PROLYTE

# H40R-RMB

## Raised Middle Beam Truss

Special Product Range Brochure

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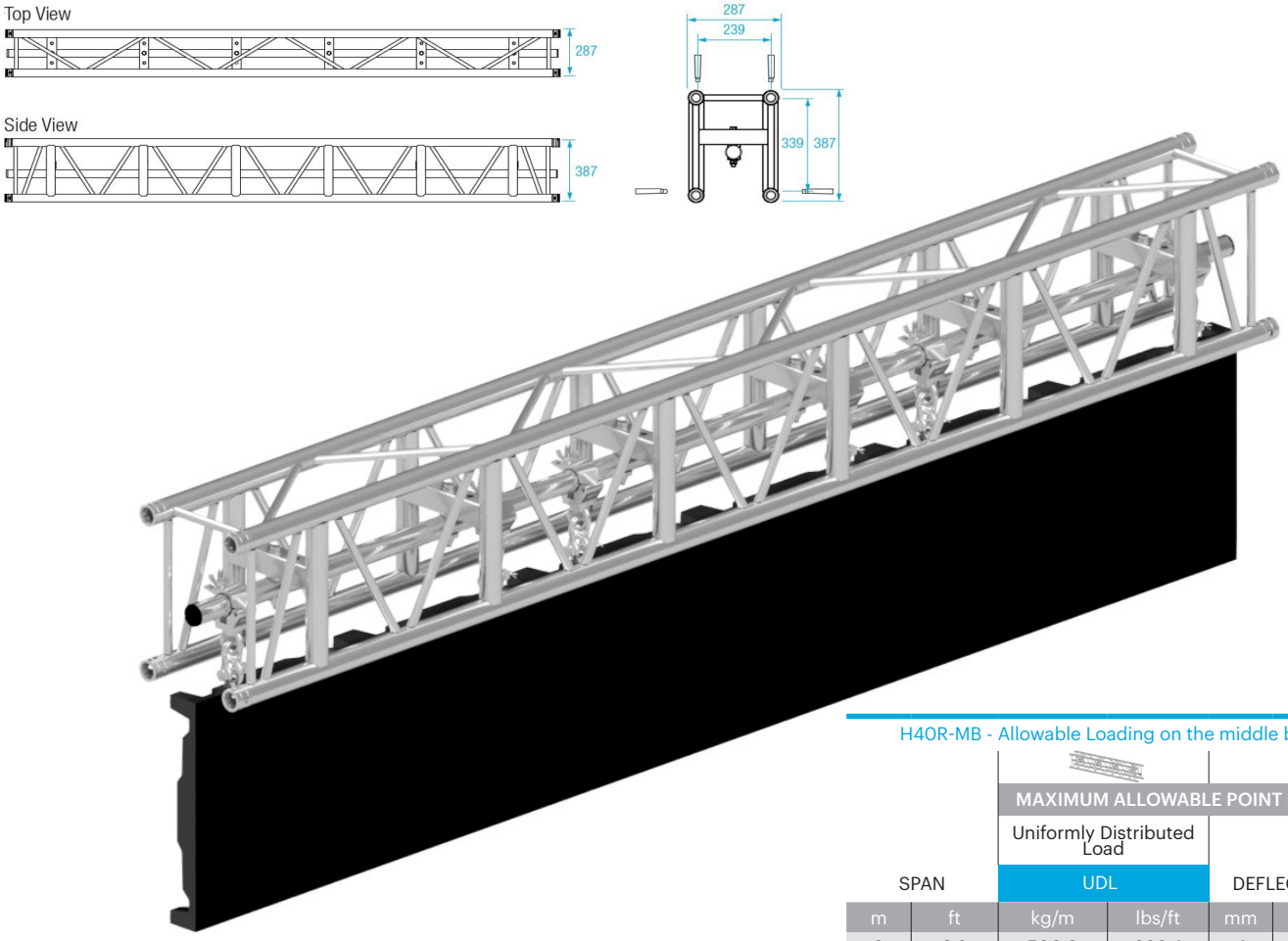
# H40R-RMB RAISED

## H40R MIDDLE BEAM RAISED TRUSS

The H40R Middle Beam Raised is a state-of-the-art LED suspension truss that integrates a versatile middle beam within its structure. This middle beam is designed to be adaptable, providing an ideal solution for seamless LED screen installations. It can be used in combination with the standard H40R truss system, ensuring compatibility and flexibility for diverse setup requirements in one grid.




H40R-MB - Allowable Loading on the middle beam

| SPAN | | MAXIMUM ALLOWABLE POINT LOADS | | | |
|---|---|---|---|---|---|
| | | Uniformly Distributed Load | | | |
| | | UDL | | DEFLECTION | |
| m | ft | kg/m | lbs/ft | mm | inch |
| 3 | 9.8 | 500.0 | 336.4 | 4 | 0.2 |
| 4 | 13.1 | 500.0 | 336.4 | 9 | 0.4 |
| 5 | 16.4 | 500.0 | 336.4 | 18 | 0.7 |
| 6 | 19.7 | 475.9 | 320.2 | 29 | 1.1 |
| 7 | 23.0 | 361.4 | 243.2 | 40 | 1.6 |
| 8 | 26.2 | 274.5 | 184.7 | 52 | 2.0 |
| 9 | 29.5 | 215.0 | 144.7 | 65 | 2.6 |
| 10 | 32.8 | 172.4 | 116.0 | 81 | 3.2 |
| 11 | 36.1 | 140.9 | 94.8 | 98 | 3.9 |
| 12 | 39.4 | 116.9 | 78.7 | 116 | 4.6 |
| 13 | 42.6 | 91.9 | 61.8 | 137 | 5.4 |
| 14 | 45.9 | 71.6 | 48.2 | 158 | 6.2 |
| 15 | 49.2 | 56.3 | 37.9 | 182 | 7.2 |
| 16 | 52.5 | 44.6 | 30.0 | 207 | 8.1 |
| 17 | 55.8 | 35.5 | 23.9 | 234 | 9.2 |
| 18 | 59.0 | 28.3 | 19.0 | 262 | 10.3 |
| 19 | 62.3 | 22.5 | 15.1 | 292 | 11.5 |
| 20 | 65.6 | 17.9 | 12.0 | 323 | 12.7 |

## Advantages of H40R MB:

- **Flush with the truss**: The middle beam allows the LED screen to sit flush against the truss, eliminating any unwanted loss of trim height and providing a streamlined, professional look.
- **Adjustable Middle Beam Positioning**: Position the middle beam at various points within the truss as needed, ensuring flexibility to accommodate different design setups and weights.
- **Expandable Design**: An extra bar can be added when an additional support is needed.
- **Universal Profile Compatibility**: The truss system supports the attachment of any profile within the structure, offering unparalleled adaptability for various rigging and mounting needs.

# H40R-RMB RAISED

## H40R-MB - Allowable Loading

| | | | | | | MAXIMUM ALLOWABLE POINT LOADS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Uniformly Distributed Load | | | | Centre Point Load | | | | Single Load Third Points Load per Point | | Single Load Fourth Points Load per Point | | Single Load Fifth Points Load per Point | | |
| SPAN | | UDL | | DEFLECTION | | CPL | | DEFLECTION | | TPL | | QPL | | FPL | | SPAN |
| m | ft | kg/m | lbs/ft | mm | inch | kg | lbs | mm | inch | kg | lbs | kg | lbs | kg | lbs | Total weight |
| 3 | 9.8 | 960.9 | 646.6 | 7 | 0.3 | 2133.7 | 4709.1 | 6 | 0.2 | 1441.4 | 3181.2 | 960.9 | 2120.8 | 720.7 | 1590.6 | 11.0 |
| 4 | 13.1 | 718.4 | 483.4 | 13 | 0.5 | 1708.9 | 3771.6 | 10 | 0.4 | 1179.7 | 2603.6 | 957.9 | 2114.0 | 718.4 | 1585.5 | 22.0 |
| 5 | 16.4 | 572.9 | 385.5 | 20 | 0.8 | 1431.1 | 3158.4 | 16 | 0.6 | 974.7 | 2151.2 | 795.8 | 1756.4 | 622.8 | 1374.5 | 33.0 |
| 6 | 19.7 | 475.9 | 320.2 | 29 | 1.1 | 1228.3 | 2710.9 | 23 | 0.9 | 847.9 | 1871.2 | 672.4 | 1484.0 | 526.7 | 1162.5 | 44.0 |
| 7 | 23.0 | 361.4 | 243.2 | 40 | 1.6 | 1073.4 | 2369.1 | 32 | 1.3 | 748.8 | 1652.5 | 580.7 | 1281.5 | 458.6 | 1012.2 | 55.0 |
| 8 | 26.2 | 274.5 | 184.7 | 52 | 2.0 | 950.9 | 2098.7 | 41 | 1.6 | 669.0 | 1476.6 | 509.6 | 1124.7 | 405.1 | 894.1 | 66.0 |
| 9 | 29.5 | 215.0 | 144.7 | 65 | 2.6 | 851.3 | 1878.9 | 52 | 2.0 | 603.4 | 1331.6 | 452.8 | 999.4 | 361.9 | 798.7 | 77.0 |
| 10 | 32.8 | 172.4 | 116.0 | 81 | 3.2 | 768.6 | 1696.3 | 65 | 2.6 | 548.2 | 1209.9 | 406.3 | 896.7 | 326.1 | 719.8 | 88.0 |
| 11 | 36.1 | 140.9 | 94.8 | 98 | 3.9 | 698.6 | 1541.7 | 78 | 3.1 | 501.1 | 1105.9 | 367.4 | 810.8 | 296.0 | 653.3 | 99.0 |
| 12 | 39.4 | 116.9 | 78.7 | 116 | 4.6 | 638.4 | 1408.9 | 93 | 3.7 | 460.3 | 1015.9 | 334.2 | 737.6 | 270.2 | 596.3 | 110.0 |
| 13 | 42.6 | 98.3 | 66.1 | 137 | 5.4 | 585.9 | 1293.2 | 109 | 4.3 | 424.5 | 937.0 | 305.6 | 674.4 | 247.8 | 546.9 | 121.0 |
| 14 | 45.9 | 83.5 | 56.2 | 158 | 6.2 | 539.8 | 1191.3 | 127 | 5.0 | 392.9 | 867.1 | 280.6 | 619.2 | 228.1 | 503.5 | 132.0 |
| 15 | 49.2 | 71.5 | 48.1 | 182 | 7.2 | 498.7 | 1100.6 | 146 | 5.7 | 364.6 | 804.6 | 258.4 | 570.4 | 210.7 | 464.9 | 143.0 |
| 16 | 52.5 | 61.7 | 41.5 | 207 | 8.1 | 461.8 | 1019.3 | 166 | 6.5 | 339.1 | 748.3 | 238.7 | 526.8 | 195.0 | 430.4 | 154.0 |
| 17 | 55.8 | 53.6 | 36.1 | 234 | 9.2 | 428.5 | 945.6 | 187 | 7.4 | 315.9 | 697.2 | 220.9 | 487.5 | 180.9 | 399.2 | 165.0 |
| 18 | 59.0 | 46.9 | 31.5 | 262 | 10.3 | 398.1 | 878.6 | 210 | 8.3 | 294.7 | 650.4 | 204.8 | 452.0 | 168.1 | 370.9 | 176.0 |
| 19 | 62.3 | 41.1 | 27.7 | 292 | 11.5 | 370.2 | 817.1 | 233 | 9.2 | 275.2 | 607.4 | 190.1 | 419.5 | 156.3 | 345.0 | 187.0 |
| 20 | 65.6 | 36.2 | 24.4 | 323 | 12.7 | 344.6 | 760.4 | 259 | 10.2 | 257.2 | 567.6 | 176.6 | 389.7 | 145.5 | 321.1 | 198.0 |

1 inch = 25.4 mm | 1 m = 3.28 ft | 1 lbs = 0.453 kg

- Tüv certification only valid for loading table above.
- Loading figures are only valid for static loads.
- Loading figures are only valid for single spans with supports at both ends.
- All static systems, other than single spans, need an individual structural calculation. Please contact a structural engineer or Prolyte for assistance.
- Loading figures are calculated according to and in full compliance with European standards (Eurocode).
- The self-weight of the trusses is already taken into account.
- Loading figures are only valid for the cross sectional orientation of the truss as shown by the icon in the loading table.
- The interaction between bending moment and shear force at the connection point is already taken into account.
- Truss spans can be assembled from different truss lengths.
- Read the manual before assembling, using and loading the truss.

## Technical Specifications - H40R-MB

| Types | Rectangular (R) |
|---|---|
| Alloy | EN AW 6082 T6 |
| Main Chords | 48 x 3 mm |
| Diagonal Members | 20 x 2 mm |
| Coupling System | CCS6 |

## H40R-MB - Standard available Lengths and Codes

| Metres | Feet | Code |
|---|---|---|
| 1.00 | 3.28 | H40R-L100-RMB |
| 1.50 | 4.92 | H40R-L150-RMB |
| 2.00 | 6.56 | H40R-L200-RMB |
| 2.50 | 8.2 | H40R-L250-RMB |
| 3.00 | 9.84 | H40R-L300-RMB |
| 4.00 | 13.12 | H40R-L400-RMB |

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