

# DATA SHEET



F33

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Cosmic Truss represents the highest quality and reliability.

Cosmic Truss F33 is a high strength triangular truss system that combines lightweight and high capacity. The triangular construction provides optimum strength and loading capacity for its size, with a standard tube diameter of 50mm (1.96 in). Section pieces connect together using a conical coupler, which is then secured with a locking pin, and a further safety clip for added security.

Cosmic Truss F33 can be used for a variety of applications, such as exhibitions, corporate events, retail environments, and live productions. F33 has a lightweight design making it easy to store and transport. Arcs, circles, and corner sections are available as part of the standard range.

The F33 range can also be ordered in customized designs, and can be supplied in different colored powder coating finishes.

Cosmic Truss products are tested to stringent TÜV safety standards.

## TECHNICAL DATA

Main tube diameter:	1.96in (50mm)
Wall thickness:	0.078in (2mm)
Material:	EN AW 6082-T6
Brace tube diameter:	0.787in x 0.078in (20mm x 2mm)

Conical connectors included

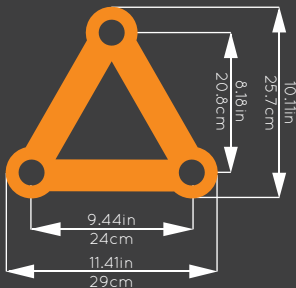


## LOAD TABLE

**INCLUDED**  
3x



6x



Weight of the truss is considered in load table.

span	Uniform distribution load	Deflection	Center point load	Deflection	Point load in third-point	Deflection	Point load in quarter-point	Deflection	Point load in fifth-point	Deflection
1 / 3.28	4188.80	0.0000	1716.00	0.0000	1562.00	0.0000	1321.54	0.0000	1047.20	0.0000
2 / 6.56	1914.44	0.1170	1321.54	0.1560	1145.76	0.1950	905.08	0.1170	794.20	0.1170
3 / 9.84	845.68	0.2730	1074.26	0.2730	905.08	0.2730	633.60	0.2340	526.46	0.2730
4 / 13.13	473.00	0.5070	905.08	0.3510	707.96	0.4680	471.90	0.4290	391.60	0.4680
5 / 16.41	298.76	0.7020	748.00	0.5850	560.34	0.7410	373.56	0.6630	309.98	0.7410
6 / 19.68	204.82	1.0140	614.46	0.8190	460.90	1.0530	307.12	0.9750	254.98	1.0530
7 / 22.97	148.06	1.4040	518.54	1.1310	388.96	1.4430	259.16	1.3260	215.16	1.4430
8 / 26.25	111.32	1.8330	445.50	1.4430	334.18	1.8720	222.86	1.7160	184.80	1.8720
9 / 29.53	86.24	2.3010	387.64	1.8330	290.84	2.3400	193.82	2.1840	170.72	2.3400
10 / 32.81	68.20	2.8470	340.56	2.2620	255.42	2.9250	170.28	2.6910	141.24	2.9250
11 / 36.09	54.78	3.4320	301.18	2.7690	225.94	3.5100	150.70	3.2760	124.96	3.5100
12 / 39.37	44.66	4.0950	267.52	3.2760	200.86	4.1730	133.76	3.9000	111.10	4.1730
13 / 42.65	35.64	4.7970	238.70	3.8610	179.08	4.9140	119.24	4.5630	99.00	4.9140
14 / 45.93	30.36	5.5770	213.18	4.4460	159.72	5.6940	106.48	5.3040	88.44	5.6940
15 / 49.21	25.30	6.1620	190.30	5.1870	142.78	6.3180	95.04	6.0450	78.98	6.3960
16 / 52.49	22.00	6.3960	170.06	5.7720	127.38	6.8250	84.92	6.4740	70.62	6.9420
17 / 55.77	17.60	6.8250	151.36	6.3180	113.52	7.1370	75.68	6.9420	62.92	7.4880
18 / 59.06	13.20	7.4880	134.42	7.0200	100.76	7.8000	67.10	7.4490	55.66	7.9950

