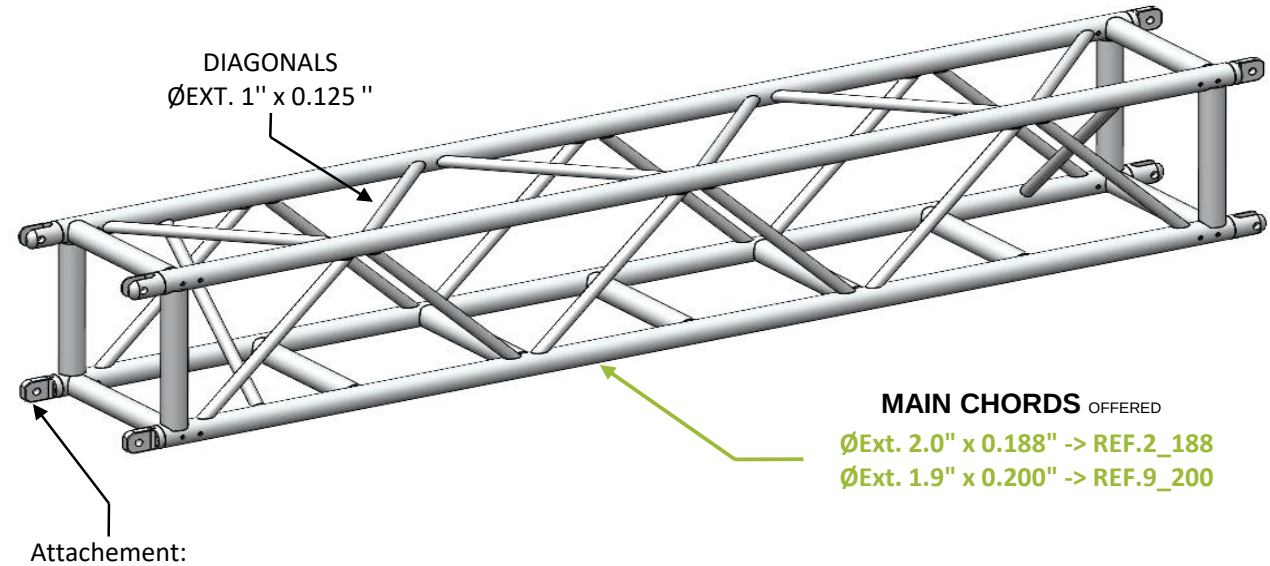
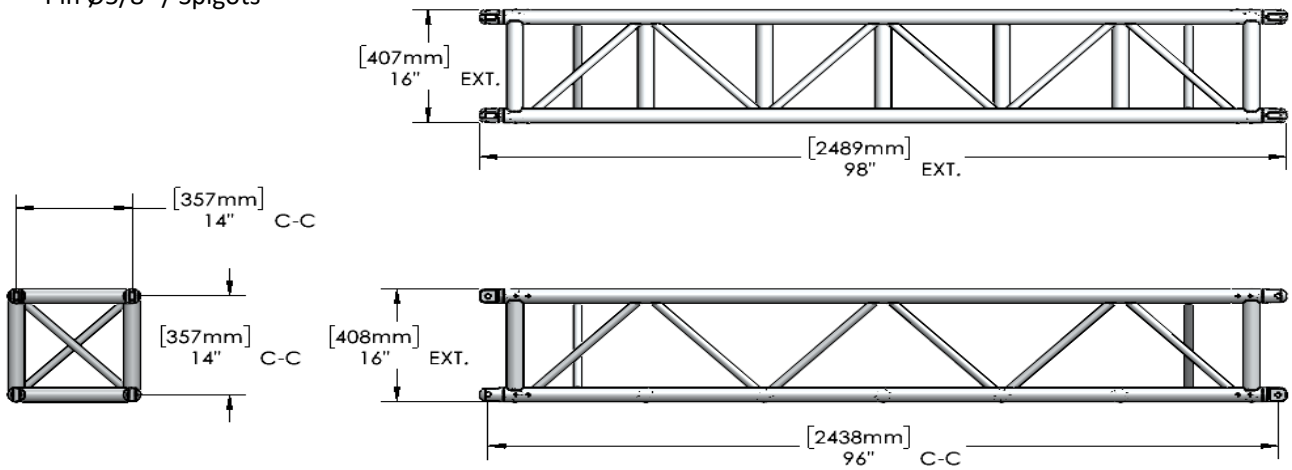
THERIO INNOVATION Engineering

THERIO SERIES

Code : TIT-1616-F.2_188

REV-A





SIZES

MAIN CHORDS Ø2.0 x 0.188								MAIN CHORDS Ø1.9 x .200							
WEIGHT Lbs	(kg)	ITEMS REFERENCES					Length	ITEMS REFERENCES						WEIGHT Lbs	(kg)
45	(20)	TIT-	1616	-048	F.2_188		**<- 48" ->**	TIT-	1616	-048	F.9_200			45	(20)
51	(23)	TIT-	1616	-060	F.2_188		**<- 60" ->**	TIT-	1616	-060	F.9_200			51	(23)
72	(33)	TIT-	1616	-096	F.2_188		**<- 96" ->**	TIT-	1616	-096	F.9_200			72	(33)
87	(39)	TIT-	1616	-120	F.2_188		**<- 120" ->**	TIT-	1616	-120	F.9_200			87	(39)

Other sizes also available in 24" / 36" / 72" /84"

Material: Truss: 6061-T6 / Spigots: 6061-T6 / Pin: Stressproof 1144

ALL OUR TRUSSES ARE MANUFACTURED BY CERTIFIED WELDERS

Tel : 514-400-3336

info@therioinnovation.com

THERIO INNOVATION Engineering

THERIO SERIES

Code : TIT-1616-F.2_188

REV-A

ALLOWABLE LOAD TABLE :

	Uniformly Distributed Load						Center point				Third point				Quarter point			
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)*
8	*(2.44)*	*781*	*(1162)*	*6249*	*(2834)*	*0.03*	*(0.8)*	*6248*	*(2834)*	*0.05*	*(1.3)*	*3133*	*(1421)*	*0.05*	*(1.1)*	*2089*	*(947)*	*0.04*	*(1.1)*
10	*(3.05)*	*622*	*(925)*	*6219*	*(2821)*	*0.06*	*(1.6)*	*6219*	*(2821)*	*0.10*	*(2.6)*	*3123*	*(1417)*	*0.09*	*(2.2)*	*2082*	*(944)*	*0.08*	*(2.1)*
16	*(4.88)*	*381*	*(567)*	*6093*	*(2764)*	*0.26*	*(6.7)*	*4192*	*(1902)*	*0.29*	*(7.3)*	*3080*	*(1397)*	*0.36*	*(9.1)*	*2053*	*(931)*	*0.33*	*(8.5)*
20	*(6.1)*	*299*	*(445)*	*5978*	*(2712)*	*0.51*	*(12.8)*	*3322*	*(1507)*	*0.45*	*(11.5)*	*2491*	*(1130)*	*0.57*	*(14.5)*	*1661*	*(753)*	*0.53*	*(13.5)*
24	*(7.32)*	*228*	*(339)*	*5470*	*(2481)*	*0.81*	*(20.5)*	*2735*	*(1241)*	*0.65*	*(16.5)*	*2051*	*(931)*	*0.82*	*(20.9)*	*1368*	*(620)*	*0.77*	*(19.5)*
30	*(9.14)*	*143*	*(212)*	*4280*	*(1941)*	*1.26*	*(32)*	*2140*	*(971)*	*1.02*	*(26)*	*1605*	*(728)*	*1.29*	*(32.7)*	*1070*	*(485)*	*1.20*	*(30.5)*
32	*(9.75)*	*124*	*(185)*	*3977*	*(1804)*	*1.43*	*(36.4)*	*1989*	*(902)*	*1.17*	*(29.6)*	*1492*	*(677)*	*1.46*	*(37.2)*	*994*	*(451)*	*1.37*	*(34.7)*
40	*(12.19)*	*76*	*(114)*	*3053*	*(1385)*	*2.24*	*(56.9)*	*1526*	*(692)*	*1.84*	*(46.7)*	*1145*	*(519)*	*2.28*	*(58)*	*763*	*(346)*	*2.14*	*(54.4)*
48	*(14.63)*	*50*	*(75)*	*2413*	*(1094)*	*3.23*	*(81.9)*	*1206*	*(547)*	*2.68*	*(68)*	*905*	*(410)*	*3.29*	*(83.5)*	*603*	*(274)*	*3.09*	*(78.5)*
50	*(15.24)*	*46*	*(68)*	*2281*	*(1035)*	*3.50*	*(88.9)*	*1141*	*(517)*	*2.92*	*(74)*	*855*	*(388)*	*3.57*	*(90.6)*	*570*	*(259)*	*3.35*	*(85.2)*
								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 of the possible movement between the truss sections due to the tolerance of the pins/bolts.
- Datas 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.**

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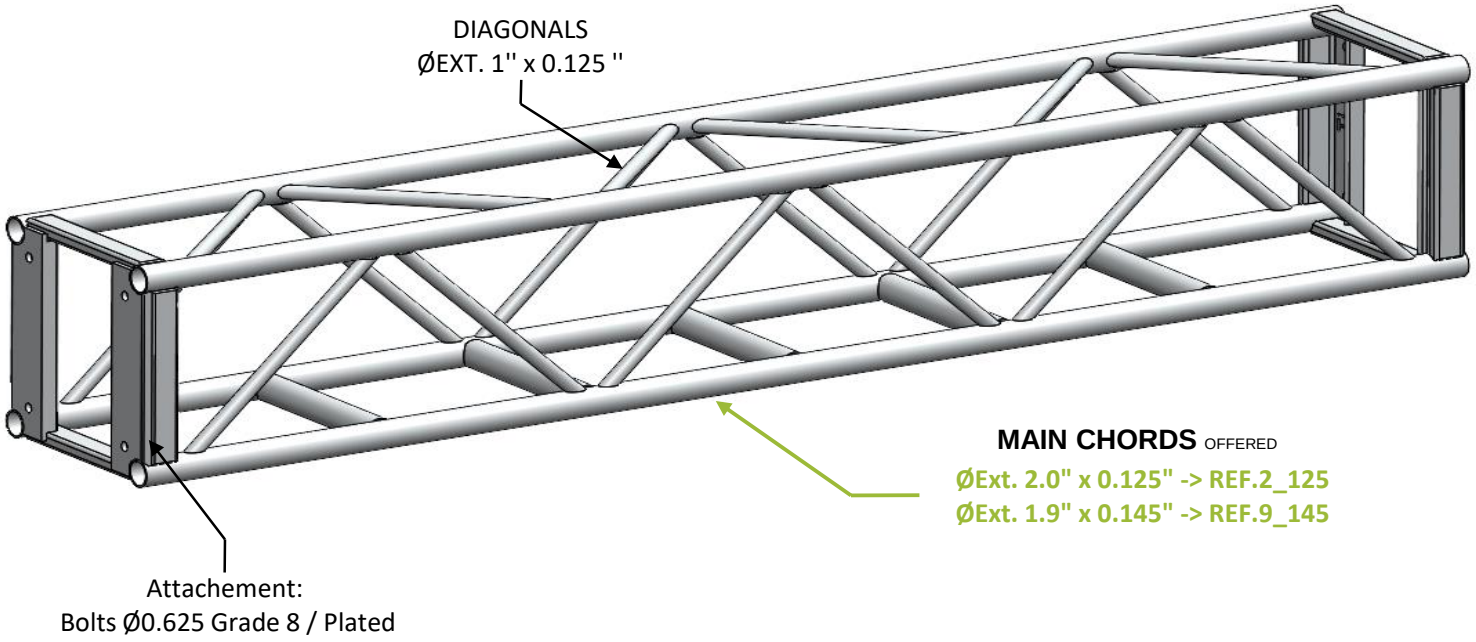
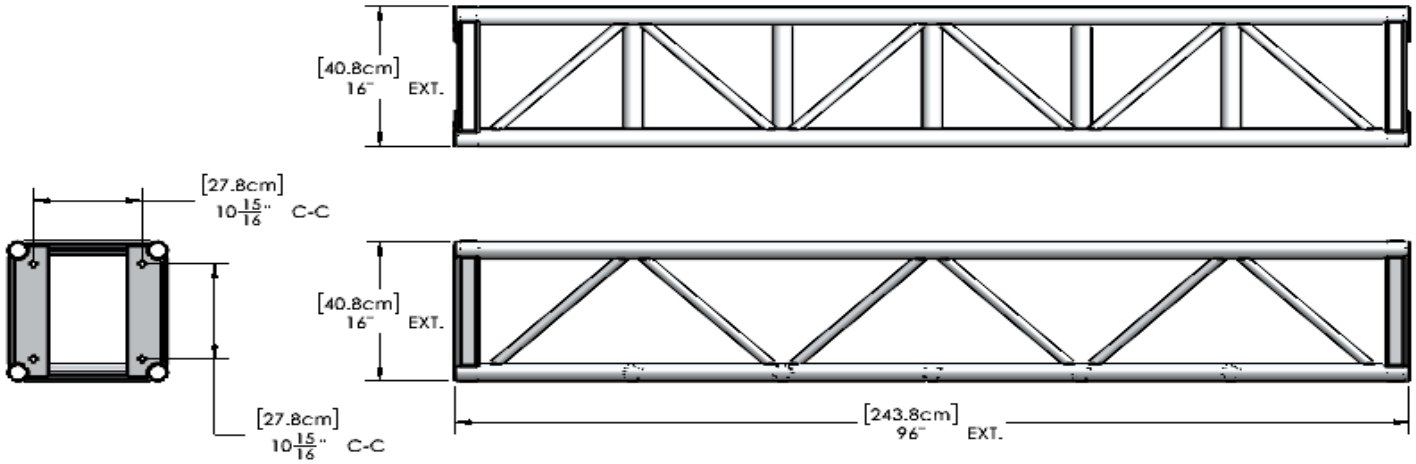
THERIO INNOVATION Engineering

THERIO SERIES

Code : TIT-1616-P.2_125

REV-A





SIZES

MAIN CHORDS Ø2.0 x 0.125								MAIN CHORDS Ø1.9 x 0.145							
WEIGHT Lbs	(kg)	ITEMS REFERENCES					Length	ITEMS REFERENCES					WEIGHT Lbs	(kg)	
38	(17)	TIT-	1616	-048	P.2_125		**<- 48" ->**	TIT-	1616	-048	P.9_145		38	(17)	
42	(19)	TIT-	1616	-060	P.2_125		**<- 60" ->**	TIT-	1616	-060	P.9_145		42	(19)	
58	(26)	TIT-	1616	-096	P.2_125		**<- 96" ->**	TIT-	1616	-096	P.9_145		58	(26)	
70	(32)	TIT-	1616	-120	P.2_125		**<- 120" ->**	TIT-	1616	-120	P.9_145		70	(32)	

Other sizes also available in 24" / 36" / 72" /84"

Material: Truss & Plates: 6061-T6 / Bolts : Ø0.625 Grade 8

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THERIO INNOVATION Engineering

THERIO SERIES

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REV-A

ALLOWABLE LOAD TABLE :

	Uniformly Distributed Load						Center point				Third point				Quarter point			
																		
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)*
8	*(2.44)*	*388*	*(577)*	*3101*	*(1406)*	*0.02*	*(0.6)*	*3123*	*(1417)*	*0.04*	*(1)*	*1563*	*(709)*	*0.03*	*(0.8)*	*1042*	*(473)*	*0.03*	*(0.8)*
10	*(3.05)*	*309*	*(460)*	*3088*	*(1401)*	*0.05*	*(1.2)*	*3117*	*(1414)*	*0.08*	*(1.9)*	*1560*	*(708)*	*0.06*	*(1.6)*	*1040*	*(472)*	*0.06*	*(1.5)*
16	*(4.88)*	*190*	*(283)*	*3041*	*(1379)*	*0.19*	*(4.9)*	*2953*	*(1340)*	*0.29*	*(7.5)*	*1550*	*(703)*	*0.26*	*(6.7)*	*1033*	*(469)*	*0.25*	*(6.3)*
20	*(6.1)*	*150*	*(223)*	*3000*	*(1361)*	*0.37*	*(9.5)*	*2336*	*(1060)*	*0.46*	*(11.7)*	*1538*	*(698)*	*0.52*	*(13.1)*	*1025*	*(465)*	*0.48*	*(12.2)*
24	*(7.32)*	*122*	*(182)*	*2940*	*(1333)*	*0.64*	*(16.3)*	*1920*	*(871)*	*0.67*	*(17)*	*1440*	*(653)*	*0.84*	*(21.4)*	*960*	*(436)*	*0.79*	*(20)*
30	*(9.14)*	*94*	*(140)*	*2831*	*(1284)*	*1.22*	*(31.1)*	*1497*	*(679)*	*1.05*	*(26.6)*	*1123*	*(509)*	*1.32*	*(33.4)*	*748*	*(339)*	*1.23*	*(31.2)*
32	*(9.75)*	*87*	*(129)*	*2778*	*(1260)*	*1.47*	*(37.3)*	*1389*	*(630)*	*1.20*	*(30.4)*	*1042*	*(473)*	*1.50*	*(38)*	*695*	*(315)*	*1.40*	*(35.5)*
40	*(12.19)*	*53*	*(79)*	*2118*	*(961)*	*2.29*	*(58.2)*	*1059*	*(480)*	*1.89*	*(48)*	*794*	*(360)*	*2.34*	*(59.4)*	*530*	*(240)*	*2.19*	*(55.7)*
48	*(14.63)*	*35*	*(51)*	*1658*	*(752)*	*3.30*	*(83.9)*	*829*	*(376)*	*2.76*	*(70)*	*622*	*(282)*	*3.36*	*(85.4)*	*415*	*(188)*	*3.16*	*(80.4)*
50	*(15.24)*	*31*	*(47)*	*1563*	*(709)*	*3.58*	*(91)*	*782*	*(355)*	*3.00*	*(76.2)*	*586*	*(266)*	*3.65*	*(92.6)*	*391*	*(177)*	*3.44*	*(87.3)*
								Load per applied point										

NOTES :

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