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Project **ALUMINIUM BOX TRUSS**

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Client **BROWNS PRECISION WELDING**

Designed: AFC

Date: Jan 98

400 mm ALUMINIUM BOX TRUSS

SAFE LOAD CHART



SPAN (metres)	N * OF 3m TRUSS LENGTHS	ALLOWABLE UNIFORM LOAD	ALLOWABLE POINT LOAD
3	1	1280 Kg per Metre	1920 Kg
6	2	320 Kg per Metre	960 Kg
9	3	140 Kg per Metre	640 Kg
12	4	80 Kg per Metre	480 Kg

NOTES:

- 1.- ABOVE LOADS TAKEN FROM COMPUTATIONS & COMPUTER ANALYSIS CARRIED OUT IN ACCORDANCE WITH A.S. 1664 - ALUMINIUM STRUCTURES CODE
- 2.- ABOVE LOADINGS ARE BASED ON INTERNAL USEAGE ONLY
I.E. WIND LOADS NOT CONSIDERED.
- 3.- ALL MEMBERS CONSTRUCTED FROM GRADE 6061-T6 ALUMINIUM ALLOY
COUPLERS FROM GRADE 2011 - T6 ALUMINIUM ALLOY
- 4.- ABOVE UNIFORM ALLOWABLE LOADS TO BE DISTRIBUTED
UNIFORMLY OVER EACH BOTTOM CHORD I.E.
- 5.- TRUSSES CONNECTED TOGETHER USING 16 ϕ CASE HARDENED STEEL
LOCKING PIN THROUGH FABRICATED ALUMINIUM COUPLERS
- 6.- ALL WELDS TO BE MIN. 5mm FILLED WELDS FILLER ALLOY 5356
- 7.- ASSEMBLED TRUSS TO BE SUPPORTED ON EITHER TOP OR BOTTOM
CHORDS AT EACH END.