

CORNERS



Photo: RSL, The Netherlands

The Prolyte truss series are complemented by a broad range of standard corners, box corners and book corners. Combining corners with straight or curved trusses makes it possible to construct an endless variety of configurations in terms of structure or grid.

Standard corners

The standard corner range provides 2 to 6-way corners at several angles, from 45 to 135 degrees.

In addition, Prolyte manufactures a series of specially designed corners, such as the pyramid corner or swivel corners. For more information on these or on special, custom-made corners, please contact Prolyte's Customer Services.

Box corners

The box corner system* is a revolutionary corner system invented by Prolyte.

A 6-way cube is combined with specially constructed tubes by means of an internal screw thread and hexagon socket bolts. One Prolyte box corner can be converted into a 2 to 6-way corner as desired simply by mounting the female or male receivers to the corner. The flexibility and fixed dimensions of the box corner makes it a cost-efficient investment.

Box corners are capable of taking 100% of the applied load in a vertical or horizontal direction. This makes the box corner a fully fledged construction element, unlike traditional types of corners.

* The box corner system is patented by Prolyte.

Book corners

The Prolyte book corner is designed to be a flexible-angle corner. Angles ranging from 0 to 180 degrees can be made with just one corner. The attachments are bolted to the corner, using male or female receivers. The required angle is set with the additional fixation set. The book corner is not designed as a load-bearing element and therefore cannot be part of a structural component. Support the book corner on both sides of the hinge.



STANDARD CORNERS

Photo: Riegler Messebau, Italy
Project: Introduction new Porsche



20 SERIES



30 SERIES



40 SERIES



S36V

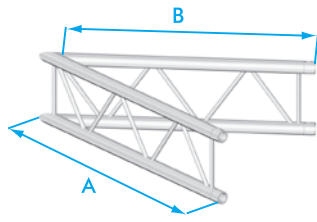


S52F

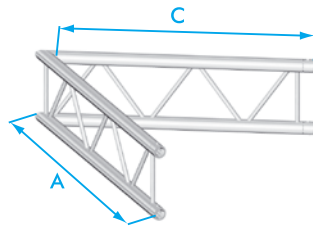


S100F

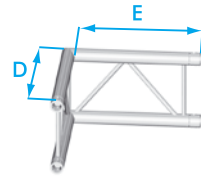
LADDER CORNERS E20 X/H30 H40



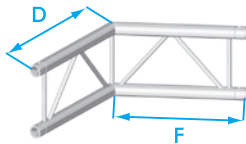
C001U - 45°



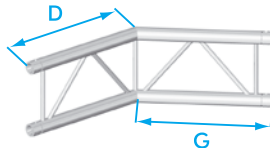
C002U - 60°



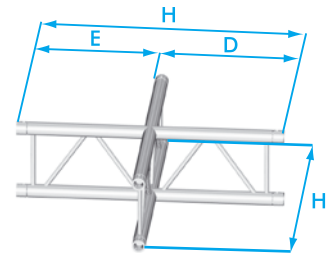
C003U - 90°



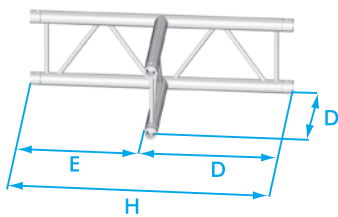
C004U - 120°



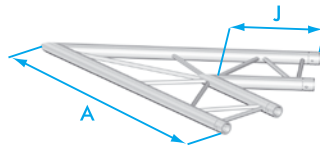
C005U - 135°



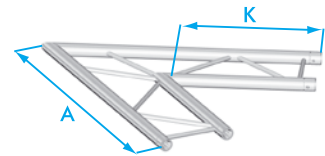
C016U



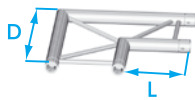
C017U



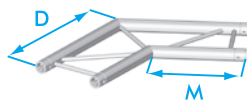
C001F - 45°



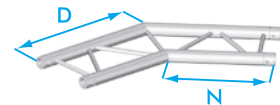
C0002F - 60°



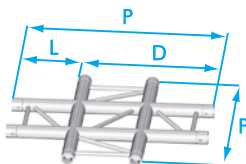
C003F - 90°



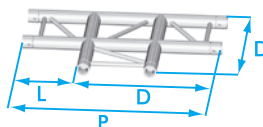
C004F - 120°



C005F - 135°



C016F



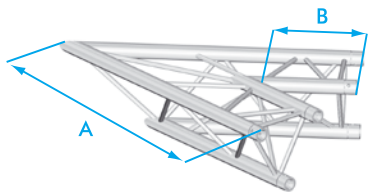
C017F

U = LADDER UP
F = LADDER FLAT

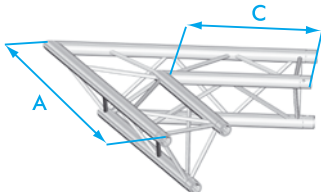
LADDER CORNERS

| measurements in mm | A | B | C | D | E | F | G | H | J | K | L | M | N | P |
|--------------------|------|------|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| E20L | 800 | 722 | 743 | 400 | 368 | 381 | 387 | 768 | 264 | 415 | 178 | 272 | 308 | 578 |
| X/H30L | 1000 | 877 | 913 | 500 | 449 | 471 | 479 | 949 | 300 | 498 | 210 | 333 | 380 | 710 |
| H40L | 1200 | 1078 | 1112 | 600 | 549 | 572 | 579 | 1149 | 258 | 525 | 210 | 376 | 439 | 810 |

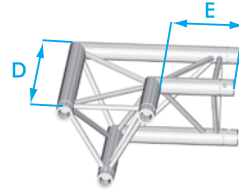
TRIANGULAR CORNERS E20 X/H30 H40



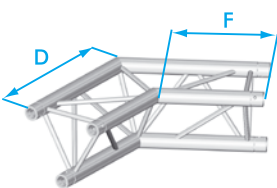
C001 - 45°



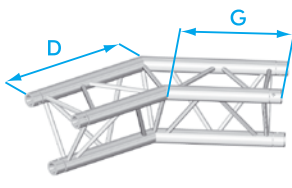
C002 - 60°



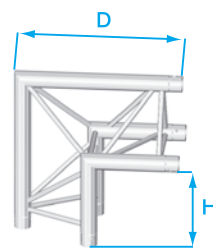
C003 - 90°



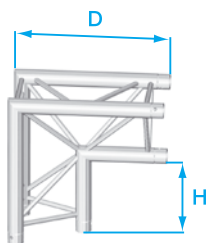
C004 - 120°



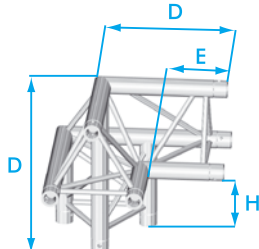
C005 - 135°



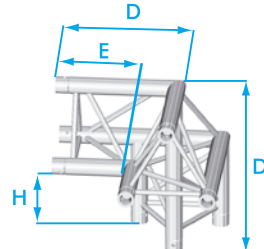
C006



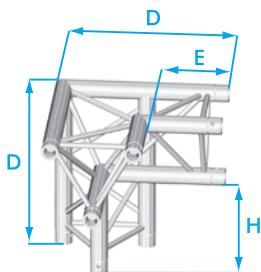
C007



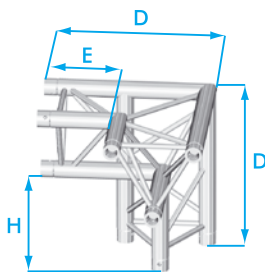
C010



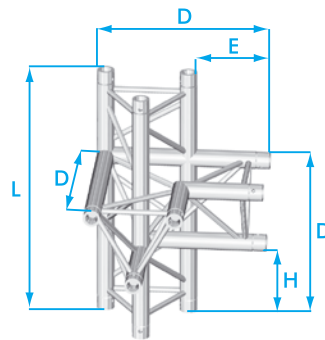
C011



C012



C013

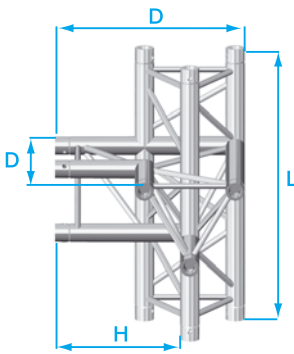


C014

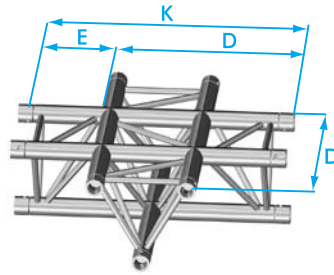
TRIANGULAR CORNERS

| measurements in mm | A | B | C | D | E | F | G | H | K | L |
|--------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| E20D | 800 | 264 | 415 | 400 | 178 | 272 | 308 | 203 | 578 | 603 |
| X/H30D | 1000 | 300 | 498 | 500 | 210 | 333 | 380 | 242 | 710 | 742 |
| H40D | 1200 | 258 | 525 | 600 | 210 | 376 | 439 | 255 | 810 | 855 |

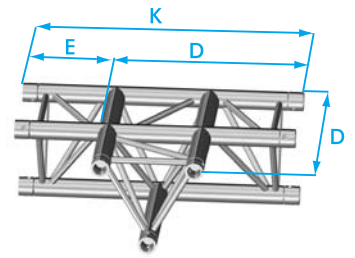
TRIANGULAR CORNERS E20 X/H30 H40



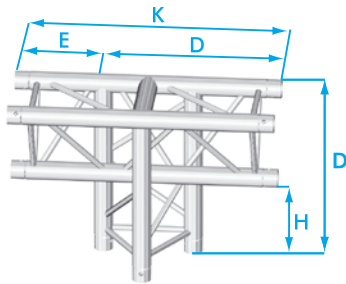
C015



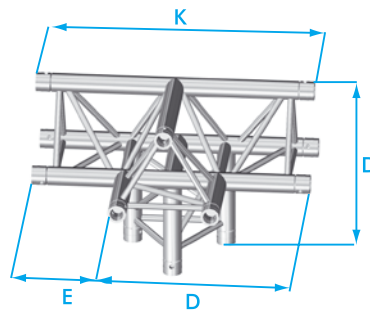
C016



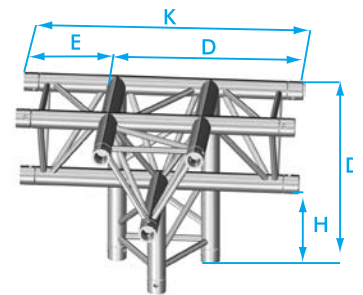
C017



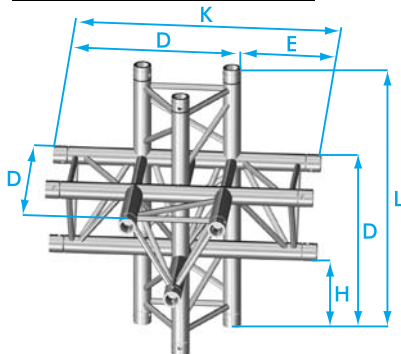
C018



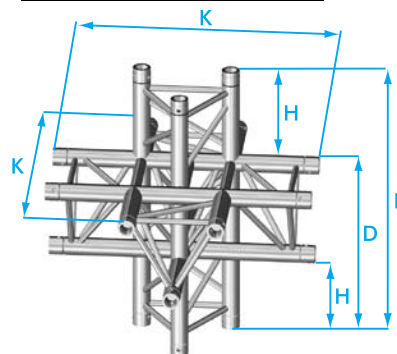
C019



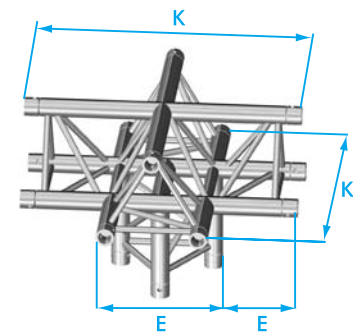
C020



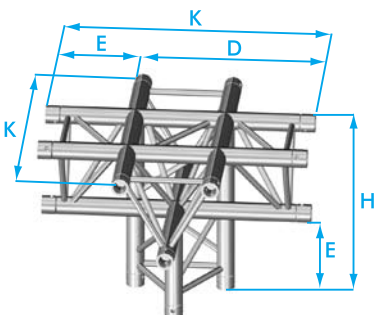
C021



C022



C023

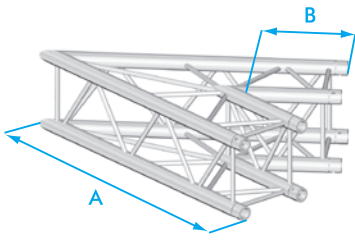


C024

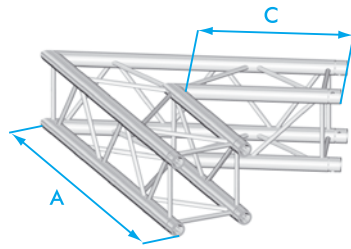
TRIANGULAR CORNERS

| measurements in mm | A | B | C | D | E | F | G | H | K | L |
|--------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| E20D | 800 | 264 | 415 | 400 | 178 | 272 | 308 | 203 | 578 | 603 |
| X/H30D | 1000 | 300 | 498 | 500 | 210 | 333 | 380 | 242 | 710 | 742 |
| H40D | 1200 | 258 | 525 | 600 | 210 | 376 | 439 | 255 | 810 | 855 |

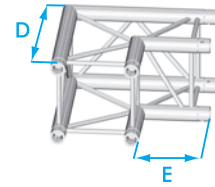
SQUARE CORNERS E20 X/H30 H40



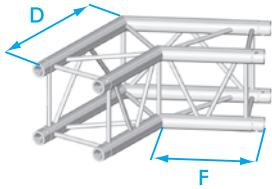
C001 - 45°



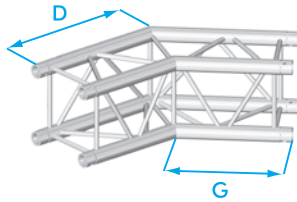
C002 - 60°



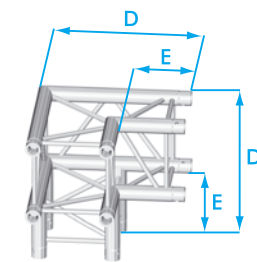
C003 - 90°



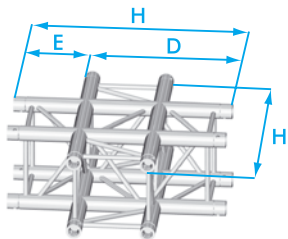
C004 - 120°



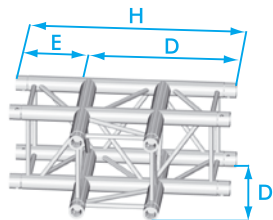
C005 - 135°



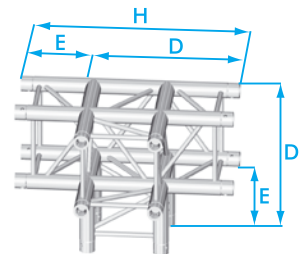
C012



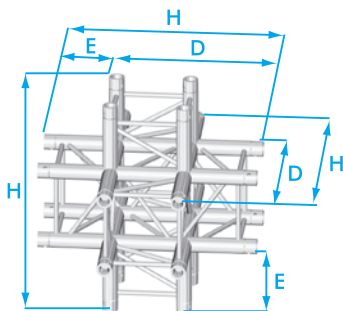
C016



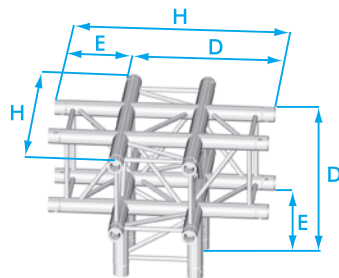
C017



C020



C022

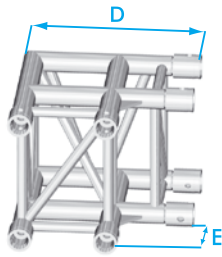


C024

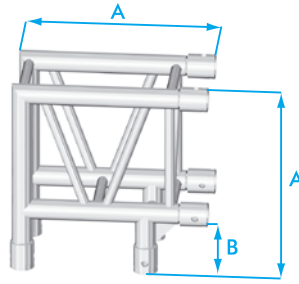
SQUARE CORNERS

| measurements in mm | A | B | C | D | E | F | G | H |
|--------------------|------|-----|-----|-----|-----|-----|-----|-----|
| E20V | 800 | 264 | 415 | 400 | 178 | 272 | 308 | 578 |
| X/H30V | 1000 | 300 | 498 | 500 | 210 | 333 | 380 | 710 |
| H40V | 1200 | 258 | 525 | 600 | 210 | 376 | 439 | 810 |

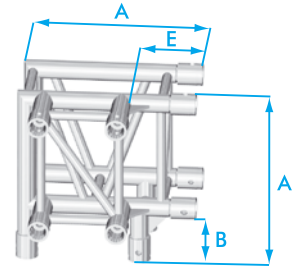
STANDARD CORNERS S36 SERIES



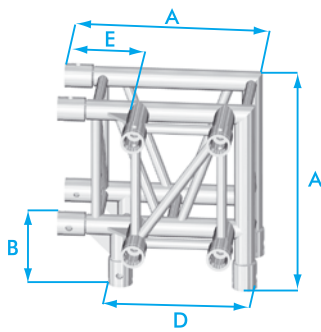
S36R - C003



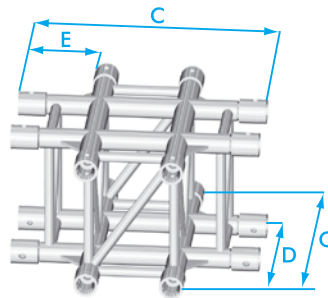
S36R - C007



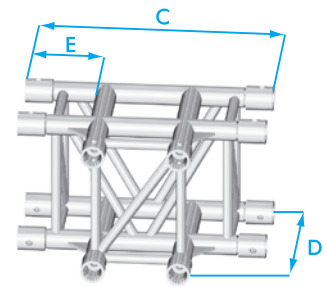
S36R - C012



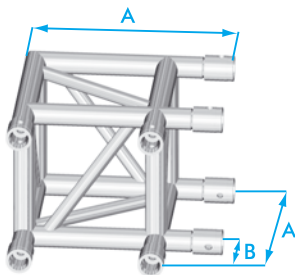
S36R - C013



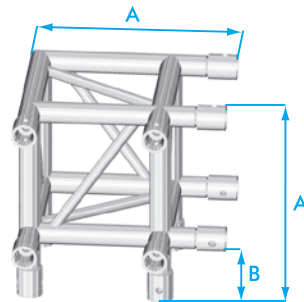
S36R - C016



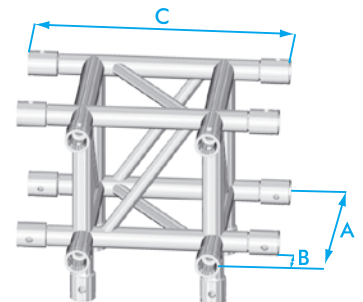
S36R - C017



S36V - C003



S36V - C012

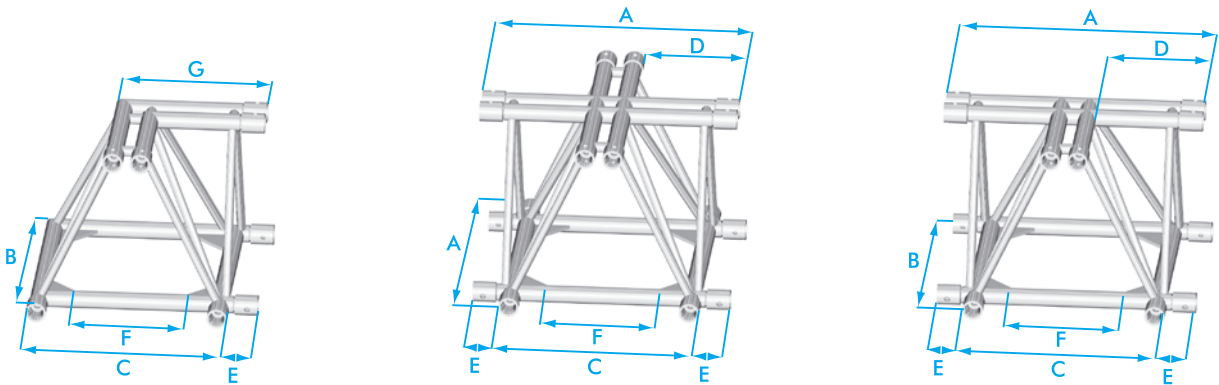


S36V - C020

STANDARD CORNERS S36 SERIES

| measurements in mm | A | B | C | D | E |
|--------------------|-----|-----|-----|-----|-----|
| S36R | 475 | 125 | 600 | 429 | 172 |
| S36V | 475 | 125 | 600 | 429 | 172 |

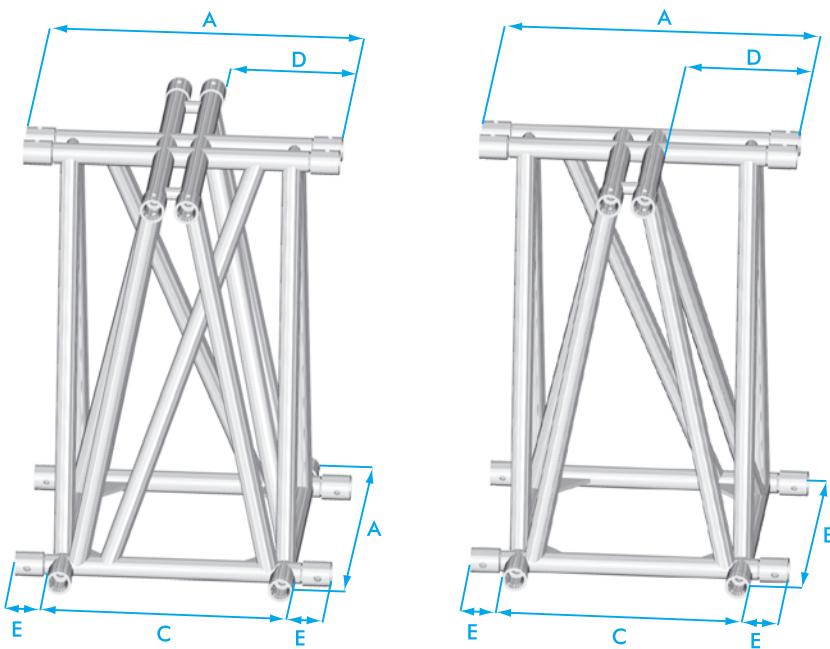
STANDARD CORNERS S52



STANDARD CORNERS S52F SERIES

| measurement in mm | A | B | C | D | E | F |
|-------------------|-----|-----|-----|-----|----|-----|
| S52F | 740 | 655 | 570 | 305 | 85 | 270 |

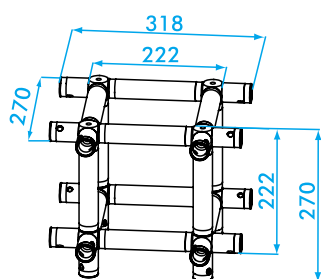
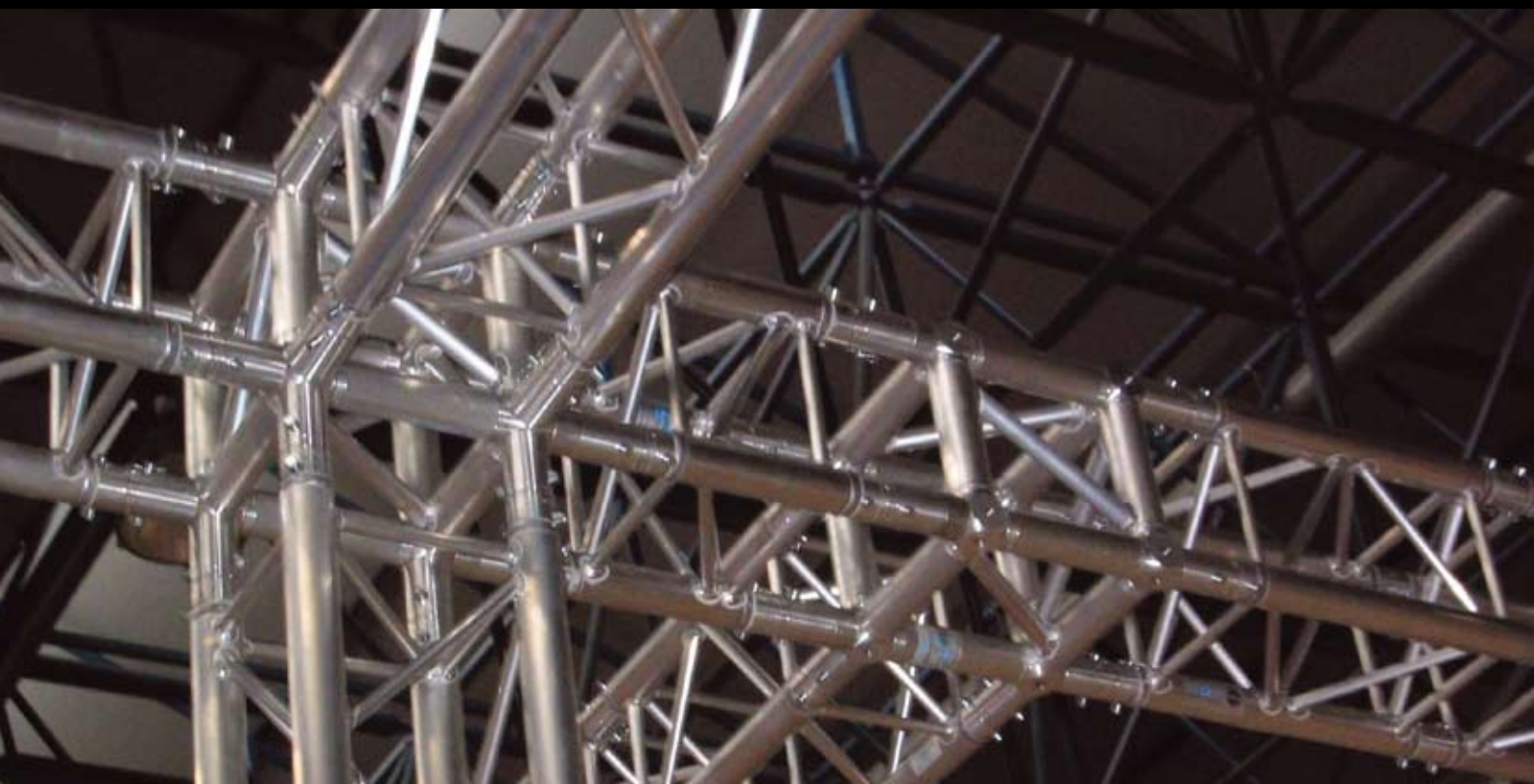
STANDARD CORNERS S100F



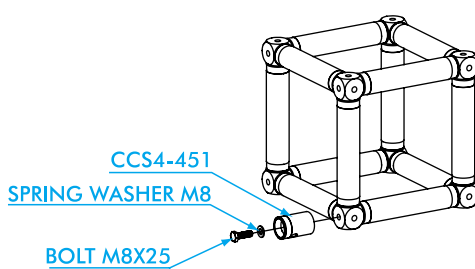
STANDARD CORNERS S100F SERIES

| measurement in mm | A | B | C | D | E |
|-------------------|-----|-----|-----|-----|----|
| S100F | 740 | 655 | 570 | 305 | 85 |

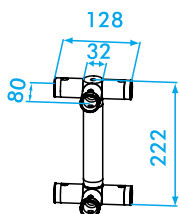
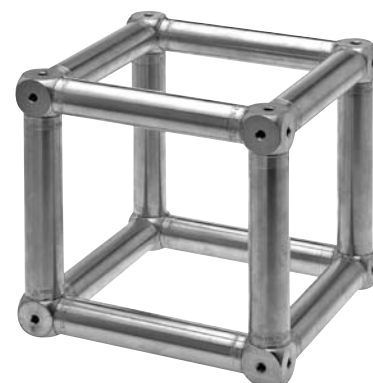
BOX CORNERS



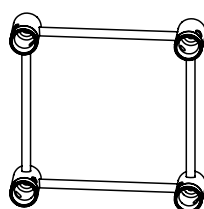
BOX-20V
Box corner for E20V truss. Measurements.



BOX-20V
Assembly.



BOX-20L
Ladder box corner for E20 truss. Measurements.



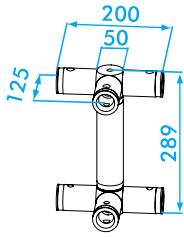
BOX-20V
Box-corner attachment, pre-assembled couplers.

TECHNICAL SPECIFICATIONS E20 BOX CORNERS

| | 0-WAY | | 2-WAY | | 3-WAY | | 4-WAY | | 5-WAY | | 6-WAY | | COUPLER | BOLT | SPRING WASHER |
|---------|-------|-----|-------|-----|-------|------|-------|------|-------|------|-------|------|----------|-------|---------------|
| | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | | | |
| BOX-20V | 3,7 | 8.2 | 4,2 | 9.3 | 4,7 | 10.4 | 5,2 | 11.5 | 5,7 | 12.6 | 6,2 | 13.7 | CCS4-451 | M8x25 | M8 |
| BOX-20L | 3,7 | 8.2 | 4,2 | 9.3 | 4,7 | 10.4 | 5,2 | 11.5 | — | — | — | — | CCS4-451 | M8x25 | M8 |

1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

BOX CORNER 30V



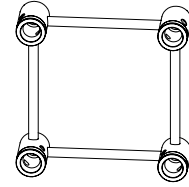
BOX-30L

Ladder box corner for X•H30 truss. Measurements.



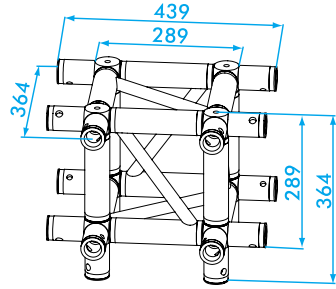
BOX-30V

Mounting kit. Kit for fixation and assembly. CCS6-651 to box 30V

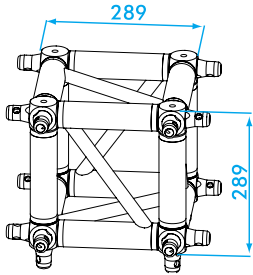
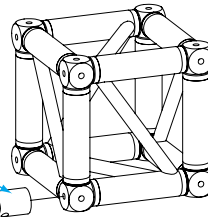


BOX-30V-ATT

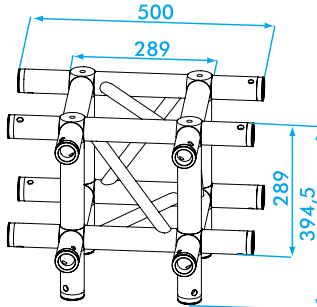
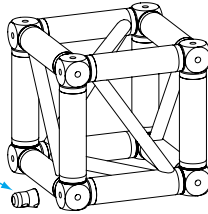
Boxcorner attachment, pre- assembled couplers.



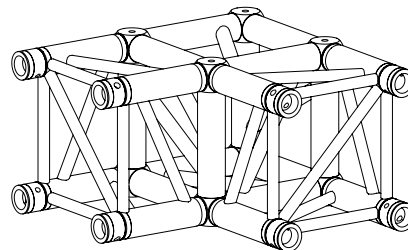
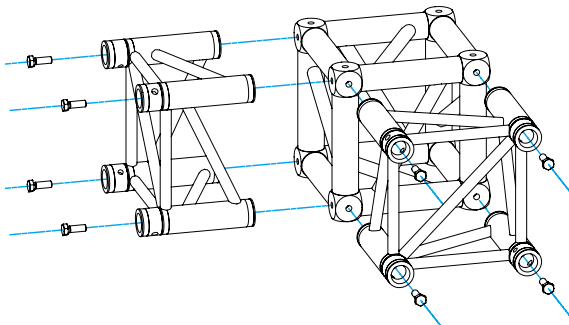
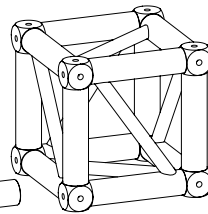
CCS6-651
SPRING WASHER M12
BOLT M12X35



CCS6-652
BOLT-M12x028-652



CCS6-653
BOLT M12X35
SPRING WASHER M12



BOX-30V

Box corner for X•H30V truss. Measurements.

BOX-30V

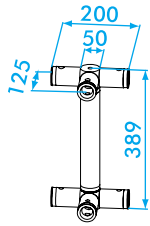
Assembly.

TECHNICAL SPECIFICATIONS 30V BOX CORNERS

| | 0-WAY | | 2-WAY | | 3-WAY | | 4-WAY | | 5-WAY | | 6-WAY | | COUPLER | BOLT | SPRING WASHER |
|---------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|----------------------------------|----------------------------------|---------------|
| | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | | | |
| BOX-30V | 9,9 | 21.2 | 12,2 | 26.9 | 13,5 | 29.8 | 14,8 | 32.7 | 16,1 | 35.5 | 17,4 | 38.4 | CCS6-651 CCS6-652 CCS6-653 | M12x35 BM12x028-652 M12x35 | M12 |

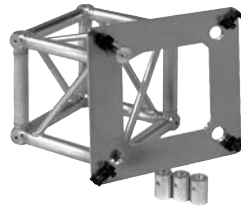
1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

BOX CORNER 40V



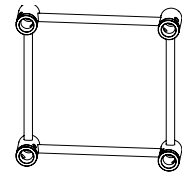
BOX-40L

Ladder box corner for H40 truss. Measurements.



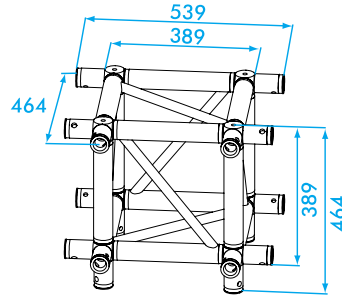
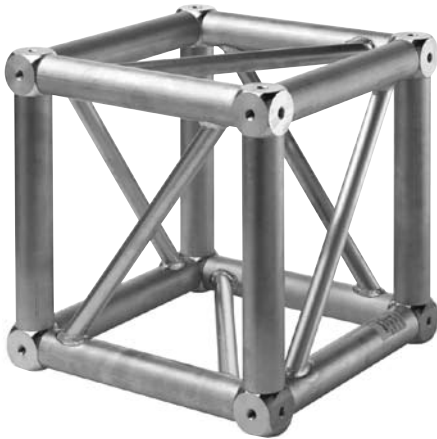
BOX-40V

Mounting kit. Kit for fixation and assembly. CCS6-651 to box 40V

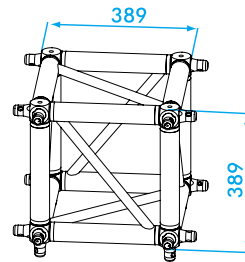
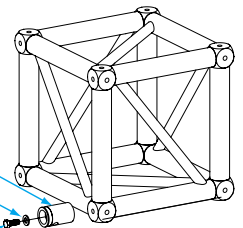


BOX-40V-ATT

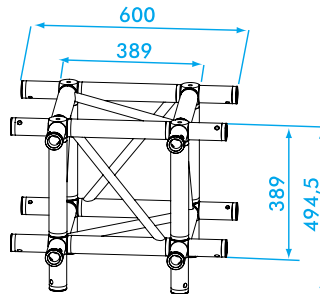
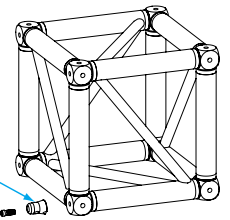
Boxcorner attachment, pre- assembled couplers.



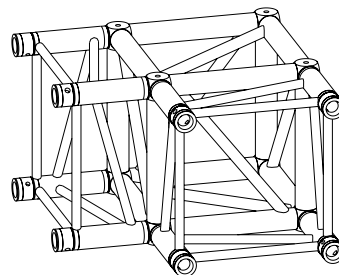
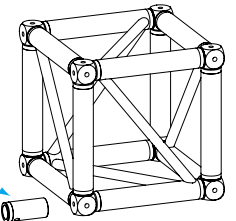
CCS6-651
SPRING WASHER M12
BOLT M12X35



CCS6-652
BOLT M12X028-652

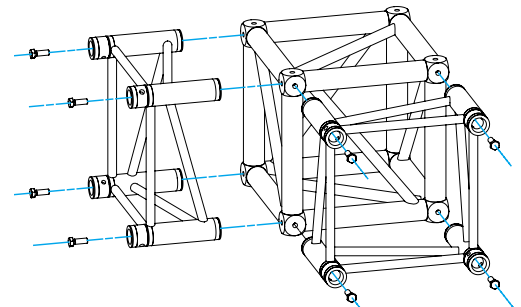


CCS6-653
BOLT M12X35
SPRING WASHER M12



BOX-40V

Box corner for H40V truss. Measurements.



BOX-40V

Assembly.

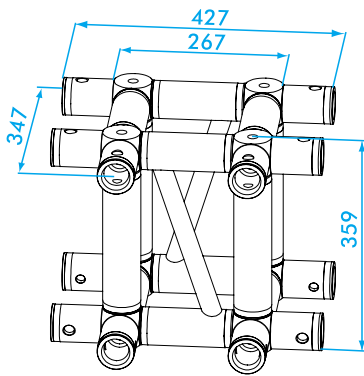
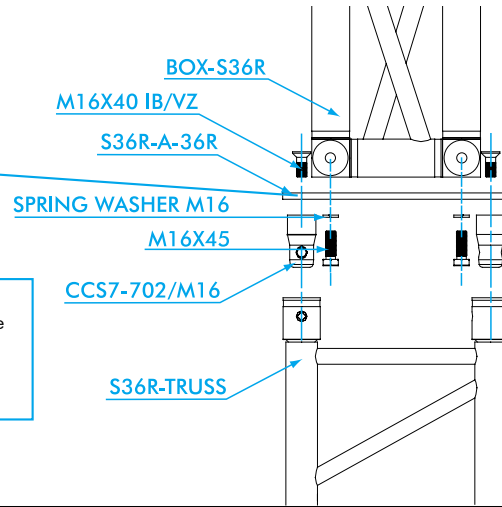
TECHNICAL SPECIFICATIONS 40V BOX CORNERS

| | 0-WAY | | 2-WAY | | 3-WAY | | 4-WAY | | 5-WAY | | 6-WAY | | COUPLER | BOLT | SPRING WASHER |
|---------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|----------------------------------|----------------------------------|---------------|
| | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | | | |
| BOX-40V | 11,5 | 25.4 | 14,1 | 31.1 | 15,4 | 34.0 | 16,7 | 36.9 | 18,0 | 39.7 | 19,3 | 42.6 | CCS6-651 CCS6-652 CCS6-653 | M12x35 BM12x028-652 M12x35 | M12 |

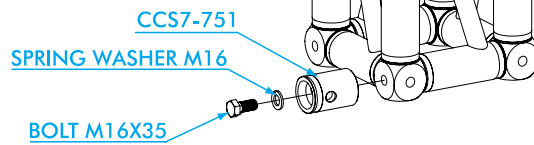
1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

BOX CORNERS S36

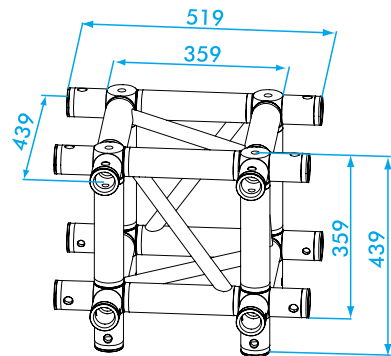
ADAPTER S36R
 Also available for a symmetrical setup with female couplers or an asymmetrical setup with female couplers. Drawing available on request or on www.prolyte.com.



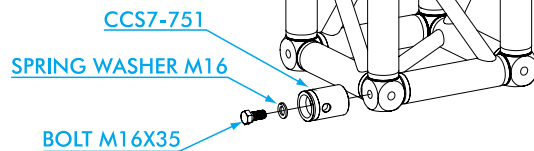
BOX-36R
 Box corner for S36R truss.



BOX-36R
 Assembly.



BOX-36V
 Box corner for S36V truss.



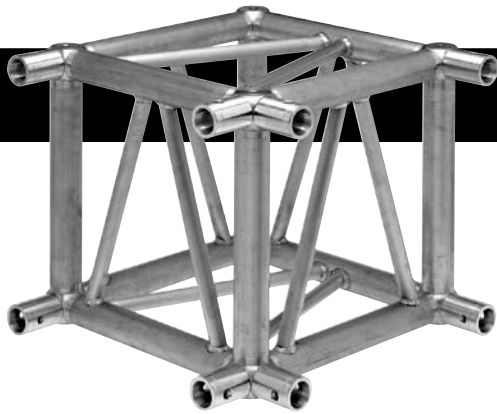
BOX-36V
 Assembly.



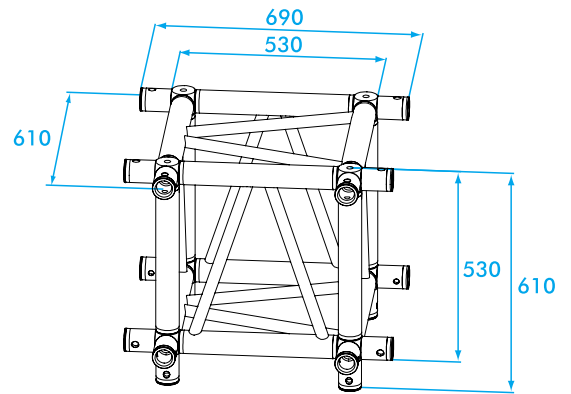
TECHNICAL SPECIFICATIONS S36 BOX CORNERS

| | 0-WAY | | 2-WAY | | 3-WAY | | 4-WAY | | 5-WAY | | 6-WAY | | COUPLER | BOLT | SPRING WASHER |
|---------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|----------|--------|---------------|
| | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | | | |
| BOX-36R | 15,9 | 35.1 | 17,7 | 39.1 | 19,5 | 43.0 | 21,2 | 46.8 | 23,0 | 50.8 | 24,8 | 54.7 | CCS7-751 | M16x35 | M16 |
| BOX-36V | 21,0 | 46.4 | 22,8 | 50.3 | 24,5 | 54.1 | 26,3 | 58.1 | 28,1 | 62.0 | 29,9 | 66.0 | CCS7-751 | M16x35 | M16 |

1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg



BOX CORNER S52

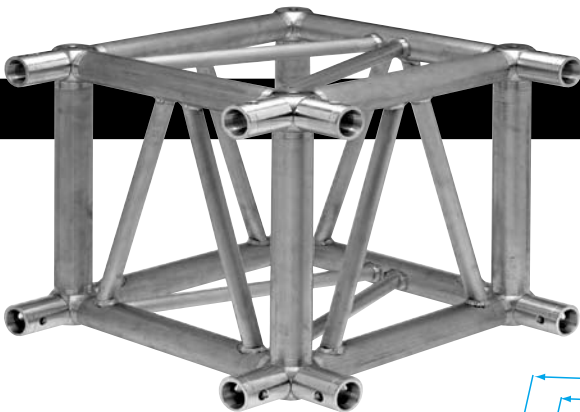


BOX-52V
Box corner for S52V/SV truss.

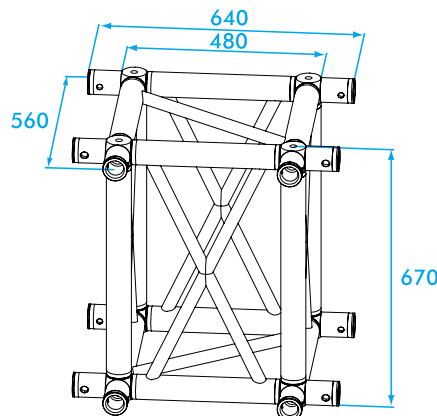
TECHNICAL SPECIFICATIONS S52 BOX CORNERS

| | 0-WAY | | 2-WAY | | 3-WAY | | 4-WAY | | 5-WAY | | 6-WAY | | COUPLER | BOLT | SPRING WASHER |
|------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|----------|--------|------------------|
| | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | | | |
| BOX-52V/SV | 22,7 | 50.1 | 24,5 | 54.1 | 26,3 | 58.1 | 28,0 | 61.8 | 29,8 | 65.8 | 31,6 | 69.8 | CCS7-751 | M16x35 | M16 |

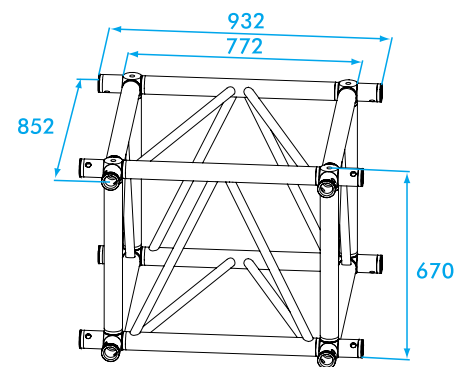
1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg



BOX CORNER S66



BOX-66R
Box corner for S66R truss.



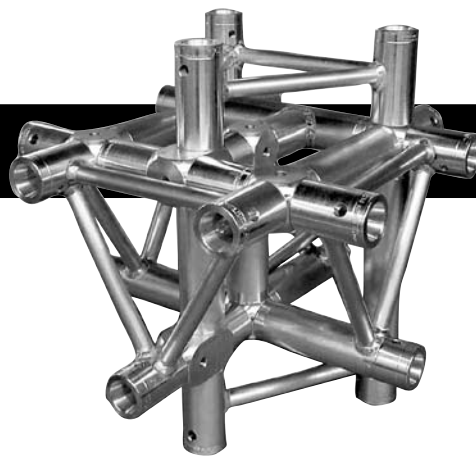
BOX-66V
Box corner for S66V truss.

TECHNICAL SPECIFICATIONS S66 BOX CORNERS

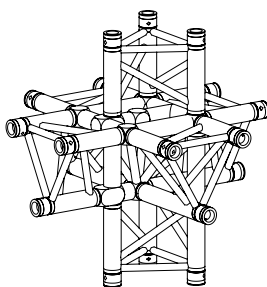
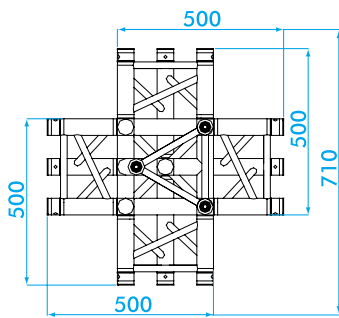
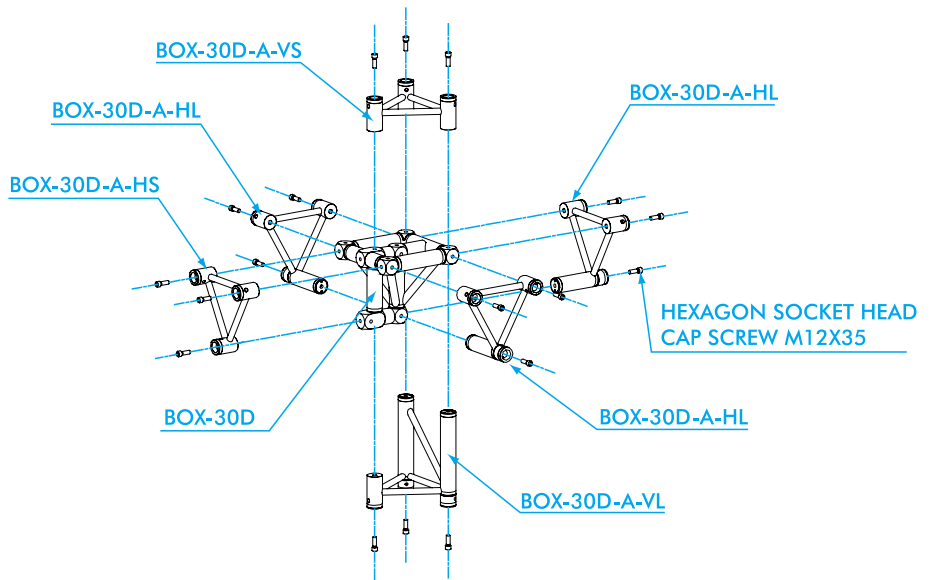
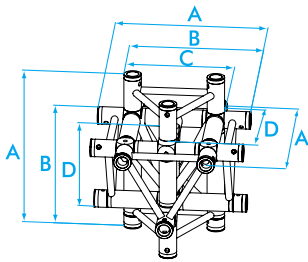
| | 0-WAY | | 2-WAY | | 3-WAY | | 4-WAY | | 5-WAY | | 6-WAY | | COUPLER | BOLT | SPRING WASHER |
|---------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|----------|--------|------------------|
| | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | | | |
| BOX-66R | 24,2 | 53.4 | 26 | 57.4 | 29,6 | 65.3 | 31,3 | 69.1 | 33,1 | 73.1 | 34,9 | 77 | CCS7-751 | M16x35 | M16 |
| BOX-66V | 28,2 | 62.3 | 30 | 66.2 | 31,8 | 70.2 | 33,5 | 74 | 35,3 | 77.9 | 37,1 | 81.9 | CCS7-751 | M16x35 | M16 |

1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

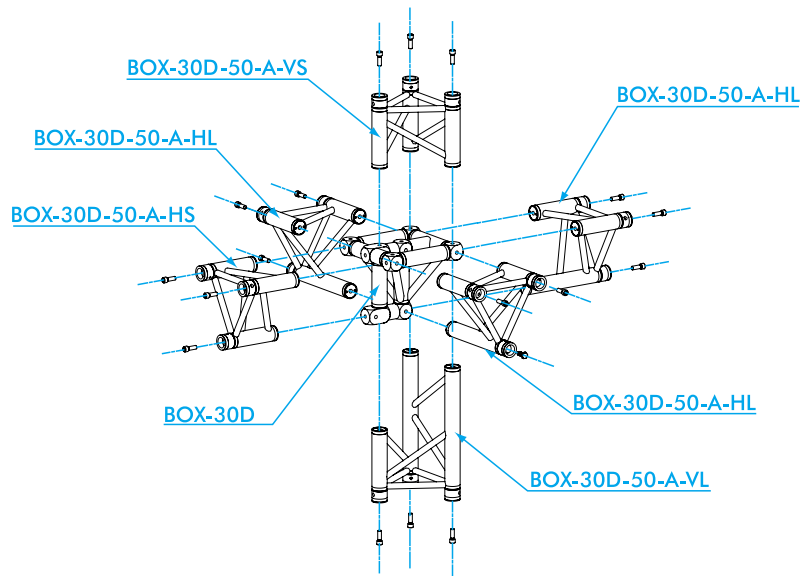
TRIANGULAR BOX CORNERS



| TRIANGULAR BOX CORNERS | | | | |
|------------------------|-----|-----|-----|-----|
| measurements in mm | A | B | C | D |
| X/H 30 | 440 | 365 | 290 | 257 |



Standard parts



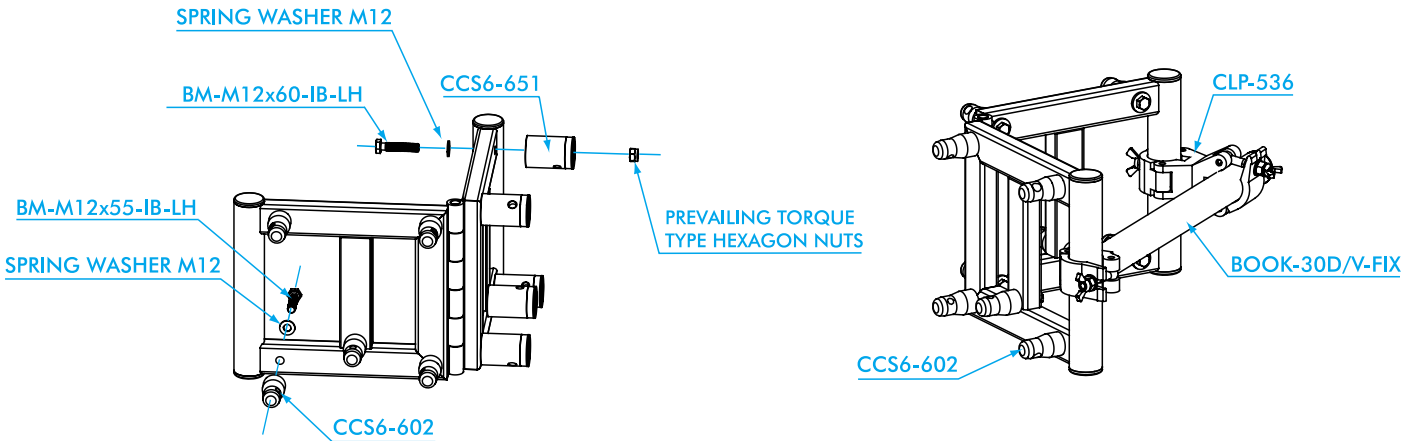
Elongated parts. Box corners can be used in combination with standard corners.

TECHNICAL SPECIFICATIONS 30D TRIANGULAR BOX CORNERS

| | 0-WAY | | A-VS | | A-HL | | A-HS | | A-VL | | COUPLER | BOLT | SPRING WASHER |
|--------------|-------|------|------|------|------|------|------|------|------|------|----------|--------|---------------|
| | KG | LBS | KG | LBS | KG | LBS | KG | LBS | KG | LBS | | | |
| BOX-30D | 7,1 | 15.7 | 1,4 | 3.1 | 1,2 | 2.6 | 1,0 | 2.2 | 2,0 | 4.4 | CCS6-651 | M12x35 | M12 |
| BOX-30D/50cm | 7,1 | 15.7 | 2,1 | 20.3 | 2,1 | 20.3 | 1,9 | 19.9 | 2,8 | 21.9 | DIV. | M12x35 | M12 |

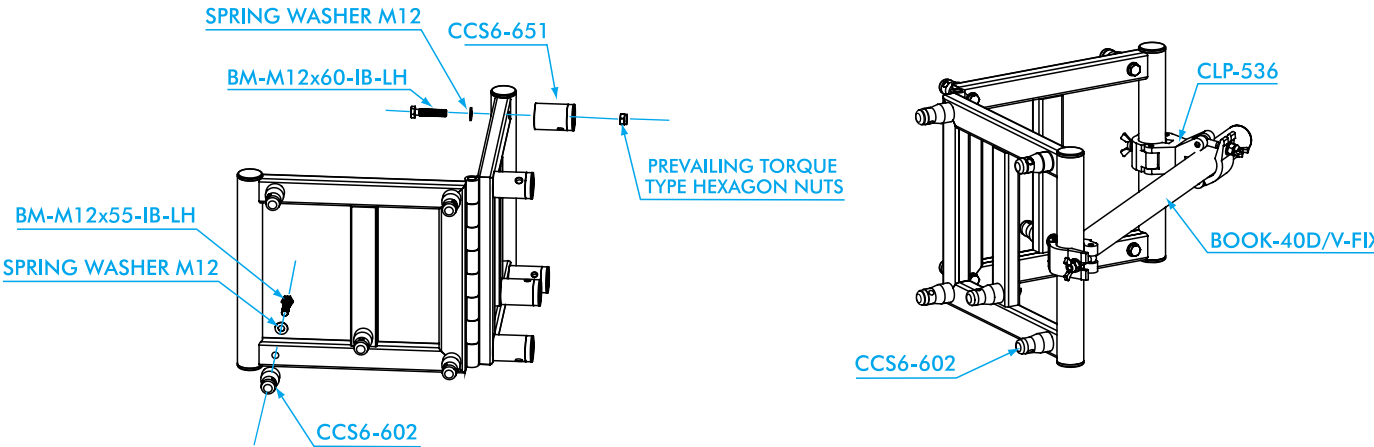
1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

BOOK CORNER 30D/V



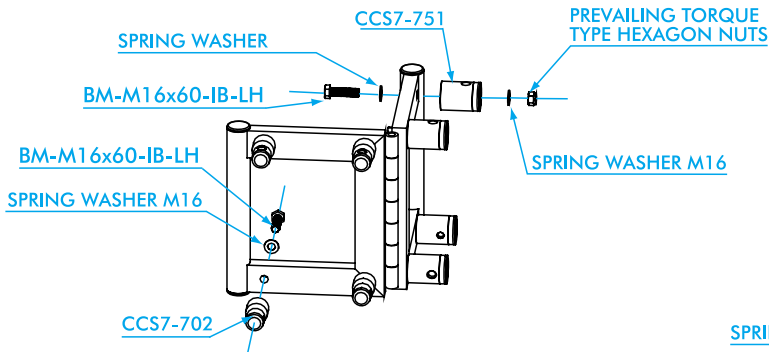
| TECHNICAL SPECIFICATIONS BOOK CORNERS 30D/V | | | | | | | | |
|--|------|------|--------------|--------|----------------|--------|-----|---------------|
| | KG | LBS | MALE COUPLER | BOLT | FEMALE COUPLER | BOLT | NUT | SPRING WASHER |
| BOOK-30D/V | 12,0 | 26.5 | CCS6-602 | M12x55 | CCS6-651 | M12x60 | M12 | M12 |
| 1 inch = 25,4 mm 1m = 3.28 ft 1 lbs = 0,453 kg 1 daN = 10 N ~ 1 kg | | | | | | | | |

BOOK CORNER 40D/V

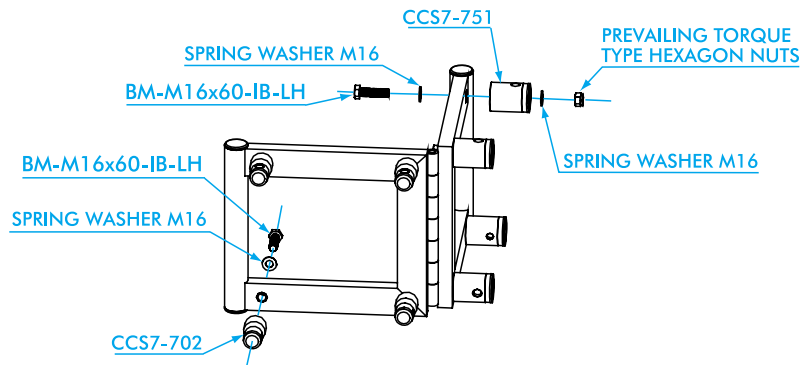


| TECHNICAL SPECIFICATIONS BOOK CORNERS 40D/V | | | | | | | | |
|--|------|------|--------------|--------|----------------|--------|-----|---------------|
| | KG | LBS | MALE COUPLER | BOLT | FEMALE COUPLER | BOLT | NUT | SPRING WASHER |
| BOOK-40D/V | 15,5 | 34.2 | CCS6-602 | M12x55 | CCS6-651 | M12x60 | M12 | M12 |
| 1 inch = 25,4 mm 1m = 3.28 ft 1 lbs = 0,453 kg 1 daN = 10 N ~ 1 kg | | | | | | | | |

BOOK CORNER 36R/V



Book corner 36R



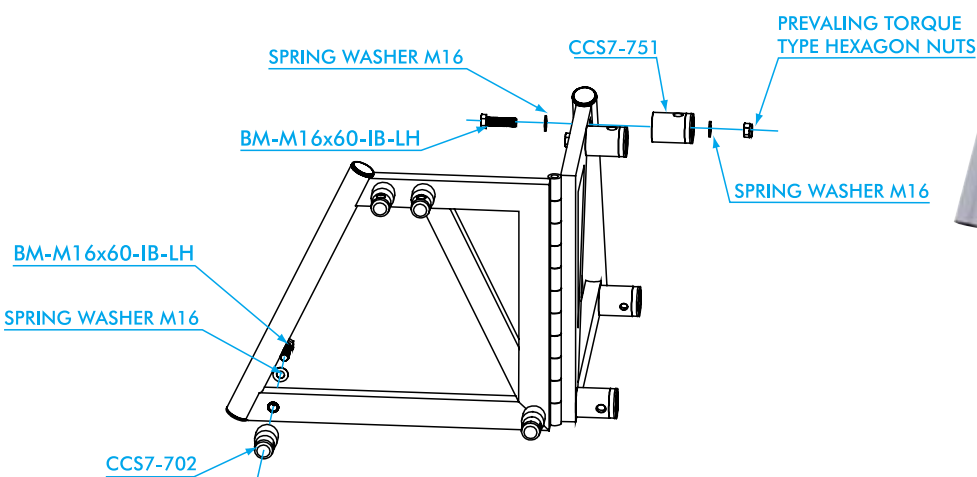
Book corner 36V

TECHNICAL SPECIFICATIONS BOOK CORNERS 36R/V

| | KG | LBS | MALE COUPLER | BOLT | FEMALE COUPLER | BOLT | NUT | SPRING WASHER |
|----------|------|------|--------------|--------|----------------|--------|-----|---------------|
| BOOK-36R | 16,2 | 35.8 | CCS7-702 | M16x60 | CCS7-751 | M16x60 | M16 | M16 |
| BOOK-36V | 17,2 | 38.0 | CCS7-702 | M16x60 | CCS7-751 | M16x60 | M16 | M16 |

1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

BOOK CORNER 52F



TECHNICAL SPECIFICATIONS BOOK CORNERS 52F AND 52S/V

| | KG | LBS | MALE COUPLER | BOLT | FEMALE COUPLER | BOLT | NUT | SPRING WASHER |
|-------------|------|------|--------------|--------|----------------|--------|-----|---------------|
| BOOK-52F | 21,5 | 47.5 | CCS7-702 | M16x60 | CCS7-751 | M16x60 | M16 | M16 |
| BOOK-52S/SV | 20,7 | 45.7 | CCS7-702 | M16x60 | CCS7-751 | M16x60 | M16 | M16 |

1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg