

## HEAVY DUTY BOX TRUSS 400MM CENTRES

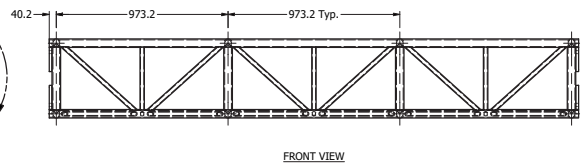
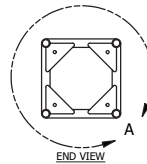
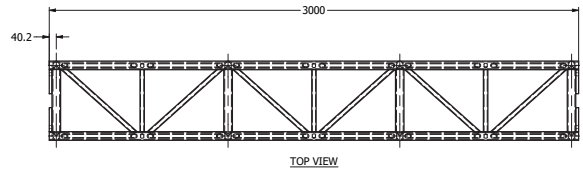
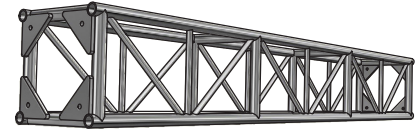
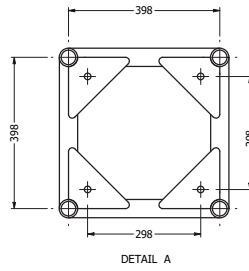
PART No. TR117

### 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	
4 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	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)	1339	2	2467	2	1850	1233	42
3 (with join)	1339	2	2467	2	1850	1233	43
4	916	5	1833	4	1375	916	57
5	579	8	1448	6	1086	724	71
6	396	11	1188	9	891	594	85
7	285	15	999	12	749	500	99.5
8	214	19	855	16	641	428	113.5
9	165	24	741	20	556	370	127.5
10	130	30	647	25	486	324	142
11	104	36	569	30	427	285	156.5
12	84	42	502	36	377	251	170.5
13	68	50	444	42	333	222	185.5
14	56	57	393	49	294	196	199
15	46	65	347	57	260	173	213.5

### 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.