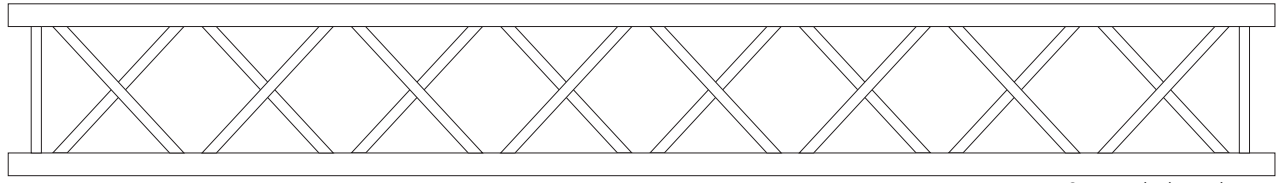
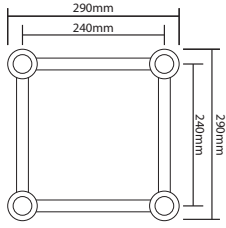


# 290mm Box Truss Data Sheet



3m example shown above.

## CERTIFICATIONS AND COMPLIANCE

Report No: 20181619M02. Independent Inspection & Testing Company: Alfa Test [ISO17025 & Nata Accreditation]  
 3rd party independently tested by USQ at their Centre for Future Materials. Tests included FE Simulation analysis of truss systems.  
 Structural testing was done inline with AS/NZS 1576.1.

## STATIC LOAD TEST & RESULTS

Test Procedure: TP 230  
 Test Spec: TP 230  
 Requirements: Uniformly loaded with 58kg weights at 1-meter increments & Centre point loaded with 324kg weights.  
 Tested length: Uniformly loaded over 12m span, Centre point loaded over 12m span.  
 Test Results: PASS

## PRODUCT SPECIFICATIONS

**Brand:** Titan AV  
**Model Number:** TR-SQ30  
**Description:** Aluminium Box Truss System 300 x 300mm [Industry standard 290 truss]  
**Connecting Cross Section:** 240mm x 240mm  
**Material:** Aluminium 6082-T6 [Main tube, brace & end connector]  
**Main Tubes:** 50mm x 2 mm  
**Braces:** 20mm x 2mm

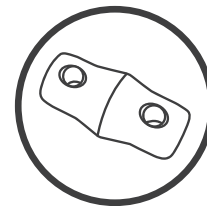


## TITAN AV LOAD SPAN TABLE 290MM BOX TRUSS\* (TR-SQ30)

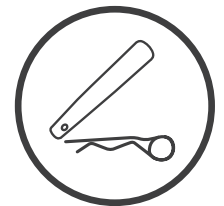
SPAN (M)	UDL (KG/M)	DEFL (mm)	CPL (KG)	DEFL (mm)	Two Point Load	DEFL (mm)	Three Point Load	DEFL (mm)	Four Point Load	DEFL (mm)	FOS
3	320	10	1260	12	900	12	660	13	480	12	1.5
4	285	24	1080	19	760	20	600	24	440	22	1.5
5	290	50	960	29	700	33	560	39	420	41	1.5
6	175	60	870	42	640	50	500	56	410	57	1.5
7	110	69	780	57	540	65	440	70	320	69	1.5
8	78	80	720	76	460	80	320	79	220	80	1.5
9	55	90	600	89	360	89	260	90	200	90	1.5
10	40	100	600	99	290	109	210	100	160	99	1.5
11	30	109	500	109	250	110	180	110	140	110	1.5
12	24	120	420	118	210	120	150	120	120	120	1.5

## TITAN AV LOAD VERTICAL COMPRESSION TABLE 290 BOX TRUSS\* (TR-SQ30)

SPAN (M)	Allowable Load (KG)	DEFL (mm)	Factor Of Safety
1	9500	1.3	2
2	9300	2.3	2
3	9000	3.4	2
4	5400	4.7	2
5	3600	5.9	2
6	2500	7	2



4 x Spigots included as standard



8 x Clips and Pins included as standard

\*PLEASE NOTE: Load table information is supplied as a guide only. A Factor Of Safety (FOS) of 1.5 and a maximum developed flexural stress of 175 Mpa was considered based on the serviceability requirements suggested in AS/NZS 1576.1. Moreover, the deflections were limited to (span length)/100 for each loading scenario. Please consult your Structural Engineer for advice related to your application.

