CREATION TO REALIZATION

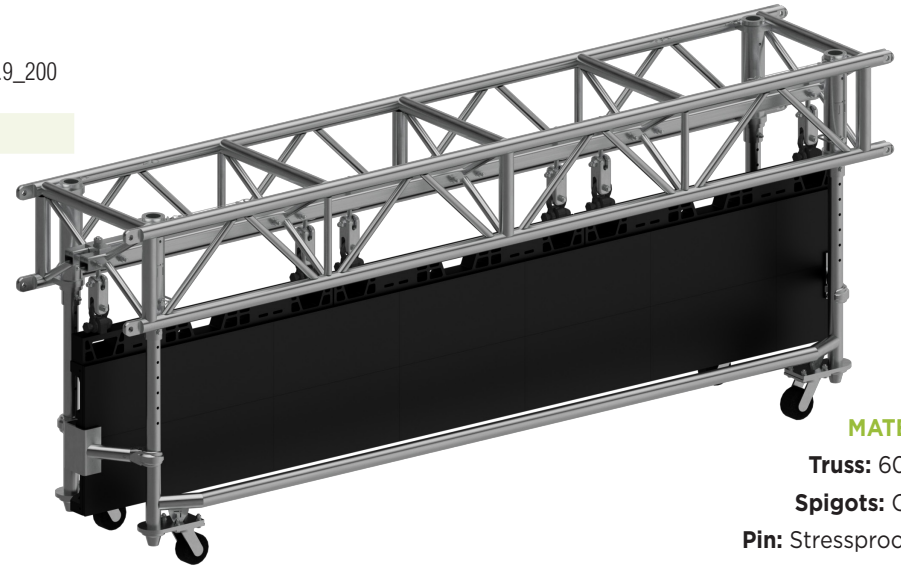
UNIVERSAL LED SERIES

TIUL- 1424-F.9_200 **PRE-RIG**

THERIO INNOVATION

MAIN CHORDS	1.9" OD x 0.200" -> REF.9_200
DIAGONALS	1" OD x 0.125"
CONNECTION STYLE	Pin Ø3/4" / Spigots

PATENT PENDING – BREVET EN ATTENTE

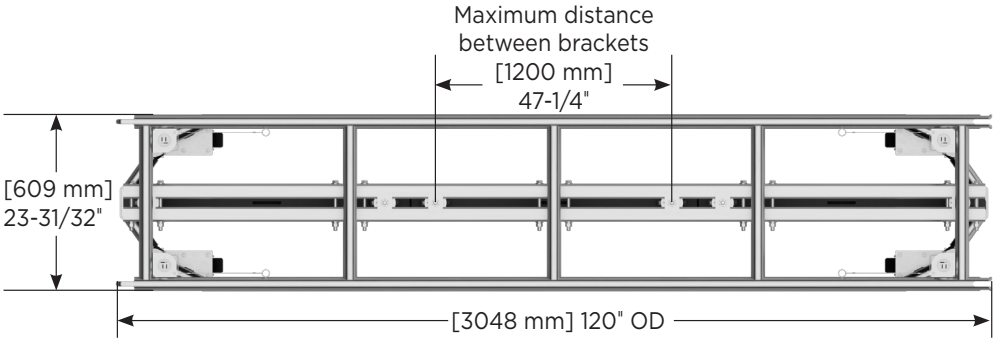


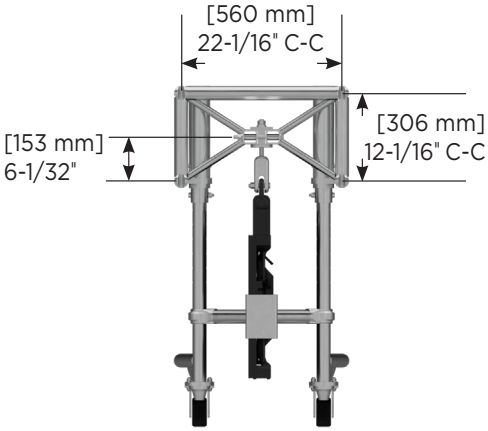
MATERIAL

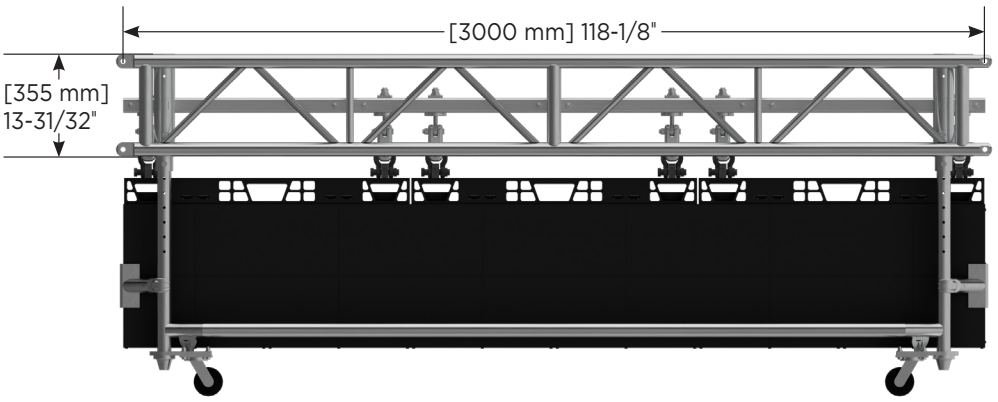
Truss: 6061-T6

Spigots: C12L14

Pin: Stressproof 1144







MANUFACTURED BY CERTIFIED WELDERS

MAIN CHORDS
1.9″ OD x 0.200″

Weight lbs	Weight (kg)	Item References				**LENGTH***
120	(54)	TIUL-	1424	-M100	F.9_200	<- 1 000 mm ->
141	(64)	TIUL-	1424	-M150	F.9_200	<- 1 500 mm ->
161	(73)	TIUL-	1424	-M200	F.9_200	<- 2 000 mm ->
172	(78)	TIUL-	1424	-M240	F.9_200	<- 2 400 mm ->
191	(87)	TIUL-	1424	-M250	F.9_200	<- 2 500 mm ->
210	(95)	TIUL-	1424	-M300	F.9_200	<- 3 000 mm ->

*Custom lengths available upon request.

The indicated weights includes the truss, brackets and legs. The weight of the screen protectors is excluded.

ALLOWABLE LOAD TABLE

Uniformly Distributed Load



Span Length		Load Capacity per bracket spacing				Load Capacity not on the center track (only on main chords)				Deflection	
ft	(m)	lb/0.5m	lb/0.6m	lb/1m	lb/1.2m	lb/ft	(kg/m)	lb	(kg)	in	(mm)
8	(2.44)	1300	1300	1300	1300	921	(1,371)	7 371	(3,343)	0,02	(0.4)
10	(3.05)	1015	1219	1300	1300	619	(921)	6 190	(2,808)	0,03	(0.7)
16	(4.88)	595	714	1191	1300	363	(540)	5 806	(2,634)	0,10	(2.6)
20	(6.1)	441	529	881	1058	269	(400)	5 373	(2,437)	0,19	(4.9)
24	(7.32)	294	353	588	706	179	(267)	4 302	(1,951)	0,28	(7)
30	(9.14)	174	209	348	418	106	(158)	3 183	(1,444)	0,43	(10.9)
32	(9.75)	148	178	296	356	90	(134)	2 891	(1,311)	0,49	(12.4)
40	(12.19)	81	97	161	194	49	(73)	1 968	(893)	0,77	(19.4)
48	(14.63)	44	53	88	106	27	(40)	1 288	(584)	1,10	(28)
50	(15.24)	37	45	75	90	23	(34)	1 143	(518)	1,20	(30.4)

MANUFACTURED BY CERTIFIED WELDERS

NOTES

- Capacities shown in this table are valid for structures manufactured after January 2022.
- 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 and outdoor use:
  - Snow and rain load must not exceed truss's load capacity.
  - Maximum **constant wind speed of 32 km/h (20 mph).**
  - Maximum **gust wind speed of 80 km/h (49 mph).**
- 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**.
- Never exceed maximum load capacity (uniformly distributed).
- Never exceed maximum load per bracket.
- The use of a load cell on chain hoists is highly recommended.
- The truss must be leveled when load is applied to it.
- Maximum span between brackets is **47-1/4" (1,200 mm)**.
- Maximum screen height limited to **39'4" (12.0 m)**