

PROLYTE CORNERS



Photo: RSL, The Netherlands.

Corner

All Prolyte truss 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 structure or grid configurations.

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 number of specially designed corners, such as the pyramid corner and swivel corner. For more information on these corners, or on custom-made corners, please contact Prolyte's Internal Sales department.

Box corners

Invented by Prolyte, the Box corner system is revolutionary. 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 make 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.

Book corners

The Prolyte book corner enables configuration with angle flexibility. Angles ranging from 0 to 180 degrees can be made using the same corner. The attachments are bolted to the corner, using male or female receivers. The required angle is set with the additional attachment set. The book corner is not designed as a loadbearing element and therefore cannot be part of a structural component. (The book corner must be supported on both sides of the hinge.)

STANDARD CORNERS



Photo: Riegler Messebau, Italy. Project: Introduction new Porsche.

20 SERIES



30/40 SERIES



36R/36V



S52F



S100F

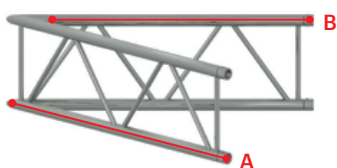




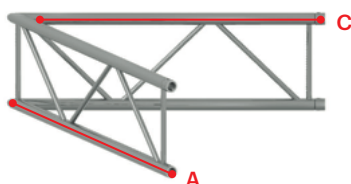
Ladder Corners

measurements in mm	A	B	C	D	E	F	G	H	J	K	L	M	N	P
X30L	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

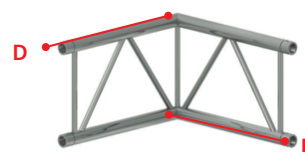
C001U - 45°



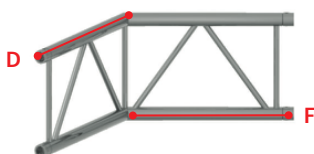
C002U - 60°



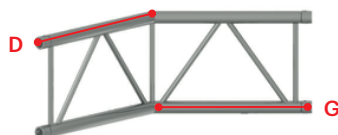
C003U - 90°



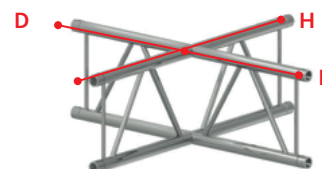
C004U - 120°



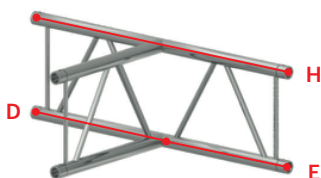
C005U - 135°



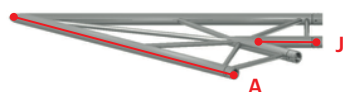
C016U



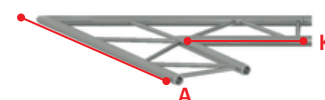
C017U



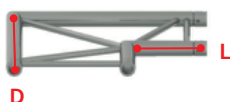
C001F - 45°



C002F - 60°



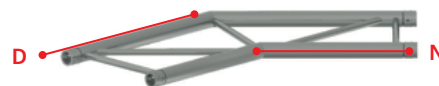
C003F - 90°



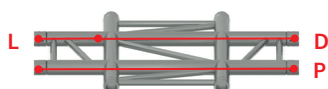
C004F - 120°



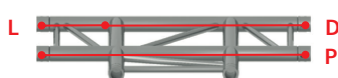
C005F - 135°



C016F



C017F



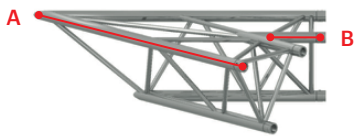
U = LADDER UP
F = LADDER FLAT

TRIANGULAR CORNERS E20D / X/H30D / H40D

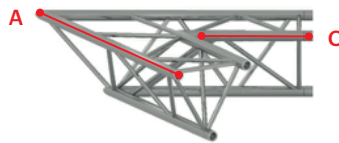
Triangular Corners

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

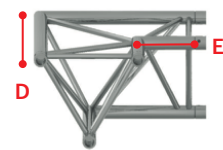
C001 - 45°



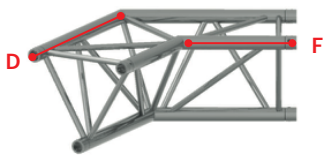
C002 - 60°



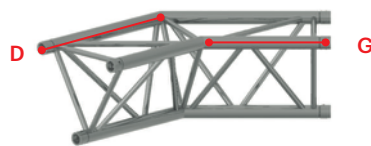
C003 - 90°



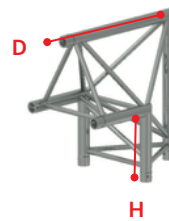
C004 - 120°



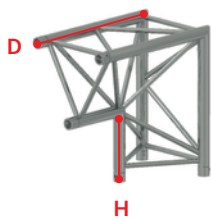
C005 - 135°



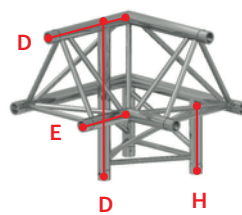
C006



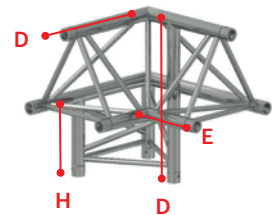
C007



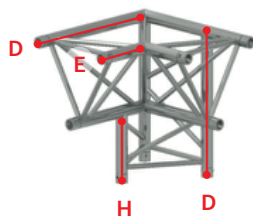
C010



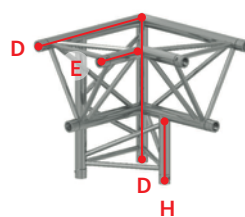
C011



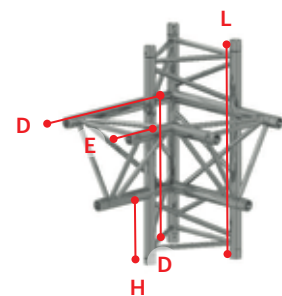
C012



C013



C014

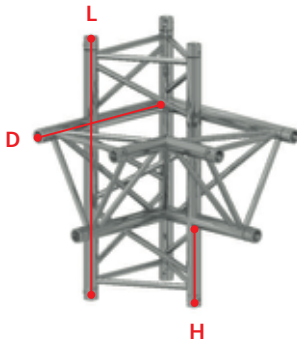




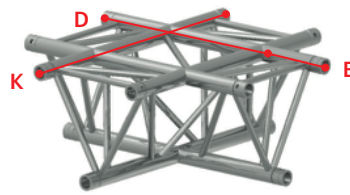
Triangular Corners

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

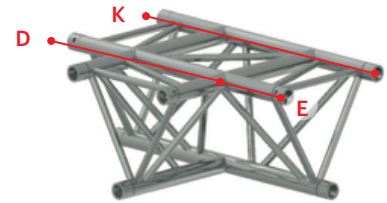
C015



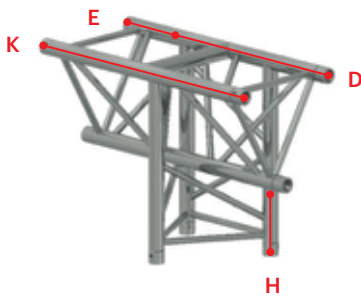
C016



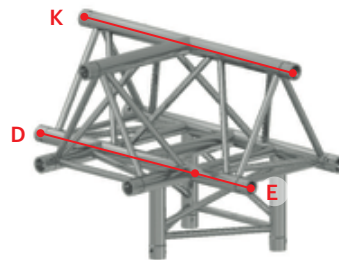
C017



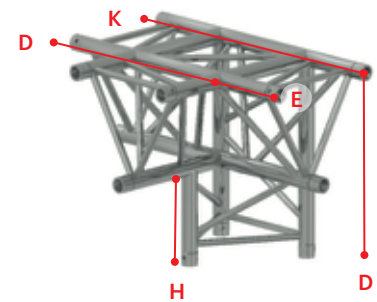
C018



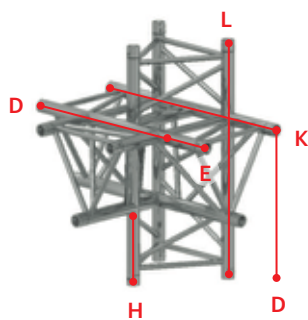
C019



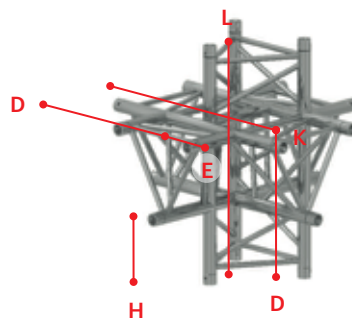
C020



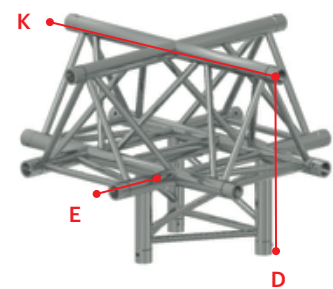
C021



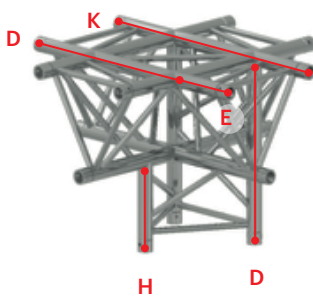
C022



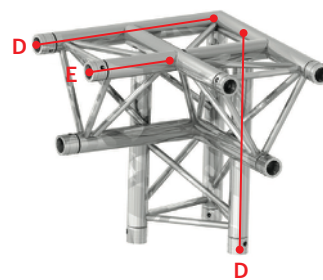
C023



C024



C039

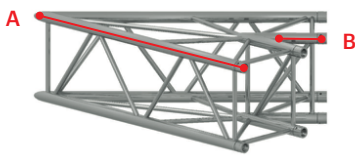


SQUARE CORNERS E20V / X/H30V / H40V

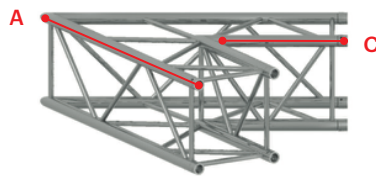
Square Corners

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

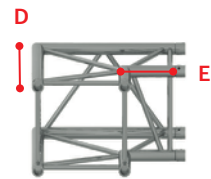
C001 - 45°



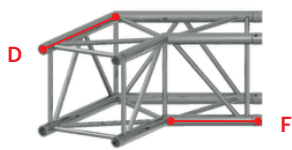
C002 - 60°



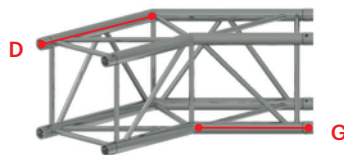
C003 - 90°



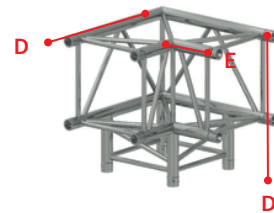
C004 - 120°



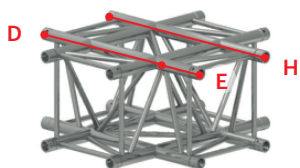
C005 - 135°



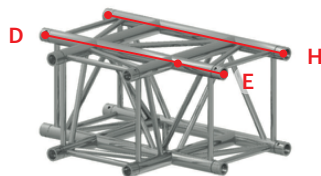
C012



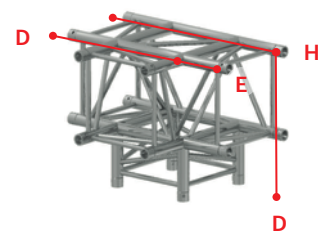
C016



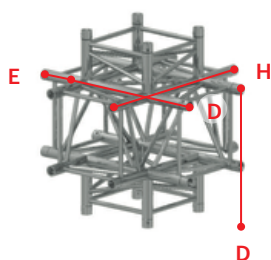
C017



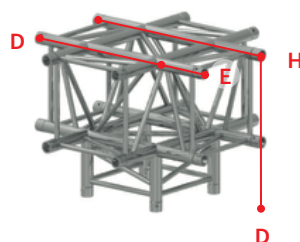
C020



C022



C024



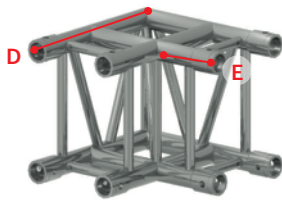
STANDARD CORNERS S36 SERIES



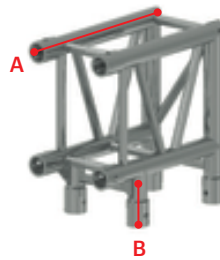
Standard Corners - S36 Series

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

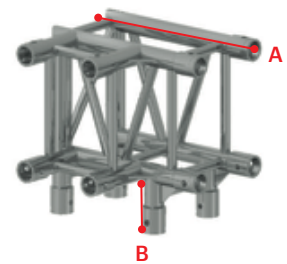
S36R - C003



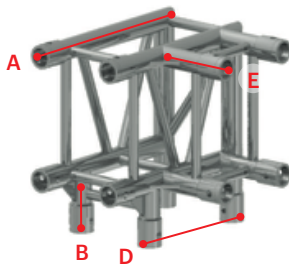
S36R - C007



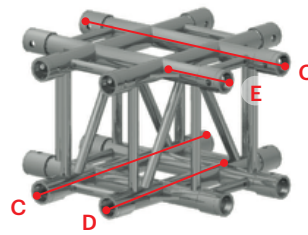
S36R - C012



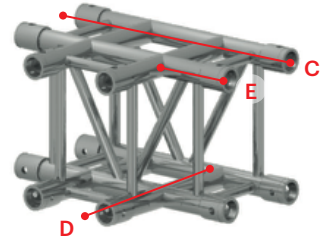
S36R - C013



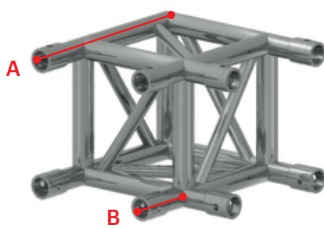
S36R - C016



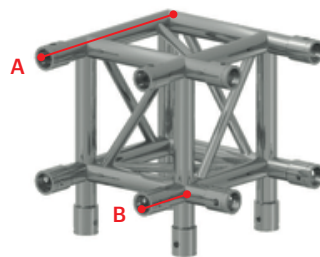
S36R - C017



S36V - C003



S36V - C012

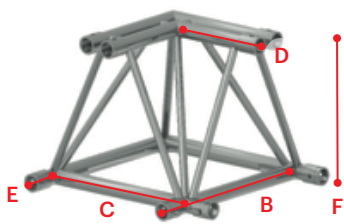


STANDARD CORNERS S52F / S100F

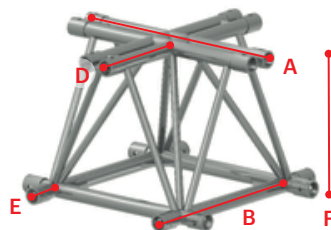
Standard Corners - S52F Series

measurements in mm	A	B	C	D	E	F
S52F	740	655	580	305	85	530

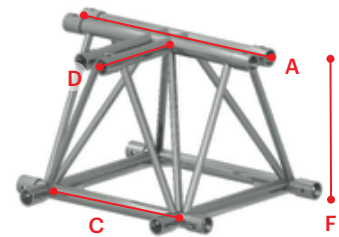
S52F - C003



S52F - C016



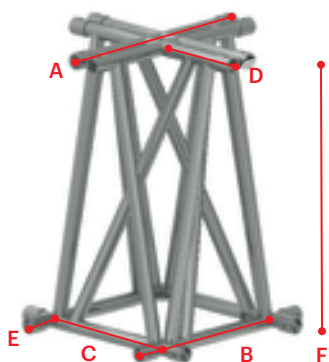
S52F - C017



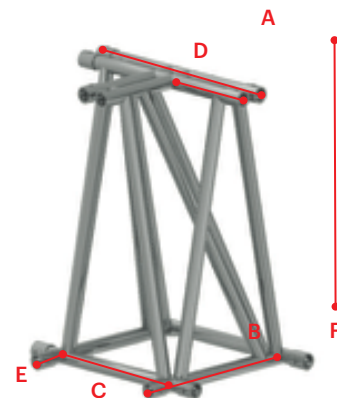
Standard Corners - S100F Series

measurements in mm	A	B	C	D	E	F
S100F	740	655	570	305	85	1010

S100F - C016

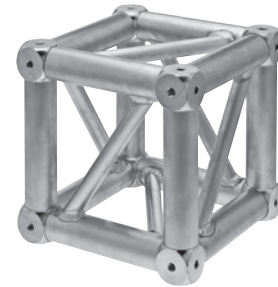
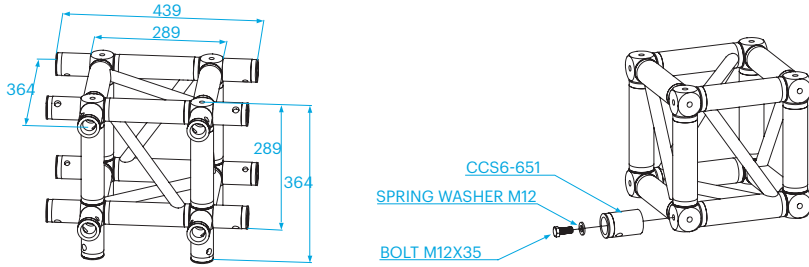


S100F - C017



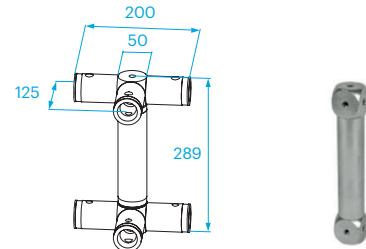


BOX-30V-0



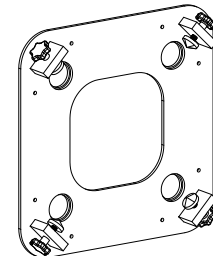
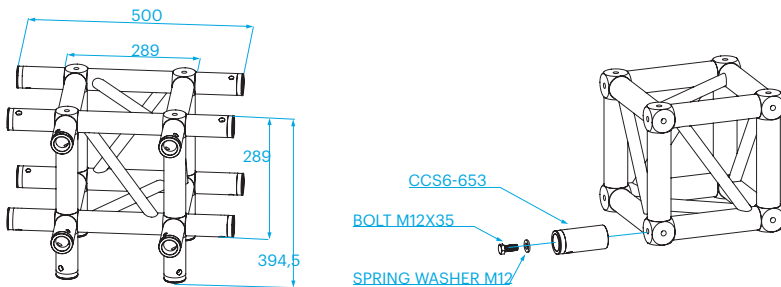
BOX-30L-0

Ladder BoxCorner for X•H30 truss. Measurements.



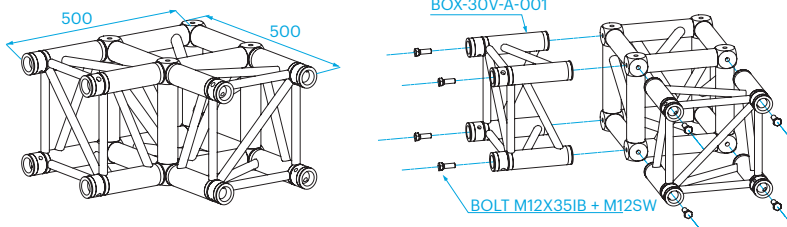
BOX-30 - KIT

Kit for fixation and assembly. CCS6-651 to Box-30V-0.



BOX-30V-A-001

BoxCorner for X • H30V truss. Measurements. Assembly.



BOX-30V-ATT

BoxCorner attachment, pre- assembled CCS6-651 couplers.



BoxCorner with attachments with same dimensions as standard corner.

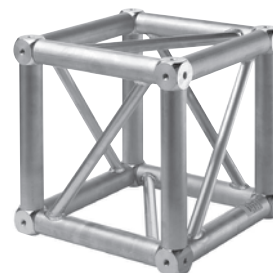
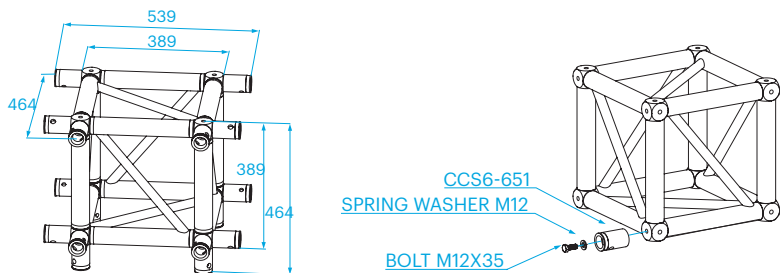
Technical specifications - 30V BoxCorners

	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			
	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	BM-M12x035	BM-M12xSW
													CCS6 - 652	BM12x028 - 652	-
													CCS6 - 653	BM-M12x035	BM-M12xSW

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

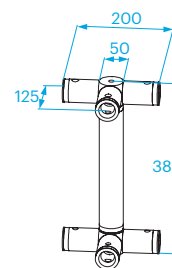
BOXCORNER 40V

BOX-40V-0



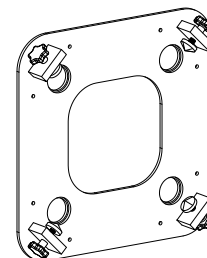
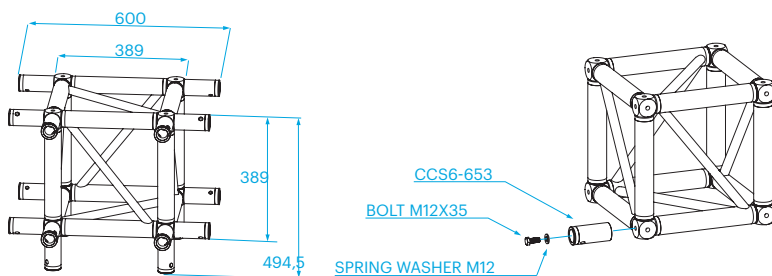
BOX-40L-0

Ladder BoxCorner for H40 truss. Measurements.



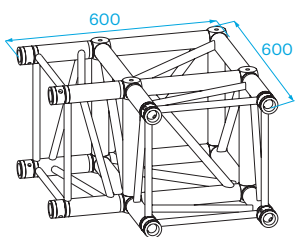
BOX-40-KIT

Kit for fixation and assembly. CCS6-651 to Box-40V-0.

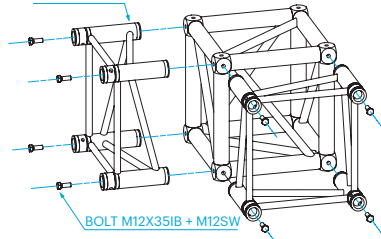


BOX - 40V - A001-A-001

BoxCorner for H40V truss. Measurements.

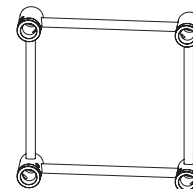


Assembly.
BOX-40V-A-001



BOX-40V-ATT

BoxCorner attachment, pre- assembled
CCS6-651 couplers.



BoxCorner with attachments with same dimensions as standard corner.

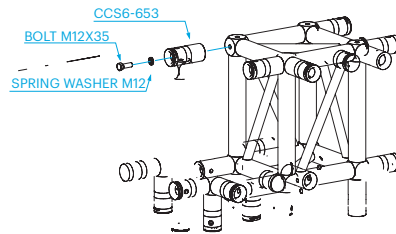
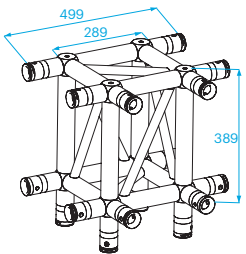
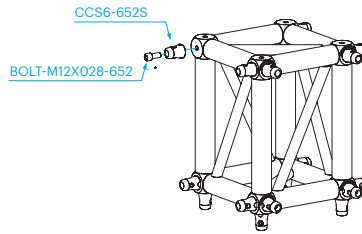
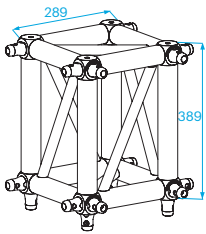
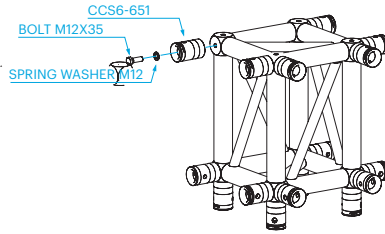
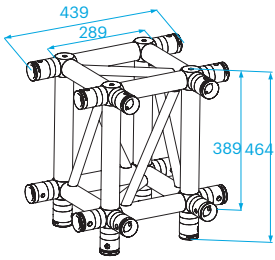
Technical specifications - 40V BoxCorners

	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			
	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	BM-M12X035	BM-M12-SW
													CCS6 - 652	BM12x028 - 652	-
													CCS6 - 653	BM-M12X035	BM-M12-SW

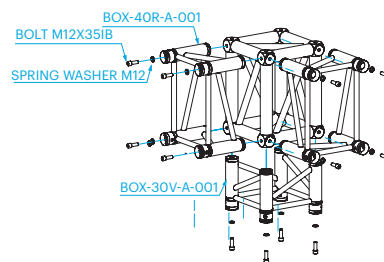
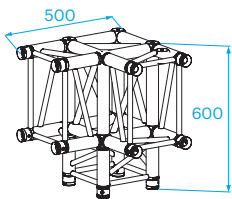
1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg



BOX-40R-0



BOX-40R-A-001

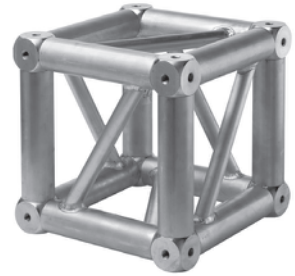
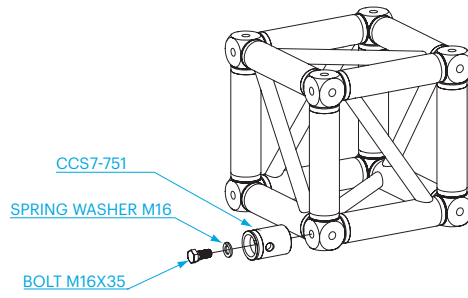
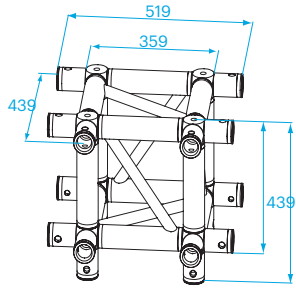


BOXCORNERS S36

BOX-36V-0

BoxCorner for S36V truss.

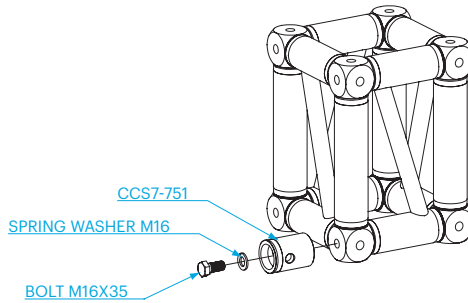
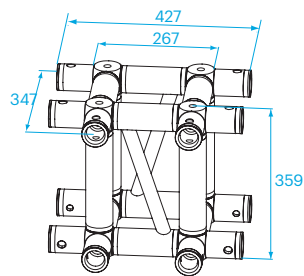
Assembly



BOX-36R-0

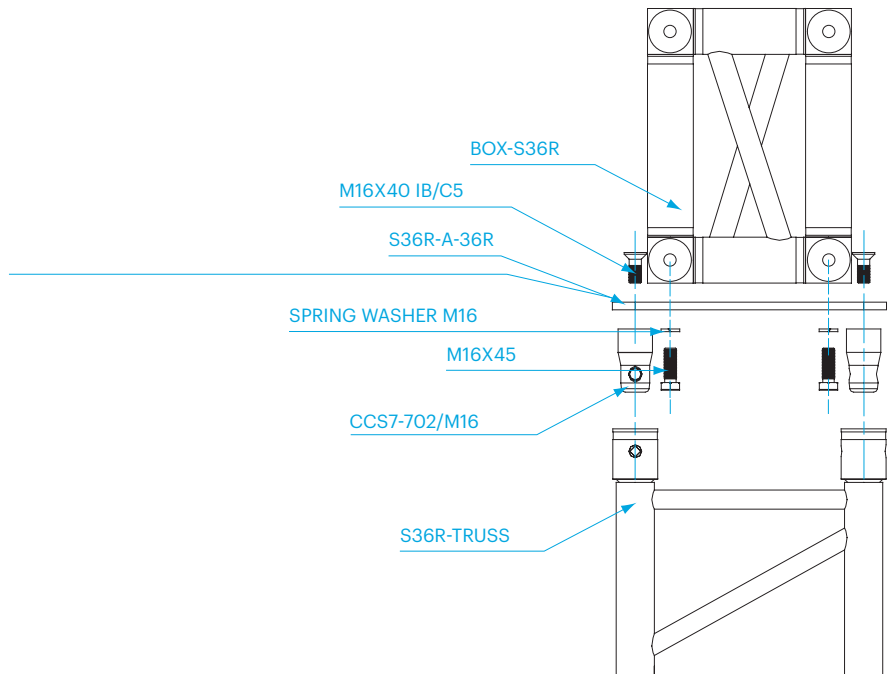
BoxCorner for S36R truss.

Assembly



ADAPTER S36R

Also available for a symmetrical setup with female couplers or an asymmetrical setup with female couplers.



Technical specifications S36 BoxCorners

	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	BM-M16x035	BM-M16-SW
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	BM-M16x035	BM-M16-SW

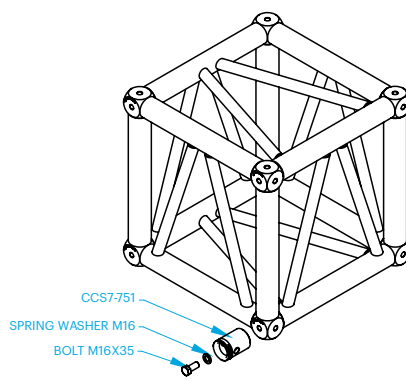
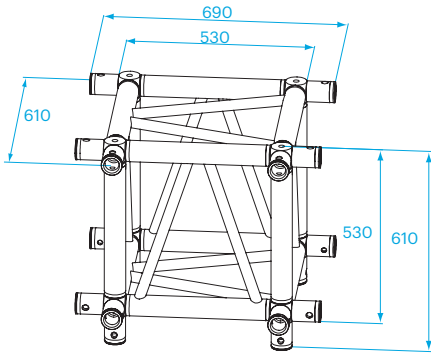
1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

BOXCORNERS S52 / S66

BOX-52V-0

BoxCorner for S52/SV truss.

Assembly



Technical specifications - S52 BoxCorners

	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	BM-M16-035	BM-M16-SW

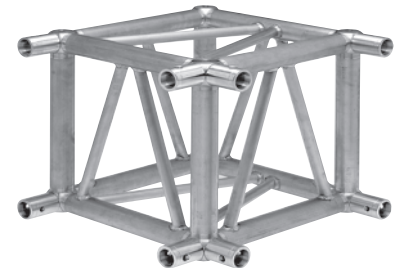
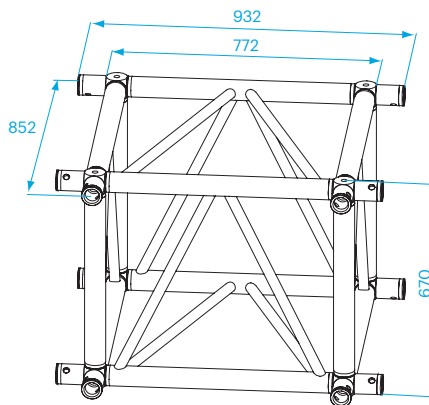
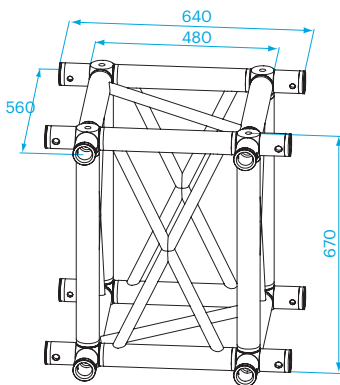
1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg | 1 daN = 10 N ~ 1 kg

BOX-66R-0

BoxCorner for S66R truss.

BOX-66V-0

BoxCorner for S66V truss.



Technical specifications - S66 BoxCorners

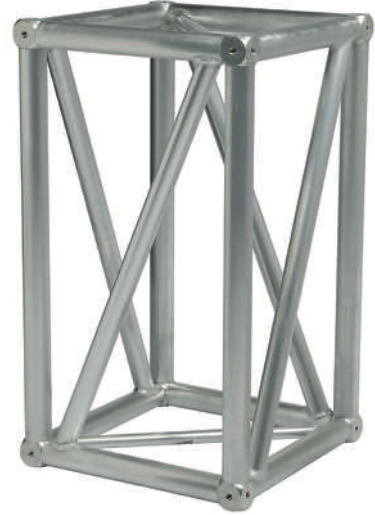
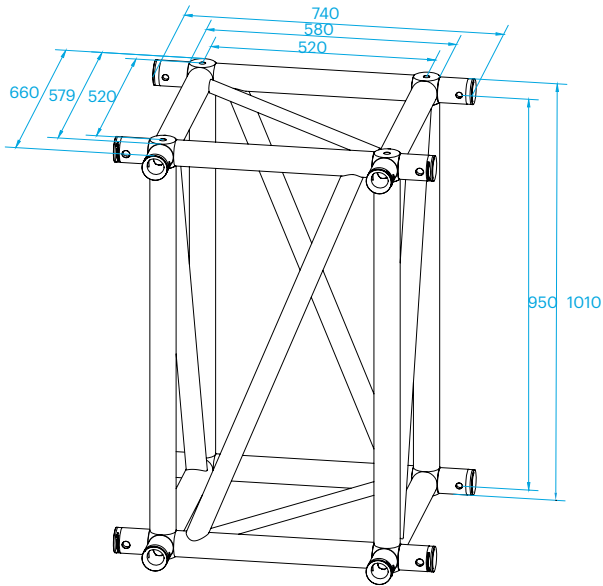
	0-way		2-way		3-way		4-way		5-way		6-way		coupler	bolt	spring washer
	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs			
Box - 66R	24,2	53.4	26	57.4	29,6	65.3	31,3	69.1	33,1	73.1	34,9	77	CCS7-751	M16x35	M16
Box - 66V	28,2	62.3	30	66.2	31,8	70.2	33,5	74	35,3	77.9	37,1	81.9	CCS7-751	M16x35	M16

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

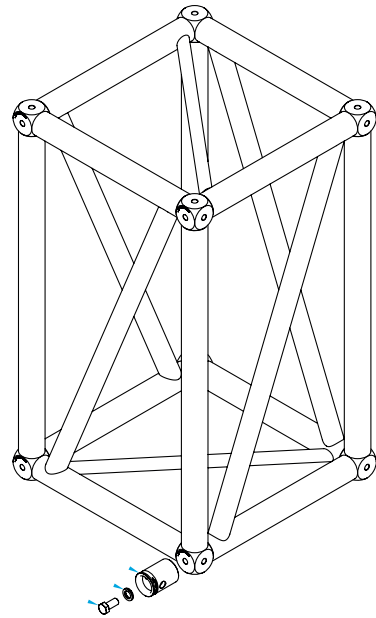
BOXCORNERS B100RV

BOX-100RV-0

BoxCorner for B100RV truss.



Assembly (1 : 10)



CCS7-751
SPRING WASHER M16
BOLT M16X35

Technical specifications - B100RV BoxCorners

	0-way		2-way		3-way		4-way		5-way		6-way		bot	nordlock
	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs	kg	lbs		
Box - 100RV	36.1	79.67	39.7	87.62	41.5	91.59	43.3	95.56	45.1	99.53	46.9	103.51	BM-M16x035	BM-M16-nordl

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

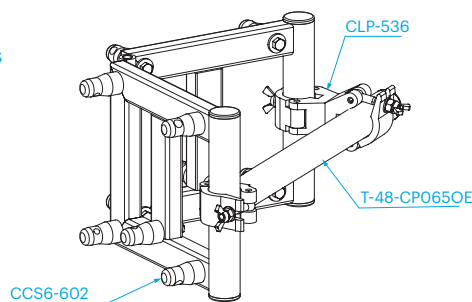
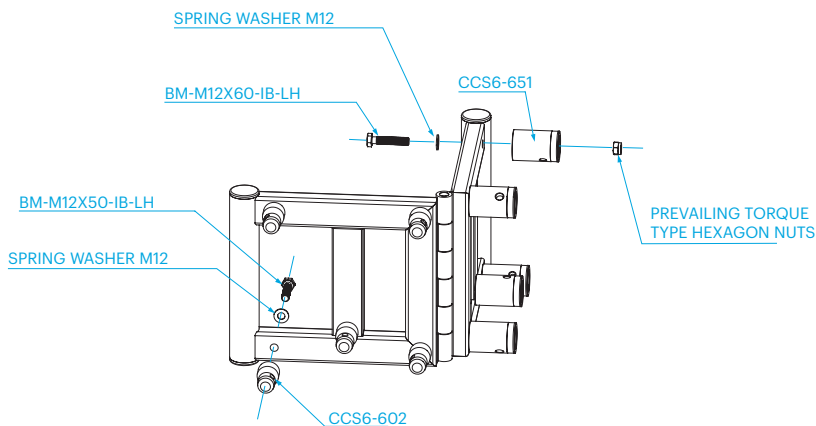
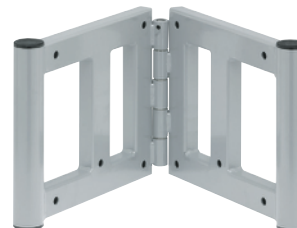


BOOK-30D/V

Assembly

Book corners can not be used as load bearing component. Loading should be supported from both sides of the book corner.

Book corner for 30D/V truss.



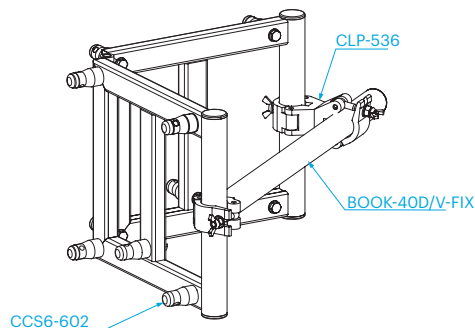
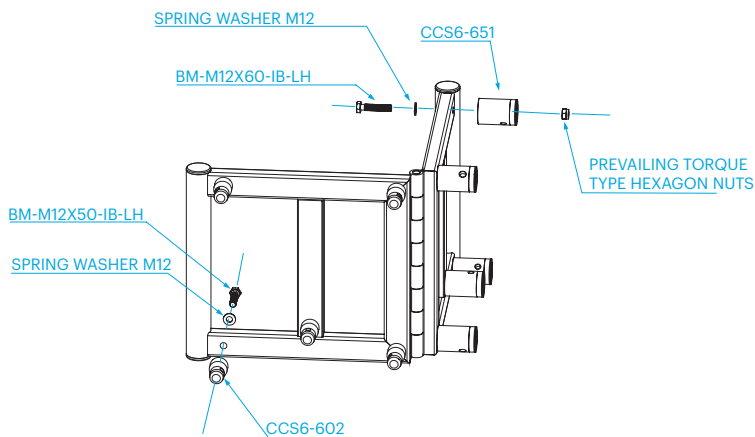
Technical specifications - Book Corners 30D/V

	kg	lbs	male coupler	bolt	female coupler	bolt	nut	spring washer
Book - 30D/V	12,0	26.5	CCS6 - 602	M12x55	CCS6 - 651	BM-M12x060	BM-M12-SN	BM-M12-SW
1 inch = 25,4 mm 1 m = 3.28 ft 1 lbs = 0,453 kg 1 daN = 10 N ~ 1 kg								

BOOK-40D/V

Assembly

Book corner for 40D/V truss.



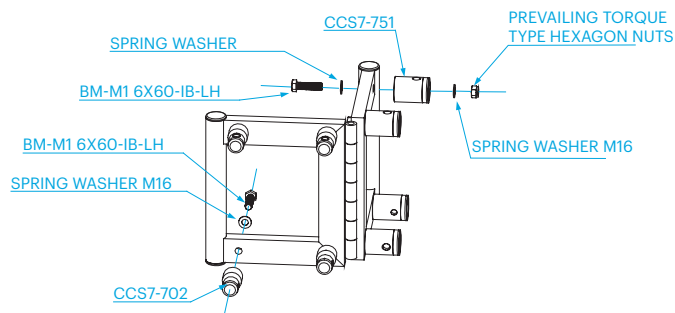
Technical specifications - Book Corners 40D/V

	kg	lbs	male coupler	bolt	female coupler	bolt	nut	spring washer
Book - 40D/V	15,5	34.2	CCS6 - 602	M12x55	CCS6 - 651	BM-M12x060	BM-M12-SN	BM-M12-SW
1 inch = 25,4 mm 1 m = 3.28 ft 1 lbs = 0,453 kg 1 daN = 10 N ~ 1 kg								

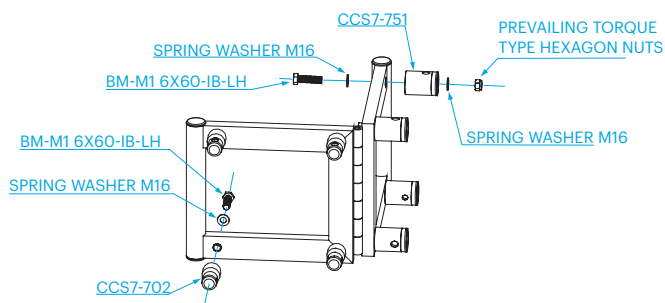
BOOK CORNERS 36R/V / 52F

BOOK-36R/V

Book corner for 36V truss.



Book corner for 36R truss.



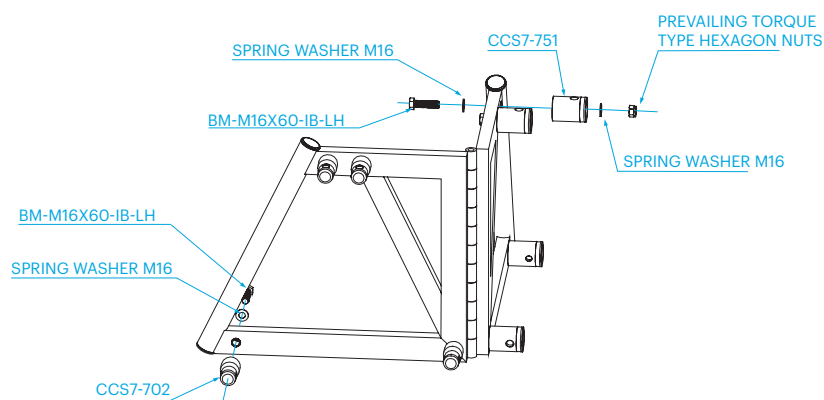
Technical specifications - Book Corners 36R/V

	kg	lbs	male coupler	bolt	female coupler	bolt	nut	spring washer
Book - 36R	16,2	35.8	CCS7-702	M16x60	CCS7-751	BM-M16x060	BM-M16-SN	BM-M16-SW
Book - 36V	17,2	38.0	CCS7-702	M16x60	CCS7-751	BM-M16x060	BM-M16-SN	BM-M16-SW

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

BOOK-52F

Book corner for 52F truss.



Technical specifications - Book Corners 52F

	kg	lbs	male coupler	bolt	female coupler	bolt	nut	spring washer
Book - 52F	21,5	47.5	CCS7-702	M16x60	CCS7-751	BM-M16x060	BM-M16-SN	BM-M16-SW
Book - 52S/SV	20,7	45.7	CCS7-702	M16x60	CCS7-751	BM-M16x060	BM-M16-SN	BM-M16-SW

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

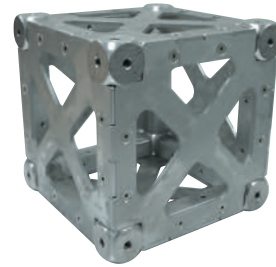
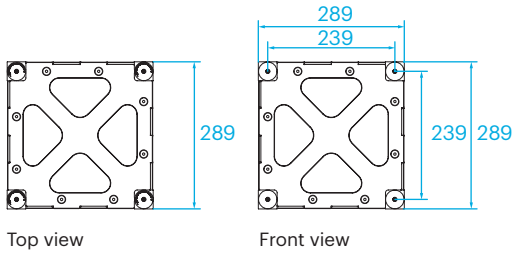


Heavy Duty Box Corner is a fully plated and bolted element and therefore is much stronger than the regular box corner. This allows you to build any 2D or 3D structures without losing involuntary strength due to the corner types used.

Due to its clever design, where the plated sides interlock with each other, the exact 90-degree shape is guaranteed. In combination with the narrow tolerances, this box corner is suitable to use in combination with the Verto truss as well. Furthermore, the plates can easily be changed in case of damages, offering an efficient and cost effective solution.

BOX-30V-HD-0

Heavy duty box corner for 30V truss.

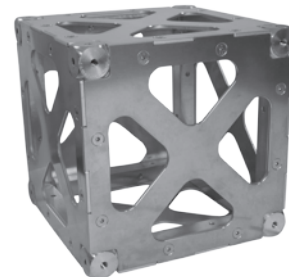
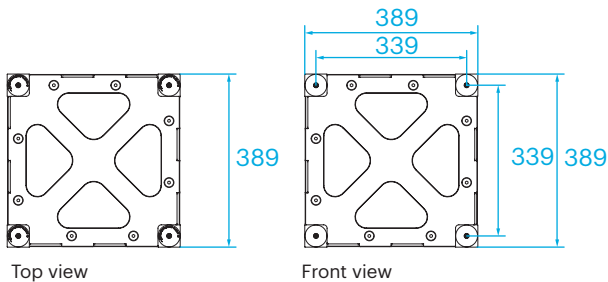


Technical Specifications Boxcorner 30V HD

Alloy	EN-AW6082T6
Bolts	Grade 8.8
Self weight	12.5 kg

BOX-40V-HD-0

Heavy duty box corner for 40V truss.

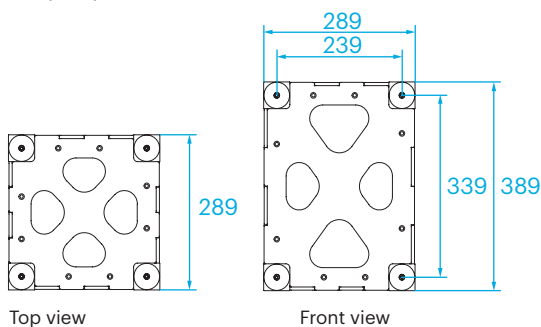


Technical Specifications Boxcorner 40V HD

Alloy	EN-AW6082T6
Bolts	Grade 8.8
Self weight	24.5 kg

BOX-40R-HD-0

Heavy duty box corner for 40R truss.



Technical Specifications Boxcorner 40R HD

Alloy	EN-AW6082T6
Bolts	Grade 8.8
Self weight	18.5 kg

In horizontal direction the boxcorner takes the H40R truss and in vertical direction the boxcorner takes the H30V truss.