

# M100RV

Product Specific Folder

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# M100RV

The Prolyte M100RV Truss serie is the stronger add on to the 100 cm series. The design of this truss not only reflects the Prolyte philosophy of making user-friendly products, it also underscores the unrivalled technological knowledge and experience Prolyte has gained over the years.

The M100RV truss provides massive strength for a range of application possibilities within a large construction, such as a roof system or pre rig mother grid. With its superior loading capacity the M100RV truss is up to 3 times stronger than the B100RV truss. For example, on a span of 30 metres you still can apply a point load of 5000kg.

It is constructed of main chords (100 x 8 mm) and diagonal members (50 x 4 mm). The connection will be done with the CCS10 conical connection system, which avoids having deflection at your connection point and is fast and easy to assemble. Due to its 4-sided webbing the truss can absorb vertical as well as horizontal loads, which makes it ideal for outdoor or 3 dimensional structures. Spans up to 40 metres are no challenge for this truss.

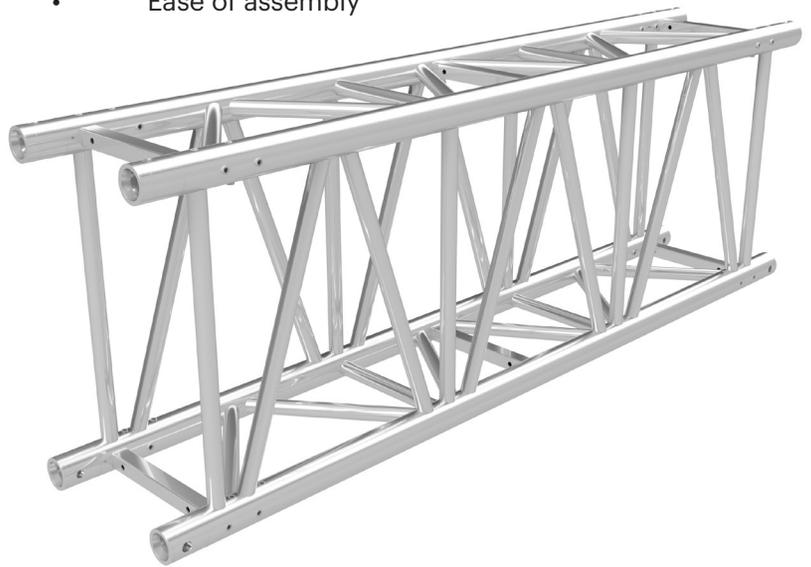
The M100RV can optionally be equipped with castor wheel sets.

## Technical Specifications - M100RV

Alloy	EN AW 6082 T6
Main Chords	Round 100 x 8 mm
Straight members	50 x 4 mm
Diagonal members	50 x 4 mm
Coupling System	CCS10 serie

## Key points

- 100% rigid connection system
- Compact size
- Massive load bearing capacity
- Low self weight
- Ease of assembly



## B100RV Series - Standard Available Lengths and Codes

Description	Code	Item Number
RECTANGLE M100 LENGTH 80 CM	M100RV-L080	111110647
RECTANGLE M100 LENGTH 100 CM	M100RV-L100	111110295
RECTANGLE M100 LENGTH 120 CM	M100RV-L120	111110704
RECTANGLE M100 LENGTH 200 CM	M100RV-L200	111110648
RECTANGLE M100 LENGTH 250 CM	M100RV-L250	111110649
RECTANGLE M100 LENGTH 300 CM	M100RV-L300	111110650
RECTANGLE M100 LENGTH 350 CM	M100RV-L350	111110651
RECTANGLE M100 LENGTH 400 CM	M100RV-L400	111110644
RECTANGLE M100 LENGTH 80 CM RAL9005 TEXTURED	PC-M100RV-L080-RAL9005-TXT	111110705
RECTANGLE M100 LENGTH 100 CM RAL9005 TEXTURED	PC-M100RV-L100-RAL9005-TXT	111110706
RECTANGLE M100 LENGTH 120 CM RAL9005 TEXTURED	PC-M100RV-L120-RAL9005-TXT	111110707
RECTANGLE M100 LENGTH 200 CM RAL9005 TEXTURED	PC-M100RV-L200-RAL9005-TXT	111110708
RECTANGLE M100 LENGTH 250 CM RAL9005 TEXTURED	PC-M100RV-L250-RAL9005-TXT	111110709
RECTANGLE M100 LENGTH 300 CM RAL9005 TEXTURED	PC-M100RV-L300-RAL9005-TXT	111110710
RECTANGLE M100 LENGTH 350 CM RAL9005 TEXTURED	PC-M100RV-L350-RAL9005-TXT	111110711
RECTANGLE M100 LENGTH 400 CM RAL9005 TEXTURED	PC-M100RV-L400-RAL9005-TXT	111110712

## B100RV Series - Standard Available Lengths and Codes

Description	Code	Item Number
COUPLER 1000 (S-SERIES)	CCS10-1000	144601977
SPIGOT CCS 1000	CCS10-1003	111200308
SPIGOT R-SPRING	CCS7-705	1112000079

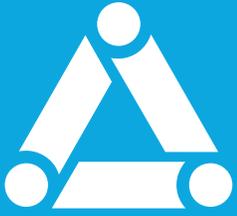
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## M100RV - Allowable Loading

SPAN		Uniformly Distributed Load		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
		UDL				CPL		DEFLECTION		TPL		QPL		FPL		
m	ft	kg/m	lbs/ft	mm	inch	kgs	lbs	mm	inch	kgs	lbs	kgs	lbs	kgs	lbs	total weight
4	13.1	3988.2	2683.5	5	0.2	15952.7	35207.7	4	0.2	7976.4	17604	5317.6	11735.9	3988.2	8801.9	188
5	16.4	3182.4	2141.4	7	0.3	15912.2	35118.3	6	0.2	7956.1	17559	5304.1	11706.1	3978.1	8779.6	235
6	19.7	2645.3	1779.9	11	0.4	15775.3	34816.0	9	0.4	7935.9	17515	5290.6	11676.3	3967.9	8757.2	282
7	23.0	2261.6	1521.8	15	0.6	14294.7	31548.5	12	0.5	7915.6	17470	5277.1	11646.5	3957.8	8734.9	329
8	26.2	1973.8	1328.1	19	0.7	13017.3	28729.2	15	0.6	7895.4	17425	5263.6	11616.7	3947.7	8712.5	376
9	29.5	1750.0	1177.5	24	0.9	11910.4	26286.2	19	0.7	7827.2	17275	5250.1	11586.9	3937.6	8690.2	423
10	32.8	1571.0	1057.1	30	1.2	10946.4	24158.6	24	0.9	7319.1	16153	5236.6	11557.1	3927.4	8667.8	470
11	36.1	1424.5	958.5	36	1.4	10178.0	22462.9	29	1.1	6859.0	15138	5223.1	11527.3	3917.3	8645.5	517
12	39.4	1302.4	876.3	43	1.7	9588.3	21161.3	34	1.3	6441.9	14217	5177.9	11427.6	3907.2	8623.2	564
13	42.6	1199.1	806.8	50	2.0	9058.7	19992.6	40	1.6	6062.9	13381	4919.4	10857.1	3897.1	8600.8	611
14	45.9	1110.6	747.3	58	2.3	8580.3	18936.8	47	1.9	5717.7	12619	4679.6	10327.8	3886.9	8578.5	658
15	49.2	1033.8	695.6	67	2.6	8145.8	17977.7	54	2.1	5402.6	11924	4457.0	9836.5	3661.0	8079.8	705
16	52.5	966.7	650.4	76	3.0	7749.0	17102.0	61	2.4	5125.7	11313	4257.8	9396.9	3430.2	7570.4	752
17	55.8	907.4	610.6	86	3.4	7385.0	16298.7	69	2.7	4911.9	10841	4100.0	6048.6	3222.5	7112.0	799
18	59.0	854.8	575.1	97	3.8	7049.7	15558.7	77	3.0	4713.0	10402	3951.4	8720.7	3052.0	6735.7	846
19	62.3	807.6	543.4	108	4.3	6739.7	14874.4	86	3.4	4527.3	9992	3805.1	8398.0	2912.2	6427.2	893
20	65.6	765.2	514.9	119	4.7	6451.9	14239.4	95	3.7	4356.6	9608	3622.7	7995.3	2783.0	6142.0	940
21	68.9	721.3	485.3	131	5.2	6184.0	13648.0	105	4.1	4190.6	9249	3454.6	7624.3	2663.1	5877.4	987
22	72.2	653.6	439.8	144	5.7	5933.7	13095.7	115	4.5	4037.2	8910	3299.1	7281.2	2551.5	5631.1	1034
23	75.4	594.6	400.1	158	6.2	5699.3	12578.2	126	5.0	3892.6	8591	3154.8	6962.7	2447.2	5401.1	1081
24	78.7	542.8	365.2	172	6.8	5479.0	12092.3	137	5.4	3755.9	8289	3020.4	6666.1	2349.6	5185.6	1128
25	82.0	497.0	334.4	186	7.3	5271.7	11634.6	149	5.9	3626.4	8003	2894.9	6389.0	2258.0	4983.4	1175
26	85.3	456.5	307.2	201	7.9	5076.0	11202.7	161	6.3	3503.5	7732	2777.3	6129.5	2171.7	4792.9	1222
27	88.6	420.3	282.8	217	8.5	4890.8	10794.1	174	6.9	3386.7	7474	2666.8	5885.7	2090.3	4613.3	1269
28	91.8	388.0	261.1	234	9.2	4715.3	10406.7	187	7.4	3275.4	7229	2562.8	5656.1	2013.3	4443.3	1316
29	95.1	359.0	241.5	251	9.9	4548.6	10038.8	201	7.9	3169.2	6994	2464.6	5439.4	1940.3	4282.3	1363
30	98.4	332.8	223.9	268	10.6	4390.0	9688.7	215	8.5	3067.6	6770	2371.7	5234.4	1871.0	4129.4	1410
31	101.7	309.1	208.0	286	11.3	4238.8	9354.9	229	9.0	2970.5	6556	2283.7	5040.1	1805.1	3983.9	1457
32	105.0	287.6	193.5	305	12.0	4094.3	9036.2	244	9.6	2877.3	6350	2200.1	4855.6	1742.3	3845.3	1504
33	108.2	268.0	180.3	325	12.8	3956.2	8731.4	260	10.2	2787.9	6153	2120.5	4680.0	1682.4	3713.0	1551
34	111.5	250.1	168.3	345	13.6	3823.9	8439.3	276	10.9	2701.9	5963	2044.7	4512.6	1625.0	3586.4	1598
35	114.8	233.8	157.3	365	14.4	3697.0	8159.2	292	11.5	2619.1	5780	1972.2	4352.7	1570.1	3465.2	1645
36	118.1	218.7	147.2	386	15.2	3575.0	7890.0	309	12.2	2539.3	5604	1903.0	4199.9	1517.5	3349.0	1692
37	121.4	204.9	137.9	408	16.1	3457.7	7631.2	327	12.9	2462.3	5434	1836.7	4053.5	1466.9	3237.4	1739
38	124.6	192.2	129.3	430	16.9	3344.7	7381.8	344	13.5	2387.9	5270	1773.0	3913.1	1418.3	3130.1	1786
39	127.9	180.4	121.4	453	17.8	3235.8	7141.4	363	14.3	2316.0	5111	1711.9	3778.2	1371.5	3026.8	1833
40	131.2	169.5	114.0	477	18.8	3130.6	6909.3	382	15.0	2246.3	4958	1653.2	3648.5	1326.3	2927.2	1880

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

- 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.



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