

## HEAVY DUTY BOX TRUSS 750 x 500MM CENTRES

PART No. TR289

### PARTS LIST

Chords	48.4 x 4.47mm CHS
Cross Braces	48.4 x 4.47mm CHS
Vertical Braces	48.4 x 4.47mm CHS
Diagonals	32 x 3mm CHS
Joining Plates	175 x 175 x 16mm

Note:

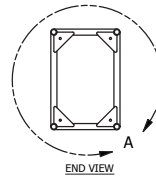
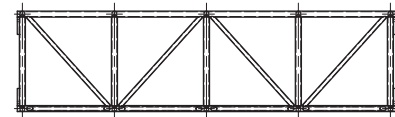
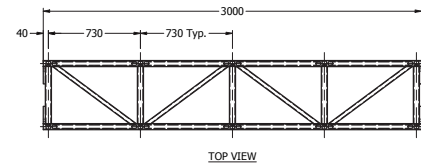
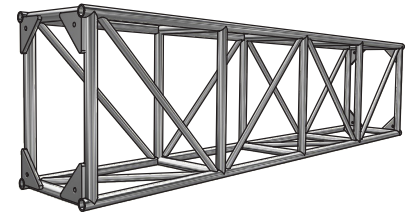
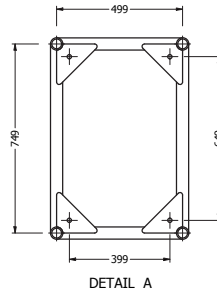
1. All tubes from Aluminium Alloy 6061 T6
2. Weld Material 5356

### JOINING KIT

- 4 x High Tensile Machine Bolt M16 x 65 grade 8.8 Zinc Plated
- 8 x Washers High Tensile 32.6 x 18 x 3.1mm grade F436
- 4 x Zinc Plated M16 Hex Nut

Note:

1. Pin from Aluminium Alloy 6061 T6
2. Thread should be kept lubricated
3. Spring Washer or Nyloc Nut should be used if truss is subject to vibration



### ALLOWABLE LOADING

SPAN m	UDL kg/m	DEFLECTION mm	MAXIMUM ALLOWABLE POINT LOADS				SPAN total weight
			CPL kgs	DEFLECTION mm	TPL kgs	QPL kgs	
3 (no join)	1761	1	5285	1	2681	1761	53
3 (with join)	1761	1	4639	1	2681	1761	54
4	1315	2	3456	2	2592	1728	71.5
5	1097	4	2742	3	2057	1371	89
6	754	6	2261	5	1696	1131	107
7	547	8	1915	6	1436	957	125
8	413	10	1651	8	1238	826	143
9	321	13	1443	10	1083	722	160.5
10	255	16	1275	12	956	637	179
11	206	19	1134	15	851	567	196.5
12	169	22	1015	18	761	508	214.5
13	140	26	912	22	684	456	232.5
14	117	30	822	26	617	411	250
15	99	35	743	30	557	371	268
16	84	40	671	34	504	336	287.5
17	71	45	607	38	455	303	305
18	61	50	548	43	411	274	322.5
19	52	56	494	49	371	247	341
20	44	62	445	54	334	222	358.5

### LOAD TABLE GUIDELINES

- \*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 call CLSA for further assistance.
- \*Loading figures are calculated according to and in full compliance with Australian Standards.
- \*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.
- \*CLSA recommends a 15% deduction on allowable loadings for repetitive use truss.