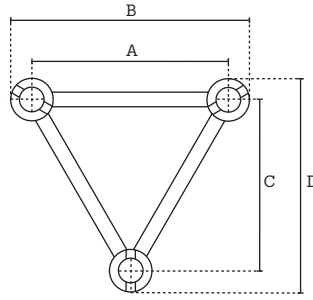
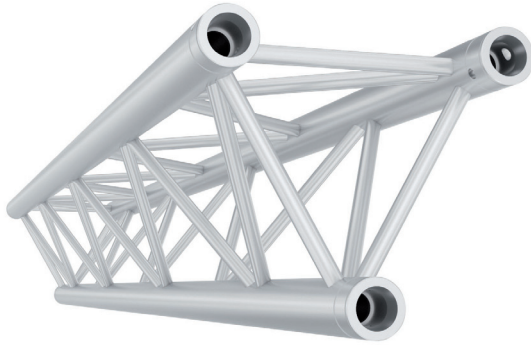


# JT30 TRIO

- High quality 50 mm (2") aluminium tubes
- 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>3CF30</b>	
Main Chords:	mm in	<b>50x2 (2"x3/32")</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>289 (11 3/8")</b>
C	mm in	<b>207 (8 9/64")</b>
D	mm in	<b>257 (10 7/64")</b>
Coupler:	<b>CCF</b>	

## Standard lengths and weights

Code	<b>3CF30-L500</b>	<b>3CF30-L1000</b>	<b>3CF30-L1500</b>	<b>3CF30-L2000</b>	<b>3CF30-L2500</b>	<b>3CF30-L3000</b>	<b>3CF30-L4000</b>	<b>3CF30-L5000</b>
m ft	<b>0.50 (1' 8")</b>	<b>1.00 (3' 3")</b>	<b>1.50 (4' 11")</b>	<b>2.00 (6' 7")</b>	<b>2.50 (8' 2")</b>	<b>3.00 (9' 10")</b>	<b>4.00 (13' 1")</b>	<b>5.00 (16' 5")</b>
kg lbs	<b>2.6 (5.73)</b>	<b>4.2 (9.26)</b>	<b>5.8 (12.79)</b>	<b>7.4 (16.32)</b>	<b>9.0 (19.85)</b>	<b>10.6 (23.37)</b>	<b>13.9 (30.65)</b>	<b>17.1 (37.71)</b>

## Loading chart

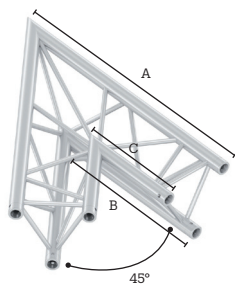
Span m	Uniformly Distributed load		Centre Point load		Third Point load		Quarter Point load		5th Point load	
	kg/m	mm	kg	mm	kg (2x)	mm	kg (3x)	mm	kg (4x)	mm
3	444.7	7.4	620	5.5	445	6.8	327	6.9	264	7.1
4	248.5	13.2	472	10.1	343	12.4	244	12.3	201	12.9
5	157.7	20.6	383	16.1	281	20	197.2	19.6	161	20.4
6	108.4	29.7	315	23.3	234	29.2	162.6	28.3	135.5	30
7	78.7	40.5	270	32.2	200	40.2	137.7	38.6	114.7	40.8
8	59.4	53	237.5	43.1	175	53.1	118.8	50.5	99	53.4
9	46.1	67.2	207.7	54.9	155.7	68.6	103.8	64.1	86.5	67.7
10	36.7	83.1	183.4	68.2	137.6	84.8	91.7	79.4	76.4	83.7
11	29.7	100.8	163.2	83.1	122.4	102.8	81.6	96.4	68	101.5
12	24.4	120.2	146.1	99.6	109.6	122.5	73.1	115.1	60.9	121.1

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"	298.82	9/32"	416.62	13/64"	299.02	17/64"	219.73	17/64"	177.40	17/64"
13' 1"	166.98	33/64"	317.17	25/64"	230.48	31/64"	163.96	15/32"	135.06	1/2"
16' 5"	105.97	51/64"	257.36	5/8"	188.82	25/32"	132.51	49/64"	108.19	51/64"
19' 8"	72.84	1 5/32"	211.67	29/32"	157.24	1 9/64"	109.26	1 7/64"	91.05	1 11/64"
22' 12"	52.88	1 19/32"	181.43	1 17/64"	134.39	1 37/64"	92.53	1 33/64"	77.07	1 19/32"
26' 3"	39.91	2 5/64"	159.59	1 11/16"	117.59	2 5/64"	79.83	1 63/64"	66.52	2 3/32"
29' 6"	30.98	2 41/64"	139.57	2 5/32"	104.62	2 11/16"	69.75	2 33/64"	58.12	2 21/32"
32' 10"	24.66	3 17/64"	123.24	2 43/64"	92.46	3 21/64"	61.62	3 1/8"	51.34	3 9/32"
36' 1"	19.96	3 61/64"	109.66	3 17/64"	82.25	4 3/64"	54.83	3 25/32"	45.69	3 63/64"
39' 4"	16.40	4 23/32"	98.17	3 29/32"	73.65	4 13/16"	49.12	4 17/32"	40.92	4 49/64"

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

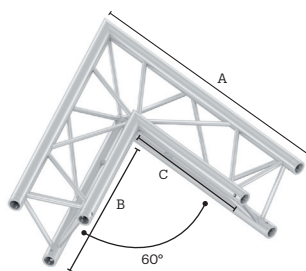
### All truss loading calculations and TUV certifications are based on:

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



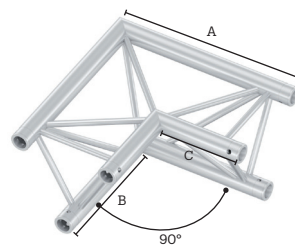
2 way corner 45°

Code	kg	lbs	mm	in
<b>3CF30-J19</b>	<b>5.3</b>	<b>(11.69)</b>	<b>A 1000</b>	<b>(39 23/64")</b>
			<b>B 590</b>	<b>(23 7/32")</b>
			<b>C 300</b>	<b>(11 51/64")</b>



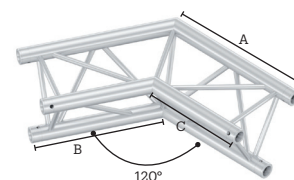
2 way corner 60°

Code	kg	lbs	mm	in
<b>3CF30-J20</b>	<b>5.8</b>	<b>(12.79)</b>	<b>A 1000</b>	<b>(39 23/64")</b>
			<b>B 706</b>	<b>(27 25/32")</b>
			<b>C 498</b>	<b>(19 19/32")</b>



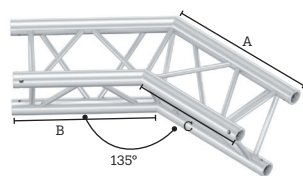
2 way corner 90°

Code	kg	lbs	mm	in
<b>3CF30-J21</b>	<b>3.3</b>	<b>(7.28)</b>	<b>A 500</b>	<b>(19 43/64")</b>
			<b>B 330</b>	<b>(12 63/64")</b>
			<b>C 210</b>	<b>(8 17/64")</b>



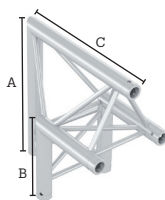
2 way corner 120°

Code	kg	lbs	mm	in
<b>3CF30-J22</b>	<b>3.7</b>	<b>(8.16)</b>	<b>A 500</b>	<b>(19 43/64")</b>
			<b>B 402</b>	<b>(15 13/16")</b>
			<b>C 333</b>	<b>(13 7/64")</b>



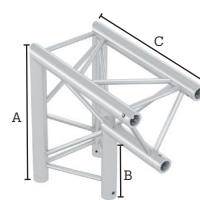
2 way corner 135°

Code	kg	lbs	mm	in
<b>3CF30-J23</b>	<b>3.9</b>	<b>(8.60)</b>	<b>A 500</b>	<b>(19 43/64")</b>
			<b>B 430</b>	<b>(16 59/64")</b>
			<b>C 380</b>	<b>(14 61/64")</b>



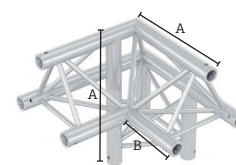
2 way corner 90° apex out

Code	kg	lbs	mm	in
<b>3CF30-J24</b>	<b>3.1</b>	<b>(6.84)</b>	<b>A 500</b>	<b>(19 43/64")</b>
			<b>B 242</b>	<b>(9 33/64")</b>
			<b>C 500</b>	<b>(19 43/64")</b>



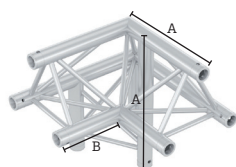
2 way corner 90° apex in

Code	kg	lbs	mm	in
<b>3CF30-J25</b>	<b>3.6</b>	<b>(7.94)</b>	<b>A 500</b>	<b>(19 43/64")</b>
			<b>B 242</b>	<b>(9 33/64")</b>
			<b>C 500</b>	<b>(19 43/64")</b>



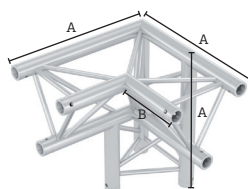
3 way corner 90° apex up right

Code	kg	lbs	mm	in
<b>3CF30-J31</b>	<b>4.7</b>	<b>(10.36)</b>	<b>A 500</b>	<b>(19 43/64")</b>
			<b>B 210</b>	<b>(8 17/64")</b>



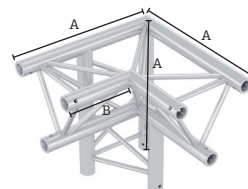
3 way corner 90° apex up left

Code	kg	lbs	mm	in
<b>3CF30-J32</b>	<b>4.7</b>	<b>(10.36)</b>	<b>A 500</b>	<b>(19 43/64")</b>
			<b>B 210</b>	<b>(8 17/64")</b>



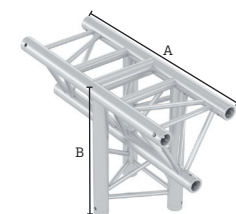
3 way corner 90° apex down right

Code	kg	lbs	mm	in
<b>3CF30-J33</b>	<b>4.9</b>	<b>(10.80)</b>	<b>A 500</b>	<b>(19 43/64")</b>
			<b>B 210</b>	<b>(8 17/64")</b>



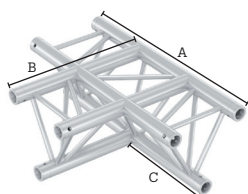
3 way corner 90° apex down left

Code	kg	lbs	mm	in
<b>3CF30-J34</b>	<b>4.9</b>	<b>(10.80)</b>	<b>A 500</b>	<b>(19 43/64")</b>
			<b>B 210</b>	<b>(8 17/64")</b>



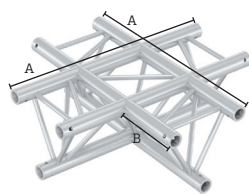
3 way vertical T-piece apex down

Code	kg	lbs	mm	in
<b>3CF30-J35</b>	<b>5.5</b>	<b>(12.13)</b>	<b>A 710</b>	<b>(27 15/16")</b>
			<b>B 500</b>	<b>(19 43/64")</b>



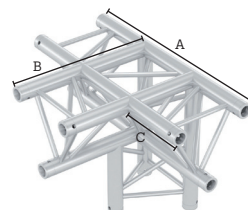
3 way horizontal T-piece

Code	kg	lbs	mm	in
<b>3CF30-J36</b>	<b>4.9</b>	<b>(10.80)</b>	<b>A 710</b>	<b>(27 15/16")</b>
			<b>B 500</b>	<b>(19 43/64")</b>
			<b>C 330</b>	<b>(12 63/64")</b>



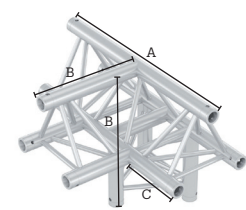
4 way cross piece

Code	kg	lbs	mm	in
<b>3CF30-J41</b>	<b>6.2</b>	<b>(13.67)</b>	<b>A 710</b>	<b>(27 15/16")</b>
			<b>B 210</b>	<b>(8 17/64")</b>



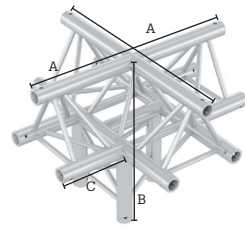
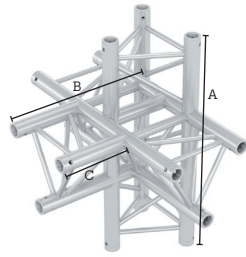
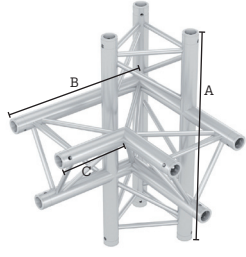
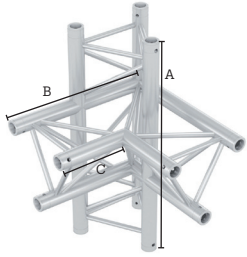
4 way T-piece apex down

Code	kg	lbs	mm	in
<b>3CF30-J42</b>	<b>6.5</b>	<b>(14.33)</b>	<b>A 710</b>	<b>(27 15/16")</b>
			<b>B 500</b>	<b>(19 43/64")</b>
			<b>C 330</b>	<b>(12 63/64")</b>



4 way T-piece apex up

Code	kg	lbs	mm	in
<b>3CF30-J43</b>	<b>6.2</b>	<b>(13.67)</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>



4 way corner 90° right

Code	kg	lbs	mm	in
<b>3CF30-J44</b>	<b>6.4</b>	<b>(14.11)</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

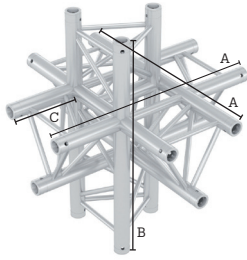
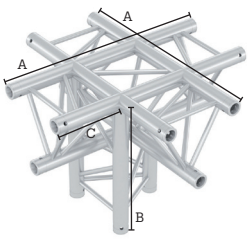
Code	kg	lbs	mm	in
<b>3CF30-J45</b>	<b>6.4</b>	<b>(14.11)</b>	<b>A 742</b>	<b>(29 13/64")</b>
			<b>B 500</b>	<b>(19 43/64")</b>
			<b>C 330</b>	<b>(12 63/64")</b>

5 way T-piece

Code	kg	lbs	mm	in
<b>3CF30-J51</b>	<b>8.0</b>	<b>(17.64)</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>3CF30-J52</b>	<b>7.5</b>	<b>(16.54)</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>



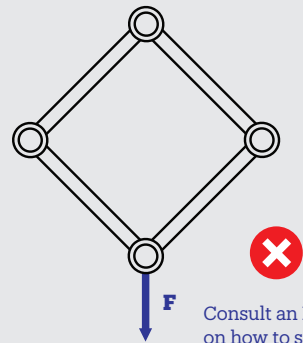
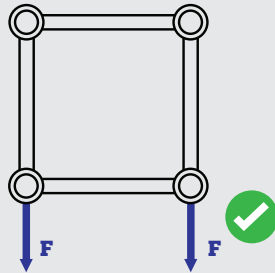
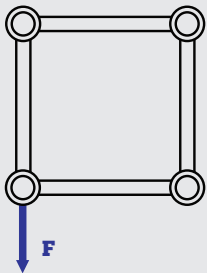
5 way cross down leg apex down

Code	kg	lbs	mm	in
<b>3CF30-J53</b>	<b>7.8</b>	<b>(17.20)</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>

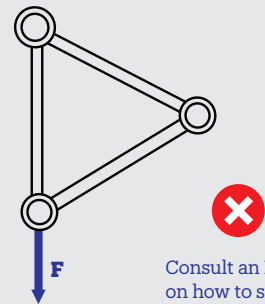
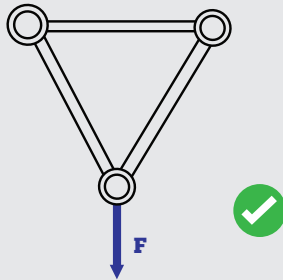
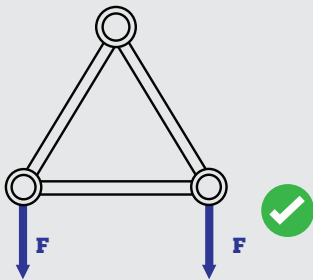
6 way T-piece

Code	kg	lbs	mm	in
<b>3CF30-J61</b>	<b>9.3</b>	<b>(20.51)</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



Consult an Engineer on how to safely use this configuration.



Consult an Engineer on how to safely use this configuration.

Make sure:  
Loads are equally divided over both bottom or top chords. Loading truss on one side lead to internal torsional forces which are not considered in the data provided.

