

## HEAVY DUTY BOX TRUSS 500MM CENTRES

PART No. TR104

### PARTS LIST

Chords	48.4 x 4.47mm CHS
Cross Braces	48.4 x 4.47mm CHS
Vertical Braces	48.4 x 4.47mm & 25 x 3mm CHS
Diagonals	25 x 3mm CHS
Joining Plates	175 x 175 x 16mm

Note:

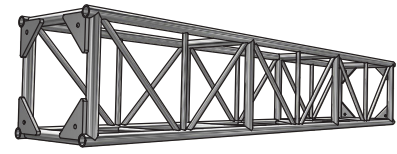
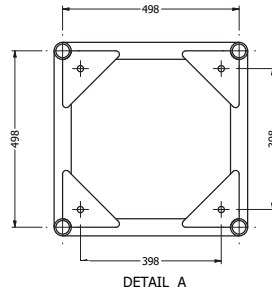
1. All tubes from Aluminium Alloy 6061 T6
2. Weld Material 5356

### JOINING KIT

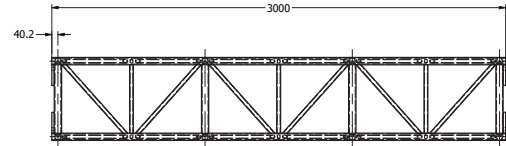
- 4 x High Tensile Machine Bolt M16 x 65 grade 8.8 Zinc Plated
- 8 x Washers High Tensile 32.6 x 18 x 3.1mm grade F436
- 4 x Zinc Plated M16 Hex Nut

Note:

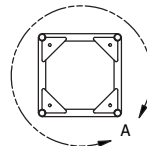
1. Pin from Aluminium Alloy 6061 T6
2. Thread should be kept lubricated
3. Spring Washer or Nyloc Nut should be used if truss is subject to vibration



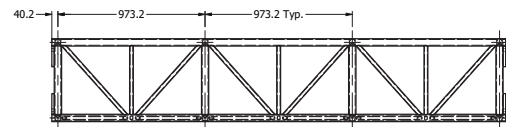
PERSPECTIVE VIEW



TOP VIEW



END VIEW



FRONT VIEW

### ALLOWABLE LOADING

SPAN m	Uniformly Distributed Load		Centre Point Load		Single Load Third Points Load per Point	Single Load Forth Points Load per Point	SPAN total weight
	UDL kg/m	DEFLECTION mm	CPL kgs	DEFLECTION mm	TPL kgs	QPL kgs	
3 (no join)	1393	2	4000	2	2090	1393	46
3 (with join)	1393	2	3090	2	2090	1393	47
4	1040	4	2300	3	1726	1150	62
5	729	6	1822	5	1367	911	77.5
6	500	8	1500	7	1125	750	93
7	362	11	1267	9	950	633	109
8	272	15	1089	12	817	545	124.5
9	211	19	949	15	712	474	139.5
10	167	23	835	19	626	417	155.5
11	134	28	740	23	555	370	171
12	110	33	658	28	494	329	186
13	90	39	588	33	441	294	202
14	75	45	526	38	389	263	218
15	63	52	472	44	354	236	233
16	53	59	422	51	317	211	250
17	44	67	378	58	283	189	265
18	37	75	337	65	253	168	280.5

### 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.