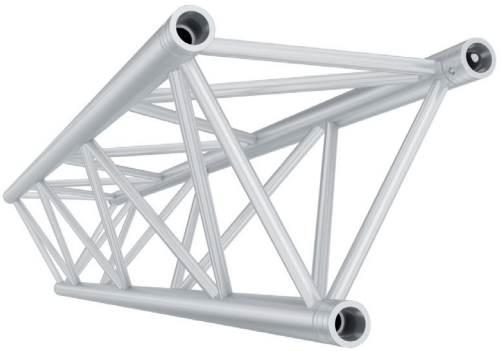
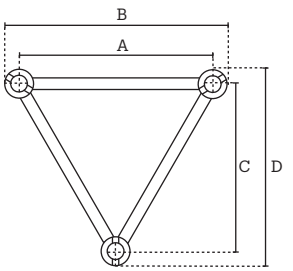
JT40H TRIO

- High quality 48 mm (1 7/8") heavy-duty aluminium tubes
- Conical connectors for quick, simple and secure assembly
- Extended free-span (up to 20 m / 65') and loading characteristics
- Custom lengths, junctions and curves available
- Compatible with JTCELL200 / 400 / 500 / 600 series cell clamps
- Compatible with Xtruss accessories
- Powder coat colour finish available on request





Code:		3CF40H
Main Chords:	mm / in	**48x3** (1 7/8"x7/64")
Diagonals:	mm / in	**20x2**(25/32"x5/34")
Alloy:		**EN-AW 6082 T6**
A	mm / in	**339** (13 3/8")
B	mm / in	**387** (15 17/64")
C	mm / in	**394** (15 1/2")
D	mm / in	**294** (13 29/64")
Coupler:		**CCF**

Standard lengths and weights

Code	3CF40H-L500	3CF40H-L1000	3CF40H-L1500	3CF40H-L2000	3CF40H-L2500	3CF40H-L3000	3CF40H-L4000	3CF40H-L5000
m / ft	**0.50** (1' 8")	**1.00** (3' 3")	**1.50** (4' 11")	**2.00** (6' 7")	**2.50** (8' 2")	**3.00** (9' 10")	**4.00** (13' 1")	**5.00** (16' 5")
kg / lbs	**3.1** (6.84)	**5.5** (12.13)	**7.7** (16.98)	**10.1** (22.27)	**12.3** (27.12)	**14.6** (32.19)	**19.2** (42.34)	**23.8** (52.48)

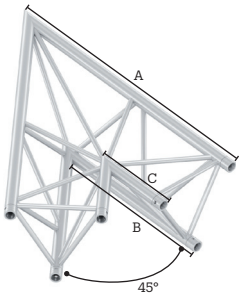
Loading chart

Span	Uniformly Distributed load		Centre Point load		Third Point load		Quarter Point load		5th Point load	
m	kg/m	mm	kg	mm	kg (2x)	mm	kg (3x)	mm	kg (4x)	mm
4	443,9	8,5	922	7,1	662	8,6	486	8,8	393	9,1
5	315,1	14,8	748	11,3	543	13,9	386	13,8	315	14,3
6	216,8	21,3	624	16,5	459	20,5	322	20,1	263	20,9
7	157,6	29,1	535	22,8	393	28,3	275,8	27,7	225	28,7
8	119,2	38	462	30	343	37,3	238,3	36,2	195	37,6
9	92,8	48,2	409	38,5	304	47,8	208,8	46	174	48,5
10	73,9	59,6	362	47,9	272	59,7	184,9	56,9	154,1	60
12	49,4	86,1	296,3	71,1	222,3	87,8	148,2	82,4	123,5	86,7
14	34,6	117,8	242,1	98,3	181,6	120	121	112,9	100,9	118,6
16	25	154,6	199,8	130,6	149,8	157,3	99,9	148,6	83,2	155,6

Span	Uniformly Distributed load		Centre Point load		Third Point load		Quarter Point load		5th Point load	
ft	lbs/ft	in	lbs	in	lbs (2x)	in	lbs (3x)	in	lbs (4x)	in
13' 1"	298,28	21/64"	619,55	17/64"	444,84	21/64"	326,57	11/32"	264,08	11/32"
16' 5"	211,74	37/64"	502,63	7/16"	364,88	35/64"	259,38	17/32"	211,67	9/16"
19' 8"	145,68	53/64"	419,30	41/64"	308,43	51/64"	216,37	25/32"	176,73	13/16"
22' 12"	105,90	1 9/64"	359,50	57/64"	264,08	1 7/64"	185,33	1 5/64"	151,19	1 1/8"
26' 3"	80,10	1 31/64"	310,45	1 11/64"	230,48	1 29/64"	160,13	1 27/64"	131,03	1 15/32"
29' 6"	62,36	1 57/64"	274,83	1 33/64"	204,28	1 7/8"	140,31	1 51/64"	116,92	1 29/32"
32' 10"	49,66	2 11/32"	243,25	1 7/8"	182,77	2 11/32"	124,25	2 15/64"	103,55	2 23/64"
39' 4"	33,19	3 3/8"	199,10	2 51/64"	149,38	3 29/64"	99,58	3 15/64"	82,99	3 13/32"
45' 11'	23,25	4 5/8"	162,68	3 55/64"	122,03	4 23/32"	81,31	4 7/16"	67,80	4 21/32"
52' 6"	16,80	6 5/64"	134,26	5 9/64"	100,66	6 3/16"	67,13	5 27/32"	55,91	6 1/8"

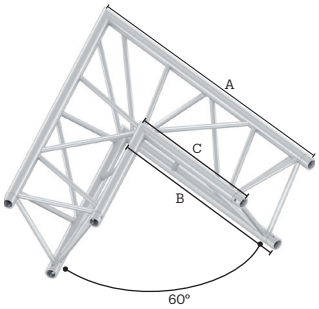
TRIO figures are based on use in apex up/down orientation

All truss loading calculations and TUV certifications are based on:
Truss supported or suspended at both ends • Static loadings only • Loads applies in the node points • Self-weight of the truss included • Spans made of different truss lengths • Interaction of bending moment and shear force at connector is considered • Structural calculations are based on EN 1991, EN 1993 and EN 1999 • All loading data should be multiplied by 0.85 to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2 / prEN 17115 • For any other application, or in case of an assembled structure contact JTE or a structural engineer • Included safety factors: self-weight 1.35 / loading 1.50



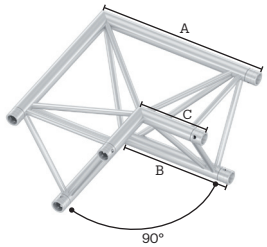
2 way corner 45°

Code	kg	lbs	mm	in
3CF40H-J19	7.7	(16.98)	A 1200	(47 15/64")
			B 674	(26 17/32")
			C 263	(10 11/32")



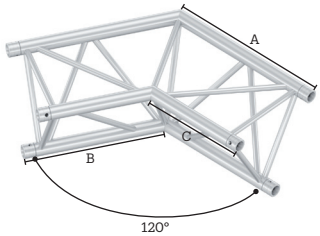
2 way corner 60°

Code	kg	lbs	mm	in
3CF40H-J20	9.0	(19.85)	A 1200	(47 15/64")
			B 822	(32 23/64")
			C 528	(20 25/32")



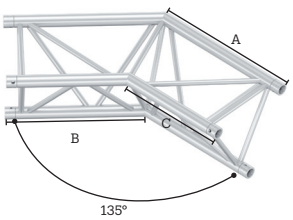
2 way corner 90°

Code	kg	lbs	mm	in
3CF40H-J21	4.8	(10.58)	A 600	(23 39/64")
			B 382	(15 1/32")
			C 212	(8 11/32")



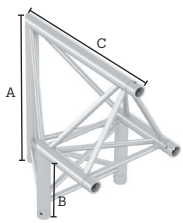
2 way corner 120°

Code	kg	lbs	mm	in
3CF40H-J22	5.6	(12.35)	A 600	(23 39/64")
			B 474	(18 21/32")
			C 376	(14 51/64")



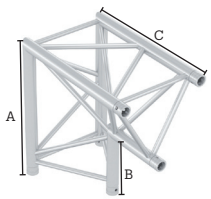
2 way corner 135°

Code	kg	lbs	mm	in
3CF40H-J23	6.0	(13.23)	A 600	(23 39/64")
			B 510	(20 5/64")
			B 439	(17 9/32")



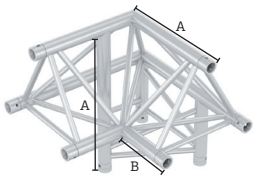
2 way corner 90° apex out

Code	kg	lbs	mm	in
3CF40H-J24	4.6	(10.14)	A 600	(23 39/64")
			B 258	(10 5/32")



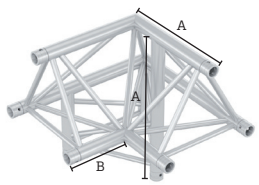
2 way corner 90° apex in

Code	kg	lbs	mm	in
3CF40H-J25	5.5	(12.13)	A 600	(23 39/64")
			B 258	(10 5/32")



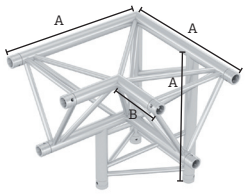
3 way corner 90° apex up right

Code	kg	lbs	mm	in
3CF40H-J31	6.8	(14.99)	A 600	(23 39/64")
			B 212	(8 11/32")



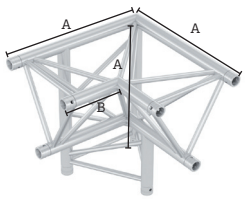
3 way corner 90° apex up left

Code	kg	lbs	mm	in
3CF40H-J32	6.8	(14.99)	A 600	(23 39/64")
			B 212	(8 11/32")



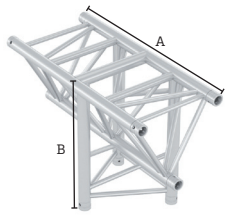
3 way corner 90° apex down right

Code	kg	lbs	mm	in
3CF40H-J33	7.3	(16.10)	A 600	(23 39/64")
			B 212	(8 11/32")



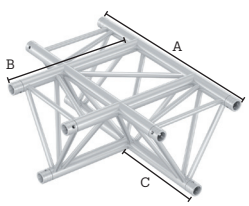
3 way corner 90° apex down left

Code	kg	lbs	mm	in
3CF40H-J34	7.3	(16.10)	A 600	(23 39/64")
			B 212	(8 11/32")



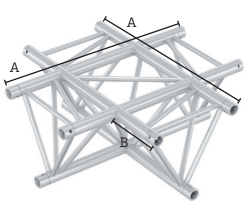
3 way vertical T-piece apex down

Code	kg	lbs	mm	in
3CF40H-J35	8.4	(18.52)	A 810	(31 7/8")
			B 600	(23 39/64")
			C 258	(10 5/32")



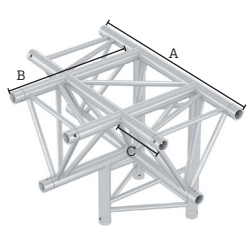
3 way horizontal T-piece

Code	kg	lbs	mm	in
3CF40H-J36	7.3	(16.10)	A 810	(31 7/8")
			B 600	(23 39/64")
			C 382	(15 1/32")



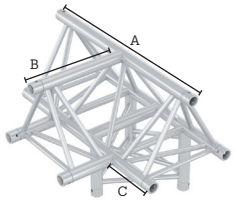
4 way cross piece

Code	kg	lbs	mm	in
3CF40H-J41	9.1	(20.07)	A 810	(31 7/8")
			B 212	(8 11/32")



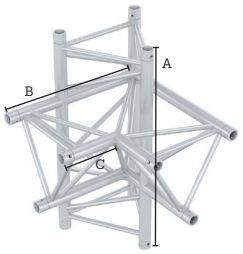
4 way T-piece apex down

Code	kg	lbs	mm	in
3CF40H-J42	9.8	(21.61)	A 810	(31 7/8")
			B 600	(23 39/64")
			C 382	(15 1/32")



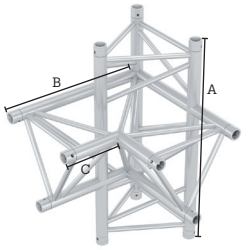
4 way T-piece apex up

Code	kg	lbs	mm	in
3CF40H-J43	9.0	(19.85)	A 810	(31 7/8")
			B 600	(23 39/64")
			C 212	(8 11/32")



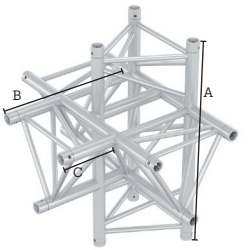
4 way corner 90° right

Code	kg	lbs	mm	in
3CF40H-J44	9.3 (20.51)		A 855 (33 21/32")	
			B 600 (23 39/64")	
			C 382 (15 1/32")	



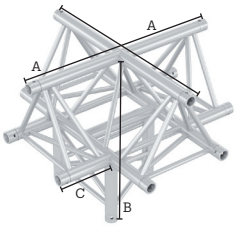
4 way corner 90° left

Code	kg	lbs	mm	in
3CF40H-J45	9.3 (20.51)		A 855 (33 21/32")	
			B 600 (23 39/64")	
			C 382 (15 1/32")	



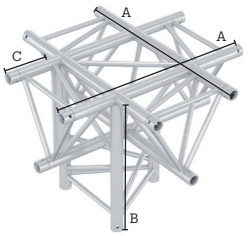
5 way T-piece

Code	kg	lbs	mm	in
3CF40H-J51	11.8 (26.02)		A 855 (33 21/32")	
			B 600 (23 39/64")	
			C 810 (31 7/8")	



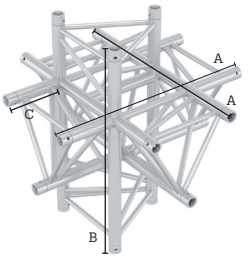
5 way cross down leg apex up

Code	kg	lbs	mm	in
3CF40H-J52	10.7 (23.59)		A 810 (31 7/8")	
			B 600 (23 39/64")	
			C 212 (8 11/32")	



5 way cross down leg apex down

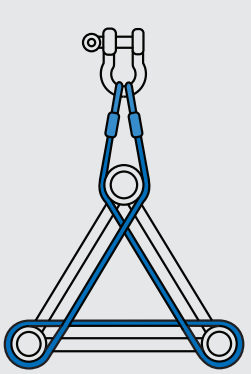
Code	kg	lbs	mm	in
3CF40H-J53	11.6 (25.58)		A 810 (31 7/8")	
			B 600 (23 39/64")	
			C 212 (8 11/32")	

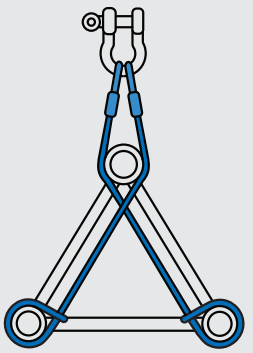


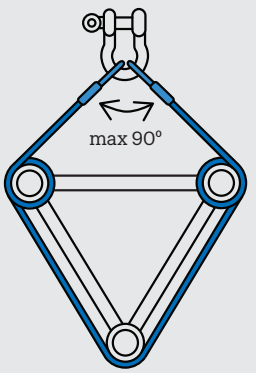
6 way T-piece

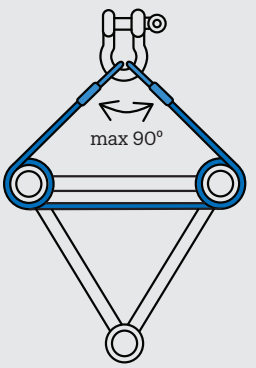
Code	kg	lbs	mm	in
3CF40H-J61	13.5 (29.77)		A 810 (31 7/8")	
			B 855 (33 21/32")	
			C 212 (8 11/32")	

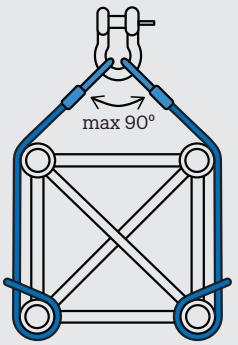
Recommended slinging methods

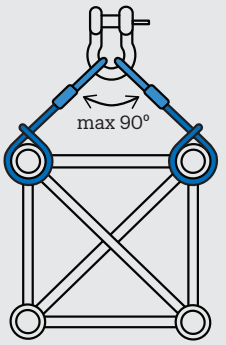












CAUTION

Duo truss need very special attention for slinging. Stabilisation of the top chord is vital for the load capacity. Only the bottom chord should be loaded. Other load applications need structural analysis before use.