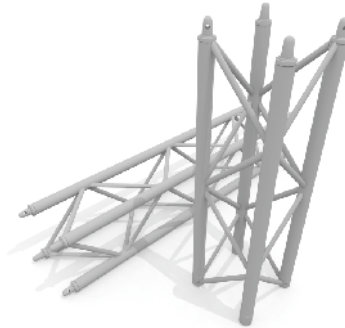


## OV Truss OV30



The OV range represents an innovative engineering solution to a common size of truss for the entertainment, event and presentation industry.

Designed to the latest Eurocodes, combines high comparative load capacities, low self-weight, and comes at a competitive price. All this whilst analysing the most common slinging / support methods on the truss has determined an 'engineered' product that can utilise the most modern manufacturing techniques.

The OV range is a series of square and triangular truss systems using conical connectors for a quick fixing method. Brace patterns are specifically designed to withstand the loads and forces implied by all common slinging and support methods. The extrusions used in the construction of the trusses are bespoke to Total Solutions Group and have been rigorously designed to enhance the structural effectiveness of the trusses and also to speed up manufacturing.

## OV Truss OV30



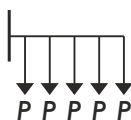
Span (metres)	3	6	9	12	15	18
UDL kg	1883	1592	1033	745	565	440
DEFL mm	5	33	71	122	181	243
CPL kg	1591	783	508	366	277	215
DEFL mm	7	26	56	96	142	190
TPL kg	1880	1194	775	559	424	330
DEFL mm	7	33	73	125	185	248
QPL kg	1809	1194	775	559	424	330
DEFL mm	6	31	68	116	172	231

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

Span (metres)

Cantilever Span		3
UDL	kg	800
DEFL	mm	16.1
EPL	kg	400
DEFL	mm	21.4
CPL	kg	800
DEFL	mm	13.3

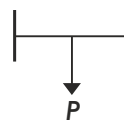
Uniform Load  
(UDL)



Point Load  
(Edge)



Point Load  
(Central)



- 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.

## OV Truss OV30



### Material Specifications

Main Chord:	48.3 x 2.6mm
Braces:	Special Extrusion
Material Specifications:	EN AW-6082 T6
Fixings:	Conical : TFC pins & R3 Clips

### Accessories

Circles  
Hinges and Swivels  
Bespoke Lengths  
Ladder Sections

### Item Codes, Weights and Dimensions

OV30-025	'OV' Truss, 30cm Squ, 0.25Mt section	250mm x 300mm x 300mm	3.1kg
OV30-050	'OV' Truss, 30cm Squ, 0.5Mt section	500mm x 300mm x 300mm	4.1kg
OV30-100	'OV' Truss, 30cm Squ, 1.0Mt section	1000mm x 300mm x 300mm	6.8kg
OV30-200	'OV' Truss, 30cm Squ, 2.0Mt section	2000mm x 300mm x 300mm	12.3kg
OV30-300	'OV' Truss, 30cm Squ, 3.0Mt section	3000mm x 300mm x 300mm	17.8kg
OV30-400	'OV' Truss, 30cm Squ, 4.0Mt section	4000mm x 300mm x 300mm	23.3kg
OV30-4W	'OV' Truss, 30cm Squ, 4way corner	500mm x 500mm x 300mm	8.6kg
OV30-CB	'OV' Truss, 30cm Squ, Basic Universal Corner Block	300mm x 300mm x 300mm	9.5kg
OV30-FC100	'OV' Truss, Female bolt-on Connector - 100mm	100mm x 48mm x 48mm	0.4kg
OV30-MC100	'OV' Truss, Male bolt-on Connector - 100mm	100mm x 48mm x 48mm	0.6kg
OV30-BP	'OV' Truss, 30cm Squ, Ali Base plate, 50cm Squ - No conns	500mm x 500mm x 8mm	5kg
OV30-TPB	'OV' Truss, 30cm Truss Pickup Beam - 1000Kgs	322mm x 170mm x 65mm	4.2kg

### Design Specification

Manufactured in accordance with

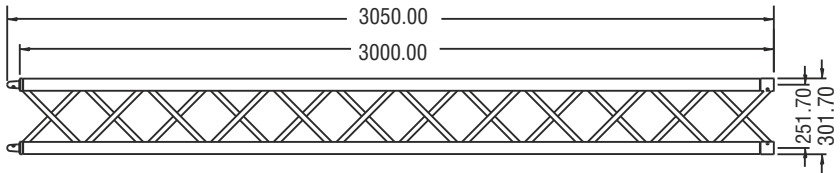
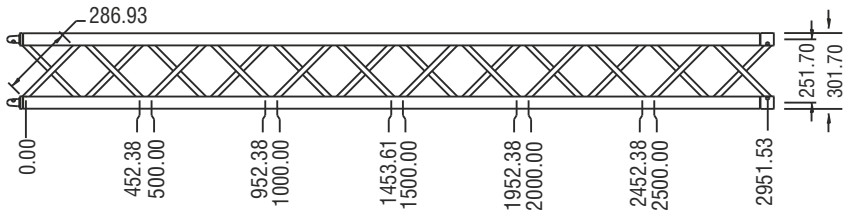
BS EN 1090-3:2008 : Technical Requirements for aluminium structures

EN ISO 9001:2015 : 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

OV Truss  
 OV30



PIN INSERTION  
 DIRECTION

