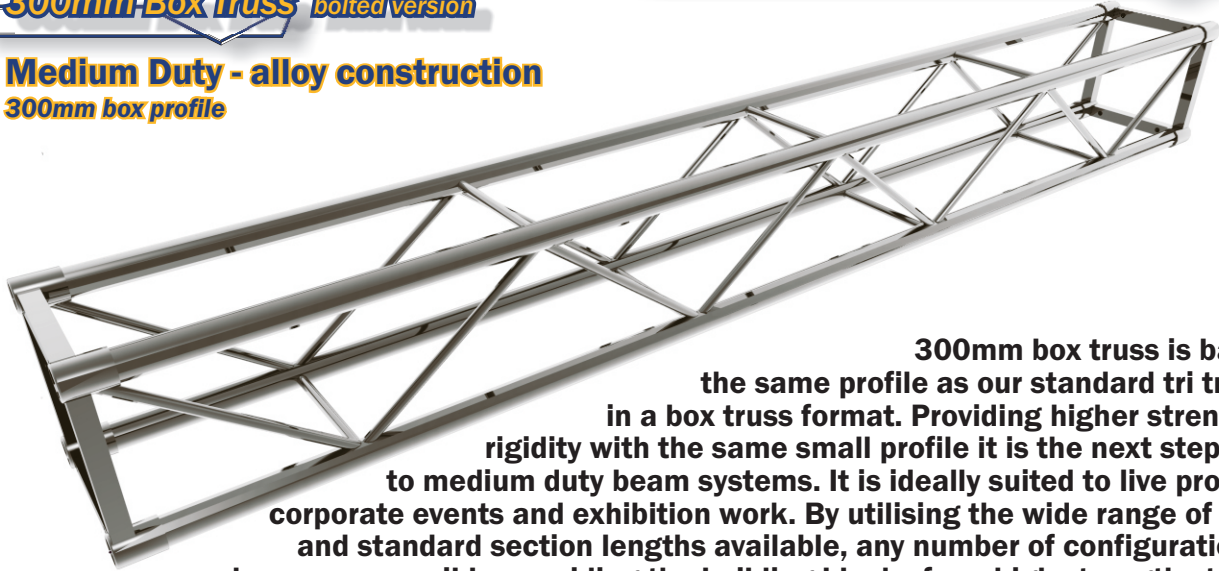




Load Data & Graphs

300mm Box Truss *bolted version*

Medium Duty - alloy construction
300mm box profile



300mm box truss is based on the same profile as our standard tri truss but in a box truss format. Providing higher strength and rigidity with the same small profile it is the next step in light to medium duty beam systems. It is ideally suited to live production corporate events and exhibition work. By utilising the wide range of corners and standard section lengths available, any number of configurations and shapes are possible, providing the building blocks for a high strength structure, which can easily be tailored to suit both the scenic & rigging requirements of each individual production. A recommended max. span of 15 mtrs. is achievable when supported at each end. *SWL's have been calculated for vertical static loads only and a safety factor of 1.85:1 has been applied. All load data derived from calculations based on a 3 metre length.

main chords : 50.0 x 3.0mm aluminium alloy diagonals & secondary 90 deg. bracing: 19 x 3mm aluminium alloy end plates: 31.75 x 6mm SHS aluminium alloy Connections via: 43mm CHS spigot pins and 1/2" UNC Gr 8.8 boltsets

SPAN in metres	max. allowable STATIC uniform loads		max. allowable STATIC point loads		
	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		Centre point ↓	Third point ↓ ↓	Quarter point ↓ ↓ ↓
	LOAD kg/metre	LOAD kg	LOAD kg	LOAD kg	LOAD kg
3	668	2006	2005	1003	669
6	330	1982	1548	992	660
9	218	1964	1013	760	507
12	123	1480	741	556	370
15	76	1147	573	429	286

Sleeve pins & 1/2"unc gr 8.8 boltsets (bolt/nut/2washers) thru 14mm holes in endplates

Data used in this chart prepared from independent calculations produced by:

A. F. Colafella & Associates structural & civil engineers.

All computations and computer analysis carried out in accordance with AS - 1664 (Aluminium Structures code)

All fabrication in accordance with AS- 1664 (Aluminium Structures code). Fabricated by fully certified welders.

Proposed loads & rigging method should be referred to and verified by a site engineer and/or a fully certified rigger

All points should be installed by a certified rigger. Loads have been calculated for **INDOOR USE ONLY**

ie **NO WINDLOADS** are considered, and assume a minimum of two lifting points: ie one at each end of the overall span.

Copyright 2007

METAL FABRICATION FOR THE ENTERTAINMENT INDUSTRY

138 - 146 Browns Road Noble Park Victoria 3174 Tel: 03 9701 2355 Mob: 0409 413 908

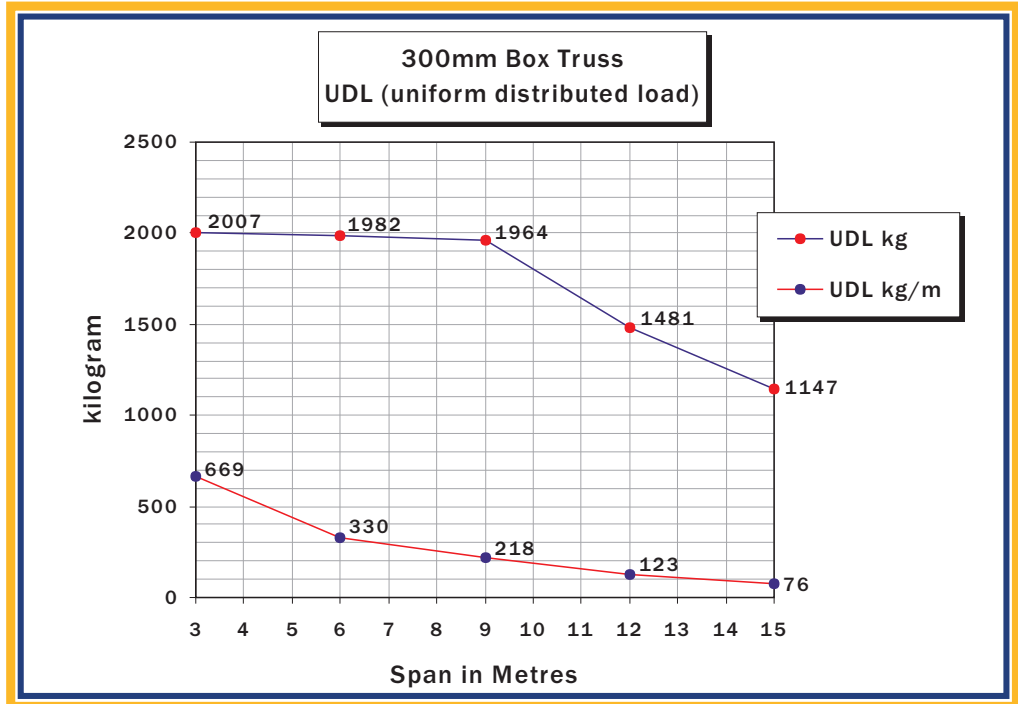
Email: mail@brownswelding.com.au Website: www.brownswelding.com.au



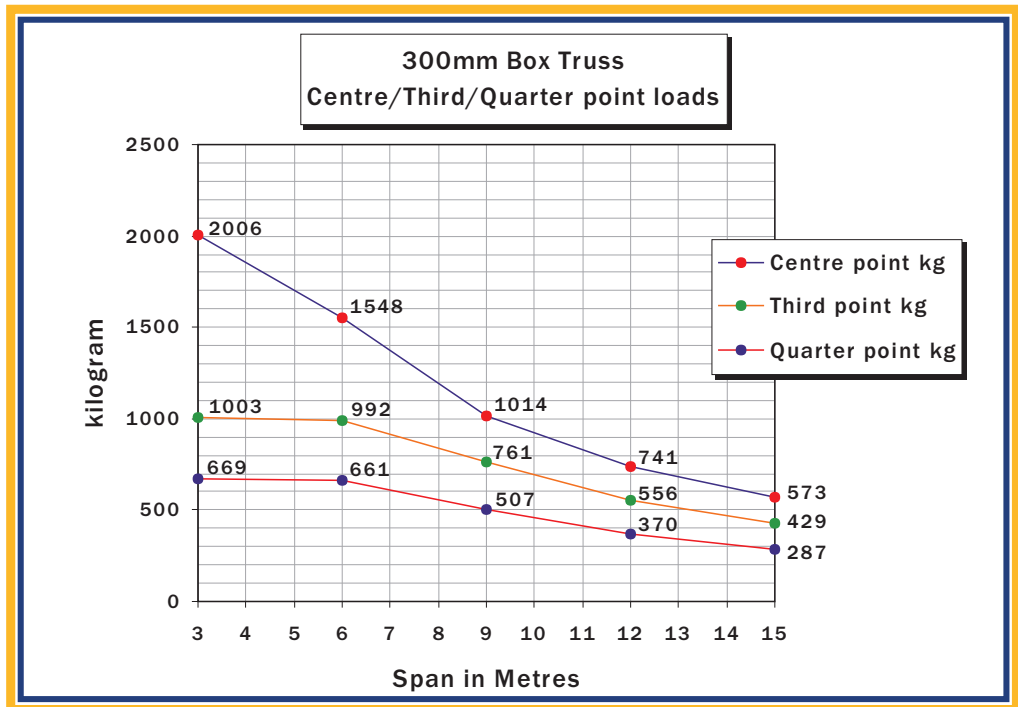
Load Data & Graphs

300mm Box Truss *bolted version*

Uniform Distributed Loads



Point Loads



Data used in these graphs prepared from independent calculations produced by:
A. F. Colafella & Associates structural & civil engineers.

Copyright 2007

METAL FABRICATION FOR THE ENTERTAINMENT INDUSTRY

138 - 146 Browns Road Noble Park Victoria 3174 Tel: 03 9701 2355 Mob: 0409 413 908
Email: mail@brownswelding.com.au Website: www.brownswelding.com.au