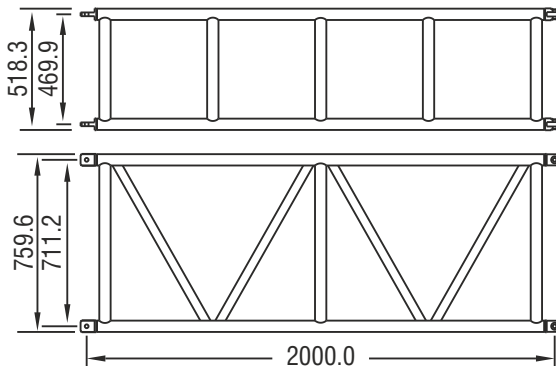
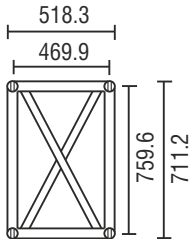


TFL Serious Truss Serious Heavy Duty



Serious Heavy Duty Truss has the same overall dimensions as Generic Heavy 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 Heavy Duty



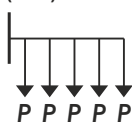
Load Table

Span (metres)		3	6	9	12	15	18	21	24
UDL	kg	2986	2934	2881	2829	2256	1784	1432	1156
DEFL	mm	1	5	17	40	62	85	108	130
CPL	kg	1996	1944	1891	1469	1128	892	716	578
DEFL	mm	1	5	18	33	50	68	86	104
TPL	kg	2376	2324	2271	2151	1692	1338	1074	867
DEFL	mm	1	6	18	41	63	87	110	133
QPL	kg	2376	2324	2271	2151	1692	1338	1074	867
DEFL	mm	1	5	17	38	59	80	103	124

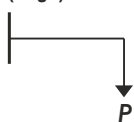
Connection: Fork fitting. Fixings: TFT truss pin and R3 R Clip

Span (metres)		Cantilever Span	3
UDL	kg		2910
DEFL	mm		6.5
EPL	kg		1450
DEFL	mm		7.9
CPL	kg		1950
DEFL	mm		3.8

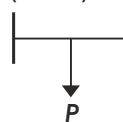
Uniform Load (UDL)



Point Load (Edge)



Point Load (Central)



TFL Serious Truss Serious 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.

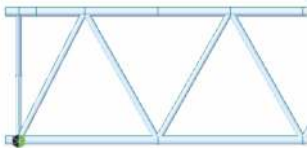


Figure 1: Orientation of the truss supported of bottom chords

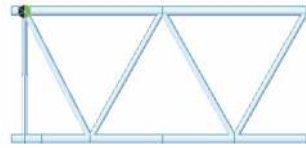


Figure 2: Orientation of the truss supported of top chords

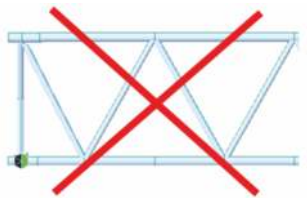


Figure 3: Not allowed orientation of the truss supported of bottom chords

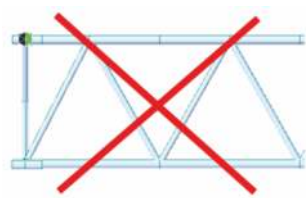


Figure 4: Not allowed orientation of the truss supported of top chords

TFL Serious Truss Serious Heavy 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

SHD5F	Serious HD 5ft Truss Section	1576mm x 762mm x 521mm	34 kg
SHD8F	Serious HD 8ft Truss Section	2499mm x 762mm x 521mm	47 kg
SHD10F	Serious HD 10ft Truss Section	3100mm x 762mm x 521mm	56 kg
SHD1M	Serious HD 1M Truss Section	1026mm x 762mm x 521mm	25 kg
SHD2M	Serious HD 2M Truss Section	2026mm x 762mm x 521mm	40 kg
SHD3M	Serious HD 3M Truss Section	3026mm x 762mm x 521mm	56 kg
SHD4M	Serious HD 4M Truss Section	4026mm x 762mm x 521mm	71 kg
SHDC4	Serious HD 4 Way Corner Section	681mm x 681mm x 762mm	39 kg
SHDS4	Serious HD Sleeve Section	681mm x 681mm x 762mm	43 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

