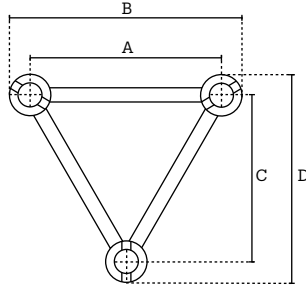


# JT30H TRIO

- High quality 48 mm (1 7/8") heavy-duty aluminium tubes
- Versatile system widely used for PA Towers, Rigging Towers and Roofs
- Conical connectors for quick, simple and secure assembly
- Anti-twist end brace for extreme durability
- Extended free-span (up to 20 m / 65') and loading characteristics
- Compatible with JTCELL200 / 400 / 500 / 600 series cell clamps
- Compatible with Xtruss accessories
- Powder coat colour finish available on request



Code:	<b>3CF30H</b>	
Main Chords:	mm in	<b>48x3 (1 7/8"x7/64")</b>
Diagonals:	mm in	<b>16x2 (5/8"x3/32")</b>
Alloy:	<b>EN-AW-6082 T6</b>	
A	mm in	<b>239 (9 7/16")</b>
B	mm in	<b>287 (11 21/64")</b>
C	mm in	<b>207 (8 9/64")</b>
D	mm in	<b>255 (10 1/32")</b>
Coupler:	<b>CCF</b>	

## Standard lengths and weights

Code	3CF30H-L500	3CF30H-L1000	3CF30H-L1500	3CF30H-L2000	3CF30H-L2500	3CF30H-L3000	3CF30H-L4000	3CF30H-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	2.8 (6.17)	5.0 (11.03)	7.1 (15.66)	9.2 (20.29)	11.3 (24.92)	13.4 (29.55)	17.7 (39.03)	21.9 (48.29)

## Loading chart

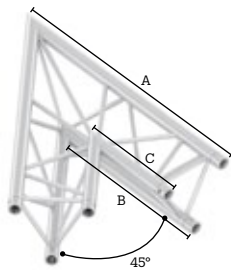
Span m	Uniformly Distributed load		Centre Point load		Third Point load		Quarter Point load		5th Point load	
	kg/m	mm	kg	mm	kg (2x)	mm	kg (3x)	mm	kg (4x)	mm
3	494.6	5.9	881	5.6	632	6.9	459	6.9	371	7.1
4	348.7	13.2	669	10.2	486	12.6	348.7	12.6	282	12.9
5	221	20.7	536	16.2	394	20.1	276.3	19.7	226	20.5
6	151.7	29.9	446	23.7	328	29.3	227.5	28.4	189.6	30.1
7	109.8	40.7	377	32.4	280	40.4	192.2	38.8	160.2	41
8	82.7	53.2	330.8	43.4	243	53.3	165.4	50.8	137.8	53.6
9	64.1	67.5	288.4	55.3	216.3	68.9	144.2	64.5	120.2	68
10	50.8	83.5	253.9	68.8	190.4	85.2	127	79.9	105.8	84.1
12	33.4	120.9	200.7	100.7	150.5	123.2	100.3	115.9	83.6	121.7
14	23	165.6	160.9	139.9	120.7	168.4	80.5	159.1	67	166.6

Span ft	Uniformly Distributed load		Centre Point load		Third Point load		Quarter Point load		5th Point load	
	lbs/ft	in	lbs	in	lbs (2x)	in	lbs (3x)	in	lbs (4x)	in
9' 10"	332.35	7/32"	592.00	7/32"	424.68	17/64"	308.43	17/64"	249.30	17/64"
13' 1"	234.31	33/64"	449.54	25/64"	326.57	31/64"	234.31	31/64"	189.49	1/2"
16' 5"	148.50	13/16"	360.17	5/8"	264.75	25/32"	185.66	49/64"	151.86	51/64"
19' 8"	101.94	1 11/64"	299.70	59/64"	220.40	1 9/64"	152.87	1 7/64"	127.40	1 11/64"
22' 12"	73.78	1 19/32"	253.33	1 17/64"	188.15	1 37/64"	129.15	1 33/64"	107.65	1 39/64"
26' 3"	55.57	2 3/32"	222.29	1 45/64"	163.29	2 3/32"	111.14	2"	92.60	2 7/64"
29' 6"	43.07	2 21/32"	193.79	2 11/64"	145.35	2 45/64"	96.90	2 17/32"	80.77	2 43/64"
32' 10"	34.14	3 9/32"	170.61	2 45/64"	127.94	3 11/32"	85.34	3 9/64"	71.09	3 19/64"
39' 4"	22.44	4 3/4"	134.86	3 61/64"	101.13	4 27/32"	67.40	4 9/16"	56.18	4 25/32"
45' 11"	15.46	6 33/64"	108.12	5 1/2"	81.11	6 5/8"	54.09	6 1/4"	45.02	6 35/64"

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

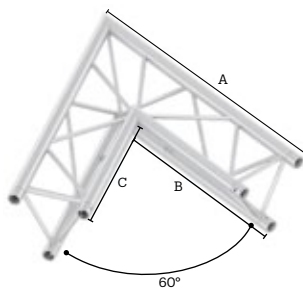
### All truss loading calculations and TUV certifications are based on:

Truss supported or suspended at both ends • Static loadings only • Loads applied 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



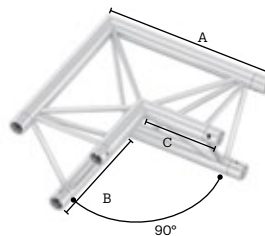
2 way corner 45°

Code	kg	lbs	mm	in
<b>3CF30H-J19</b>	<b>6.4</b>	(14.11)	<b>A 1000</b>	(39 23/64")
			<b>B 590</b>	(23 7/32")
			<b>C 300</b>	(11 51/64")



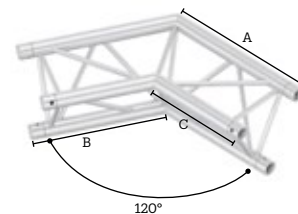
2 way corner 60°

Code	kg	lbs	mm	in
<b>3CF30H-J20</b>	<b>7.1</b>	(15.66)	<b>A 1000</b>	(39 23/64")
			<b>B 706</b>	(27 25/32")
			<b>C 498</b>	(19 19/32")



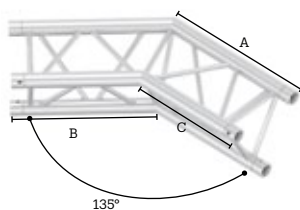
2 way corner 90°

Code	kg	lbs	mm	in
<b>3CF30H-J21</b>	<b>3.7</b>	(8.16)	<b>A 500</b>	(19 43/64")
			<b>B 330</b>	(12 63/64")
			<b>C 210</b>	(8 17/64")



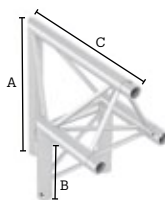
2 way corner 120°

Code	kg	lbs	mm	in
<b>3CF30H-J22</b>	<b>4.3</b>	(9.48)	<b>A 500</b>	(19 43/64")
			<b>B 402</b>	(15 13/16")
			<b>C 333</b>	(13 7/64")



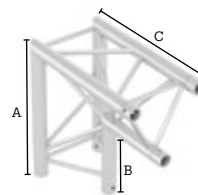
2 way corner 135°

Code	kg	lbs	mm	in
<b>3CF30H-J23</b>	<b>4.6</b>	(10.14)	<b>A 500</b>	(19 43/64")
			<b>B 430</b>	(16 59/64")
			<b>380</b>	(14 61/64")



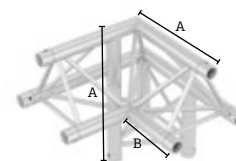
2 way corner 90° apex out

Code	kg	lbs	mm	in
<b>3CF30H-J24</b>	<b>3.6</b>	(7.94)	<b>A 500</b>	(19 43/64")
			<b>B 242</b>	(9 33/64")
			<b>C 500</b>	(19 43/64")



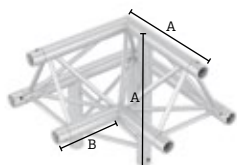
2 way corner 90° apex in

Code	kg	lbs	mm	in
<b>3CF30H-J25</b>	<b>4.2</b>	(9.26)	<b>A 500</b>	(19 43/64")
			<b>B 242</b>	(9 33/64")
			<b>C 500</b>	(19 43/64")



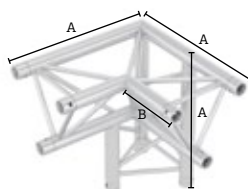
3 way corner 90° apex up right

Code	kg	lbs	mm	in
<b>3CF30H-J31</b>	<b>5.4</b>	(11.91)	<b>A 500</b>	(19 43/64")
			<b>B 210</b>	(8 17/64")



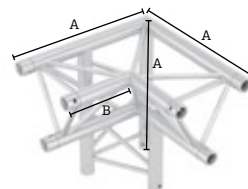
3 way corner 90° apex up left

Code	kg	lbs	mm	in
<b>3CF30H-J32</b>	<b>5.4</b>	(11.91)	<b>A 500</b>	(19 43/64")
			<b>B 210</b>	(8 17/64")



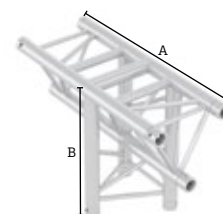
3 way corner 90° apex down right

Code	kg	lbs	mm	in
<b>3CF30H-J33</b>	<b>5.7</b>	(12.57)	<b>A 500</b>	(19 43/64")
			<b>B 210</b>	(8 17/64")



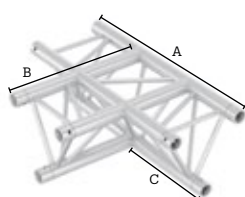
3 way corner 90° apex down left

Code	kg	lbs	mm	in
<b>3CF30H-J34</b>	<b>5.7</b>	(12.57)	<b>A 500</b>	(19 43/64")
			<b>B 210</b>	(8 17/64")



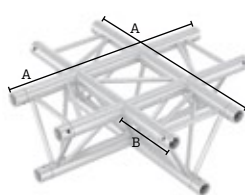
3 way vertical T-piece apex down

Code	kg	lbs	mm	in
<b>3CF30H-J35</b>	<b>6.4</b>	(14.11)	<b>A 710</b>	(27 15/16")
			<b>B 500</b>	(19 43/64")
			<b>C 242</b>	(9 33/64")



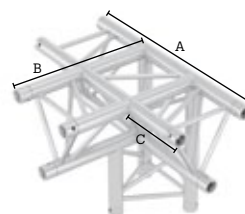
3 way horizontal T-piece

Code	kg	lbs	mm	in
<b>3CF30H-J36</b>	<b>5.7</b>	(12.57)	<b>A 710</b>	(27 15/16")
			<b>B 500</b>	(19 43/64")
			<b>C 330</b>	(12 63/64")



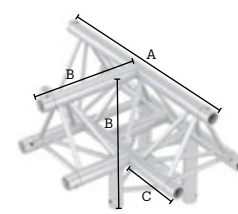
4 way cross piece

Code	kg	lbs	mm	in
<b>3CF30H-J41</b>	<b>7.1</b>	(15.66)	<b>A 710</b>	(27 15/16")
			<b>B 210</b>	(8 17/64")



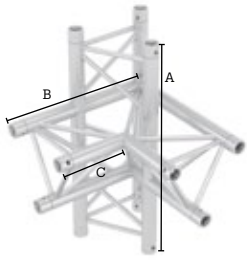
4 way T-piece apex down

Code	kg	lbs	mm	in
<b>3CF30H-J42</b>	<b>7.6</b>	(16.76)	<b>A 710</b>	(27 15/16")
			<b>B 500</b>	(19 43/64")
			<b>C 330</b>	(12 63/64")



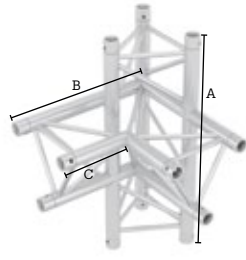
4 way T-piece apex up

Code	kg	lbs	mm	in
<b>3CF30H-J43</b>	<b>7.0</b>	(15.44)	<b>A 710</b>	(27 15/16")
			<b>B 500</b>	(19 43/64")
			<b>C 210</b>	(8 17/64")



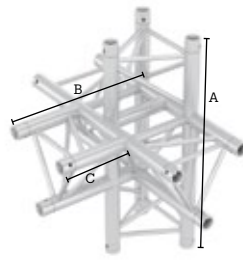
4 way corner 90° right

Code	kg	lbs	mm	in
<b>3CF30H-J44</b>	<b>7.3</b>	<b>(16.10)</b>	<b>A 742</b>	<b>(29 13/64")</b>
			<b>B 500</b>	<b>(19 43/64")</b>
			<b>C 330</b>	<b>(12 63/64")</b>



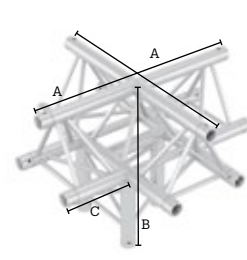
4 way corner 90° left

Code	kg	lbs	mm	in
<b>3CF30H-J45</b>	<b>7.3</b>	<b>(16.10)</b>	<b>A 742</b>	<b>(29 13/64")</b>
			<b>B 500</b>	<b>(19 43/64")</b>
			<b>C 330</b>	<b>(12 63/64")</b>



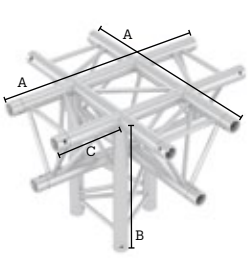
5 way T-piece

Code	kg	lbs	mm	in
<b>3CF30H-J51</b>	<b>9.2</b>	<b>(20.29)</b>	<b>A 742</b>	<b>(29 13/64")</b>
			<b>B 500</b>	<b>(19 43/64")</b>
			<b>C 710</b>	<b>(27 15/16")</b>



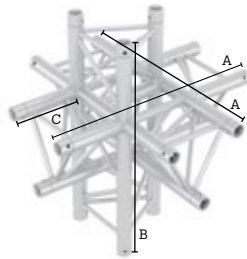
5 way cross down leg apex up

Code	kg	lbs	mm	in
<b>3CF30H-J52</b>	<b>8.5</b>	<b>(18.74)</b>	<b>A 710</b>	<b>(27 15/16")</b>
			<b>B 500</b>	<b>(19 43/64")</b>
			<b>C 210</b>	<b>(8 17/64")</b>



5 way cross down leg apex down

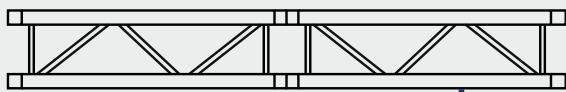
Code	kg	lbs	mm	in
<b>3CF30H-J53</b>	<b>9.0</b>	<b>(19.85)</b>	<b>A 710</b>	<b>(27 15/16")</b>
			<b>B 500</b>	<b>(19 43/64")</b>
			<b>C 210</b>	<b>(8 17/64")</b>



6 way T-piece

Code	kg	lbs	mm	in
<b>3CF30H-J61</b>	<b>10.6</b>	<b>(23.37)</b>	<b>A 710</b>	<b>(27 15/16")</b>
			<b>B 742</b>	<b>(29 13/64")</b>
			<b>C 210</b>	<b>(8 17/64")</b>

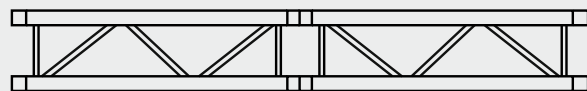
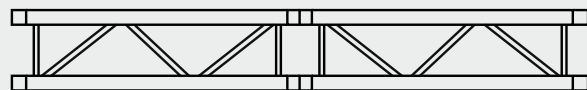
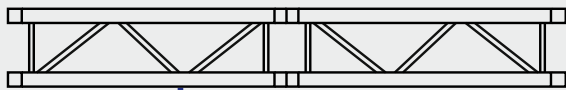
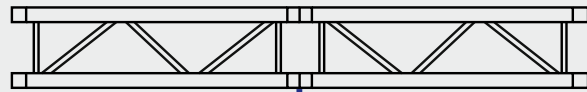
## Attaching loads



To be checked by an engineer!



Attaching loads near the coupler should be done as shown below:



Always take extreme care when attaching loads to truss. Incorrect attachment points and truss orientation can have extremely dangerous consequences. Ensure the attachments you make on each truss format - quatro, trio or duo - observe safe practices.

