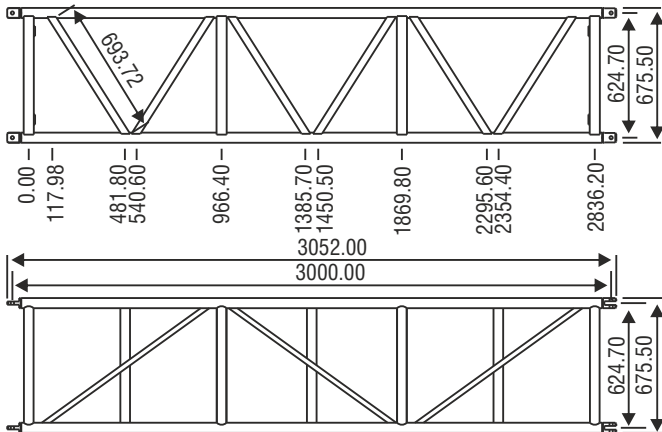
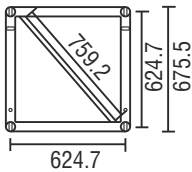
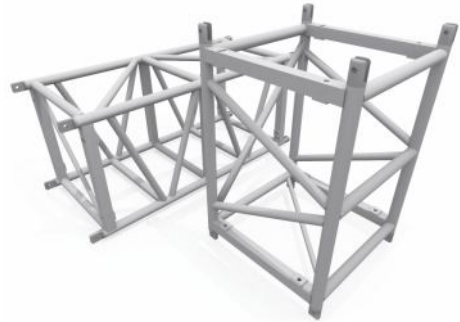


## TFL Serious Truss Extra Heavy Duty



Extra Heavy Duty Truss has exceptionally high load handling capabilities making it ideal for use in the larger outdoor roof structures. Additional facilities allow other roof interface components to work efficiently with this truss.



## TFL Serious Truss Extra Heavy Duty



### Load Table

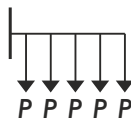
Span (metres)		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
<b>UDL</b>	<b>kg</b>	6015	5970	5924	5791	4551	3710	3096	2624	2247	1937	1674	1448	1250	1074	915	770
<b>DEFL</b>	<b>mm</b>	1	4	13	31	48	67	89	113	138	163	187	210	231	248	259	265
<b>CPL</b>	<b>kg</b>	3087	3042	2996	2895	2276	1855	1548	1312	1124	968	837	724	625	537	457	385
<b>DEFL</b>	<b>mm</b>	0.5	3	11	25	38	54	71	90	110	130	150	168	185	198	208	212
<b>TPL</b>	<b>kg</b>	4155	4110	4064	4019	3357	2782	2322	1968	1686	1453	1256	1086	938	805	686	578
<b>DEFL</b>	<b>mm</b>	0.4	4	13	29	48	69	91	115	141	166	191	215	236	253	265	271
<b>QPL</b>	<b>kg</b>	4155	4110	4064	4019	3357	2782	2322	1968	1686	1453	1256	1086	938	805	686	578
<b>DEFL</b>	<b>mm</b>	0.3	3	12	27	45	64	85	107	131	155	178	200	219	235	246	252

Connection: Fork fitting. Fixings: TFF truss pin and R3 R Clip

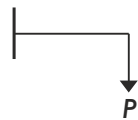
Third and Quarter point loads are displayed as a total load and NOT individual point loads.

Span (metres)		
<b>Cantilever Span</b>		3
<b>UDL</b>	<b>kg</b>	3330
<b>DEFL</b>	<b>mm</b>	6.3
<b>EPL</b>	<b>kg</b>	1660
<b>DEFL</b>	<b>mm</b>	7.7
<b>CPL</b>	<b>kg</b>	2830
<b>DEFL</b>	<b>mm</b>	5.1

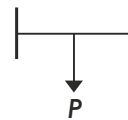
**Uniform Load (UDL)**



**Point Load (Edge)**



**Point Load (Central)**



## TFL Serious Truss Extra Heavy Duty



- All loads are given in kilograms and are total safe working loads (unfactored) at node points of a chord members only
- Allowance has been made for self-weight of the truss
- Allowance has been made for frequent use factor of 85%
- The payload on a truss has been calculated as a permanent action. Should it be necessary to consider the payload as a variable action, the tabulated figures should be reduced to 90% of the given values
- No allowance for dynamic loading has been made
- Capacity has been calculated in accordance with BS EN 1999 – Design of Aluminium Structures
- All loads applied are symmetrical between bottom 2 chords
- All deflections stated are theoretical deflections which do not account for any connection slippage. As such the values stated in these tables will be less than the actual deflection of the truss
- Care must be taken regarding the correct orientation of the bracing arrangement and support condition of the truss. The figures 1 and 2 show the acceptable orientations and supporting conditions of the truss and figures 3 and 4 show the orientation and support condition that should not be used.

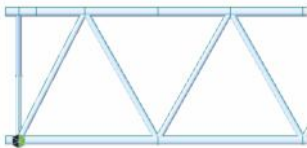


Figure 1: Orientation of the truss supported of bottom chords

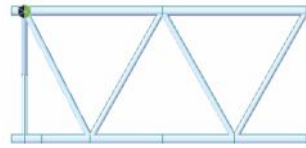


Figure 2: Orientation of the truss supported of top chords

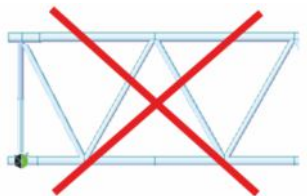


Figure 3: Not allowed orientation of the truss supported of bottom chords

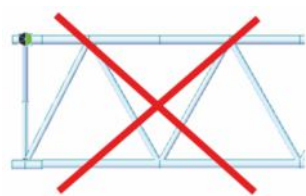


Figure 4: Not allowed orientation of the truss supported of top chords

## TFL Serious Truss Extra Heavy Duty



### Material Specifications

Main Cord:	50.8mm x 6.25mm
Braces:	38.1mm x 3.25mm
Material:	EN AW-6082 T6
Fixings:	Fork End : TFT pins & R3 Clips

### Accessories

Circles  
Angled Corners  
Bespoke Lengths  
Hinges and Swivels

### Item Codes, Weights and Dimensions

EHD0.5M	Extra HD 5ft Truss Section	500mm x 676mm x 676mm	12.5 kg
EHD1M	Extra HD 8ft Truss Section	1000mm x 676mm x 676mm	21 kg
EHD1.5M	Extra HD 10ft Truss Section	1500mm x 676mm x 676mm	27 kg
EHD2M	Extra HD 1M Truss Section	2000mm x 676mm x 676mm	38 kg
EHD2.5M	Extra HD 2M Truss Section	2500mm x 676mm x 676mm	46.5 kg
EHD3M	Extra HD 3M Truss Section	3000mm x 676mm x 676mm	55 kg
EHD4M	Extra HD 4M Truss Section	4000mm x 676mm x 676mm	63.5 kg
EHDC4	Extra HD 4 Way Corner Section	825mm x 825mm x 676mm	39 kg
EHDS4	Extra HD Sleeve Section	825mm x 825mm x 676mm	48 kg

### Design Specification

Manufactured in accordance with

BS EN 1090-3:2008 : Technical Requirements for aluminium structures

EN ISO 9001:2008 : Quality management systems

BS EN 1999 Pt 1-1 : Design of Aluminium Structures, General structural rules

EN17115: Entertainment Technology : Specifications for design, manufacture of aluminium and steel trusses and towers

