bolt Connector Kits 3-19 & 3-20



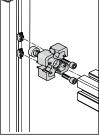
Cross Connector Kit 3-20



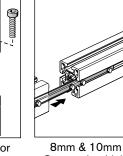
Quick Connectors/Rigid 3-21



Mitered Corner Connectors 3-22

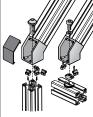


T-Connector Kits 3-23



End Connector Kits 3-24

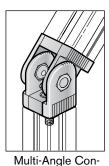


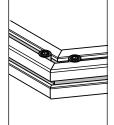


45° Angle Connectors

45° Angle Connector Kits - 30mm, 40mm & 45mm 3-26 & 3-27

Multi-Angle Connectors





End-to-End Vari-

able Angle Bolt Connector

3-30

End-to-Side Vari-

able Angle Bolt

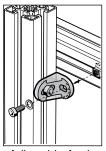
Connector

3-31

End-to-End Bolt

Connector Kits

3-25

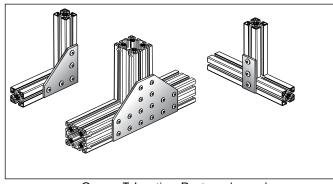


Adjustable Angle Gusset Kits 3-32

Joining Plates

nector Kits

3-28 & 3-29



Corner, T-Junction, Rectangular, and Cross Junction Joining Plates 3-33 to 3-35

Die-Cast Gussets and Foundation Brackets

Die-cast aluminum gussets are available for connecting a wide range of profile sizes and applications, from 20x20 to 100x100, as well as special "foundation bracket" sizes such as 30x120 and 45x180. Elongated holes allow gussets to be adjusted for position on the profile, while guide tabs assure proper alignment of gusset in the profile's T-slot. Tabs can be easily removed with a flat-tip screwdriver for cross-connection of profiles. All gussets are designed to accept optional cover caps.

Features:

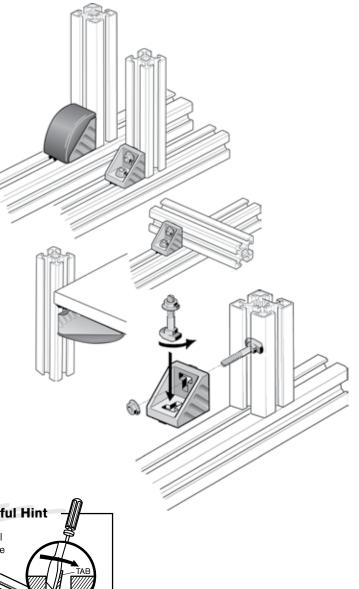
- T-slot alignment tabs for easy positioning and reduced assembly time
- Clean, professional appearance
- Connects anywhere on the profile's T-slot
- Gusset and connecting hardware available as separate components
- Close tolerances on gusset edges provide flush, tight fit
- Alignment tabs can easily be removed for cross-oriented connections
- · Optional cover caps available

Machining required:

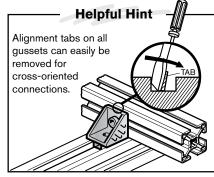
• None

Material:

- · Gusset: die-cast aluminum
- · Fasteners: zinc-plated steel
- · Cover cap: black polyamide 6



3



20x20 Gusset $\bigcirc 0^{-6}$. 6^{-8} . 1^{-6} . $1^{-4.5}$. 1^{-6} . 1^{-6} . 1^{-8}	EQ A 6mm to 8mm adapter
Description Lot Size	Part Number
20x20 gusset only 1	3 842 523 508 <i>GoTo</i>
20x20 gusset with fasteners	3 842 523 511 GOTO
20x20 round cover cap	3 842 523 513
_ζ 6→8 _,	
Plastic adapter 🔊 1	3 842 523 516
20X20 gusset kit with fastener (includes cover cap) designLINE	3 842 538 707
20x40 Gusset	

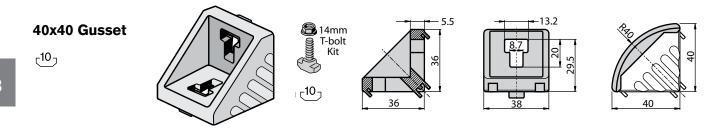
	34.7	40 6mm to 8mm adapter
Description	Lot Size	Part Number
20x40 gusset only	1	3 842 523 517
20x40 gusset with fasteners	1	3 842 523 520
20x40 gusset kit with fasteners (includes cover cap) designLINE	1	3 842 538 708
20x40 round cover cap	1	3 842 523 522
Plastic adapter 🕲	1	3 842 523 516

3

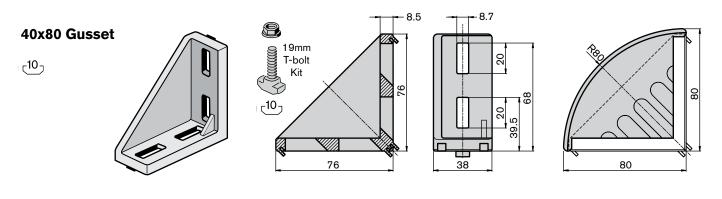
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Gussets		
Gussets 30x30 Gusset GoTo (3, 10) (3, 10) (8mm to 10mm adapter
Description	Lot Size	Part Number
30x30 gusset only	1	3 842 523 525 <i>GoTo</i>
30x30 gusset kit with fasteners (includes cover cap) designLINE	1	3 842 538 709
8 30x30 gusset with fasteners	1	3 842 523 528 <i>GoTO</i>
8→10_ 30x30 gusset with fasteners	1	3 842 523 530 GOTO
		3 642 323 330 4010
30x30 gusset kit (includes cover cap) designLINE	1	3 842 538 711
10_ 30x30 gusset with fasteners for 10mm T-slots	1	3 842 523 532
10 30x30 gusset kit with fasteners for 10mm T-slots (includes cover cap) designLINE	1	3 842 538 710
	· ·	
30x30 round cover cap	1	3 842 523 534
Plastic adapter	1	3 842 523 537
30x60 Gusset (3, 10) (3, 10) (3, 14) (3, 14	60	8mm to 10mm adapter
Description	Lot Size	Part Number
30x60 gusset only	1	3 842 523 538
30x60 gusset with fasteners	1	3 842 523 541
30x60 gusset kit with fasteners (includes cover cap) designLINE	1	3 842 538 712
	1	0 072 000 / 12
30x60 round cover cap	1	3 842 523 543
Plastic adapter 🕅	1	3 842 523 537

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Description	Lot Size	Part Number
40x40 gusset only	1	3 842 528 967
40x40 gusset with fasteners	1	3 842 529 383
	7	
40x40 gusset kit with fasteners (includes cover cap) designLINE	1	3 842 538 716
40x40 round cover cap	1	3 842 529 007

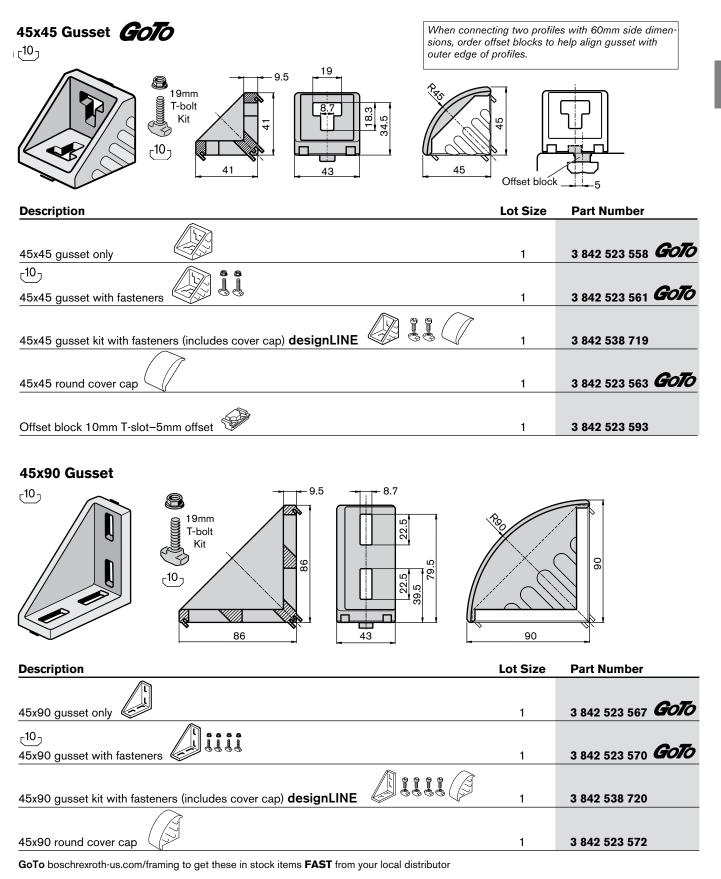


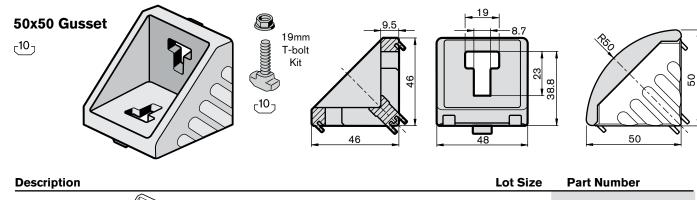
Description	Lot Size	Part Number
40x80 gusset only	1	3 842 529 005
40x80 gusset with fasteners	1	3 842 529 386
40x80 gusset kit with fasteners (includes cover cap) designLINE		
40x80 gusset kit with fasteners (includes cover cap) designLINE	1	3 842 538 717
40x80 round cover cap	1	3 842 529 008

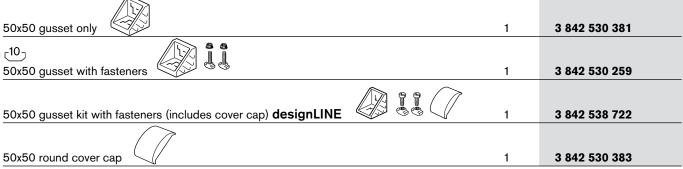
3

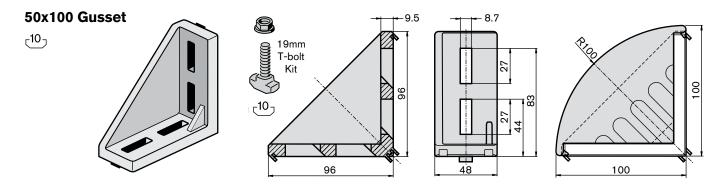
Section 3: Profile Connectors

Gussets





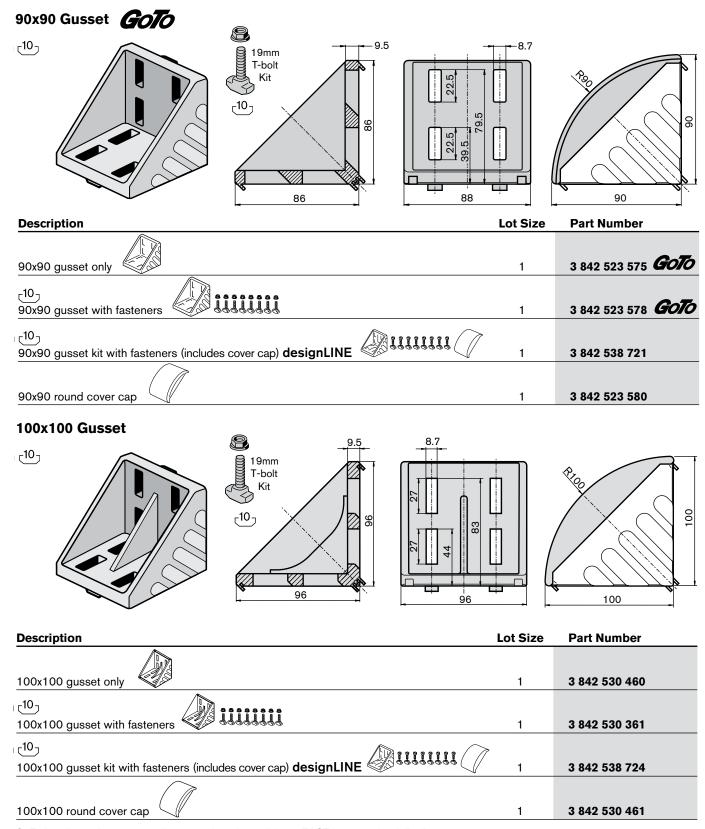




Description	Lot Size	Part Number
50x100 gusset only	1	3 842 530 382
50x100 gusset with fasteners	1	3 842 530 260
50x100 gusset kit with fasteners (includes cover cap) designLINE		
50x100 gusset kit with fasteners (includes cover cap) designLINE	1	3 842 538 723
50x100 round cover cap	1	3 842 530 384

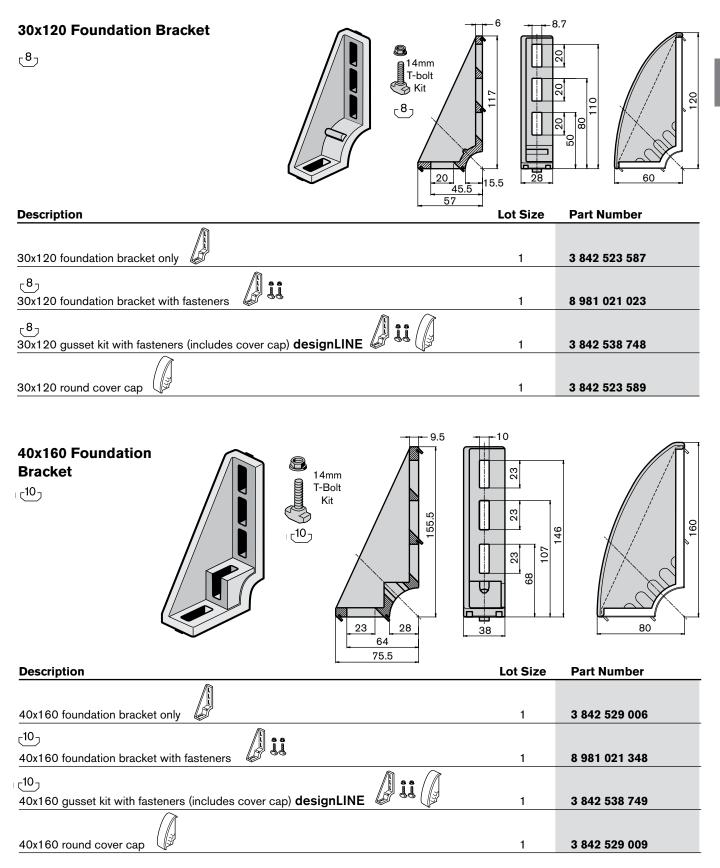
$\begin{array}{c} 60x60 \text{ Gusset} \\ \hline \textbf{GoTO} \\ \textbf{B} \ 10 \\ \hline \textbf{B} \$	Gussets		
60x60 gusset only 1 3 842 523 546 GOTO 60x60 gusset with fasteners for 1 3 842 523 549 60x60 gusset with fasteners for 1 3 842 523 549 60x60 gusset with fasteners (includes cover cap) designLINE 1 3 842 523 551 1 3 842 523 551 1 3 842 523 551 1 3 842 523 551 1 3 842 523 551 1 3 842 523 551 1 3 842 523 551 1 3 842 523 551 1 3 842 523 553 60x60 gusset with fasteners (includes cover cap) designLINE 1 3 842 523 553 100-10 1 3 842 523 555 3 60x60 gusset with fasteners (includes cover cap) designLINE 1 3 842 523 555 80x80 Gusset 1 3 842 523 555 1 60x60 round cover cap 1 3 842 523 555 1 80x80 Gusset 1 3 842 523 555 1 10 1 3 842 523 555 1 1 10 1 3 842 523 555 1 1 80x80 Gusset 1 3 842 523 555 1 1 80x80 gusset kit wit	60x60 Gusset GOTO ⁸ 10 ^{14mm} ^{14mm} ^{1bolt} ^{kit} ⁸ 10 ⁶ ⁶ ⁶ ⁶ ⁶ ⁶ ⁶ ⁶		Remove 10mm center tab to use on 30x60
$\frac{(a-b)}{60x60 \text{ gusset with fasteners for } (B\to 0)}{60x60 \text{ gusset with fasteners (includes cover cap) designLINE}} 1 3842 533 713 1 3842 533 713 1 3842 533 713 1 3842 533 713 1 3842 533 713 1 3842 533 713 1 3842 533 713 1 3842 533 713 1 3842 533 713 1 3842 533 713 1 3842 533 551 1 3842 533 551 1 3842 533 551 1 3842 533 551 1 3842 533 553 1 1 3842 533 553 1 1 3842 533 553 1 1 3842 533 555 1 1 3842 530 231 1 3842 530 231 1 3842 530 231 1 3842 530 231 1 3842 530 231 1 3842 530 231 1 3842 530 231 1 3842 530 231 1 3842 530 231 1 3842 530 360 1 1 3842 530 360 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 3842 530 360 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1$	Description	Lot Size	Part Number
B0x80 gusset with fasteners (or 1/B-B) 1 3 842 523 549 60x80 gusset kit with fasteners (includes cover cap) designLINE 1 3 842 538 713 (B-10) 0 1 3 842 538 511 60x80 gusset kit with fasteners (or 1/B-10) 0 1 3 842 538 714 60x80 gusset kit with fasteners (or 1/B-10) 0 1 3 842 538 714 60x80 gusset with fasteners (or 1/D-10) 0 1 3 842 538 715 60x80 gusset kit with fasteners (or 1/D-10) 0 1 3 842 538 715 60x80 gusset kit with fasteners (includes cover cap) designLINE 1 3 842 538 715 60x80 gusset kit with fasteners (includes cover cap) designLINE 1 3 842 533 555 80x80 Gusset 1 3 842 533 555 80x80 Gusset 1 3 842 530 231 10 1 3 842 530 231 0 1 3 842 530 231 80x80 gusset kit with fasteners (includes cover cap) designLINE 1 3 842 530 231 80x80 gusset with fasteners (includes cover cap) designLINE 1 3 842 530 231 80x80 gusset kit with fasteners (includes cover cap) designLINE 1 3 842 530 231 10 3 8	60x60 gusset only	1	3 842 523 546 GOTO
80x60 gusset kit with fasteners (includes cover cap) designLINE 1 3 842 538 713 1 3 842 538 713 1 3 842 538 713 1 3 842 538 713 1 3 842 538 713 1 3 842 538 713 1 3 842 538 713 1 3 842 538 713 1 3 842 538 714 1 3 842 538 714 1 3 842 538 714 1 3 842 523 553 10-10 1 00-10 1 00-10 1 00-10 1 00-10 1 00-10 1 00-10 1 00-10 1 00-10 1 00-10 1 00-10 1 00-10 1 00-10 1 00-10 1 00-10 1 00-10 1 1 3 842 538 715 00x80 Gusset 1 1 3 842 530 231 00x80 gusset kit with fasteners (includes cover ca	$60x60 \text{ gusset with fasteners for} \qquad \qquad$	1	3 842 523 549
$\frac{(8-10)}{60x60 \text{ gusset with fasteners (includes cover cap) designLINE}} 1 3 842 538 714 1 3 842 538 714 1 3 842 538 714 1 3 842 538 714 1 3 842 533 553 1 1 3 842 523 553 1 1 3 842 533 715 1 3 842 533 715 1 3 842 533 715 1 3 842 533 715 1 3 842 533 715 1 3 842 533 555 80 x80 Gusset kit with fasteners (includes cover cap) designLINE 1 3 842 523 555 80 x80 Gusset kit with fasteners (includes cover cap) designLINE 1 3 842 533 715 1 3 842 533$	$8 \rightarrow 8$ 60x60 gusset kit with fasteners (includes cover cap) designLINE	1	3 842 538 713
$\frac{(8-10)}{60x60 \text{ gusset with fasteners (includes cover cap) designLINE}} 1 3 842 538 714 1 3 842 538 714 1 3 842 538 714 1 3 842 538 714 1 3 842 533 553 1 1 3 842 523 553 1 1 3 842 533 715 1 3 842 533 715 1 3 842 533 715 1 3 842 533 715 1 3 842 533 715 1 3 842 533 555 80 x80 Gusset kit with fasteners (includes cover cap) designLINE 1 3 842 523 555 80 x80 Gusset kit with fasteners (includes cover cap) designLINE 1 3 842 533 715 1 3 842 533$	$60x60$ gusset with fasteners for $8 \rightarrow 10$	1	3 842 523 551
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		1	3 842 538 714
$\frac{10-10}{60x60 \text{ gusset kit with fasteners (includes cover cap) designLINE}} 1 3842 538 715$ $\frac{10}{10} 1 3842 523 555$ 80x80 Gusset $\frac{10}{10} 10 10 10 10 10 10 10 10 10 10 10 10 10 $	$\begin{bmatrix} 10 \rightarrow 10 \\ 60x60 \text{ gusset with fasteners for } \begin{bmatrix} 10 \rightarrow 10 \\ \hline \end{bmatrix}$	1	3 842 523 553
80x80 Gusset 10 1^{10}		1	3 842 538 715
$\frac{10}{10}$	60x60 round cover cap	1	3 842 523 555
80x80 gusset only 1 3 842 530 231 80x80 gusset kit with fasteners (includes cover cap) designLINE 1 3 842 538 718 10- 80x80 gusset with fasteners 1 3 842 530 360	10- 10- 10- 10- 10- 10- 10- 10-		80
80x80 gusset kit with fasteners (includes cover cap) designLINE 1 3 842 538 718 10- 1 3 842 530 360 10- 1 3 842 530 360	Description	Lot Size	Part Number
1 3 842 530 360	80x80 gusset only	1	3 842 530 231
80x80 gusset with fasteners I 3 842 530 360 10- Image: Comparison of the second s	80x80 gusset kit with fasteners (includes cover cap) designLINE	1	3 842 538 718
		1	3 842 530 360
		1	3 842 530 232

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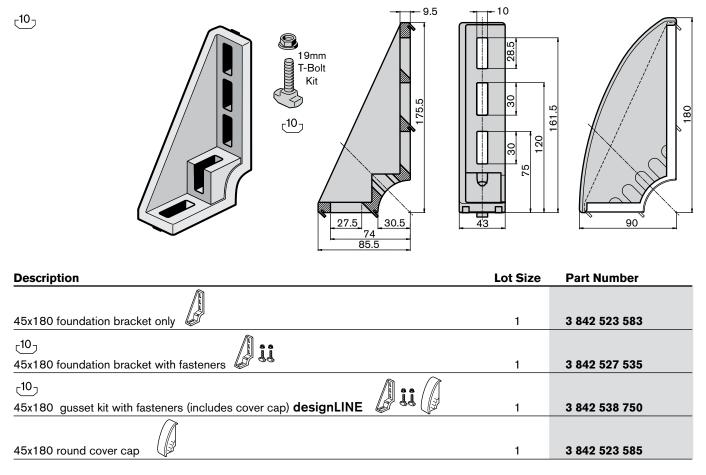


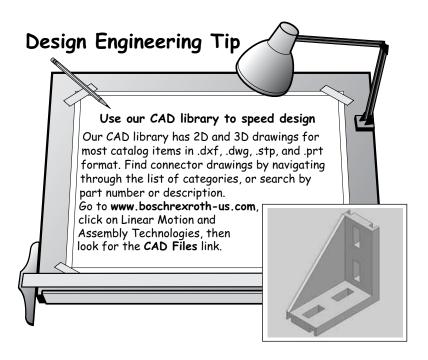
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Die-Cast Foundation Brackets



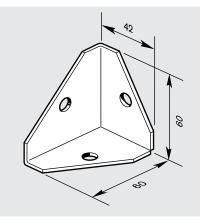
45x180 Foundation Bracket





Other 90° Right-Angle Connectors

Sheet Metal Gusset-42x60

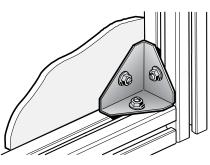


Features:

- Used with 45-series profile to create a right-angle connection
- Hole in side can be used for attaching panels, tabletops, etc.

Material:

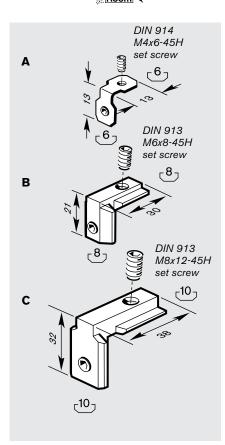
· Zinc-plated sheet steel



Description	Lot Size	Part Number
42x60 sheet metal gusset	1	3 842 146 813

6mm, 8mm, & 10mm Inside-to-Outside Gussets

6, 6, 10, **Clean**

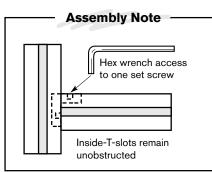


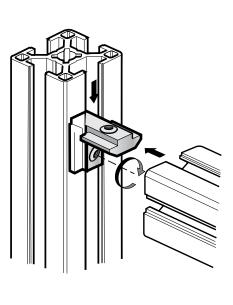
Features:

- Clean appearance
- Easy set screw installation
- Does not obstruct T-slot
- Includes set screws

Material:

Die-cast brass

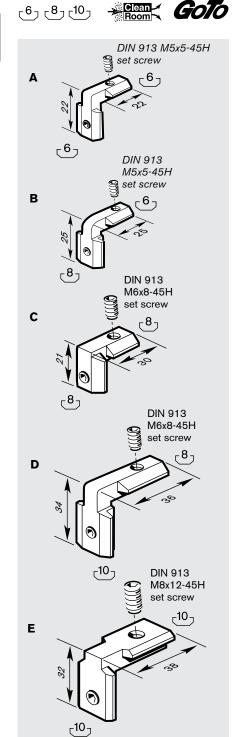




De	scription	Lot Size*	Part Number
Α	6mm inside-to-outside gusset and set screws $\begin{bmatrix} 6 \rightarrow 6 \end{bmatrix}$	10	3 842 535 574
В	8mm inside-to-outside gusset and set screws⊨_8→8_	10	3 842 535 578
С	10mm inside-to-outside gusset and set screws $[10 \rightarrow 10_{7}]$	10	3 842 535 572

* For smaller quantities, please contact your local distributor.

6mm, 8mm, & 10mm Inside-to-Inside Gussets

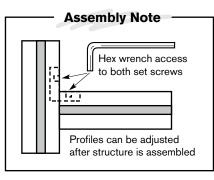


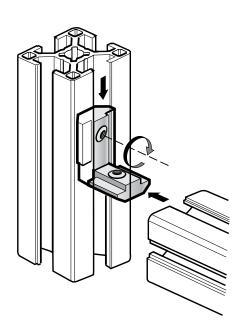
Features:

- Clean appearance
- Easy set screw installation
- Includes set screws

Material:

• Die-cast brass



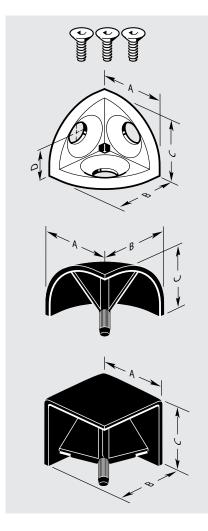


			Part Number
Α	6mm inside-to-inside gusset and set screws 〔 ^{6→6} 〕	10	3 842 535 575
В	6mm to 8mm inside-to-inside gusset and set screws $[6 \rightarrow 8]$	10	3 842 535 573
С	8mm inside-to-inside gusset and set screws ⊨ [8→8]	10	3 842 535 577
D	8mm to 10mm inside-to-inside gusset and set screws $[8 \rightarrow 10]$	10	3 842 535 576
E	10mm inside-to-inside gusset and set screws $[(10 \rightarrow 10)]$	10	3 842 535 571 GoTo

* For smaller quantities, please contact your local distributor.

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Other 90° Right-Angle Connectors



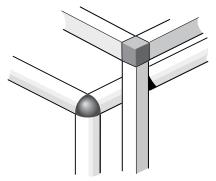
Bracket/	Dimension in mm				Screw
Cap Size	Α	В	С	D	Size
20mm	20	20	20	10	S6x16
30mm	30	30	30	15	S8x25
40mm	40	40	40	20	S12x30
45mm	45	45	45	22.5	S12x30
50mm	50	50	50	25	S12x30

Features:

- One bracket connects two or three profiles
- Compatible with square or radius profiles
- Provides neat, finished appearance

Material:

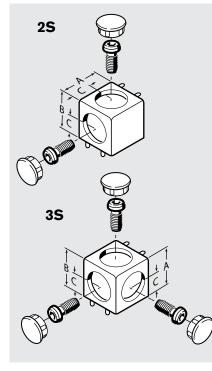
- Bracket: die-cast zinc
- Cover caps: black polyamide 6
- Screws: zinc-plated steel



3

Description	Lot Size	Part Number
20mm corner bracket with fasteners) tt 1	3 842 519 318
20mm radius cover cap	1	3 842 517 146
20mm square cover cap	1	3 842 517 147
30mm corner bracket with fasteners) 777 1	3 842 519 319
30mm radius cover cap	1	3 842 517 281
30mm square cover cap	1	3 842 517 282
40mm corner bracket with fasteners) ff 1	3 842 529 404
40mm radius cover cap	1	3 842 529 016
40mm square cover cap	1	3 842 529 018
45mm corner bracket with fasteners) P P P 1	3 842 519 321
45mm radius cover cap	1	3 842 517 290
45mm square cover cap	1	3 842 517 291
Replacement screw for 20mm bracket) ??? 1	3 842 517 132
Replacement screw for 30mm bracket: S8x25 flat-head screw	1	3 842 517 543
Replacement screw for 40mm, 45mm, or bracket: S12x30 flat-head screw	50mm 1	3 842 517 613

Corner Cube Kits 6 8 10



Dimension Cube in mm Screw Size Α в С Size 20mm 20 10 20 S6x16 30mm 30 15 S8x25 30 40 40mm 40 20 S12x30 45mm 45 45 22.5 S12x30 50mm 50 50 25 S12x30

Features:

- Use 2S version to connect two profiles, or 3S version to connect three profiles
- Includes self-tapping screws and cover caps to provide neat, finished appearance

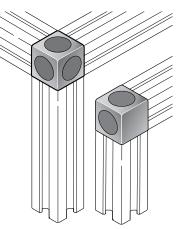
Material:

- Corner cube: die-cast aluminum
- Cover caps: black polyamide
- Screws: steel

Description	Lot Size	Part Number
20mm corner cube kit 2S	() ?? 1	3 842 524 484
20mm corner cube kit 3S	S ? ? ? 1	3 842 524 478
30mm corner cube kit 2S	r 1	3 842 524 485
30mm corner cube kit 3S	S 1 1	3 842 524 479
40mm corner cube kit 2S	P P P 1	3 842 529 395
40mm corner cube kit 3S	S ? ? ? 1	3 842 529 397
45mm corner cube kit 2S	P P P 1	3 842 524 486
45mm corner cube kit 3S	S ??? 1	3 842 524 480
50mm corner cube kit 2S	P P P 1	3 842 529 399
50mm corner cube kit 3S	Ö ??? 1	3 842 529 401

designLINE

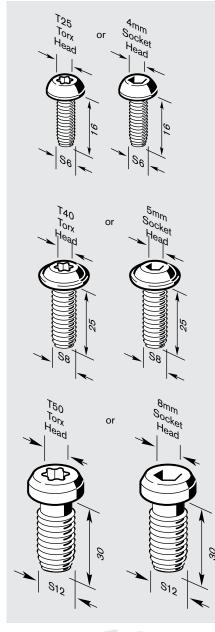
Description	Lot Size	Part Number
20mm corner cube kit 2S designLINE	() ? ? 1	3 842 538 725
20mm corner cube kit 3S designLINE	O ? ? ? 1	3 842 538 726
30mm corner cube kit 2S designLINE	PPP 1	3 842 538 727
30mm corner cube kit 3S designLINE	O ? ? ? 1	3 842 538 728
40mm corner cube kit 2S designLINE	PPP1	3 842 538 729
40mm corner cube kit 3S designLINE	S ? ? ? 1	3 842 538 730
45mm corner cube kit 2S designLINE	PPP1	3 842 538 731
45mm corner cube kit 3S designLINE	S???1	3 842 538 732
50mm corner cube kit 2S designLINE	PPP1	3 842 538 733
50mm corner cube kit 3S designLINE	S F F F F F F F F F F	3 842 538 734



Other 90° Right-Angle Connectors

Self-Tapping Connection Screws 6 8 10 2





Assembly Note

Never tap the center bore of profiles when using self-tapping screws.

When using S8 and S12 self-tapping screws, use anti-rotation T-blocks to ensure profile alignment.



Features:

- Provides strong connection with high resistance to vibration
- Available as Torx head or standard hex socket head
- Self-threading for quick, easy installation
- Does not obstruct T-slot

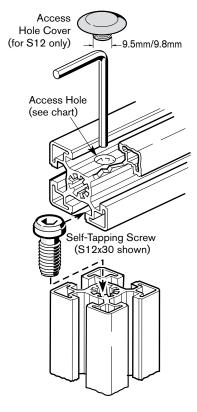
Machining Required:

· Access hole (see chart for size)

- Screw: zinc-plated industrial grade 8.8
 steel
- Cover cap: black polyamide 6

Screw Size	Access Hole	Access Hole Cover (in mm)
S6x16	Ø5.8mm	N/A
S8x25	Ø7.8mm	N/A
S12x30	Ø9.8mm	9.5 / 9.8

· · · · · · · · · · · · · · · · · · ·		
Description	Lot Size	Part Number
S6x16 self-tapping connection screw, 4mm socket head 6] 1	3 842 523 968 GOTO
S6x16 self-tapping connection screw, T25 Torx head 6	3 1	3 842 528 593 GOTO
5.8mm access hole cover designLINE	100	3 842 538 565
S8x25 self-tapping connection screw, 5mm socket head ⁸] 1	3 842 523 970 GOTO
S8x25 self-tapping connection screw, T40 Torx head 8	3 1	3 842 527 174 GoTo
8mm swivel-in anti-rotation T-block (optional), (see next page for details)	1	3 842 530 325
S12x30 self-tapping connection screw, 8mm socket head 10	1	8 981 021 302 GoTo
7.8mm access hole cover designLINE	100	3 842 538 566
S12x30 self-tapping connection screw, T50 Torx head 10	3 1	3 842 530 236
9.5/9.8mm access hole cover	1	8 981 005 306
10mm swivel-in anti-rotation T-block (optional (see next page for details)) 1	3 842 530 326
9.8mm access hole cover designLINE	100	3 842 538 567



M12 Connection Screws 🕛 🎽 🖸 🚺

8_{mm}

Socket

Head

Section 3: Profile Connectors

T50

Torx

Head

or

Features:

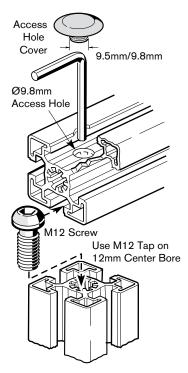
- Provides strong connection with high resistance to vibration
- · Available as Torx head or standard hex socket head
- Does not obstruct T-slot

Machining Required:

- 9.8mm access hole
- Center bore of profile tapped M12

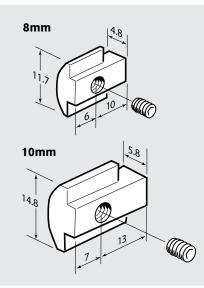
Material:

- Screw: zinc-plated industrial grade 8.8 steel
- · Cover cap: black polyamide 6



Description	Lot Size	Part Number
M12x30 connection screw, 8mm socket head ¹⁰	, 1	8 981 021 301 GoTo
M12x30 connection screw, T50 Torx head ¹⁰ 7	1	3 842 530 235
9.5/9.8mm access hole cover	1	8 981 005 306
10mm swivel-in anti-rotation T-block (optiona (see below for details)	l) 1	3 842 530 326
9.8mm access hole cover designLINE	100	3 842 538 567

Anti-Rotation T-Block ⁽⁸⁾ ⁽¹⁰⁾

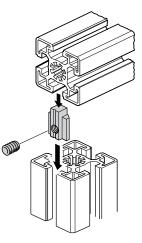


Features:

- · Swivel-in installation
- · Prevents rotation at connection point
- · Large surface area contact with profile's T-slot ensures solid grip
- · Ideal for use with connection screws

Material:

• Screw: zinc-plated industrial grade 8.8 steel

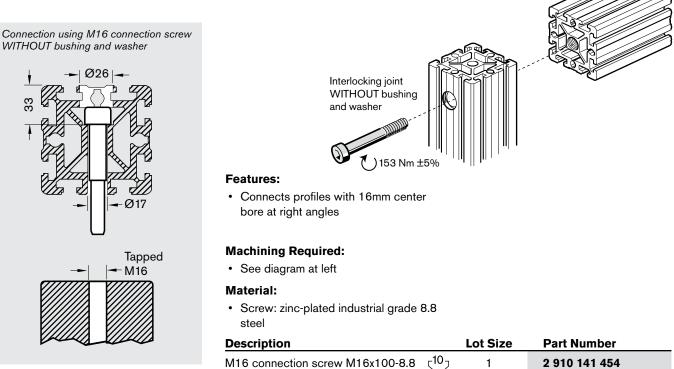


Description	Lot Size	Part Number
8mm swivel-in anti-rotation T-block \bigcirc	1	3 842 530 325
10mm swivel-in anti-rotation T-block ¹⁰ 7	1	3 842 530 326

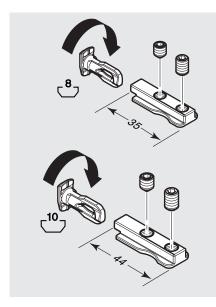
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Other 90° Right-Angle Connectors

M16 Connection Screw



Tension Connector (8) (10)

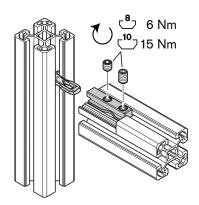


Features:

- Provides fast assembly without profile machining
- T-head is easily positioned in the Tslot, even on existing structures
- Clean appearance with easy setscrew installation

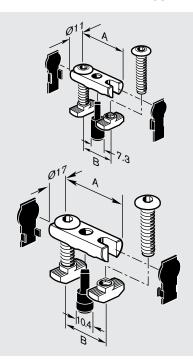
Material:

Die-cast Steel



Description	Lot Size	Part Number
SV8 Tension Connector, 30 series profiles ⁸	10	3 842 538 489
SV10L Tension Connector, 45 series profiles _10_	10	3 842 538 491
SV10 Tension Connector, 40H, 45H, 60H, series profiles	¹⁰ 10	3 842 538 490

Bolt Connector Kits - Type 1 ⁸ ¹⁰ **GoTo**



Bolt Connector	Dimension in mm			
Size	Α	В	ØC	D
30mm	30	18	11	18
40mm	40	23	17	22.5
45mm	45	28	17	22.5
50mm	50	33	17	22.5
60mm	60	43	17	22.5
80mm	80	63	17	22.5
90mm	90	73	17	22.5
100mm	100	83	17	22.5

Features:

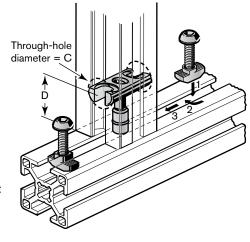
- Provides strongest right-angle connection
- Centering pin eases alignment and assembly
- Includes two cover caps to create neat, finished appearance
- Obscures profile T-slot: panels or panes must be trimmed

Machining Required:

Through hole in one profile: see chart

Material:

- Bolt connector: zinc-plated 8.8 steel
- Cover caps and alignment pin: black polyamide 6

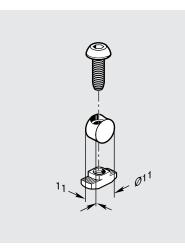


Description	Lot Size*	Part Number
30mm bolt connector kit for 30	10	3 842 535 624
30mm bolt connector kit for $[8 \rightarrow 10]$	10	3 842 535 583
40mm bolt connector kit $10 \rightarrow 10_{7}$	10	3 842 535 620
45mm bolt connector kit _10→10_	10	3 842 500 921 <i>GoTo</i>
50mm bolt connector kit _10→10_	10	3 842 535 621
60mm bolt connector kit $10 \rightarrow 10_{7}$	10	3 842 500 922
80mm bolt connector kit $10 \rightarrow 10_{7}$	10	3 842 535 622
90mm bolt connector kit $10 \rightarrow 10_{7}$	10	3 842 500 923 GoTo
100mm bolt connector kit $10 \rightarrow 10$	10	3 842 535 618

* For smaller quantities, please contact your local distributor.

Other 90° Right-Angle Connectors

11x30mm Bolt Connector Kits (8) (10)

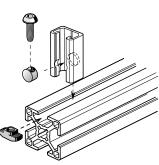


Features:

- Provides strong right-angle connection
- Versions available for attaching 11x30 profile to profiles with 8mm or 10mm T-slots

Material:

 Bolt connector, screw, and T-nut: zincplated steel



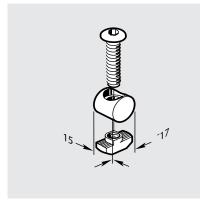
Machining Required:

• 11mm hole through 11x30 profile

Description	Lot Size*	Part Number
11x30mm bolt connector kit ⊥_ 8→10 _	10	3 842 535 617

* For smaller quantities, please contact your local distributor.

15x22.5mm Bolt Connector Kit



Features:

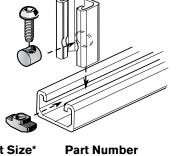
• Provides strong right-angle connection for 15x22.5 profile

Material:

 Bolt connector, screw, and T-nut: zincplated steel

Machining Required:

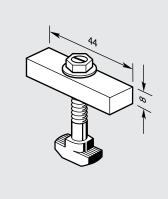
• 17mm through-hole (see drawing)



Description	Lot Size*	Part Number
15x22.5mm bolt connector kit	10	3 842 535 619

* For smaller quantities, please contact your local distributor.

Cross Connector Kit



Features:

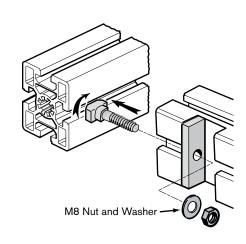
- Provides strong, torque-resistant connection to support heavy loads
- Commonly used in conveyor leg sets and machine frames
- Works with 45- and 90-series profiles, as well as 60x90H

Material:

Zinc-plated steel

Machining Required:

· 30mm wide milled slot



Description	Lot Size	Part Number
Cross connector kit	1	3 842 146 972

А

В

С

NEW

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Quick Connector Cap

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ر6₇

3

Quick Connectors/Rigid 6 10 **GOTO**

a00

10 ල

<u>18</u> 🕙

22.5 c10

20

Vertical access

18 8 22.5 ¹⁰

access

40 / 50

Ø9.8/Ø Ø17

40/50

Features:

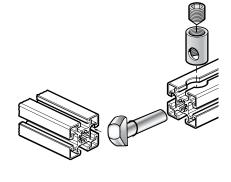
- Quickly and easily connect 6mm, 8mm and 10mm profiles at right angles
- Fast assembly and disassembly: ideal for temporary structures such as trade show displays and fixtures
- Keeps three T-slots open for mounting panels or accessories
- Choose either perpendicular or parallel options

Material:

- A Stainless steel
- B & C Zinc-plated 8.8 steel

Machining Required:

- 9.8mm barrel: 9.8mm through-hole
- 11mm barrel: 11mm through-hole
- 17mm barrel: 17mm through-hole



De	scription	Lot Size*	Part Number
A	Quick connector/rigid for $[6 \rightarrow 6]$ Vertical access. Includes 6mm T-bolt, 8	10 3mm barrel.	3 842 537 013
В	Quick connector/rigid forı ᠸ 8→8 ⊃. Vertical access. Includes 8mm T-bolt, 1	10 1mm barrel.	3 842 535 459
В	Quick connector/rigid forı ^{8→10} Vertical access. Includes 10mm T-bolt,	10 11mm barrel.	3 842 535 464
В	Quick connector/rigid for $10 \rightarrow 10$ Vertical access. Includes 10mm T-bolt,	10 17mm barrel.	3 842 535 458 GoTo
В	Quick connector/rigid for _{I C} 10→10- Vertical access. Includes 10mm T-bolt,	10 9.8mm barrel.	3 842 541 412
С	Quick connector/rigid forı _[8→8 _] Horizontal access. Includes 8mm T-bolt,	10 11mm barrel.	3 842 535 465
С	Quick connector/rigid for $10 \rightarrow 10_7$ Horizontal access. Includes 10mm T-bol	10 t, 17mm barrel.	3 842 535 466
С	Quick connector/rigid for $_{10} \rightarrow 10_{7}$ Horizontal access. Includes 10mm T-bol	10 t, 9.8mm barrel.	3 842 541 410

Material:

• PA, light gray RAL 7035

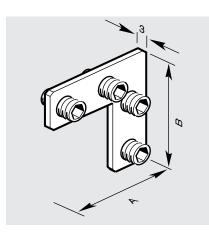
Description	Lot Size*	Part Number
Cap for quick connector, 8mm designLINE	10	3 842 538 562
Cap for quick connector, 11mm designLINE	10	3 842 538 563
Cap for quick connector, 17mm designLINE	10	3 842 538 564

* For smaller quantities, please contact your local distributor.

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Other 90° Right-Angle Connectors

6mm, 8mm, & 10mm Mitered Corner Connectors (6) (8) (10)



Features:

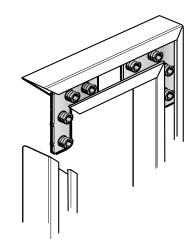
- Used to connect profiles whose ends have been cut at a 45° angle
- Applications include doors and window frames
- Includes set screws

Material:

· Zinc-plated steel

Machining Required:

• 45° miter on profile corners



Mitered Corner	Dimension in mm			
Connector Size	Α	В	Set Screw	
6mm	46	46	M4x5	
8mm	46	46	M8x8	
10mm	60	60	M10x10	

Description	Lot Size*	Part Number
omm mitered corner connector	4	3 842 535 626
Imm mitered corner connector	4	3 842 535 627
0mm mitered corner connector	4	3 842 535 625
0mm mitered corner connector	4	3 842 535 625

* For smaller quantities, please contact your local distributor.

M8x30

M5x16

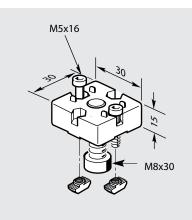
U10Nm

Ú25Nm

Section 3: Profile Connectors

T-Connector Kits ⁸ ¹⁰

30x30 T-Connector Kit (8)



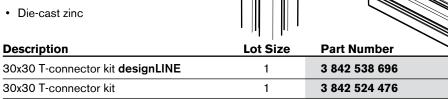
Features:

- · Includes all fastening hardware
- Can be used ONLY with 30x30 profiles

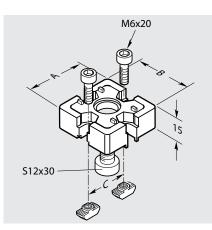
Machining Required:

• M8 tap in end of one profile

Material:



40x40, 45x45, & 50x50 T-Connector Kits [10]



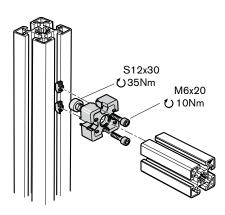
T-Connector	Dimension in mm		
Size	A	В	С
40mm	40	40	29.6
45mm	45	45	34
50mm	50	50	39

Features:

- Includes all fastening hardware
- Includes self-tapping screw; no machining required

Material:

Die-cast zinc

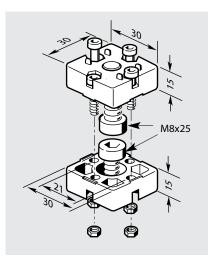


Description	Lot Size	Part Number
40x40 T-connector kit designLINE	1	3 842 538 697
45x45 T-connector kit designLINE	1	3 842 538 698
50x50 T-connector kit designLINE	1	3 842 538 699
40x40 T-connector kit	1	3 842 532 195
45x45 T-connector kit	1	3 842 520 802
50x50 T-connector kit	1	3 842 532 198

180° Straight-Line Connectors

End Connector Kits (8) (10)

30x30 End Connector Kit 8



Features:

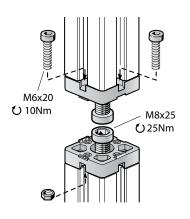
- Ideal for extending profiles beyond standard available length
- · Includes all fastening hardware
- Can be used ONLY with 30x30 profiles

Machining Required:

• M8 tap in end of both profiles

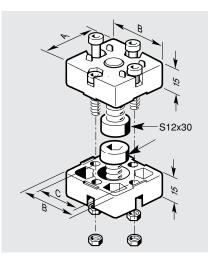
Material:

• Die-cast zinc



Description	Lot Size	Part Number
30x30 end connector kit designLINE	1	3 842 538 656
30x30 end connector kit	1	3 842 526 003

40x40, 45x45, & 50x50 End Connector Kits $\ \ensuremath{{\mbox{c}}^{10}}\ \ensuremath{{\mbox{c}}}\ \ensuremath{\mbox{c}}\ \ensuremath{{\mbox{c}}}\ \ensuremath{{\mbox{c}}}$



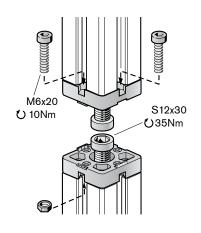
End Connector Size		nensio n mm B	
40mm	40	40	29.6
45mm	45	45	34
50mm	50	50	39

Features:

- Ideal for extending profiles beyond standard available length
- Includes all fastening hardware
- Includes self-tapping screws; no machining required

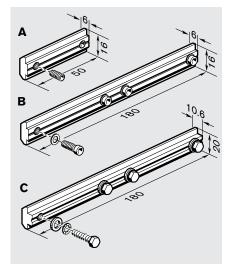
Material:

• Die-cast zinc



Description	Lot Size	Part Number
40x40 end connector kit designLINE	1	3 842 538 657
45x45 end connector kit designLINE	1	3 842 538 658
50x50 end connector kit designLINE	1	3 842 538 659
40x40 end connector kit	1	3 842 532 196
45x45 end connector kit	1	3 842 191 175
50x50 end connector kit	1	3 842 532 199

8mm & 10mm Connection Link Kits 3 10 Goto



Features:

- · Provide a heavy-duty connection extending profiles beyond standard available length
- Ideal for use in perimeter guarding and conveyor rails
- · Includes all fastening hardware; no machining required

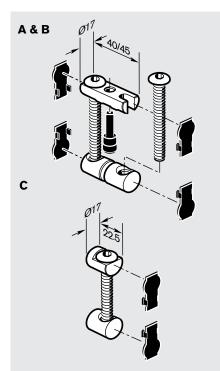
Material:

· Zinc-plated steel



De	scription	Lot Size	Part Number
Α	8mm connection link kit, 50mm long	1	3 842 518 427
В	8mm connection link kit, 180mm long	1	3 842 521 216
С	10mm connection link kit, 180mm long	1	3 842 528 746 GoTO

End-to-End Bolt Connector Kits 10



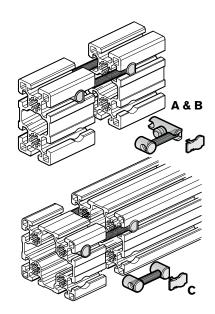
Features:

- · Provide a strong end-to-end for any 10mm T-slotted profile
- · Cover caps conceal through-hole and connector, and provide neat, finished appearance
- · For precise positioning when drilling through-holes, use drilling/boring jig 3 842 218 960.

Machining Required:

• 17mm through-hole

- Barrels and screws: zinc-plated steel, 8.8
- · Cover caps: black polyamide 6



Description		Lot Size	Part Number
Α	End-to-end bolt connector kit, 40mm	1	3 842 529 293
В	End-to-end bolt connector kit, 45mm	1	3 842 529 248
С	Universal end-to-end bolt connector kit	1	3 842 529 334

45° Angle Connectors

45° Angle Connector Kit – 30mm $(^{8})$ $(^{10})$

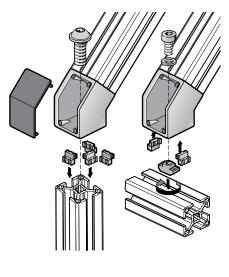
M6x12 Screw & 8mm T-Nut Self-tapping Screws M8x16 Screw & 10mm T-Nut

Features:

- Connects 30x30 profiles end-to-end at a 45° angle
- Make a 45° end-to-side connection between a 30x30 profile and any profile with 8mm or 10mm T-slots
- Includes all hardware, adapters, and cover cap for a neat, finished appearance

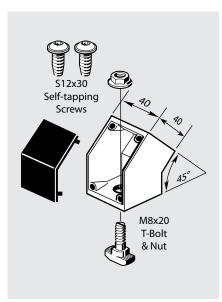
Material:

- Connector: die-cast zinc
- Adapters and cover cap: black polyamide 6



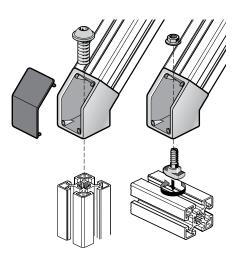
Description	Lot Size	Part Number
45° angle connector kit – 30mm designLINE	1	3 842 538 700
45° angle connector kit – 30mm	1	3 842 518 426

45° Angle Connector Kit – 40mm 10^{-10}



- Features:
- Connects 40x40 profiles end-to-end at a 45° angle
- Make a 45° end-to-side connection between a 40x40 profile and any profile with 10mm T-slots
- Includes all hardware, adapters, and cover cap for a neat, finished appearance

- · Connector: die-cast aluminum
- Adapters and cover cap: black polyamide 6



Description	Lot Size	Part Number
45° angle connector kit – 40mm designLINE	1	3 842 538 701
45° angle connector kit – 40mm	1	3 842 532 205

S12x30 Self-tapping

Screws



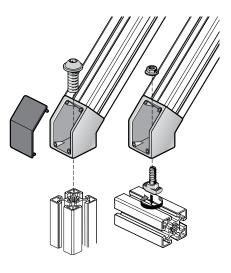
45° Angle Connector Kit – 45mm

M8x20 T-Bolt & Nut

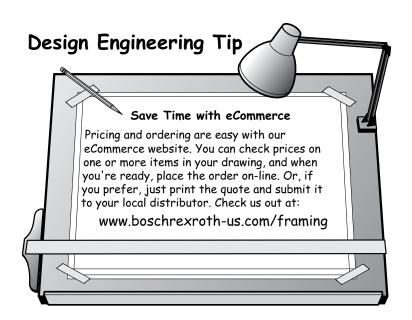
Features:

- Connects 45x45 profiles end-to-end at a 45° angle
- Make a 45° end-to-side connection between a 45x45 profile and any profile with 10mm T-slots
- Includes fasteners for several connection options
- Includes cover caps for a neat, finished appearance

- · Connector: die-cast aluminum
- · Cover cap: black polyamide 6

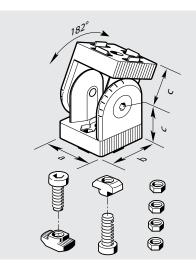


Description	Lot Size	Part Number
45° angle connector kit – 45mm designLINE	1	3 842 538 702
45° angle connector kit – 45mm	1	3 842 535 428



Multi-Angle Connector Kits

30x30 Multi-Angle Connector Kit 🐣



Multi-Angle	Dimension in mm			() max.	
Connector	а	b	С	in Nm with pin	
30x30	30	30	25	15	
40x40	40	40	34	15*	

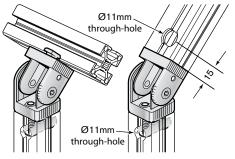
* Max. torque with handle is 5Nm

Features:

- Includes hardware to connect two profiles with 8mm T-slots side-by-side or use 10mm M6 T-nuts to connect (part number 3 842 530 285) profiles with 10mm T-slots
- Connect the end of a 30x30 profile (including 30x30 2S and 3S) to the side of a profile with 8mm or 10mm T-slots (requires one 30mm bolt connector kit, sold separately)
- Connect two 30x30 profiles end-to-end (requires two 30mm bolt connector kits, sold separately)

Material:

· Joint components: die-cast zinc



Machining Required:

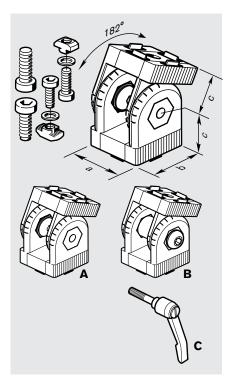
 11mm through-hole, 15mm from end of profile for each end-to-end connection

Description	Lot Size*	Part Number
30x30 multi-angle connector kit designLINE	1	3 842 538 683
30x30 multi-angle connector kit	1	3 842 502 683
30mm bolt connector kit**	10	3 842 535 624

**One kit required for each end connection

* For smaller quantities, please contact your local distributor.

40x40 Multi-Angle Connector Kit 地



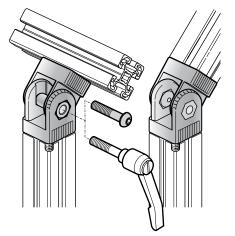
Features:

- Connect two profiles with 10mm T-slots side-by-side
- Connect the end of any 40x40 profile to the side of a profile with 10mm T-slots
- Connect any two 40x40 profiles end-to-end
- Available as standard or lockable version (locking handle sold separately below)
- Includes all fasteners, no machining required

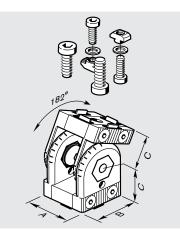
Material:

• Joint components: die-cast zinc, nickel-plated

піскеі-ріатео		
Description	Lot Size	Part Number
A 40x40 multi-angle connector kit designLINE	1	3 842 538 684
A 40x40 multi-angle connector kit	1	3 842 532 235
B 40x40 multi-angle conn. kit, lockable designL	INE* 1	3 842 538 685
B 40x40 multi-angle conn. kit, lockable*	1	3 842 532 364
C Locking handle, 40mm	1	3 842 516 847
*Requires locking handle, sold separately		

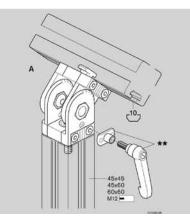


45mm and 60mm Multi-Angle Connector Kit 10



Multi-Angle	Dime	nsion	かmax. in Nm		
Connector	Α	В	С	with pin	
45x45	45	45	38	15*	
45x60	60	45	38	15*	
60x45	45	60	45.5	15*	
60x60	60	60	45.5	15*	

* Max. torque with handle is 5Nm

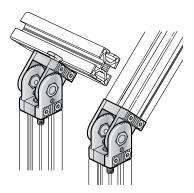


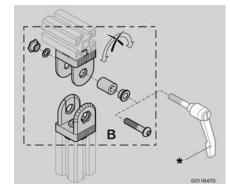
Features:

- Create a side-to-side, end-to-side, or end-to-end connection
- Allows angle to be adjusted without loosening any screws or T-nuts, or can be pinned in place for a fixed connection
- Maximum torque loading
- Includes all fasteners, no machining required

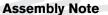
Material:

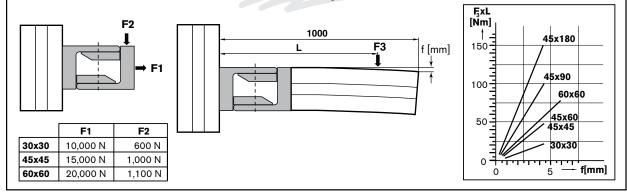
• Joint components: die-cast zinc, nickel-plated





Description	Lot Size	Part Number
45x45 multi-angle connector kit designLINE	1	3 842 538 686
45x45 multi-angle conn. kit, lockable designLl	NE 1	3 842 538 687
Locking Handle 45mm*, sold separately	1	3 842 538 607
60x45 multi-angle connector kit designLINE	1	3 842 539 799
60x60 multi-angle connector kit designLINE	1	3 842 539 800
45x45 multi-angle connector kit	1	3 842 502 684
45x60 multi-angle connector kit	1	3 842 502 685
60x45 multi-angle connector kit	1	3 842 502 688
60x60 multi-angle connector kit	1	3 842 502 687
Locking Handle kit**, sold separately	1	3 842 505 144





Multi-Angle Connectors

Variable Angle Bolt Connectors (3) (10)

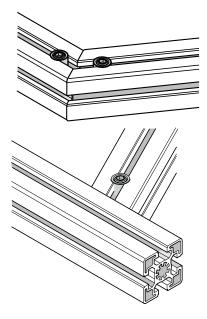
Features:

- Provide a simple and easy way to connect profiles at various angles
- Allow one-time bend to desired angle, with correction bend of up to 10°
- Keep three T-slots open for panels or accessories
- Use drilling/boring jigs (listed below) for proper through-hole spacing

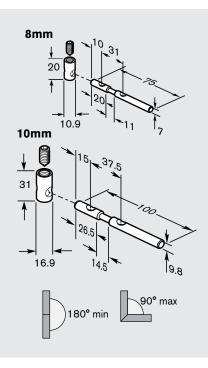
Material:

- Tie-rod: stainless steel
- Barrel: galvanized steel

	30x30	45x45	45x45H	
F _{max}	24 Nm	110 Nm	145 Nm	
F max	1100 N	1500 N	1500 N	
Fmax	35 Nm	120 Nm	140 Nm	
Fmax	650 N	1000 N	1100 N	
Fmax	40 Nm	95 Nm	180 Nm	



End-to-End Variable Angle Bolt Connectors

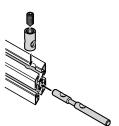


Features:

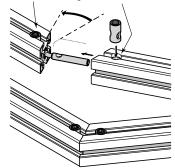
- Allowable angle up to 90°
- · Connects two profiles end-to-end

Machining required:

 11mm through-hole (8mm profiles) or 17mm through-hole (10mm profiles) in both profiles



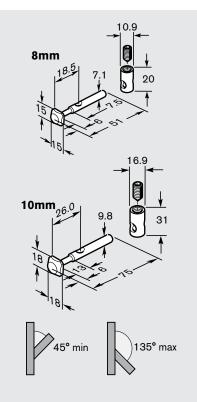
Ø11mm through-hole for $\bigcirc 0$ Ø17mm through-hole for $\bigcirc 10$



Description	Lot Size*	Part Number
8mm end-to-end variable angle bolt connector	10	3 842 535 630
10mm end-to-end variable angle bolt connector	· 10	3 842 535 634

* For smaller quantities, please contact your local distributor.

End-to-Side Variable Angle Bolt Connectors

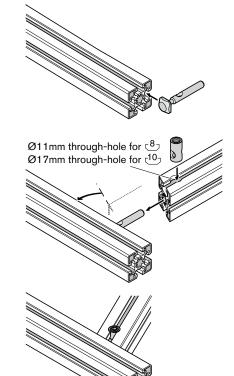


Features:

- Allows angles from 45° to 135°
- Connects the end of one profile to the side of another

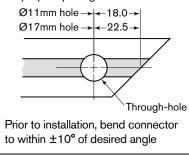
Machining required:

 11mm through-hole (8mm profiles) or 17mm through-hole (10mm profiles) in both profiles



Assembly Note

When making angled connections, locate through-holes in the profiles as specified below. Use the 8mm or 10mm drilling/boring jig (sold at right, or see the Tools section for details) for proper spacing.



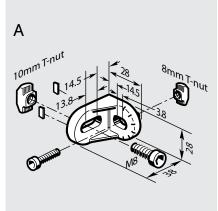
Description	Lot Size*	Part Number
8mm end-to-side variable angle bolt connecto	r 10	3 842 535 629
10mm end-to-side variable angle bolt connector	or 10	3 842 535 635

* For smaller quantities, please contact your local distributor.

Description	Lot Size	Part Number
8mm drilling/boring jig	1	3 842 516 729
10mm drilling/boring jig	1	3 842 516 731

Joining Plates

Adjustable Angle Gusset Kits ⁸ ¹⁰

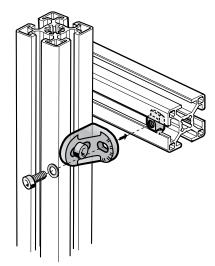


Features:

- Allows quick adjustment to any angle
- · Connects anywhere along profile T-slots
- Optional T-slot alignment pins simplify positioning and assembly
- · Available as gusset only or as a kit with mounting hardware

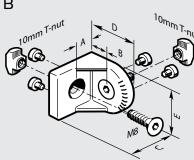
Material:

- · Gusset: die-cast zinc
- Mounting hardware: zinc-plated steel
- Alignment pins and adapters: black polyamide 6



3

De	scription	Lot Size	Part Number
Α	30mm adjustable angle gusset only	1	3 842 515 473
Α	30mm adjustable angle gusset kit for ⊢	1	3 842 538 703
Α	30mm adjustable angle gusset kit for $[8 \rightarrow 10]$	1	3 842 515 547
Α	30mm adjustable angle gusset kit for $10 \rightarrow 10$ designLINE	1	3 842 538 704
Α	30mm adjustable angle gusset kit for $10 \rightarrow 10_{-}$	1	3 842 521 580
В	40mm adjustable angle gusset only	1	3 842 529 020
В	40mm adjustable angle gusset kit for $10 \rightarrow 10$ J designLINE	1	3 842 538 705
В	40mm adjustable angle gusset kit for $10 \rightarrow 10_{7}$	1	3 842 532 274
В	45mm adjustable angle gusset only	1	3 842 504 760
В	45mm adjustable angle gusset kit for $[10 \rightarrow 10]$ designLINE	1	3 842 538 706
В	45mm adjustable angle gusset kit for _□ 10→10 _□	1	3 842 518 424



Adjustable Angle	Dimension in mm					
Gusset Size	Α	В	С	D	Е	
40mm	20	20	37.5	37.5	35	
45mm	22.5	22.5	42.5	43	40	

Features:

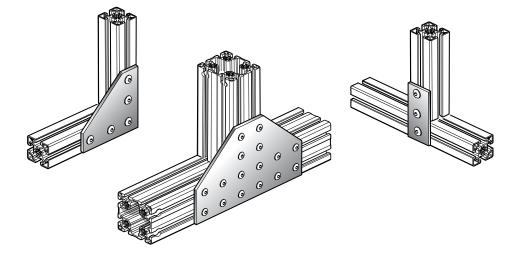
- Fasten to the outside faces of the profiles, leaving the inner T-slots free for panels or accessories.
- Can be added to reinforce a structure after initial assembly
- Three different styles available in a variety of sizes

Material:

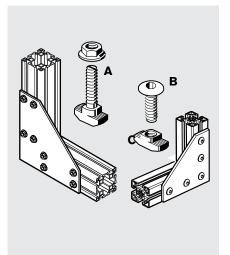
• 30-, 45-, and 90-series: clear anodized 6063-T6 aluminum

Recommended fasteners (order below):

- 30-series (8mm T-slots): M6x12 BHCS DIN 9427 and M6 8mm T-nut OR 8mm T-bolt fastening kit, L=23mm
- 45-, and 90-series (10mm T-slots): M8x16 BHCS DIN 9427 and M8 10mm T-nut OR 10mm T-bolt fastening kit, L=24mm



Fasteners for Joining Plates ⁸¹⁰



Features:

- Use 8mm fasteners for attaching joining plates to 30-series profiles
- Use 10mm fasteners for attaching joining plates to 45-, and 90-series profiles
- Use button-head cap screws and T-nuts to create a high-tech, smooth "riveted" look, or use T-bolt kits for a more rugged look

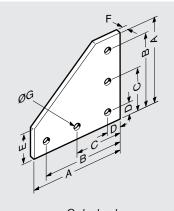
Material:

· Zinc-plated steel

Description	Lot Size	Part Number
A 8mm T-bolt fastening kit, L=23mm _[8]	1	8 981 019 579
B M6x12 BHCS, DIN 9427 8	1	3 842 507 071
C 8mm M6 T-nut <u>8</u>	1	3 842 501 753
A 10mm T-bolt fastening kit, L=24mm [10]	1	8 981 021 344
B M8x16 BHCS, DIN 9427⊢ 10 万	1	3 842 509 423
C 10mm M8 T-nut ¹⁰ ⊂	1	3 842 530 287

Joining Plates

Corner Joining Plates for 30- and 45-series profiles (8) (10)

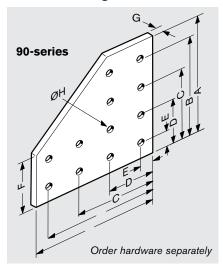


Corner Joining	Dimension in mm							
Plate	A	В	C	D	E	F	ØG	
30-series	84	72	42	12	24	5	6.2	
45-series	129	109.5	64.5	19.5	39	6.5	8.3	

Order hardware separately

Description	Lot Size	Part Number
30-series corner joining plate 3	1	8 981 019 457
45-series corner joining plate [10]	1	8 981 019 448

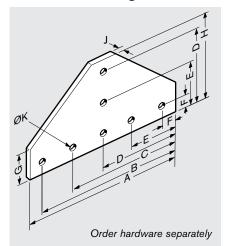
Corner Joining Plates for 90 series profiles 10



Corner	Dimension in mm								
Joining Plate	А	в	с	D	Е	F	G	ØН	
90-series	174	154.5	109.5	64.5	19.5	84	6.5	8.3	

Description	Lot Size	Part Number
90-series corner joining plate [10]	1	8 981 019 452

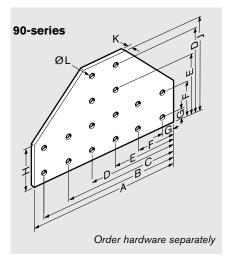
T-Junction Joining Plates for 30- and 45-series profiles (8) (10)



T-Junction Joining		Dimension in mm								
Plate	Α	В	С	D	E	F	G	Н	J	ØK
30-series	144	132	102	72	42	12	24	84	5	6.2
45-series	219	199.5	154.5	109.5	64.5	19.5	39	129	6.5	8.3

Description	Lot Size	Part Number
30-series T-junction joining plate 3	1	8 981 019 461
45-series T-junction joining plate	1	8 981 019 450

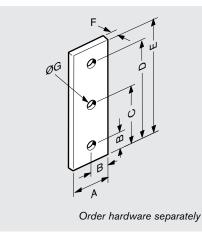
T-Junction Joining Plates for 90 series profiles (8) (10)



T-Junction		Dimension in mm										
Joining												
Plate	Α	В	С	D	E	F	G	G_1	Н	J	K	ØL
90-series	264	244.5	199.5	154.5	109.5	64.5	19.5	-	84	174	6.5	8.3

Description	Lot Size	Part Number
90-series T-junction joining plate [10]	1	8 981 019 455

Rectangular Joining Plates for 30- and 45-series profiles 3 10



Rectangular Joining	Dimension in mm						
Plate	Α	В	С	D	E	F	ØG
30-series	24	12	42	72	84	5	6.2
45-series	39	19.5	64.5	109.5	129	6.5	8.3

Description	Lot Size	Part Number
30-series rectangular joining plate $\begin{bmatrix} 8 \end{bmatrix}$	1	8 981 019 458
45-series rectangular joining plate [10]	1	8 981 019 449