

500mm "Performer" Box plated version

Heavy Duty - alloy construction 500mm box frame profile

> Performer is a "rigid frame" system specifically designed for circus and aerial performers. Conceived from the need to provide a support structure which would allow for the "pendulous" nature of trapeze and similar disciplines. Performer is designed to reduce the unusual and stressful load moments which occur in more conventional truss systems. It allows dynamic and static loads to be applied either - vertically, horizontally or a combination of both. Performer rigid frame reduces the lateral and horizontal deflection evident in conventional beam design, resulting in a safer, stiffer and more responsive structure. *SWL's have been calculated for dynamic and static loads and have a safety factor of 5:1

All load data derived from calculations based on a 3 metre length. main chords & 90 deg. bracing: 48.5 x 4.5mm aluminium alloy secondary 90 deg. bracing: 32 x 3mm aluminium alloy internal diagonal bracing: 25 x 3mm aluminium alloy

Load-Data-&-Graphs

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Connection via: M16 x 55mm gr8.8 bolt sets through triangular gusset plates LL DUBLANIC COTATIC

	DYNAMIC/STATIC uniform loads		max. allowable D th Amil(/STATIC point loads				
			Centre point	Third point	Quarter point		
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SPAN in metres	LOAD kg/metre	LOAD kg		LOAD kg			
3	250	750	750	375	250		
6	116	700	700	350	233		
9	72	650	650	325	216		
12	50	600	600	300	200		
15	33	500	500	250	166		
18	22	400	400	200	133		
M16 x 55 grade 8.8 zinc plated boltsets. (bolt/nut/2 washers) through 16mm gusset plates							

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/NZS-1665 (Aluminium Structures code) All fabrication in accordance with AS/NZS - 1665 (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

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ie NO WINDLOADS are considered, and assume a minimum of two lifting points: ie one at each end of the overall span. Copyright 2007

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