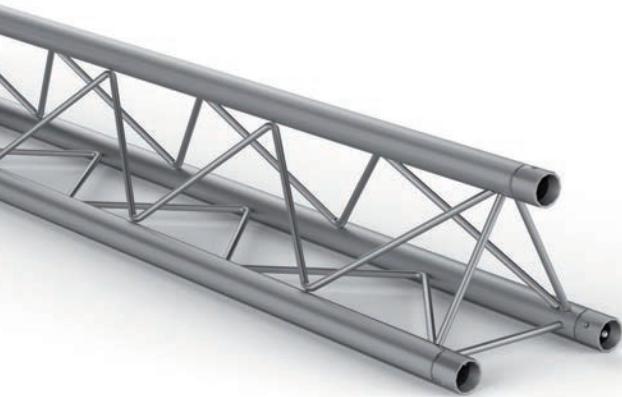# DATA SHEET

F23

Cosmic Truss represents the highest quality and reliability.

Cosmic Truss F23 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 35mm (1.37 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 F23 can be used for a variety of applications, such as exhibitions, corporate events, retail environments, and live productions. F23 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 F23 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.
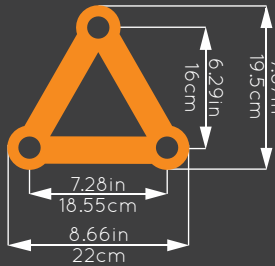
TECHNICAL DATA

Main tube diameter: 1.37in (35mm)
Wall thickness: 0.063in (1.6mm)
Material: EN AW 6082-T6
Solid rod bracing: 0.31in (8mm)
Conical connectors included

LOAD TABLE

INCLUDED

3x   6x

7.67in / 19.5cm
6.29in / 16cm
7.28in / 18.55cm
8.66in / 22cm

Weight of the truss is considered in load table.

Span m/ft	Uniform distribution load lbs/ft	Deflection in	Center point load lbs	Deflection in	Point load in third-point lbs	Deflection in	Point load in quarter-point lbs	Deflection in	Point load in fifth-point lbs	Deflection in
2 / 6.56	143.3	0.0702	284.4	0.0624	143.3	0.0897	94.8	0.0741	70.55	0.0702
3 / 9.84	92.59	0.2418	279.99	0.1677	138.89	0.2418	92.59	0.2028	70.55	0.2184
4 / 13.13	68.34	0.5733	273.3	0.3354	136.69	0.4641	90.39	0.3861	68.34	0.4137
5 / 16.41	52.91	0.9126	266.76	0.5577	134.48	0.7683	88.18	0.6279	66.14	0.6708
6 / 19.68	40.09	1.3065	260.15	0.8463	130.07	1.1544	85.98	0.9282	66.14	0.9867
7 / 22.97	37.48	1.7589	220.46	1.1934	127.87	1.6146	85.98	1.2909	63.93	1.3689
8 / 26.25	30.86	2.2737	189.6	1.6029	125.66	2.1567	83.78	1.7121	61.73	1.8096
9 / 29.53	26.46	2.8470	163.14	2.0748	121.25	2.7807	81.57	2.1840	61.73	2.2659
10 / 32.81	24.25	3.4671	143.3	2.6130	105.82	3.4827	72.75	2.6637	59.52	2.7612