PROLYTE

H40R-RMB

Product Specific Brochure

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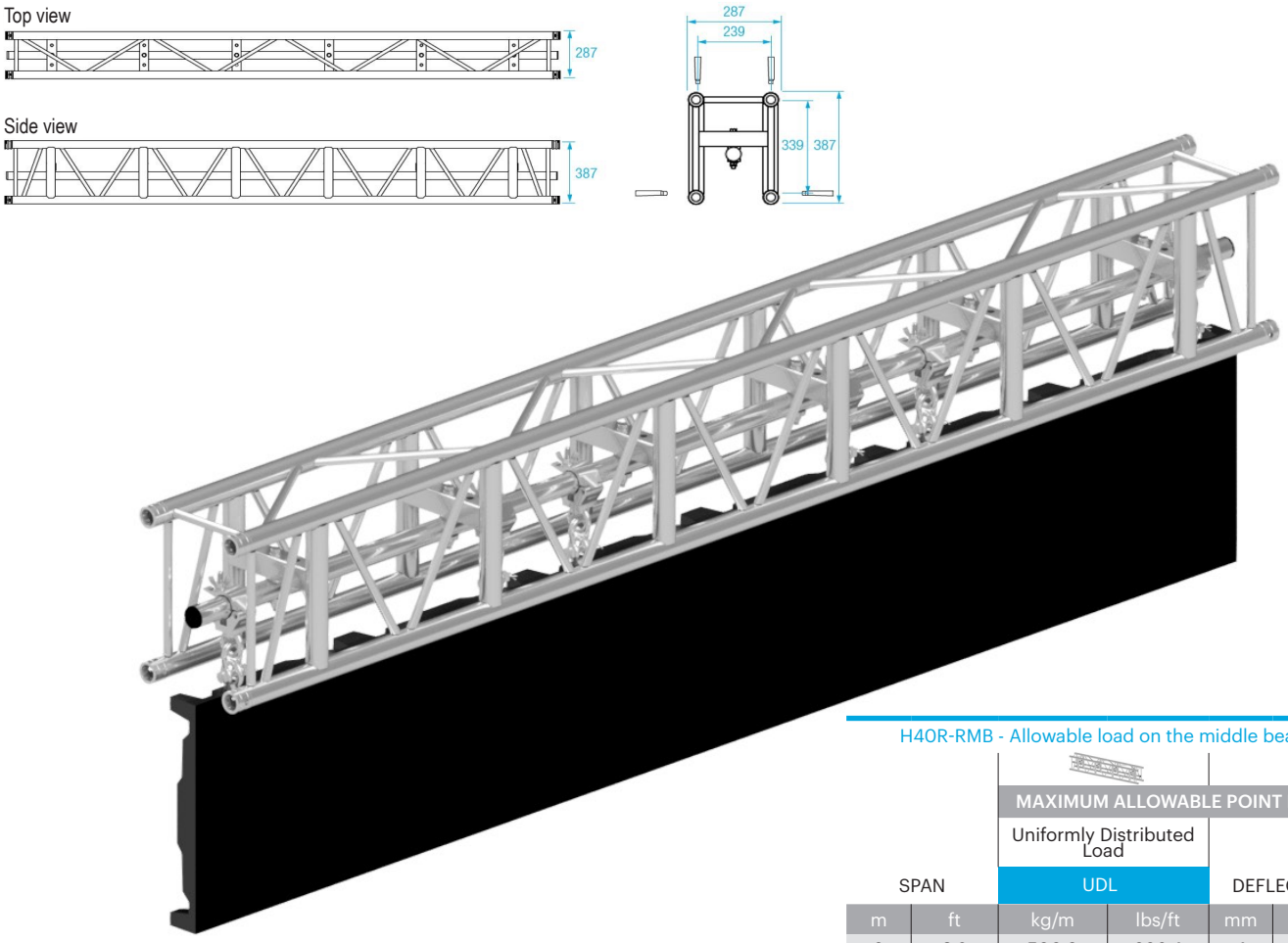
H40R-RMB RAISED

H40R RAISED MIDDLE BEAM TRUSS

The H40R 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 set-up requirements in one grid.



H40R-RMB - Allowable load on the middle beam

SPAN		MAXIMUM ALLOWABLE POINT LOADS			
		Uniformly Distributed Load			
		UDL		DEFLECTION	
m	ft	kg/m	lbs/ft	mm	in
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 the H40R-RMB:

- **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.

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H40R-RMB - allowable load

						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	in	kg	lbs	mm	in	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 lb = 0.453 kg

- TÜV certification is only valid for the 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 require 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 (Eurocodes).
- 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 shearing 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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