



PROLYTE PRODUCTS

Read this manual carefully and understand all of it's contents before you assemble and load the Prolyte Multi Purpose Truss.



ASSEMBLY MANUAL FOR THE PROLYTE X & H 30-40 TRUSS

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PART 2 OF 2

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1. IDENTIFICATION

All Prolyte trusses have an embossed logo at their couplers and identification stickers. The logo shall never be removed. The X and H series trusses are distinguished by the number of embossed rings in the coupler receiver (see annex).

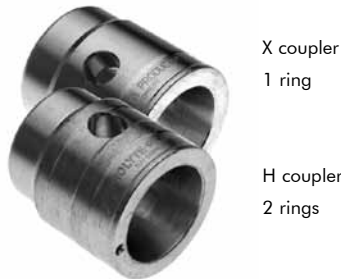


Figure 1. Embossed rings

Prolyte truss X30L

Prolyte X-truss can be recognized by the CCS 6[®] couplers with the Prolyte-logo at the ends of the truss and it has one ring below the pin-holes.

The X30L truss is of a ladder type:

- 51 mm (w) x 239 mm (h) (centre to centre)
- 51 mm (w) x 290 mm (h) (connection outside)
- Chords: tubes 51 x 2 mm
- Diagonals: 16 x 2 mm

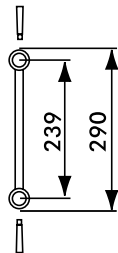


Figure 2. X30L dimensions

Prolyte truss X30D

Prolyte X-truss can be recognized by the CCS 6[®] couplers with the Prolyte-logo at the ends of the truss and it has one ring below the pin-holes.

The X30D truss is of a triangular type:

- 239 mm (w) x 207 mm (h) (centre to centre)
- 290 mm (w) x 258 mm (h) (connection outside)
- Chords: tubes 51 x 2 mm
- Diagonals: 16 x 2 mm

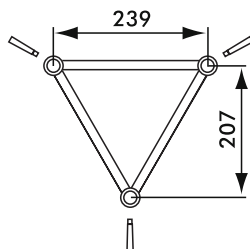


Figure 3. X30D dimensions

Prolyte truss X30V

Prolyte X-truss can be recognized by the CCS6[®] couplers with the Prolyte-logo at the ends of the truss and it has one ring below the pin-holes.

The X30V truss has a square cross-section with chords:

- 239 mm (w) x 239 mm (h) (centre to centre)
- 290 mm (w) x 290 mm (h) (connection outside)
- Chords: tubes 51 x 2 mm
- Diagonals: 16 x 2 mm

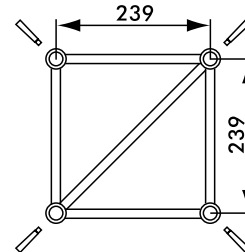


Figure 4. X30V dimensions

Prolyte truss H30L

Prolyte H-truss can be recognized by the CCS6[®] couplers with the Prolyte-logo at the ends of the truss and it has two rings around the pin-holes.

The H30L truss is of a ladder type:

- 48.3 mm (w) x 239 mm (h) (centre to centre)
- 48.3 mm (w) x 287.3 mm (h) (connection outside)
- Chords: tubes 48.3 x 3 mm
- Diagonals: 16 x 2 mm

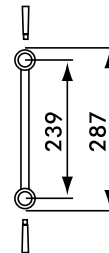


Figure 5. H30L dimensions

Prolyte truss H30D

Prolyte H-truss can be recognized by the CCS6[®] couplers with the Prolyte-logo at the ends of the truss and it has two rings around the pin-holes.

The H30D truss is of a triangular type:

- 239 mm (w) x 207 mm (h) (centre to centre)
- 287.3 mm (w) x 255.3 mm (h) (connection outside)
- Chords: tubes 48.3 x 3 mm
- Diagonals: 16 x 2 mm

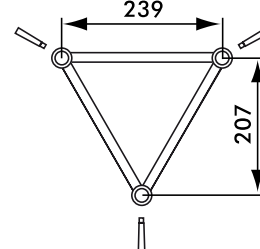


Figure 6. H30D dimensions

Prolyte truss H30V

Prolyte H-truss can be recognized by the CCS6® couplers with the Prolyte-logo at the ends of the truss and it has two rings around the pin-holes.
 The H30V truss has a square cross-section with chords:
 239 mm (w) x 239 mm (h) (centre to centre)
 287.3 mm (w) x 287.3 mm (h) (connection outside)
 Chords: tubes 48.3 x 3 mm
 Diagonals: 16 x 2 mm

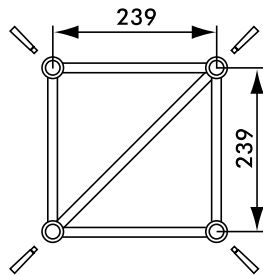


Figure 7. H30V dimensions

Prolyte truss H40L

Prolyte H-truss can be recognized by the CCS6® couplers with the Prolyte-logo at the ends of the truss and it has two rings around the pin-holes.
 The H40L truss is of a triangular type:
 48.3 mm (w) x 339 mm (h) (centre to centre)
 48.3 mm (w) x 390 mm (h) (connection outside)
 Chords: tubes 48.3 x 3 mm
 Diagonals: 20 x 2 mm

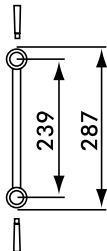


Figure 8. H40L dimensions

Prolyte truss H40D

Prolyte H-truss can be recognized by the CCS6® couplers with the Prolyte-logo at the ends of the truss and it has two rings around the pin-holes.
 The H40D truss is of a triangular type:
 339 mm (w) x 294 mm (h) (centre to centre)
 387.3 mm (w) x 342.3 mm (h) (connection outside)
 Chords: tubes 48.3 x 3 mm
 Diagonals: 20 x 2 mm

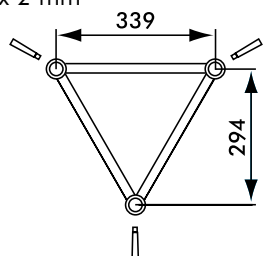


Figure 9. H40D dimensions

Prolyte truss H40V

Prolyte H-truss can be recognized by the CCS6® couplers with the Prolyte-logo at the ends of the truss and it has two rings below the pin-holes.
 The H40V has a square cross-section with chords:
 339 mm (w) x 339 mm (h) (centre to centre)
 387.3 mm (w) x 387.3 mm (h) (connection outside)
 Chords: tubes 48.3 x 3 mm
 Diagonals: 20 x 2 mm

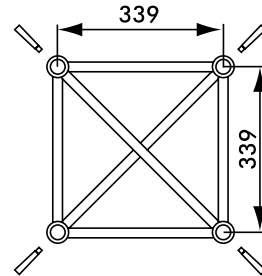


Figure 10. H40V dimensions

2. ASSEMBLY INSTRUCTION

1. Inspect de trusses and coupler parts as described above.
2. Put the conical couplers (CCS6-600) in the conical tube-ends of the truss. Notice the wide side of the truss-pin-hole points outward or upward, see figure 11.
3. Fix the coupler with the tapered steel truss pins (CCS6-603 for repeated assembly) or (CCS6-604 for longer periods of assembled use).
4. Slightly manoeuvre the truss-sections towards each other.
5. Use a red copper hammer of approx. 600gr to hammer the pins in place. Prevent wear on pins and dents in the truss.
6. Lock the truss pins in place with R-clips (CCS6-605) or M8 self-locking nuts (BM-M8-SN).

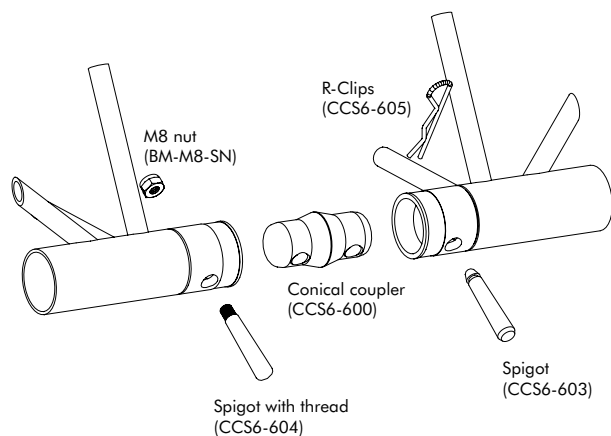


Figure 11. Coupling System

3. DISASSEMBLY

1. Remove the load of the truss and place the truss on the ground.
2. When the span is resting on the ground, the R-clips or M8-selflocking nuts can be removed.
3. Manoeuvre the truss a little if needed to release the tension from the coupling parts.
4. Undo the steel truss pins as much as possible in one strike, preferably with a red copper hammer.

CAUTION!
Never use sharp tools as screwdrivers too disengage truss-pins from the couplers. A truss-pin in apposite direction will do the job just fine.

4. TECHNICAL SPECIFICATIONS

For loading tables of trusses, see appendix A.
For cantilever loading tables, see appendix B.
For structural data of trusses, see appendix C.

Loads at free chords in between two node points

The load capacity of a free chord span is affected by:

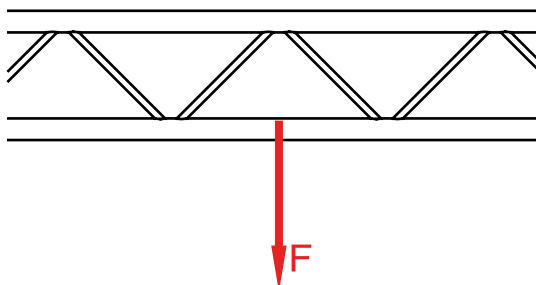
- length of span
- size of tube
- size of the HAZ at node points at both tube ends (for these reasons the CPL on a free tube in H30D truss is bigger as for H30V).

The loads given are calculated in such way that it does not matter whether:

- they apply to top or bottom chords
- loads are suspended at adjacent fields
- the sum of all point loads may not exceed the maximum allowable bending moment of the truss.

In case of having just one point load to be suspended at a free chord length, the load might be higher however this should be checked by an engineer.

- X30D = 120 kg
- X30V = 90 kg
- H30D = 130 kg
- H30V = 100 kg
- H40D = 90 kg
- H40V = 60 kg



NOTE

Due to their structural behaviour technical data for the X30L, H30L and H40L ladder trusses are not given. At all times their structural integrity must be approved by an engineer.

5. TOOLING LIST

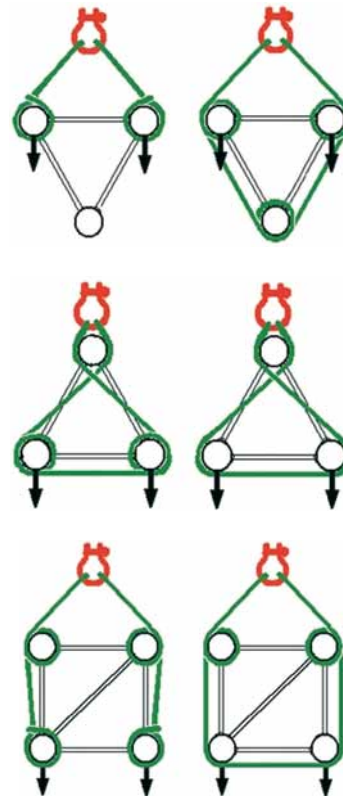
Red copper hammer +/- 600 gr:
to fit the steel conical pins CCS6-603 and CCS6-604.

Wrench with size 13 mm head:
to tighten bolts of the CCS6-604.

Spanner with size 13 mm head:
to tighten bolts of the CCS6-604.

6. SLINGING TRUSSES

Prolyte advises to sling trusses as shown below:



WARNING

Make sure that load bearing parts of Suspension equipment is fire retardant at all times.

APPENDIX A: LOADING TABLES

PROLYTE X30D - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
1	3.3	1719,9	1157.3	1	0.04	1719,9	3795.9	1	0.04	860,0	1898.0	572,7	1263.9	430,0	949.0	3,8
2	6.6	858,1	577.4	4	0.15	913,9	2017.0	3	0.12	685,4	1512.8	457,0	1008.5	379,3	837.1	7,6
3	9.8	404,1	271.9	8	0.31	606,1	1337.7	6	0.24	454,6	1003.3	303,1	668.8	251,5	555.1	11,4
4	13.1	225,6	151.8	14	0.55	451,3	995.9	11	0.43	338,4	746.9	225,6	498.0	187,3	413.3	15,2
5	16.4	143,0	96.2	22	0.86	357,6	789.2	18	0.71	268,2	591.9	178,8	394.6	148,4	327.5	19,0
6	19.7	98,2	66.1	32	1.26	294,5	650.0	26	1.02	220,9	487.5	147,3	325.0	122,2	269.7	22,8
7	23.0	71,1	47.9	43	1.69	248,9	549.3	35	1.38	186,7	412.0	124,5	274.7	103,3	228.0	26,6
8	26.2	53,6	36.0	57	2.24	214,2	472.8	45	1.77	160,7	354.6	107,1	236.4	88,9	196.2	30,4
9	29.5	41,5	27.9	72	2.83	186,8	412.3	57	2.24	140,1	309.3	93,4	206.2	77,5	171.1	34,2
10	32.8	32,9	22.1	89	3.50	164,5	363.1	71	2.79	123,4	272.4	82,3	181.6	68,3	150.7	38,0
11	36.1	26,5	17.9	107	4.21	146,0	322.1	86	3.39	109,5	241.6	73,0	161.1	60,6	133.7	41,8
12	39.4	21,7	14.6	127	5.0	130,2	287.2	102	4.02	97,6	215.4	65,1	143.6	54,0	119.2	45,6
13	42.6	17,9	12.1	150	5.90	116,5	257.1	120	4.72	87,4	192.8	58,2	128.5	48,3	106.7	49,4
14	45.9	14,9	10.0	174	6.85	104,5	230.6	139	5.47	78,4	173.0	52,3	115.3	43,4	95.7	53,2
15	49.2	12,5	8.4	199	7.83	93,9	207.2	159	6.26	70,4	155.4	46,9	103.6	39,0	86.0	57,0
16	52.5	10,5	7.1	227	8.94	84,3	186.1	181	7.13	63,2	139.6	42,2	93.0	35,0	77.2	60,8

1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

PROLYTE X30V - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
1	3.3	1985,3	1335.8	1	0.04	1985,3	4381.6	1	0.04	992,7	2190.8	660,9	1458.7	496,3	1095.4	5,1
2	6.6	990,1	666.2	4	0.16	1980,2	4370.3	3	0.12	990,1	2185.2	658,4	1453.0	495,1	1092.6	10,2
3	9.8	658,4	443.0	9	0.35	1405,1	3101.1	7	0.28	987,6	2179.5	655,8	1447.4	493,8	1089.8	15,3
4	13.1	492,5	331.4	17	0.67	1049,4	2316.0	13	0.51	787,0	1737.0	524,7	1158.0	435,5	961.1	20,4
5	16.4	334,0	224.7	26	1.02	834,9	1842.7	21	0.83	626,2	1382.0	417,5	921.3	346,5	764.7	25,5
6	19.7	230,4	155.0	37	1.46	691,1	1525.2	30	1.18	518,3	1143.9	345,5	762.6	286,8	633.0	30,6
7	23.0	167,9	113.0	51	2.01	587,6	1296.9	41	1.61	440,7	972.7	293,8	648.4	243,9	538.2	35,7
8	26.2	127,3	85.7	66	2.59	509,4	1124.2	53	2.08	382,0	843.2	254,7	562.1	211,4	466.6	40,8
9	29.5	99,6	67.0	84	3.31	448,0	988.7	67	2.63	336,0	741.5	224,0	494.3	185,9	410.3	45,9
10	32.8	79,7	53.6	103	4.06	398,3	879.1	83	3.27	298,8	659.3	199,2	439.6	165,3	364.8	51,0
11	36.1	65,0	43.7	125	4.92	357,3	788.5	100	3.94	267,9	591.3	178,6	394.2	148,3	327.2	56,1
12	39.4	53,8	36.2	149	5.87	322,6	712.0	119	4.69	241,9	534.0	161,3	356.0	133,9	295.5	61,2
13	42.6	45,1	30.3	175	6.89	292,9	646.4	140	5.51	219,7	484.8	146,4	323.2	121,5	268.2	66,3
14	45.9	38,1	25.7	202	7.95	267,0	589.4	162	6.38	200,3	442.0	133,5	294.7	110,8	244.6	71,4
15	49.2	32,6	21.9	233	9.17	244,3	539.2	186	7.32	183,2	404.4	122,2	269.6	101,4	223.8	76,5
16	52.5	28,0	18.8	264	10.39	224,1	494.6	212	8.35	168,1	370.9	112,0	247.3	93,0	205.3	81,6

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

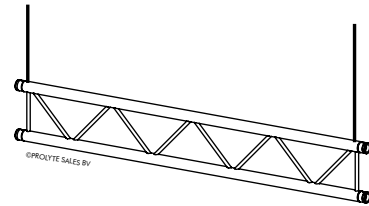
- Loading figures only valid for static loads and spans with two supporting points
- Spans must be supported at each end
- If dynamic loads or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For spans longer than indicated and with a different loading set-up use the KYLo programme
- For structures contact Prolyte



Mark approval certificate No. 2238/04
 Test report No. 2237/04
 TÜV certification only valid for loading table above.

PROLYTE X30L - ALLOWABLE LOADING (SPAN SUPPORTED ON TOP CHORD)

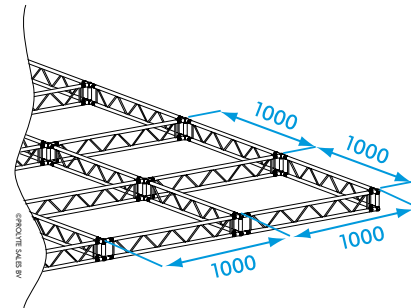
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
1	3.3	992,2	667.6	0	0	992,2	2189.8	0	0
2	6.6	339,0	228.1	1	0.04	339,0	748.2	1	0.04
3	9.8	114,0	76.7	2	0.08	171,0	377.4	2	0.08
4	13.1	44,0	29.6	3	0.12	88,0	194.2	2	0.08
5	16.4	20,0	13.5	3	0.12	50,0	110.4	2	0.08
6	19.7	9,0	6.1	3	0.12	26,0	57.4	2	0.08



1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg
SPANS MUST BE SUPPORTED AT EACH END. LOADS MUST BE SUSPENDED FROM BOTTOM CHORD ONLY.

PROLYTE X30L - ALLOWABLE LOADING (TOP CHORD SIDEWAYS SUPPORTED EACH METRE)

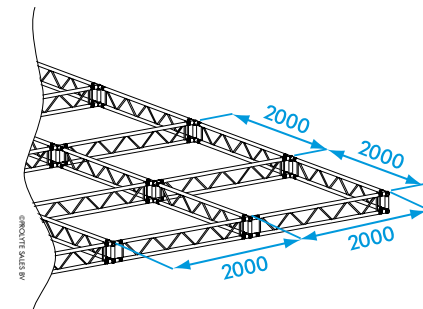
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13.1	245,8	165.4	17	0.67	523,8	1156.0	13	0.51
5	16.4	166,5	112.1	26	1.02	416,3	918.9	21	0.83
6	19.7	114,7	77.2	37	1.46	344,2	759.6	30	1.18
7	23.0	83,5	56.2	51	2.01	292,2	645.0	41	1.61
8	26.2	63,2	42.5	66	2.60	252,9	558.1	53	2.09
9	29.5	49,3	33.2	84	3.31	222,0	489.9	67	2.64
10	32.8	39,0	25.6	100	3.94	196,9	434.6	83	3.27
11	36.1	27,8	18.7	110	4.33	176,2	388.8	100	3.94
12	39.4	20,7	13.9	120	4.72	158,6	350.0	119	4.69



1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg
SPANS MUST BE SUPPORTED AT EACH END. LOADS MUST BE SUSPENDED FROM BOTTOM CHORD ONLY.

PROLYTE X30L - ALLOWABLE LOADING (TOP CHORD SIDEWAYS SUPPORTED EVERY 2 METRES)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13.1	82,5	55.5	5	0.20	165,0	364.2	4	0.16
5	16.4	51,7	34.8	8	0.32	129,3	285.4	7	0.28
6	19.7	35,0	23.6	12	0.47	105,0	231.7	10	0.39
7	23.0	24,9	16.8	16	0.63	87,2	192.5	13	0.51
8	26.2	18,4	12.4	21	0.83	73,5	162.2	17	0.67
9	29.5	13,9	9.3	27	1.06	62,5	137.9	22	0.87
10	32.8	10,7	7.2	33	1.30	53,4	117.9	27	1.06
11	36.1	8,3	5.6	40	1.57	45,7	100.8	32	1.26
12	39.4	6,5	4.4	48	1.89	39,0	86.1	38	1.50



1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg
SPANS MUST BE SUPPORTED AT EACH END. LOADS MUST BE SUSPENDED FROM BOTTOM CHORD ONLY.

PROLYTE H30D - ALLOWABLE LOADING																		
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS											SPAN	
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS				
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	kg	lbs	total weight
1	3.3	1718,7	1156.5	1	0.04	1718,7	3793.3	1	0.04	859,4	1896.6	572,1	1262.6	429,7	948.3			5,0
2	6.6	856,9	576.6	4	0.16	1259,2	2779.1	3	0.12	856,9	1891.1	569,6	1257.1	428,4	945.6			10,0
3	9.8	556,9	374.7	8	0.31	835,3	1843.5	6	0.24	626,5	1382.6	417,7	921.8	346,7	765.1			15,0
4	13.1	311,1	209.3	14	0.55	622,1	1373.0	11	0.43	466,6	1029.7	311,1	686.5	258,2	569.8			20,0
5	16.4	197,3	132.7	22	0.87	493,2	1088.5	18	0.71	369,9	816.3	246,6	544.2	204,7	451.7			25,0
6	19.7	135,5	91.2	32	1.26	406,4	896.9	26	1.02	304,8	672.7	203,2	448.5	168,7	372.2			30,0
7	23.0	98,2	66.1	44	1.73	343,7	758.5	35	1.38	257,8	568.9	171,9	379.3	142,6	314.8			35,0
8	26.2	74,0	49.8	57	2.24	296,1	653.4	46	1.81	222,0	490.0	148,0	326.7	122,9	271.2			40,0
9	29.5	57,4	38.6	72	2.83	258,4	570.4	58	2.28	193,8	427.8	129,2	285.2	107,3	236.7			45,0
10	32.8	45,6	30.7	89	3.50	227,8	502.8	71	2.79	170,9	377.1	113,9	251.4	94,6	208.7			50,0
11	36.1	36,8	24.8	108	4.25	202,4	446.6	86	3.39	151,8	334.9	101,2	223.3	84,0	185.3			55,0
12	39.4	30,1	20.3	128	5.04	180,7	398.8	103	4.06	135,5	299.1	90,4	199.4	75,0	165.5			60,0
13	42.6	24,9	16.8	150	5.91	162,0	357.5	120	4.72	121,5	268.1	81,0	178.8	67,2	148.4			65,0
14	45.9	20,8	14.0	174	6.85	145,6	321.3	140	5.51	109,2	241.0	72,8	160.7	60,4	133.4			70,0
15	49.2	17,5	11.8	200	7.87	131,1	289.3	160	6.30	98,3	216.9	65,5	144.6	54,4	120.0			75,0
16	52.5	14,8	9.9	228	8.98	118,0	260.5	182	7.17	88,5	195.4	59,0	130.2	49,0	108.1			80,0

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

PROLYTE H30V - ALLOWABLE LOADING																		
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS											SPAN	
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS				
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	kg	lbs	total weight
1	3.3	1984,1	1335.0	1	0.04	1984,1	4378.9	1	0.04	992,1	2189.5	660,3	1457.3	496,0	1094.7			6,3
2	6.6	988,9	665.4	4	0.16	1977,8	4365.0	3	0.12	988,9	2182.5	657,2	1450.4	494,5	1091.3			12,6
3	9.8	657,2	442.2	9	0.35	1936,7	4274.4	7	0.28	985,8	2175.6	654,0	1443.4	492,9	1087.8			18,9
4	13.1	491,3	330.6	17	0.67	1447,0	3193.6	13	0.51	982,6	2168.6	650,9	1436.5	491,3	1084.3			25,2
5	16.4	391,8	263.6	26	1.02	1152,0	2542.4	21	0.83	864,0	1906.8	576,0	1271.2	478,1	1055.1			31,5
6	19.7	318,1	214.0	37	1.46	954,2	2105.9	30	1.18	715,6	1579.4	477,1	1052.9	396,0	873.9			37,8
7	23.0	232,0	156.1	51	2.01	812,0	1792.1	41	1.61	609,0	1344.1	406,0	896.1	337,0	743.7			44,1
8	26.2	176,2	118.5	66	2.60	704,6	1555.1	53	2.09	528,5	1166.3	352,3	775.5	292,4	645.4			50,4
9	29.5	137,9	92.8	84	3.31	620,4	1369.2	67	2.64	465,3	1026.9	310,2	684.6	257,5	568.2			56,7
10	32.8	110,5	74.3	104	4.09	552,4	1219.0	83	3.27	414,3	914.3	276,2	609.5	229,2	505.9			63,0
11	36.1	90,2	60.7	125	4.92	496,1	1095.0	100	3.94	372,1	821.2	248,1	547.5	205,9	454.4			69,3
12	39.4	74,8	50.3	149	5.87	448,7	990.4	119	4.69	336,6	742.8	224,4	495.2	186,2	411.0			75,6
13	42.6	62,8	42.3	175	6.89	408,2	900.8	140	5.51	306,1	675.6	204,1	450.4	169,4	373.8			81,9
14	45.9	53,3	35.8	203	7.99	372,9	823.1	163	6.42	297,7	617.3	186,5	411.5	154,8	341.6			88,2
15	49.2	45,6	30.7	233	9.17	342,0	754.8	187	7.36	256,5	566.1	171,0	377.4	141,9	313.2			94,5
16	52.5	39,3	26.5	265	10.43	314,5	694.1	212	8.35	235,9	520.6	157,3	347.1	130,5	288.1			100,8

1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

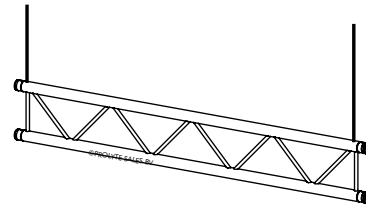
- Loading figures only valid for static loads and spans with two supporting points
- Spans must be supported at each end
- If dynamic loads or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For spans longer than indicated and with a different loading set-up use the KYLo programme
- For structures contact Prolyte



Mark approval certificate No. 2238/04
 Test report No. 2237/04
 TÜV certification only valid for loading table above.

PROLYTE H30L - ALLOWABLE LOADING (SPAN SUPPORTED ON TOP CHORD)

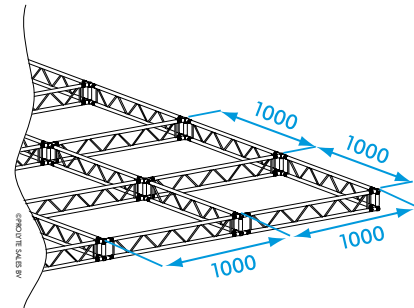
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
1	3.3	992,2	667.6	0	0	992,2	2189.8	0	0
2	6.6	359,0	241.6	1	0.04	389,0	858.5	1	0.04
3	9.8	135,0	90.8	2	0.08	203,0	448.0	2	0.08
4	13.1	52,0	35.0	2	0.08	104,0	229.5	2	0.08
5	16.4	25,0	16.8	3	0.12	62,0	136.8	2	0.08
6	19.7	11,0	7,4	3	0.12	33,0	72.8	2	0.08



1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg
SPANS MUST BE SUPPORTED AT EACH END. LOADS MUST BE SUSPENDED FROM BOTTOM CHORD ONLY.

PROLYTE H30L - ALLOWABLE LOADING (TOP CHORD SIDEWAYS SUPPORTED EACH METRE)

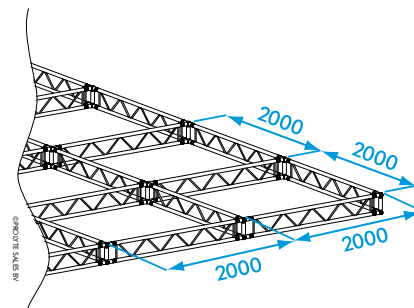
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13.1	245,8	165.4	17	0.67	724,0	1597.9	13	0.51
5	16.4	196,0	131.9	26	1.02	576,5	1272.3	21	0.83
6	19.6	159,2	107.1	37	1.46	477,7	1054.2	30	1.18
7	23.0	116,2	78.2	51	2.01	406,6	897.5	41	1.61
8	26.2	88,3	59.4	66	2.60	353,0	779.1	53	2.09
9	29.5	69,1	46.5	84	3.31	310,9	686.3	67	2.64
10	32.8	53,3	35.8	100	3.94	277,0	611.3	83	3.27
11	36.1	39,3	26.4	110	4.33	249,0	549.4	100	3.94
12	39.4	29,6	19.9	120	7.72	225,3	497.3	119	4.69



1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg
SPANS MUST BE SUPPORTED AT EACH END. LOADS MUST BE SUSPENDED FROM BOTTOM CHORD ONLY.

PROLYTE H30L - ALLOWABLE LOADING (TOP CHORD SIDEWAYS SUPPORTED EVERY 2 METRES)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13.1	95,0	63.9	4	0.16	190,0	419.3	4	0.16
5	16.4	59,7	40.2	7	0.28	149,3	329.5	6	0.24
6	19.7	40,6	27.3	10	0.39	121,7	268.5	8	0.31
7	23.0	29,0	19.5	14	0.55	101,5	224.0	11	0.43
8	26.2	21,5	14.5	18	0.71	86,0	189.8	14	0.55
9	29.5	16,4	11.0	23	0.91	73,6	162.5	18	0.71
10	32.8	12,7	8.5	28	1.10	63,4	139.9	22	0.87
11	36.1	10,0	6.7	34	1.34	54,8	120.9	27	1.06
12	39.4	7,9	5.3	40	1.57	47,3	104.5	32	1.26



1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg
SPANS MUST BE SUPPORTED AT EACH END. LOADS MUST BE SUSPENDED FROM BOTTOM CHORD ONLY.

PROLYTE H40D - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS		SINGLE LOAD FOURTH POINTS		SINGLE LOAD FIFTH POINTS		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	1103,1	742.34	3	0.12	1790,5	3951.7	2	0.08	1103,1	2434.6	733,7	1619.4	551,6	1217.3	10,0
3	9.8	733,7	493.7	6	0.24	1189,5	2625.3	5	0.20	892,1	1969.0	594,8	1312.6	493,7	1089.5	15,0
4	13.1	443,9	298.7	10	0.39	887,8	1959.3	8	0.31	665,8	1469.5	443,9	979.7	368,4	813.1	20,0
5	16.4	282,3	189.9	16	0.63	705,7	1557.5	13	0.51	529,3	1168.1	352,9	778.8	292,9	646.4	25,0
6	19.7	194,5	130.9	23	0.91	583,5	1287.8	18	0.71	437,6	965.9	291,8	643.9	242,2	534.4	30,0
7	23.0	141,6	95.3	31	1.22	495,5	1093.6	25	0.98	371,6	820.2	247,8	546.8	205,6	453.8	35,0
8	26.2	107,2	72.1	41	1.61	428,9	946.5	33	1.30	321,7	709.9	214,4	473.3	178,0	392.8	40,0
9	29.5	83,7	56.3	51	2.01	376,5	831.0	41	1.61	282,4	623.2	188,3	415.5	156,3	344.8	45,0
10	32.8	66,8	45.0	63	2.48	334,1	737.4	51	2.01	250,6	553.0	167,1	368.7	138,7	306.0	50,0
11	36.1	54,4	36.6	77	3.03	299,0	659.8	61	2.40	224,2	494.9	149,5	329.9	124,1	273.8	55,0
12	39.4	44,9	30.2	91	3.58	269,3	594.2	73	2.87	201,9	445.7	134,6	297.1	111,7	246.6	60,0
13	42.6	37,5	25.2	107	4.21	243,7	537.9	86	3.39	182,8	403.4	121,9	269.0	101,2	223.2	65,0
14	45.9	31,6	21.3	124	4.88	221,5	488.9	100	3.94	166,1	366.6	110,8	244.4	91,9	202.9	70,0
15	49.2	26,9	18.1	143	5.63	201,9	445.6	114	4.49	151,4	334.2	101,0	222.8	83,8	184.9	75,0
16	52.5	23,1	15.5	162	6.38	184,4	407.1	130	5.12	138,3	305.3	92,2	203.5	76,5	168.9	80,0
17	55.8	19,9	13.4	183	7.20	168,7	372.4	147	5.79	126,6	279.3	84,4	186.2	70,0	154.5	85,0
18	59.0	17,2	11.6	206	8.11	154,5	341.0	165	6.49	115,9	255.7	77,3	170.5	64,1	141.5	90,0
19	62.3	14,9	10.0	229	9.02	141,5	312.3	183	7.20	106,1	234.2	70,8	156.1	58,7	129.6	95,0
20	65.6	13,0	8.7	254	10	129,6	285.9	203	7.99	97,2	214.4	64,8	143.0	53,8	118.7	100,0

1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

- Loading figures only valid for static loads and spans with two supporting points
- Spans must be supported at each end
- If dynamic loads or wind loads are involved, or more supporting points are applied, contact a structural engineer or Prolyte
- Loading figures are based on German DIN standards; to comply with BS 7905-2 / ANSI E1.2-2006 / CWA 15902-2, the loading data must be multiplied by 0.85
- The self-weight of the trusses has already been taken into account
- For spans longer than indicated and with a different loading set-up use the KYLo programme
- For structures contact Prolyte



Mark approval certificate No. 2238/04
 Test report No. 2237/04
 TÜV certification only valid for loading table above.

PROLYTE H40V - ALLOWABLE LOADING																
SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS										SPAN
						CENTRE POINT LOAD		DEFLECTION		SINGLE LOAD THIRD POINTS LOAD PER POINT		SINGLE LOAD FOURTH POINTS LOAD PER POINT		SINGLE LOAD FIFTH POINTS LOAD PER POINT		
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch	kg	lbs	kg	lbs	kg	lbs	total weight
2	6.6	1272,7	856.3	3	0.12	2545,3	5617.5	2	0.08	1272,7	2808.7	846,1	1867.4	636,3	1404.4	13,8
3	9.8	846,1	569.3	7	0.28	2538,4	5602.3	5	0.20	1269,2	2801.1	842,7	1859.8	634,6	1400.6	20,7
4	13.1	632,9	425.8	12	0.47	2056,6	4538.8	9	0.35	1265,8	2793.5	839,2	1852.2	632,9	1396.8	27,6
5	16.4	504,9	339.7	18	0.71	1639,0	3617.4	15	0.59	1229,3	2713.0	819,5	1808.7	631,2	1392.9	34,5
6	19.7	419,6	282.3	27	1.06	1359,5	3000.5	21	0.83	1019,7	2250.4	679,8	1500.3	564,2	1245.2	41,4
7	23.0	331,1	222.8	36	1.42	1158,9	2557.7	29	1.14	869,2	1918.3	579,5	1278.9	480,9	1061.5	48,3
8	26.2	251,9	169.5	47	1.85	1007,6	2223.7	38	1.50	755,7	1667.8	503,8	1111.9	418,1	922.8	55,2
9	29.5	197,6	132.9	60	2.36	889,1	1962.3	48	1.89	666,8	1471.7	444,6	981.1	369,0	814.3	62,1
10	32.8	158,7	106.8	74	2.91	793,6	1751.6	59	2.32	595,2	1313.7	396,8	875.8	329,4	726.9	69,0
11	36.1	130,0	87.5	89	3.50	714,9	1577.8	71	2.80	536,2	1183.4	357,5	788.9	296,7	654.8	75,9
12	39.4	108,1	72.8	106	4.17	648,7	1431.7	85	3.35	486,5	1073.8	324,4	715.9	269,2	594.2	82,8
13	42.6	91,1	61.3	125	4.92	592,2	1306.9	100	3.94	444,1	980.2	296,1	653.5	245,8	542.4	89,7
14	45.9	77,6	52.2	144	5.67	543,2	1198.9	116	4.57	407,4	899.2	271,6	599.5	225,4	497.5	96,6
15	49.2	66,7	44.9	166	6.54	500,3	1104.3	133	5.24	375,3	828.2	250,2	552.1	207,6	458.3	103,5
16	52.5	57,8	38.9	189	7.74	462,4	1020.5	151	5.94	346,8	765.4	231,2	510.2	191,9	423.5	110,4
17	55.8	50,4	33.9	213	8.39	428,5	945.7	171	6.73	321,4	709.3	214,2	472.8	177,8	392.5	117,3
18	59.0	44,2	29.8	239	9.41	398,0	878.3	191	7.52	298,5	658.8	199,0	439.2	165,2	364.5	124,2
19	62.3	39,0	26.2	266	10.47	370,3	817.3	213	8.39	277,7	613.0	185,2	408.6	153,7	339.2	131,1
20	65.6	34,5	23.2	295	11.61	345,1	761.6	236	9.29	258,8	571.2	172,5	380.8	143,2	316.1	138,0

1 inch = 25,4 mm | 1 m = 3.28 ft | 1 lbs = 0,453 kg

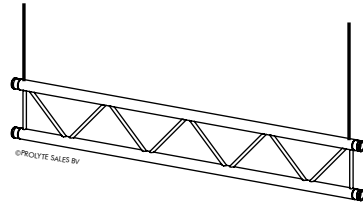
- Loading figures only valid for static loads and spans with two supporting points
- Spans must be supported at each end
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 Test report No. 2237/04
 TÜV certification only valid for loading table above.

PROLYTE H40L - ALLOWABLE LOADING (SPAN SUPPORTED ON TOP CHORD)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
1	3.3	1276,6	859.0	0	0	1276,6	2817.5	0	0
2	6.6	541,0	364.0	1	0.04	541,0	1194.0	1	0.04
3	9.8	182,0	122.5	1	0.04	273,0	602.5	1	0.04
4	13.1	68,0	45.8	2	0.08	136,0	300.2	1	0.04
5	16.4	32,0	21.5	2	0.08	80,0	176.6	1	0.04
6	19.7	17,0	11.4	2	0.08	51,0	112.6	2	0.08

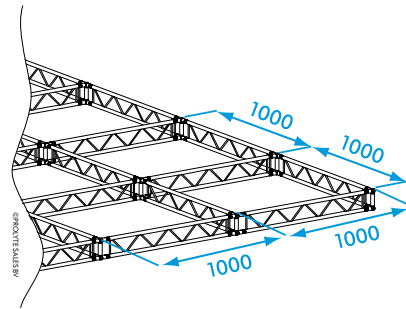


1 inch = 25.4 mm | 1m = 3.28 ft | 1 lbs = 0.453 kg

SPANS MUST BE SUPPORTED AT EACH END.
 LOADS MUST BE SUSPENDED FROM BOTTOM CHORD ONLY.

PROLYTE H40L - ALLOWABLE LOADING (TOP CHORD SIDEWAYS SUPPORTED EACH METRE)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13.1	316,9	213.2	12	0.47	1014,0	2237.9	9	0.35
5	16.4	252,9	170.2	18	0.71	808,5	1784.4	15	0.59
6	19.6	210,3	141.5	26	1.02	671,0	1480.9	21	0.83
7	23.0	163,5	110.0	36	1.42	572,4	1263.2	28	1.10
8	26.2	124,5	83.8	46	1.81	498,0	1099.1	37	1.46
9	29.5	97,7	65.8	59	2.32	439,8	970.7	47	1.85
10	32.8	78,6	52.9	73	2.87	393,0	867.4	58	2.28
11	36.1	64,4	43.4	88	3.46	354,4	782.2	70	2.76
12	39.4	53,7	36.1	105	4.13	322,0	710.7	84	3.31

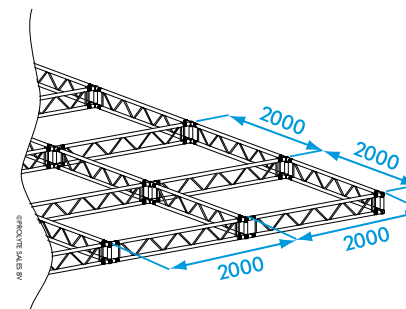


1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

SPANS MUST BE SUPPORTED AT EACH END.
 LOADS MUST BE SUSPENDED FROM BOTTOM CHORD ONLY.

PROLYTE H40L - ALLOWABLE LOADING (TOP CHORD SIDEWAYS SUPPORTED EVERY 2 METRES)

SPAN		UNIFORMLY DISTRIBUTED LOAD		DEFLECTION		CPL		DEFLECTION	
		UDL							
m	ft	kg/m	lbs/ft	mm	inch	kg	lbs	mm	inch
4	13.1	133,0	89.5	3	0.12	266,0	587.1	2	0.08
5	16.4	84,0	56.5	5	0.20	210,1	463.7	4	0.16
6	19.7	57,4	38.7	7	0.28	172,3	380.3	6	0.24
7	23.0	41,4	27.9	9	0.35	144,9	319.9	8	0.31
8	26.2	31,0	20.9	12	0.35	124,0	273.7	10	0.39
9	29.5	23,9	16.1	16	0.63	107,4	237.0	13	0.51
10	32.8	18,8	12.6	19	0.75	93,8	207.0	16	0.63
11	36.1	15,0	10.1	23	0.91	82,4	181.9	19	0.75
12	39.4	12,1	8.1	28	1.10	72,7	160.4	22	0.87



1 inch = 25,4 mm | 1m = 3.28 ft | 1 lbs = 0,453 kg

SPANS MUST BE SUPPORTED AT EACH END.
 LOADS MUST BE SUSPENDED FROM BOTTOM CHORD ONLY.

APPENDIX B: CANTILEVER LOADING TABLES

CANTILEVER LOAD X30D		
l _k (m)	P (kg)	q (kg/m)
0,5	642	1766
1,0	393	639
1,5	282	322
2,0	219	193
2,5	178	128
3,0	147	91
3,5	124	68
4,0	107	52

CANTILEVER LOAD X30V		
l _k (m)	P (kg)	q (kg/m)
0,5	701	1985
1,0	437	990
1,5	316	619
2,0	247	386
2,5	201	263
3,0	169	190
3,5	144	144
4,0	126	112

CANTILEVER LOAD H30D		
l _k (m)	P (kg)	q (kg/m)
0,5	849	1765
1,0	527	846
1,5	381	430
2,0	297	260
2,5	242	173
3,0	203	123
3,5	172	92
4,0	148	70

CANTILEVER LOAD H30V		
l _k (m)	P (kg)	q (kg/m)
0,5	992	1984
1,0	989	989
1,5	781	657
2,0	626	491
2,5	521	351
3,0	446	256
3,5	388	194
4,0	343	152

CANTILEVER LOAD H40D		
l _k (m)	P (kg)	q (kg/m)
0,5	1035	2271
1,0	680	1031
1,5	505	543
2,0	400	336
2,5	330	228
3,0	281	164
3,5	243	124
4,0	214	96

CANTILEVER LOAD H40V		
l _k (m)	P (kg)	q (kg/m)
0,5	1277	2553
1,0	1273	1273
1,5	995	846
2,0	815	632
2,5	688	442
3,0	595	326
3,5	523	251
4,0	465	198

APPENDIX C: STRUCTURAL DATA OF TRUSSES

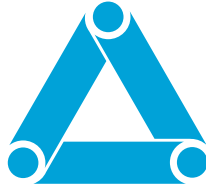
TYPE	Material	Cross-section single tubes						Conical coupler system	Permissible normal force in the single tubes		Truss length	Truss wide	Cross-section complete truss			Permissible internal force complete truss					Dead weight		
		chord tubes			diagonals				chord tubes	diagonals			h	b	A	I _y	I _z	M _y	M _z	N		Q _z / V _z	Q _y / V _y
		D	t	A	D	t	A		N	N													
X30D	EN AW 6082 T6	51	2	3,079	16	2	0,880	CCS6	22,17	7,04	20,70	23,90	9,24	771,2	763,1	4,59	5,30	66,50	8,62	4,98	3,8		
X30V	EN AW 6082 T6	51	2	3,079	16	2	0,880	CCS6	22,17	7,04	23,90	23,90	12,32	1526,3	1526,3	10,60	10,60	88,67	9,95	9,95	5,1		
H30D	EN AW 6082 T6	48	3	4,241	16	2	0,880	CCS6	30,54	7,04	20,70	23,90	12,72	1057,3	1047,9	6,32	7,30	91,61	8,62	4,98	5		
H30V	EN AW 6082 T6	48	3	4,241	16	2	0,880	CCS6	30,54	7,04	23,90	23,90	16,96	2095,9	2095,9	14,60	14,60	122,15	9,95	9,95	6,3		
S36V	EN AW 6082 T6	50	4	5,781	25	3	2,073	CCS7	41,62	16,59	29,90	29,90	23,12	4445,1	4445,1	24,89	24,89	166,48	23,46	23,46	12		
S36R	EN AW 6082 T6	50	4	5,781	25	3	2,073	CCS7	41,62	16,59	29,90	20,70	23,12	4445,1	1250,0	24,89		166,48	23,46		10,5		
X40D	EN AW 6082 T6	51	2	3,079	20	2	1,131	CCS6	22,17	9,05	29,40	33,90	9,24	1531,6	1519,4	6,52	7,51	66,50	11,08	6,40	4,1		
X40V	EN AW 6082 T6	51	2	3,079	20	2	1,131	CCS6	22,17	9,05	33,90	33,90	12,32	3038,9	3038,9	15,03	15,03	88,67	12,80	12,80	5,6		
H40D	EN AW 6082 T6	48	3	4,241	20	2	1,131	CCS6	30,54	9,05	29,40	33,90	12,72	2104,8	2089,8	8,98	10,35	91,61	11,08	6,40	5		
H40V	EN AW 6082 T6	48	3	4,241	20	2	1,131	CCS6	30,54	9,05	33,90	33,90	16,96	4179,5	4179,5	20,70	20,70	122,15	12,80	12,80	6,9		

D = Diameter
t = Thickness
A = Surface area

I = Moment of inertia

M = bending moment
N = Normal force
Q / V = Shear force

APPENDIX D CE-DECLARATION OF CONFORMITY



PROLYTE PRODUCTS

EC-DECLARATION OF CONFORMITY FOR MACHINERY (Directive 2006/42/EEC Annex I)

Prolyte Products BV,
Industriepark 31,
9351 PA Leek, The Netherlands,

Herewith declares that:

Prolyte Aluminium trusses X/H30L, X/H30D, X/H30V, X/H40L, X/H40D, X/H40V

- are in compliance with the Machinery Directive 2006/42/EEC annex I
- the following harmonized standards have been applied (or parts/clauses of):
EN 292-1, EN 292-2, EN 294, EN 349
- the following national technical standards and specifications have been used
(or parts/clauses of):
DIN 18000-1, DIN 4113- all parts , BGV C1 / GUV 6.15, BS 7905-2, CWA 15902-2, EN 10002-1,
EN 1990, EN 1999 all parts, EN 30042:1994, ISO 3834-1 / 3, EN 292-1 / 2, EN 754 all parts, EN
755 all parts, EN 515, EN 573, EN 10204:2004

Leek, The Netherlands 28-08-2009,

M. Hendriks

Technical Director