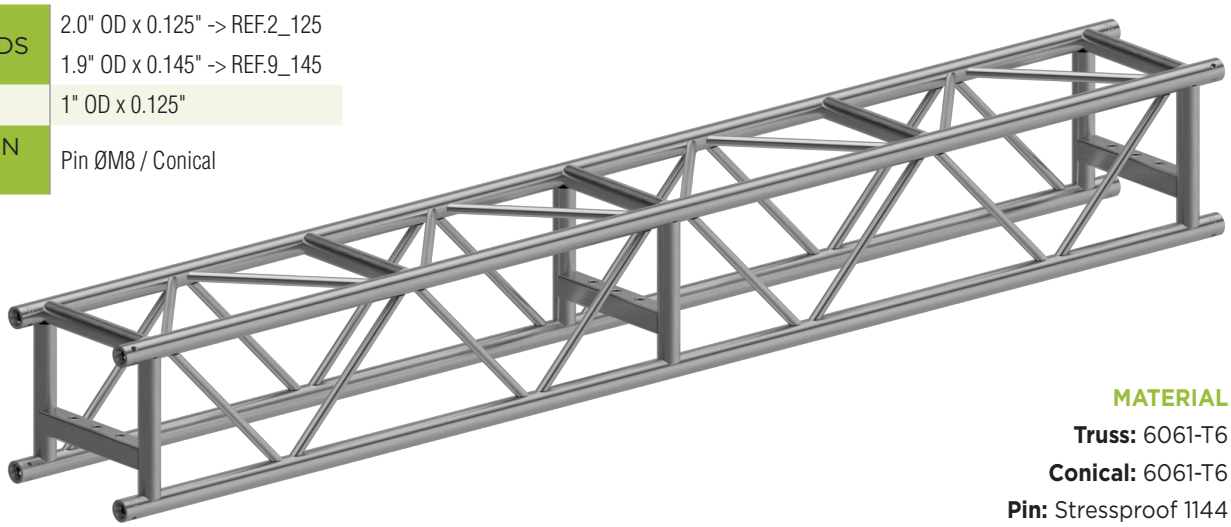
RAIL SERIES

TIR-M4040-C.2_125

MAIN CHORDS	2.0" OD x 0.125" -> REF.2_125 1.9" OD x 0.145" -> REF.9_145
DIAGONALS	1" OD x 0.125"
CONNECTION STYLE	Pin ØM8 / Conical

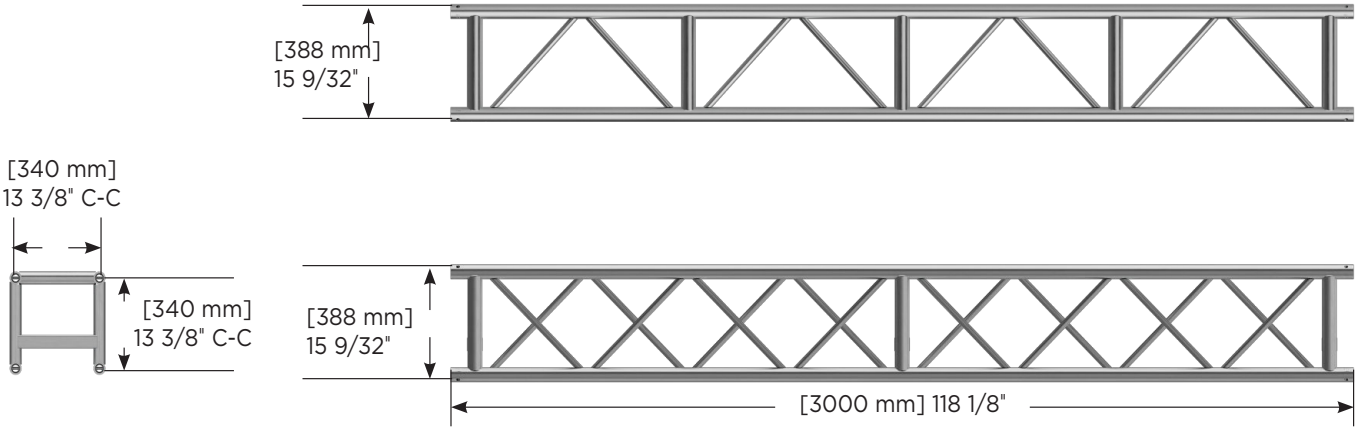


MATERIAL

Truss: 6061-T6

Conical: 6061-T6

Pin: Stressproof 1144



MAIN CHORDS 2.0" OD x 0.125"

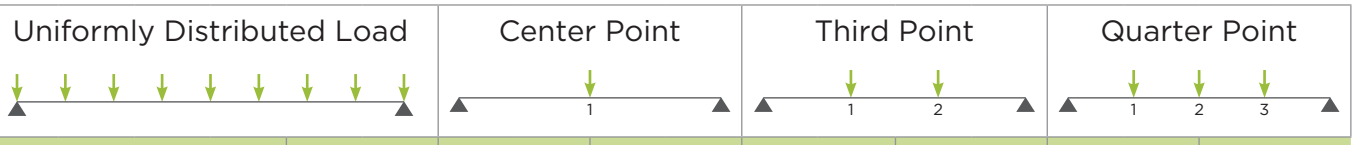
MAIN CHORDS 1.9" OD x 0.145"

Weight lbs	Weight (kg)	Item References				LENGTH*	Item References				Weight lbs	Weight (kg)
23	(10)	TIR-	M4040	-050	C.2_125	<- 0.50 m ->	TIR-	M4040	-050	C.9_145	23	(10)
31	(14)	TIR-	M4040	-100	C.2_125	<- 1.00 m ->	TIR-	M4040	-100	C.9_145	31	(14)
50	(23)	TIR-	M4040	-200	C.2_125	<- 2.00 m ->	TIR-	M4040	-200	C.9_145	50	(23)
68	(31)	TIR-	M4040	-300	C.2_125	<- 3.00 m ->	TIR-	M4040	-300	C.9_145	68	(31)

*Other lengths available: 0.25, 1.50 and 2.50m. | Custom lengths available upon request.

MANUFACTURED BY CERTIFIED WELDERS

ALLOWABLE LOAD TABLE



Span Length		Load Capacity				Deflection		Load Capacity		Deflection		Load Capacity		Deflection		Load Capacity		Deflection	
ft	(m)	lb/ft	(kg/m)	lb	(kg)	in	(mm)	lb	(kg)	in	(mm)	lb	(kg)	in	(mm)	lb	(kg)	in	(mm)
9,8	(3)	196	(292)	1931	(876)	0,03	(0.7)	4362	(1979)	0,10	(2.6)	3177	(1441)	0,13	(3.2)	2118	(961)	0,12	(3)
13	(4)	146	(217)	1910	(866)	0,07	(1.7)	3257	(1477)	0,18	(4.6)	2443	(1108)	0,23	(5.8)	1628	(739)	0,21	(5.4)
16	(5)	316	(470)	5181	(2350)	0,35	(8.9)	2590	(1175)	0,28	(7.2)	1943	(881)	0,36	(9.1)	1295	(587)	0,33	(8.5)
20	(6)	218	(324)	4286	(1944)	0,51	(12.9)	2143	(972)	0,41	(10.3)	1607	(729)	0,52	(13.1)	1072	(486)	0,48	(12.2)
23	(7)	159	(236)	3643	(1652)	0,69	(17.5)	1821	(826)	0,56	(14.1)	1366	(620)	0,70	(17.9)	911	(413)	0,66	(16.6)
26	(8)	120	(179)	3156	(1432)	0,90	(22.8)	1578	(716)	0,73	(18.5)	1183	(537)	0,92	(23.3)	789	(358)	0,86	(21.8)
30	(9)	94	(140)	2774	(1258)	1,14	(28.9)	1387	(629)	0,92	(23.4)	1040	(472)	1,16	(29.5)	693	(315)	1,08	(27.5)
33	(10)	75	(112)	2464	(1118)	1,41	(35.7)	1232	(559)	1,14	(29)	924	(419)	1,43	(36.4)	616	(279)	1,34	(34)
36	(11)	61	(91)	2208	(1002)	1,70	(43.2)	1104	(501)	1,39	(35.2)	828	(376)	1,74	(44.1)	552	(250)	1,62	(41.2)
39	(12)	51	(75)	1992	(904)	2,02	(51.4)	996	(452)	1,66	(42.1)	747	(339)	2,06	(52.4)	498	(226)	1,93	(49.1)
43	(13)	42	(63)	1806	(819)	2,38	(60.3)	903	(410)	1,95	(49.6)	677	(307)	2,42	(61.5)	452	(205)	2,27	(57.6)
46	(14)	36	(53)	1645	(746)	2,75	(70)	822	(373)	2,27	(57.7)	617	(280)	2,81	(71.3)	411	(187)	2,63	(66.9)
49	(15)	31	(45)	1503	(682)	3,16	(80.3)	751	(341)	2,62	(66.6)	564	(256)	3,22	(81.8)	376	(170)	3,03	(76.9)
52	(16)	26	(39)	1376	(624)	3,60	(91.4)	688	(312)	3	(76.1)	516	(234)	3,66	(93.1)	344	(156)	3,45	(87.6)
56	(17)	23	(34)	1263	(573)	4,06	(103.2)	631	(286)	3,4	(86.3)	474	(215)	4,14	(105)	316	(143)	3,90	(99)
59	(18)	20	(29)	1160	(526)	4,55	(115.7)	580	(263)	3,83	(97.3)	435	(197)	4,63	(117.7)	290	(132)	4,37	(111.1)
								Load per applied point											

NOTES

- Capacities shown in this table are valid for structures manufactured after January 2020.
- Trusses must be loaded uniformly on both sides of their longitudinal axis.
- Loads must be applied to or as close as possible to the nodes of the trusses.
- Deflection of truss is theoretical and based solely on their rigidity. It therefore does not take into account the possible movement between the truss sections due to the tolerance of the pins/bolts.
- Data are valid for indoor use only.
- Trusses are hung from the top chord only.
- Data are valid only for static loads and span, with two support points (one at each end).
  - If dynamic loads or more attachment points are needed, contact **Therio Innovation**.