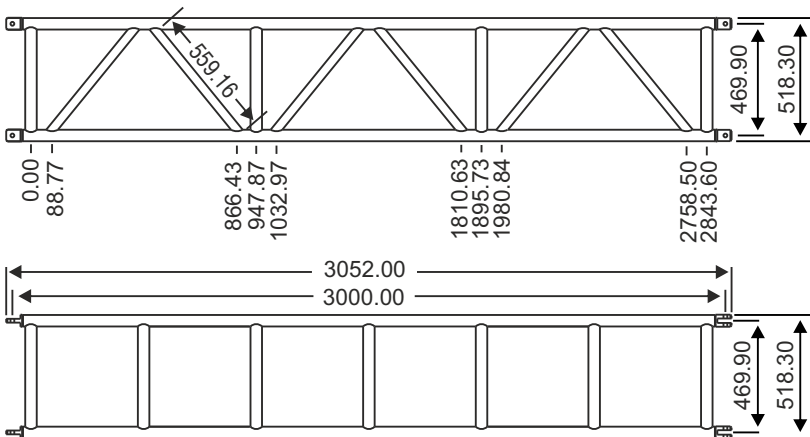
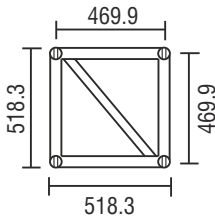
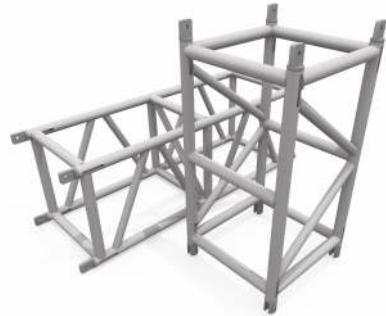


## TFL Serious Truss Serious Medium Duty



Serious Medium Duty Truss has the same overall dimensions as Generic Medium Duty Truss, but offers even greater load carrying capacities and spans than the original. The use of thicker chords and diagonals increases the bending and shear strength of the truss which is offered with Fork End Connectors as standard.



## TFL Serious Truss Serious Medium Duty



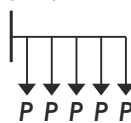
### Load Table

Span (metres)		2	4	6	8	10	12	14	16	18	20	22	24
<b>UDL</b>	<b>kg</b>	2649	2618	2587	2556	2360	1910	1579	1324	1118	947	802	676
<b>DEFL</b>	<b>mm</b>	0.5	4	12	27	50	69	91	114	137	159	179	196
<b>CPL</b>	<b>kg</b>	1989	1958	1927	1510	1180	955	790	662	559	474	401	338
<b>DEFL</b>	<b>mm</b>	1	4	14	26	40	55	73	91	109	127	143	157
<b>TPL</b>	<b>kg</b>	2409	2378	2347	2265	1770	1432	1185	993	839	711	602	507
<b>DEFL</b>	<b>mm</b>	1	4	14	33	51	71	93	116	140	163	183	200
<b>QPL</b>	<b>kg</b>	2409	2378	2347	2265	1770	1432	1185	993	839	711	602	507
<b>DEFL</b>	<b>mm</b>	1	4	13	31	47	66	86	108	130	151	170	186

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

Span (metres)		2
<b>UDL</b>	<b>kg</b>	2420
<b>DEFL</b>	<b>mm</b>	3.6
<b>EPL</b>	<b>kg</b>	1210
<b>DEFL</b>	<b>mm</b>	4.4
<b>CPL</b>	<b>kg</b>	1900
<b>DEFL</b>	<b>mm</b>	2.9

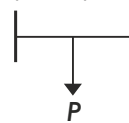
**Uniform Load (UDL)**



**Point Load (Edge)**



**Point Load (Central)**



## TFL Serious Truss Serious Medium 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.

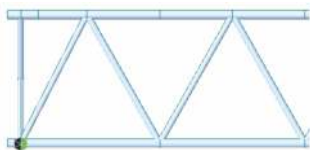


Figure 1: Orientation of the truss supported of bottom chords

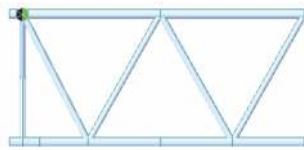


Figure 2: Orientation of the truss supported of top chords

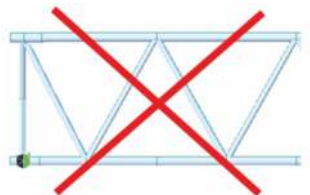


Figure 3: Not allowed orientation of the truss supported of bottom chords

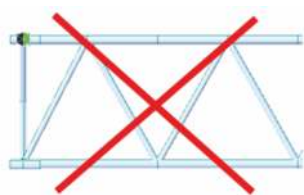


Figure 4: Not allowed orientation of the truss supported of top chords

## TFL Serious Truss Serious Medium Duty



### Material Specifications

Main Cord	48.44mm x 4.47mm
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

SMD5F	Serious MD 5ft Truss Section	1576mm x 521mm x 521mm	30 kg
SMD8F	Serious MD 8ft Truss Section	2499mm x 521mm x 521mm	42 kg
SMD10F	Serious MD 10ft Truss Section	3100mm x 521mm x 521mm	50 kg
SMD1M	Serious MD 1M Truss Section	1026mm x 521mm x 521mm	22 kg
SMD2M	Serious MD 2M Truss Section	2026mm x 521mm x 521mm	35 kg
SMD3M	Serious MD 3M Truss Section	3026mm x 521mm x 521mm	49 kg
SMD4M	Serious MD 4M Truss Section	4026mm x 521mm x 521mm	63 kg
SMDC4	Serious MD 4 Way Corner Section	681mm x 681mm x 521mm	35 kg
SMDS4	Serious MD Sleeve Section	681mm x 681mm x 521mm	38 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

