

SUPERTRUSS 20.5 × 20.5

Thomas has rethought truss design to encompass the changing demands of the touring industry. The SuperTruss design features new double end connectors, which are orientated so that the truss elements are unisex (they can be used either way). Made from 6061T6 or 6082T6 alloy, the truss has 2" x 0.157" main chord tubes and 1" x 0.125" diagonal tubes. SuperTruss saves truck space because of its very high strength in relation to its size and also the space saving design of the corners.

The corners are simplicity themselves. As for the 2 way corner, only a connecting gate is required to brace between the outer fork connectors. The 3 way corner only requires a connecting gate and 2 square connecting plates. The 4 way corner requires just 2 square connecting plates. In order to use the supertruss with towers, 2 sleeve connecting plates with roller wheels are required with 1 or 2 ladders depending on how many truss connections there are. 60° corners require 2 extended double fork connectors and a connecting gate. Other angles can be easily made to order. Variable and vertical connecting forks are available for 0 - 90° operation.



Standard lengths and weights

PRODUCT CODE	DESCRIPTION	WT lbs
B20144	12' Section	90.5
B20120	10' Section	86
B20096	8' Section	70.5
B20072	6' Section	58.5
B20060	5' Section	49.5
B20030	2' 6" Section	38.5

Corners

PRODUCT CODE	DESCRIPTION	WT lbs
B20-060G	60° corner gate	33
B20-090G	90° corner gate	11
B20-120G	3 Way gate	10
B20-135G	135° corner gate	8.5

Truss Accessories

PRODUCT CODE	DESCRIPTION	WT lbs
B20-120LG	3 Way gate/ 120° Lifting gate	20
B20-120TLG	Tower Lifting Gate	30
B1306	Vertical connecting fork	1.3
B1307	Horizontal connecting fork	2.2
B20-SSP	Square support plate	11
B20-12SP	12" Tower sleeve plate	26.5
B20-15SP	15" Tower sleeve plate	26.5
B1311	SuperTruss to GP20.5x20.5 adapter gate	14
B1312	Lifting point for SuperTruss	12

Loading chart

Allowable Load Data Span feet	Maximum Allowable Uniform Loads		Maximum Allowable Center Point Loads	
	Loads pounds	Maximum deflection inches	Loads pounds	Maximum deflection inches
10	7405*	0.433	7405	0.670
20	7405*	0.433	7405	0.670
30	7326*	1.77	5870	1.77
40	6435	3.0	3219	3.0
50	3918	3.7	1960	3.7
60	2476	4.4	1239	4.4
70	1611	5.2	807	5.2
80	996	5.9	498	5.9

LOADING FIGURES show maximum loads between supports in addition to self weight of truss. Information extracted from structural report by The Broadhurst Partnership. * Denotes load limited to suit maximum shear capacity. All loads include a 20% overload factor for dynamic effects.