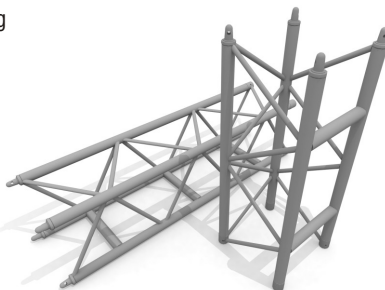


OV Truss OV40



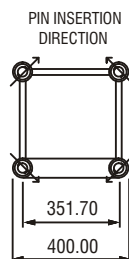
The OV range represents an innovative engineering solution to a common size of truss for the entertainment, event and presentation industry.

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.

Span (metres)		3.0	6.0	9.0	12.0	15.0	18.0
Uniformly distributed	kg	3852	2832	1508	1243	947	714
	kN	37.76	27.76	14.78	12.19	9.28	7.00
Central point load	kg	1926	1416	754	622	474	357
	kN	18.88	13.88	7.39	6.09	4.64	3.50
Quarter point loads at each point	kg	963	708	377	311	237	179
	kN	9.44	6.94	3.70	3.05	2.32	1.75
Third point loads at each point	kg	1445	1062	566	467	356	268
	kN	14.16	10.41	5.54	4.57	3.49	2.63



- All loads are given in Kilograms and Kilonewtons
- Allowance has been made for self-weight of truss
- Allowance has been made for frequent use factor of 83%
- The payload of the 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

OV Truss OV40



Material Specifications

Main Chord:	48.3 x 3mm
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

OV40-025	'OV' Truss, 40cm Squ, 0.25Mt section	250mm x 400mm x 400mm	3.4kg
OV40-050	'OV' Truss, 40cm Squ, 0.5Mt section	500mm x 400mm x 400mm	4.7kg
OV40-100	'OV' Truss, 40cm Squ, 1.0Mt section	1000mm x 400mm x 400mm	8.0kg
OV40-200	'OV' Truss, 40cm Squ, 2.0Mt section	2000mm x 400mm x 400mm	14.7kg
OV40-300	'OV' Truss, 40cm Squ, 3.0Mt section	3000mm x 400mm x 400mm	21.4kg
OV40-400	'OV' Truss, 40cm Squ, 4.0Mt section	4000mm x 400mm x 400mm	23.3kg
OV40-4W	'OV' Truss, 40cm Squ, 4way corner	600mm x 600mm x 400mm	10.6kg
OV40-CB	'OV' Truss, 40cm Squ, Basic Universal Corner Block	400mm x 400mm x 400mm	11.5kg
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
OV40-BP	'OV' Truss, 40cm Squ, Ali Base plate, 50cm Squ - No conns	600mm x 600mm x 8mm	5kg
OV40-TPB	'OV' Truss, 40cm Truss Pickup Beam - 1000Kgs	422mm x 170mm x 65mm	5.2kg

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

CWA15902-2 : Specifications for design, manufacture and for use of aluminium and steel trusses and towers

CE Certified

