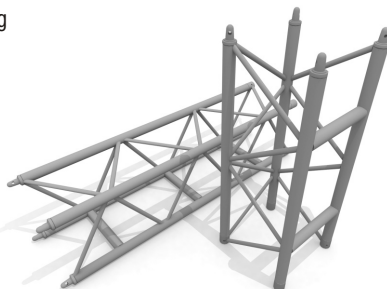


OV Truss OV40



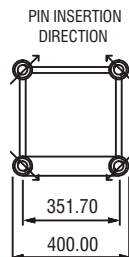
The OV range represents an innovative engineering solution to a common size of truss for the entertainment, event and presentation industry.

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 | 30.1kg |
| OV40-CB | 'OV' Truss, 40cm Squ, Basic Universal Corner Block | 400mm x 400mm x 400mm | 11.5kg |
| OV40-FC100 | 'OV' Truss, 40cm Squ, Female bolt-on Connector - 100mm | 100mm x 48mm x 48mm | 0.4kg |
| OV40-MC100 | 'OV' Truss, 40cm Squ, 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 | 500mm x 500mm 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

