

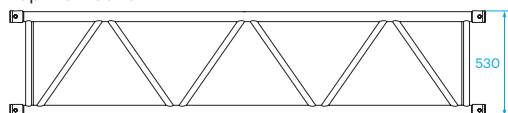
## PRODUCT DATA SHEET

S52 Series truss is constructed of main chords (50 x 4 mm) and diagonal members (25 x 3 mm) (S52F) or 30 x 3mm (S52V and SV), and uses the CCS7 coupling system. Prolyte supplies a variety of S52 Series truss elements that provide maximum flexibility, including standard or custom-made lengths, circles and arches and several types of corners. Prolyte can create custom-made pieces on request. For obvious reasons, the S52F is not available in curved sections.

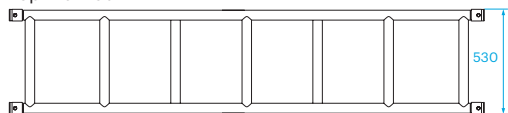
The S52SV has 4-sided diagonal webbing and can therefore handle vertical as well as horizontal loads. The S52V/S52F can only handle vertical loading. The S52F folding truss can save up to 70-80% of warehouse and truck space, while the smart placing of the hinges reduces the risk of hand and finger injuries. Thanks to the clever spigot pin orientation in the couplers, assembly of the truss is easy.

### S52SV - S52V

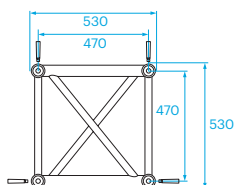
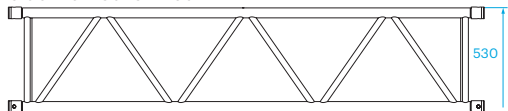
Top View S52SV



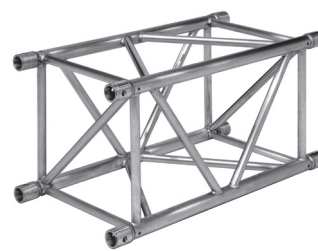
Top View S52V



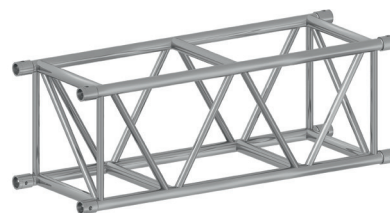
Side View S52SV - S52V



S52SV



S52V



### Technical Specifications - S52 Series

Types	Folding (F), Square (V)
Alloy	EN AW 6082 T6
Main Chords	50 x 4 mm
Diagonal Members	S52F - 25 x 3 mm S52V/SV - 30 x 3 mm
Coupling System	CCS7

Structural data can be found at [www.prolyte.com](http://www.prolyte.com)

### S52V / S52SV / S52F - Standard available Lengths and Codes

Metres	Feet	Code*
0,60	1.97	S52--L060 S52F-L060
0,80	2.62	S52--L080 S52F-L080
1,00	3.28	S52--L100
1,20	3.94	S52--L120 S52F-L120
1,50	4.92	S52--L150
1,60	5.25	S52--L160 S52F-L160
2,00	6.56	S52--L200
2,40	7.87	S52--L240 S52F-L240
2,50	8.20	S52--L250
3,00	9.84	S52--L300
3,20	10.50	S52--L320
4,00	13.12	S52--L400

\*on • indicate V for Square and SV for Square truss with 4-sided webbing. Example: S52V-L200

# S52SV - S52V SERIE TRUSS



## S52SV - Allowable Loading

SPAN		Uniformly Distributed Load		DEFLECTION		Centre Point Load		DEFLECTION		MAXIMUM ALLOWABLE POINT LOADS						SPAN
		UDL	UDL			CPL	CPL			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	kgs	lbs	mm	inch	kgs	lbs	kgs	lbs	kgs	lbs	total weight
3	9,8	1880,2	1265,1	5	0,2	2946,1	6501,9	4	0,2	1863,5	4112,8	1410,7	3113,4	1144,2	2525,2	45,0
4	13,1	1406,8	946,6	9	0,4	2505,6	5529,8	7	0,3	1584,5	3496,9	1239,4	2735,3	1028,6	2270,1	60,0
5	16,4	1122,7	755,5	15	0,6	2179,5	4810,2	12	0,5	1384,5	3055,5	1109,0	2447,6	927,3	2046,5	75,0
6	19,7	933,4	628,0	21	0,8	1925,9	4250,5	17	0,7	1245,2	2748,1	1013,9	2237,7	846,0	1867,2	90,0
7	23,0	686,7	462,1	29	1,1	1722,6	3801,8	23	0,9	1129,9	2493,8	932,5	2058,1	752,1	1660,0	105,0
8	26,2	522,6	351,7	37	1,5	1555,6	3433,2	30	1,2	1032,8	2279,4	862,0	1902,4	675,9	1491,6	120,0
9	29,5	410,1	275,9	47	1,9	1415,7	3124,5	38	1,5	949,7	2096,1	800,1	1765,8	612,6	1351,9	135,0
10	32,8	329,6	221,8	59	2,3	1296,6	2861,6	47	1,8	877,7	1937,1	725,7	1601,6	559,1	1233,9	150,0
11	36,1	270,1	181,7	71	2,8	1193,7	2634,6	57	2,2	814,5	1797,6	661,8	1460,7	513,2	1132,6	165,0
12	39,4	224,8	151,2	84	3,3	1103,8	2436,1	67	2,7	758,6	1674,1	607,0	1339,7	473,3	1044,6	180,0
13	42,6	189,5	127,5	99	3,9	1024,4	2260,8	79	3,1	708,6	1563,8	559,3	1234,4	438,3	967,3	195,0
14	45,9	161,6	108,7	115	4,5	953,6	2104,5	92	3,6	663,6	1464,5	517,3	1141,8	407,2	898,7	210,0
15	49,2	139,0	93,5	132	5,2	889,9	1964,0	105	4,1	622,7	1374,4	480,1	1059,5	379,4	837,3	225,0
16	52,5	120,5	81,1	150	5,9	832,3	1836,8	120	4,7	585,5	1292,1	446,7	985,9	354,3	781,9	240,0
17	55,8	105,2	70,8	169	6,7	779,7	1720,8	135	5,3	551,3	1216,7	416,6	919,4	331,5	731,6	255,0
18	59,0	92,4	62,2	190	7,5	731,5	1614,5	152	6,0	519,7	1147,0	389,2	858,9	310,7	685,6	270,0
19	62,3	81,5	54,9	211	8,3	687,1	1516,5	169	6,7	490,4	1082,4	364,1	803,7	291,5	643,4	285,0
20	65,6	72,3	48,6	234	9,2	646,0	1425,7	187	7,4	463,2	1022,2	341,1	752,9	273,8	604,4	300,0

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



- Tuv 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.

# S52SV - S52V SERIE TRUSS



## S52V - 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
3	9,8	1880,2	1265,1	5	0,2	2962,7	6538,7	4	0,2	1863,5	4112,8	1410,7	3113,4	1144,2	2525,2	45,0
4	13,1	1406,8	946,6	9	0,4	2526,0	5574,9	7	0,3	1584,5	3496,9	1239,4	2735,3	1028,6	2270,1	60,0
5	16,4	1122,7	755,5	14	0,5	2198,7	4852,4	11	0,4	1394,6	3078,0	1115,6	2462,2	931,1	2055,0	75,0
6	19,7	895,7	602,7	20	0,8	1943,7	4289,6	16	0,6	1254,9	2769,7	1020,4	2252,0	854,2	1885,1	90,0
7	23,0	654,5	440,4	27	1,1	1738,9	3837,8	22	0,9	1139,2	2514,2	938,8	2072,0	759,5	1676,3	105,0
8	26,2	497,9	335,0	36	1,4	1570,6	3466,3	29	1,1	1041,5	2298,6	868,0	1915,6	682,6	1506,5	120,0
9	29,5	390,6	262,8	45	1,8	1429,4	3154,7	36	1,4	957,8	2113,9	805,7	1778,3	618,6	1365,3	135,0
10	32,8	313,8	211,2	56	2,2	1309,1	2889,1	45	1,8	885,2	1953,6	733,5	1618,8	564,6	1246,0	150,0
11	36,1	257,0	172,9	68	2,7	1205,0	2659,5	54	2,1	821,4	1812,9	668,8	1476,0	518,1	1143,5	165,0
12	39,4	213,8	143,9	80	3,2	1114,0	2458,6	64	2,5	764,9	1688,1	613,2	1353,3	477,8	1054,4	180,0
13	42,6	180,2	121,2	94	3,7	1033,5	2281,0	76	3,0	714,3	1576,5	564,8	1246,4	442,2	976,0	195,0
14	45,9	153,5	103,3	109	4,3	961,7	2122,5	88	3,4	668,7	1475,9	522,1	1152,4	410,7	906,4	210,0
15	49,2	132,0	88,8	126	4,9	897,1	1979,9	101	4,0	627,4	1384,6	484,3	1068,8	382,5	844,1	225,0
16	52,5	114,4	76,9	143	5,6	838,5	1850,7	114	4,5	589,6	1301,2	450,3	993,9	357,0	787,8	240,0
17	55,8	99,8	67,1	161	6,4	785,1	1732,8	129	5,1	554,9	1224,6	419,7	926,2	333,8	736,7	255,0
18	59,0	87,5	58,9	181	7,1	736,1	1624,6	145	5,7	522,8	1153,8	391,8	864,6	312,6	689,9	270,0
19	62,3	77,2	51,9	202	7,9	690,9	1524,8	161	6,4	493,0	1088,0	366,2	808,3	293,1	646,9	285,0
20	65,6	68,3	46,0	223	8,8	648,9	1432,2	179	7,0	465,2	1026,7	341,7	754,0	275,1	607,1	300,0

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