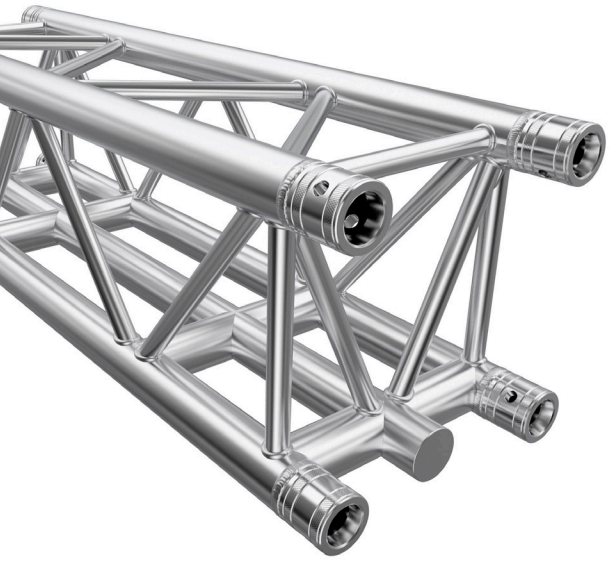
F35



This F35 Truss is based on the F34P 290mm x 290mm truss design and is used for applications such as LED screens where balanced centre rigging of the screen panels on the truss is essential. A central chord with ladder-style horizontal bracing on the bottom face of the truss allows LED panels to be clamped directly onto the centre chord. This negates the need to sling or brace across the two bottom chords to provide a central rigging points as would normally be necessary on a square format truss. Furthermore, the ladder-style horizontal braces creates more and more clear hanging space along the chord compared to the outside chords. Because it is based on the F34P Truss design, F35 Truss can connect to all standard F34/F34P junctions or sleeve blocks so you use your existing F34/F34P Truss to build the rest of the structure! Future development of truss accessories will mean that use of F35 Truss will not be limited to LED screen hanging applications.

TECHNICAL DATA

Pipe diameter:	50 mm
Wall thickness:	4,0 mm
Material:	EN AW-6082 T6
Brace diameter:	20 mm
Connectors	included

LOAD ON THE CENTRAL TUBE

Since the deflection of the truss plays an important role in the assembly of LED screens, the static with the lowest deflection (**L / 300**) was used for the central belt tube.

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
m	kg / m	cm	kg	cm	kg	cm	kg	cm	kg	cm
4	511	0,73	800	0,46	800	0,78	681	0,92	511	0,88
5	407	1,43	800	0,92	800	1,53	625	1,67	491	1,67
6	270	2,00	800	1,60	595	2,00	427	2,00	335	2,00
7	166	2,33	726	2,33	426	2,33	306	2,33	240	2,33
8	108	2,67	538	2,67	316	2,67	226	2,67	178	2,67
9	72	3,00	406	3,00	239	3,00	171	3,00	134	3,00
10	50	3,33	310	3,33	182	3,33	131	3,33	103	3,33
11	35	3,67	237	3,67	139	3,67	100	3,67	79	3,67
12	24	4,00	180	4,00	106	4,00	76	4,00	60	4,00
13	17	4,33	134	4,33	79	4,33	57	4,33	44	4,33
14	11	4,67	97	4,67	57	4,67	41	4,67	32	4,67
15	7	5,00	65	5,00	38	5,00	27	5,00	21	5,00
16	4	5,33	37	5,33	22	5,33	16	5,33	12	5,33

deflection > L/300

LOAD ON THE OUTER TUBES

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
m	kg / m	cm	kg	cm	kg	cm	kg	cm	kg	cm
4	511	0,73	1694	0,97	1021	0,99	681	0,92	511	0,88
5	407	1,43	1416	1,59	960	1,83	678	1,80	508	1,72
6	337	2,48	1210	2,37	836	2,78	653	3,02	506	2,98
7	288	3,93	1053	3,32	737	3,93	562	4,17	446	4,20
8	250	5,87	929	4,42	656	5,27	493	5,51	393	5,59
9	202	7,67	828	5,70	589	6,82	437	7,04	350	7,17
10	162	9,52	745	7,15	533	8,57	391	8,76	314	8,95
11	126	11,00	674	8,77	485	10,54	353	10,68	284	10,94
12	94	12,00	614	10,58	416	12,00	298	12,00	234	12,00
13	72	13,00	561	12,57	343	13,00	246	13,00	193	13,00
14	55	14,00	484	14,00	284	14,00	204	14,00	160	14,00
15	43	15,00	402	15,00	236	15,00	169	15,00	133	15,00
16	33	16,00	334	16,00	196	16,00	141	16,00	110	16,00
17	26	17,00	276	17,00	162	17,00	116	17,00	91	17,00
18	20	18,00	227	18,00	133	18,00	95	18,00	75	18,00

deflection > L/100

load limited by allowable deflection