

TRUSS

TRUSS

TR

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HG

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RG

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HW

TK

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FT

GL



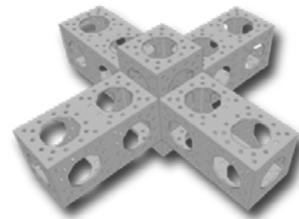
Some Of The Many Advantages Of ModTruss

Each truss series of the Mod**Truss** line is stocked in 1-foot increments up to 10 feet in length. Each series also has a 6" block for added flexibility in lengths. Unlike other trussing products, all three series of Mod**Truss** are compatible with one another.

- **Connectivity on all 6 sides**

A bolt hole every 3" on all 6 sides which means you are no longer limited to only end-to-end connections.

NO CORNER BLOCKS ARE NEEDED



- **Reinforcement Of Truss Connections**

The ability to reinforce truss connections increases load capacities, allowing for longer spans while reducing deflection.

- **Lamination**

Lamination can double load capacities and beyond while using the same series of truss. Lamination can be achieved by placing truss on top of truss or side by side.

- **Compatibility**

The 12" Mod**Truss** series is Compatible with 12" Plated Entertainment Truss.

- **Cladding Made Easy**

The flat surface of Mod**Truss**, coupled with the numerous bolt holes, allows for a variety of cladding options.

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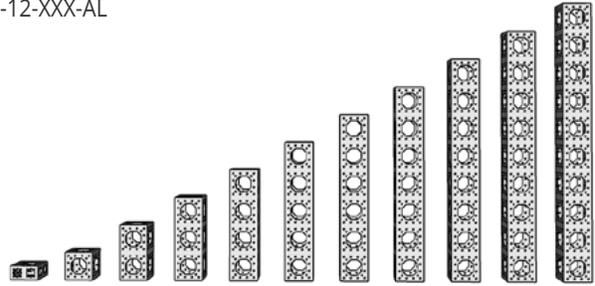
FT

GL

12" Aluminum Truss



MT-TR-12-12-XXX-AL



Standard Material	5052-H32 Aluminum
Standard Finish	01- Brush
Available Finish(es)	01- Brush, 20-30 Powder Coated
Bolt Hole Size	11/16" (17.46mm)
Recommended Hardware	5/8"-11 Thread Grade 8 Bolt, 2-1/2" Long 5/8" SAE Zinc-Plated Washer 5/8"-11 Thread, Grade 8 Hex Nut, (M16 x 2 Thread, 64mm Long, Class 10.9 Bolt M16, Class 10.9 Washer M16 x 2 Thread, Class 10.9 Nut)
Recommended Tools	Tool Kit 1

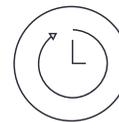
Part #	Size	Weight
MT-TR-12-12-006-AL	12" x 12" x 6" (304.80mm x 304.80mm x 152.40mm)	8.60lbs (3.90kg)
MT-TR-12-12-012-AL	12" x 12" x 12" (304.80mm x 304.80mm x 304.80mm)	13.00lbs (5.90kg)
MT-TR-12-12-015-AL	12" x 12" x 15" (304.80mm x 304.80mm x 381.00mm)	15.9lbs (7.22kg)
MT-TR-12-12-018-AL	12" x 12" X 18" (304.80mm x 304.80mm x 457.20mm)	19.15lbs (8.69kg)
MT-TR-12-12-024-AL	12" x 12" x 24" (304.80mm x 304.80mm x 609.60mm)	22.30lbs (10.12kg)
MT-TR-12-12-036-AL	12" x 12" x 36" (304.80mm x 304.80mm x 914.40mm)	31.55lbs (14.31kg)
MT-TR-12-12-048-AL	12" x 12" x 48" (304.80mm x 304.80mm x 1219.2mm)	40.95lbs (18.57kg)
MT-TR-12-12-060-AL	12" x 12" x 60" (304.80mm x 304.80mm x 1524.0mm)	49.85lbs (22.61kg)
MT-TR-12-12-072-AL	12" x 12" x 72" (304.80mm x 304.80mm x 1828.8mm)	59.15lbs (26.83kg)
MT-TR-12-12-084-AL	12" x 12" x 84" (304.80mm x 304.80mm x 2133.6mm)	68.05lbs (30.87kg)
MT-TR-12-12-096-AL	12" x 12" x 96" (304.80mm x 304.80mm x 2438.4mm)	75.35lbs (34.18kg)
MT-TR-12-12-108-AL	12" x 12" x 108" (304.80mm x 304.80mm x 2743.2mm)	87.00lbs (39.46kg)
MT-TR-12-12-120-AL	12" x 12" x 120" (304.80mm x 304.80mm x 3048.0mm)	95.50lbs (43.32kg)



In Stock



Compatible


 Serialized &
Traceable

 Made To
Order

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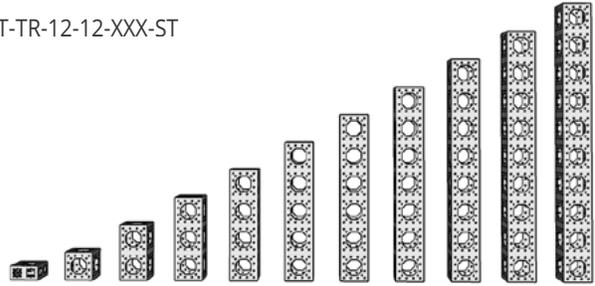
FT

GL

12" Steel Truss



MT-TR-12-12-XXX-ST



Standard Material	A36 Low Carbon Steel
Standard Finish	25- Silver Powder Coated
Available Finish(es)	20-30 Powder Coated
Bolt Size	11/16" (17.46mm)
Recommended Hardware	5/8"-11 Thread Grade 8 Bolt, 2.5" Long 5/8" SAE Zinc-Plated Washer 5/8"-11 Thread, Grade 8 Hex Nut (M16 x 2 Thread, 64mm Long, Class 10.9 Bolt M16, Class 10.9 Washer M16 x 2 Thread, Class 10.9 Nut)
Recommended Tools	Tool Kit 1

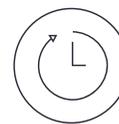
Part #	Size	Weight
MT-TR-12-12-006-ST*	12" x 12" x 6" (304.80mm x 304.80mm x 152.40mm)	25.00lbs (11.34kg)
MT-TR-12-12-012-ST	12" x 12" x 12" (304.80mm x 304.80mm x 304.80mm)	38.85lbs (17.62kg)
MT-TR-12-12-015-ST	12" x 12" x 15" (304.80mm x 304.80mm x 381.00mm)	48.35lbs (21.93kg)
MT-TR-12-12-018-ST	12" x 12" x 18" (304.80mm x 304.80mm x 457.20mm)	57.65lbs (26.14kg)
MT-TR-12-12-024-ST	12" x 12" x 24" (304.80mm x 304.80mm x 609.60mm)	65.30lbs (29.62kg)
MT-TR-12-12-036-ST	12" x 12" x 36" (304.80mm x 304.80mm x 914.40mm)	90.95lbs (41.25kg)
MT-TR-12-12-048-ST	12" x 12" x 48" (304.80mm x 304.80mm x 1219.20mm)	113.60lbs (51.53kg)
MT-TR-12-12-060-ST	12" x 12" x 60" (304.80mm x 304.80mm x 1524.00mm)	143.65lbs (65.16kg)
MT-TR-12-12-072-ST	12" x 12" x 72" (304.80mm x 304.80mm x 1828.80mm)	168.00lbs (76.20kg)
MT-TR-12-12-084-ST	12" x 12" x 84" (304.80mm x 304.80mm x 2133.60mm)	195.75lbs (88.79kg)
MT-TR-12-12-096-ST	12" x 12" x 96" (304.80mm x 304.80mm x 2438.40mm)	223.40lbs (101.33kg)
MT-TR-12-12-108-ST	12" x 12" x 108" (304.80mm x 304.80mm x 2743.20mm)	249.15lbs (113.01kg)
MT-TR-12-12-120-ST	12" x 12" x 120" (304.80mm x 304.80mm x 3048.00mm)	275.85lbs (125.12kg)



In Stock



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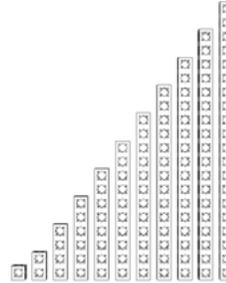
FT

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6" Aluminum Truss - 2024 +



MT-TR-06-06-XXX-AR

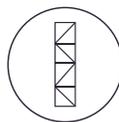


Standard Material	6061 - T6 Aluminum
Standard Finish	01- Brush
Available Finish(es)	01- Brush, 20-30 Powder Coated
Bolt Size	11/16" (17.46mm)
Recommended Hardware	5/8"-11 Thread Grade 8 Bolt, 2" Long 5/8" SAE Zinc-Plated Washer 5/8"-11 Thread, Grade 8 Hex Nut (M16 x 2 Thread, 50mm Long, Class 10.9 Bolt M16, Class 10.9 Washer M16 x 2 Thread, Class 10.9 Nut)
Recommended Tools	Tool Kit 1

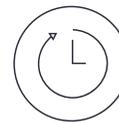
Part #	Size	Weight
MT-TR-06-06-006-AR	6" x 6" x 6" (152.40mm x 152.40mm x 152.40mm)	3.65 lbs (1.655kg)
MT-TR-06-06-012-AR	6" x 6" x 12" (152.40mm x 152.40mm x 304.80mm)	5.50 lbs (2.495kg)
MT-TR-06-06-024-AR	6" x 6" x 24" (152.40mm x 152.40mm x 609.60mm)	9.00 lbs (4.082kg)
MT-TR-06-06-036-AR	6" x 6" x 36" (152.40mm x 152.40mm x 914.40mm)	12.65 lbs (5.737kg)
MT-TR-06-06-048-AR	6" x 6" x 48" (152.40mm x 152.40mm x 1219.20mm)	16.35 lbs (7.409kg)
MT-TR-06-06-060-AR	6" x 6" x 60" (152.40mm x 152.40mm x 1524.00mm)	20.00 lbs (9.062kg)
MT-TR-06-06-072-AR	6" x 6" x 72" (152.40mm x 152.40mm x 1828.80mm)	23.6 lbs (10.701kg)
MT-TR-06-06-084-AR	6" x 6" x 84" (152.40mm x 152.40mm x 2133.60mm)	27.35 lbs (12.398kg)
MT-TR-06-06-096-AR	6" x 6" x 96" (152.40mm x 152.40mm x 2438.40mm)	30.70 lbs (13.900kg)
MT-TR-06-06-108-AR	6" x 6" x 108" (152.40mm x 152.40mm x 2743.20mm)	34.60 lbs (15.686kg)
MT-TR-06-06-120-AR	6" x 6" x 120" (152.40mm x 152.40mm x 3048.00mm)	38.35 lbs (17.398kg)



In Stock



Compatible


 Serialized &
Traceable

 Made To
Order

6" Steel Truss

MT-TR-06-06-XXX-ST

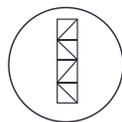


Standard Material	A36 Low Carbon Steel
Standard Finish	25- Silver Powder Coated
Available Finish(es)	20-30 Powder Coated
Bolt Hole Size	11/16" (17.46mm)
Recommended Hardware	5/8"-11 Thread Grade 8 Bolt, 2" Long 5/8" SAE Zinc-Plated Washer 5/8"-11 Thread, Grade 8 Hex Nut (M16 x 2 Thread, 50mm Long, Class 10.9 Bolt M16, Class 10.9 Washer M16 x 2 Thread, Class 10.9 Nut)
Recommended Tools	Tool Kit 1

Part #	Size	Weight
MT-TR-06-06-006-ST	6" x 6" x 6" (152.40mm x 152.40mm x 152.40mm)	6.50lbs (2.95kg)
MT-TR-06-06-012-ST	6" x 6" x 12" (152.40mm x 152.40mm x 304.80mm)	11.40lbs (5.17kg)
MT-TR-06-06-024-ST	6" x 6" x 24" (152.40mm x 152.40mm x 609.60mm)	20.95lbs (9.50kg)
MT-TR-06-06-036-ST	6" x 6" x 36" (152.40mm x 152.40mm x 914.40mm)	30.50lbs (13.83kg)
MT-TR-06-06-048-ST	6" x 6" x 48" (152.40mm x 152.40mm x 1219.20mm)	39.85lbs (18.08kg)
MT-TR-06-06-060-ST	6" x 6" x 60" (152.40mm x 152.40mm x 1524.00mm)	49.25lbs (22.34kg)
MT-TR-06-06-072-ST	6" x 6" x 72" (152.40mm x 152.40mm x 1828.80mm)	58.80lbs (26.67kg)
MT-TR-06-06-084-ST	6" x 6" x 84" (152.40mm x 152.40mm x 2133.60mm)	68.40lbs (31.03kg)
MT-TR-06-06-096-ST	6" x 6" x 96" (152.40mm x 152.40mm x 2438.40mm)	77.80lbs (35.29kg)
MT-TR-06-06-108-ST	6" x 6" x 108" (152.40mm x 152.40mm x 2743.20mm)	87.25lbs (39.58kg)
MT-TR-06-06-120-ST	6" x 6" x 120" (152.40mm x 152.40mm x 3048.00mm)	96.95lbs (43.98kg)



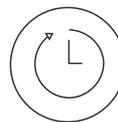
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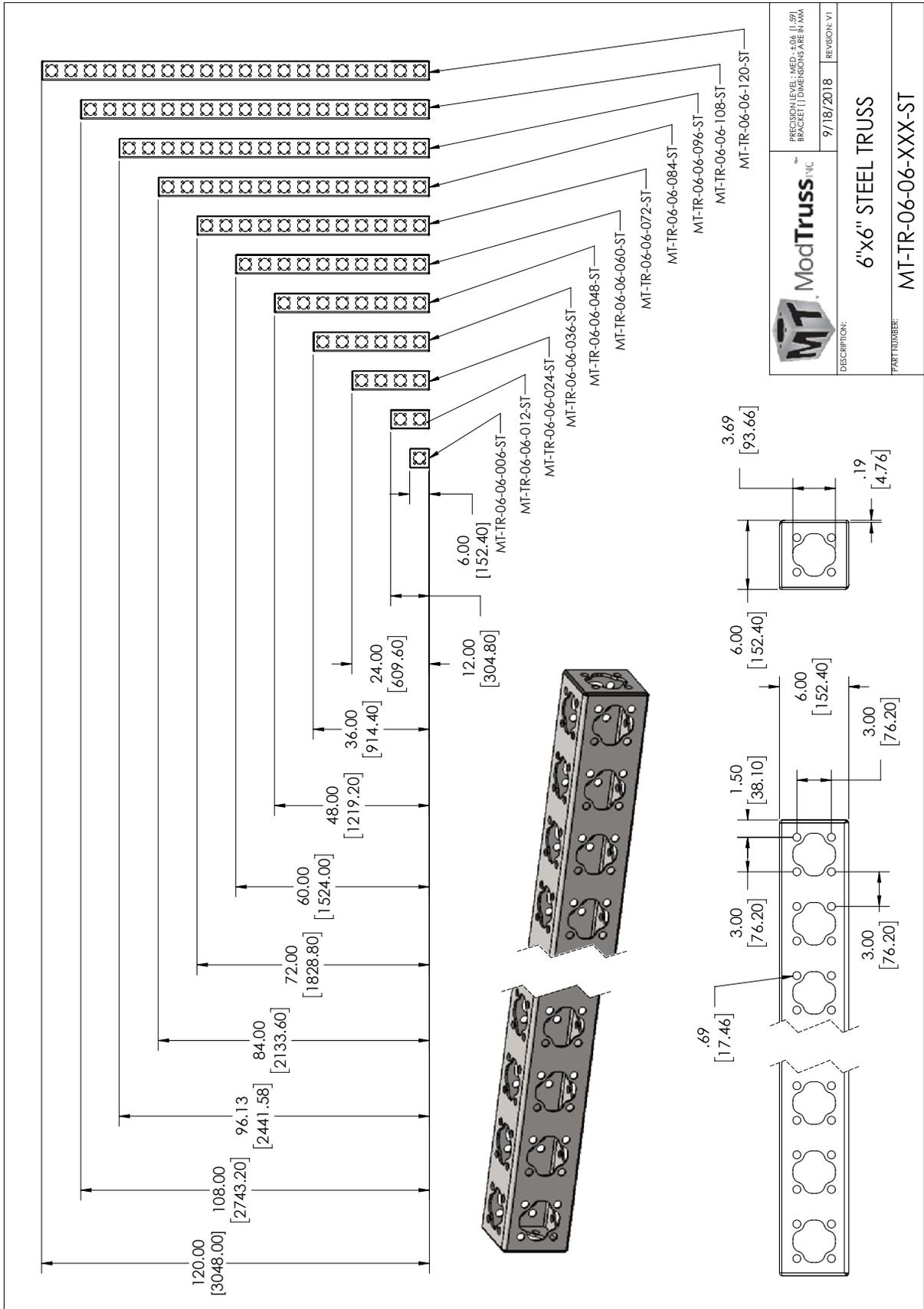
Compatible



Serialized & Traceable



Made To Order



3" Aluminum Truss

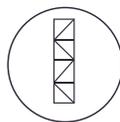


MT-TR-03-03-XXX-AL

Standard Material	6061 - T6 Aluminum
Standard Finish	01- Brush
Available Finish(es)	01- Brush, 20-30 Powder Coated
Bolt Hole Size	11/16" (17.46mm)
Size	3" x 3" x User defined length (76.20mm x User defined length) Max length per piece 20'
Weight	3.10lbs (1.41kg) per foot
Recommended Hardware	See Mod Truss Connection Guide
Recommended Tools	Tool Kit 1 5/16" Allen Wrench



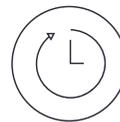
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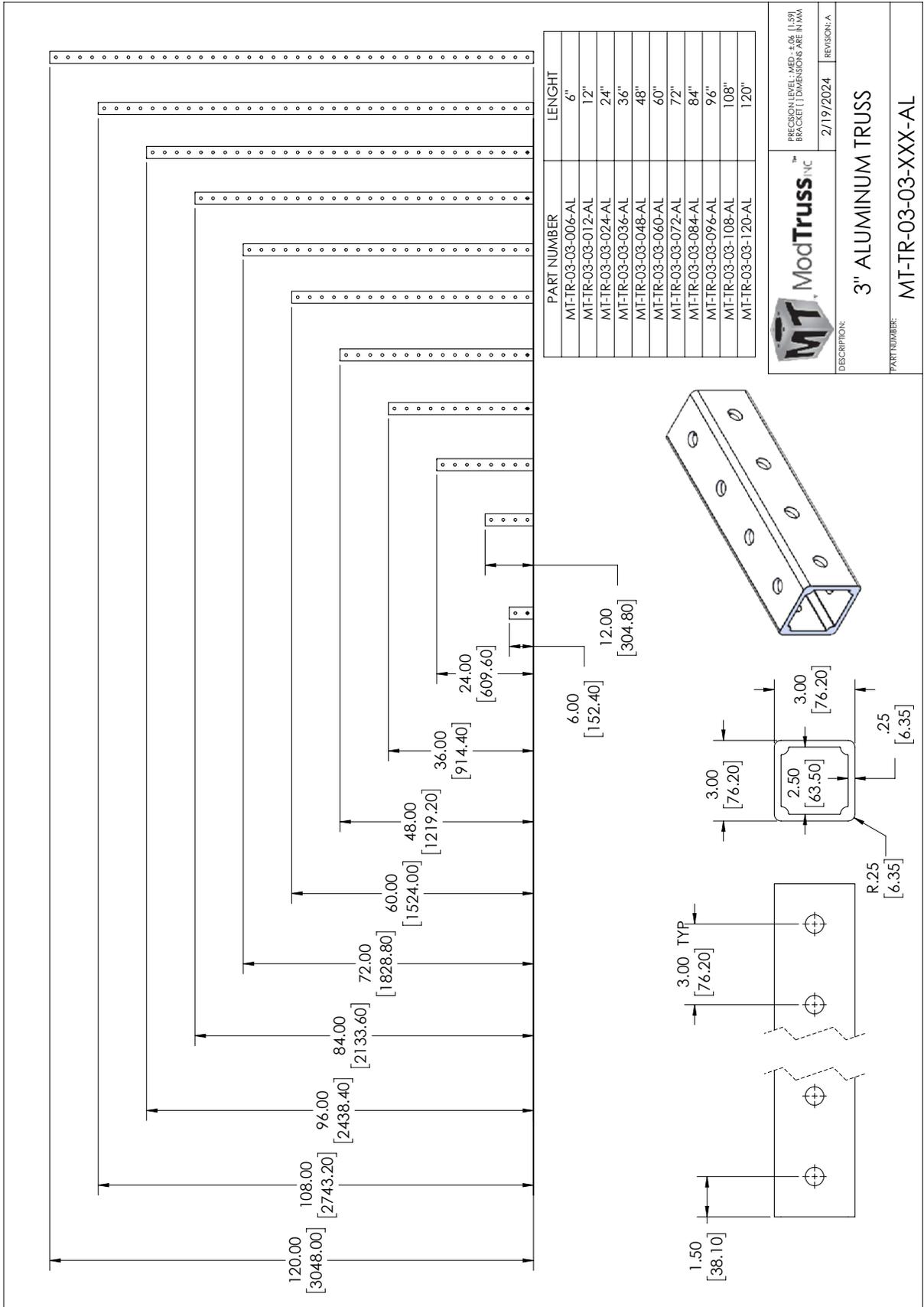
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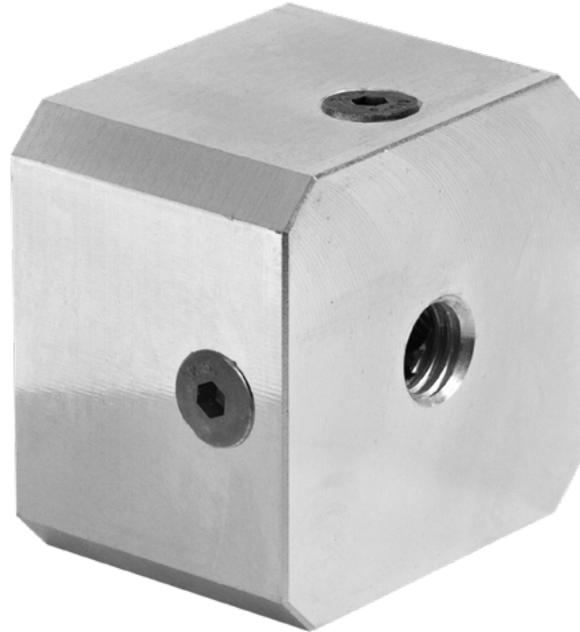
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Made To
Order



3" Truss End Plug

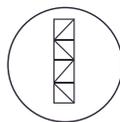


MT-TR-03-EP-0300-0025-128-132

Standard Material	A36 Low Carbon Steel
Standard Finish	10- Zinc Clear
Available Finish(es)	10-12 Zinc
Size	2.44" (61.98mm) x 2.44" (61.98mm)
Weight	2.92lbs (1.33kg)
Recommended Hardware	1/2 - 13" Thread x 1.25" Flat Head Screw
Recommended Tools	6 Hex Key Wrench Cluster



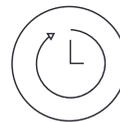
In Stock



Compatible

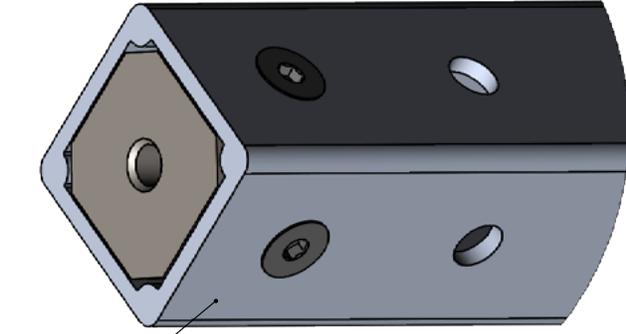


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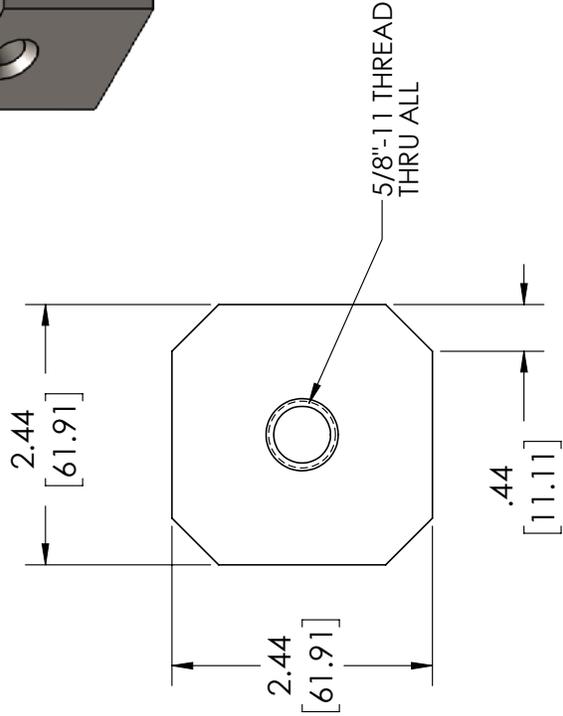
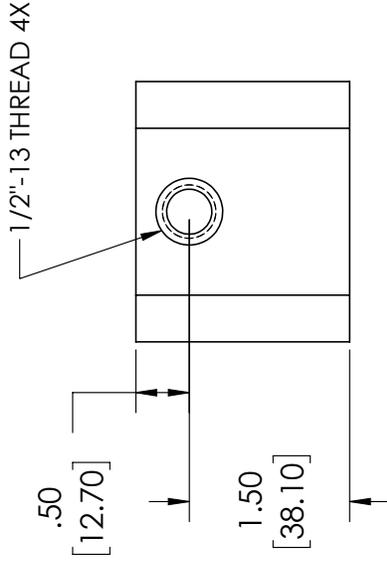
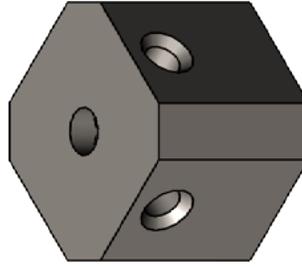


Made To
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PART NUMBER	DESCRIPTION	QTY.
MT-TR-03-EP-0300-0025-128-132_01	END PLUG	1
1/2"-13 X 1" ZINC PLATED FLAT HEAD	END PLUG MOUNTING HARDWARE	4



END PLUG FITS MT-TR-03-03-XXX-AL
3" ALUMINUM MODTRUSS



BRACKET {} DIMENSIONS ARE IN MM

3/31/2025

REVISION: A

DESCRIPTION:

3" ALUMINUM TRUSS END PLUG

PART NUMBER:

MT-TR-03-EP-0300-0025-128-132

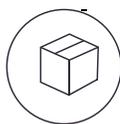
TR	EX	PL	JH	PA	HG	MO	RG	AC	HW	TK	MH	FT	GL
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6" x 12" - 6" x 6" Tapered Truss

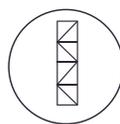


MT-TR-TT-06-12-06-06-XXX-AL

Standard Material	5052-H32 Aluminum
Standard Finish	01- Brush
Available Finish(es)	01- Brush 20-30 Powder Coated
Size	See Drawing
Weight	93.80lbs (42.50kg)
Bolt Hole Size	11/16" (17.46mm)
Recommended Hardware	5/8"-11 Thread Grade 8 Bolt, 2-1/2" Long 5/8" SAE Zinc-Plated Washer 5/8"-11 Thread, Grade 8 Hex Nut M16 x 2 Thread, 64mm Long, Class 10.9 Bolt M16, Class 10.9 Washer M16 x 2 Thread, Class 10.9 Nut)
Recommended Tools	Tool kit 1



In Stock



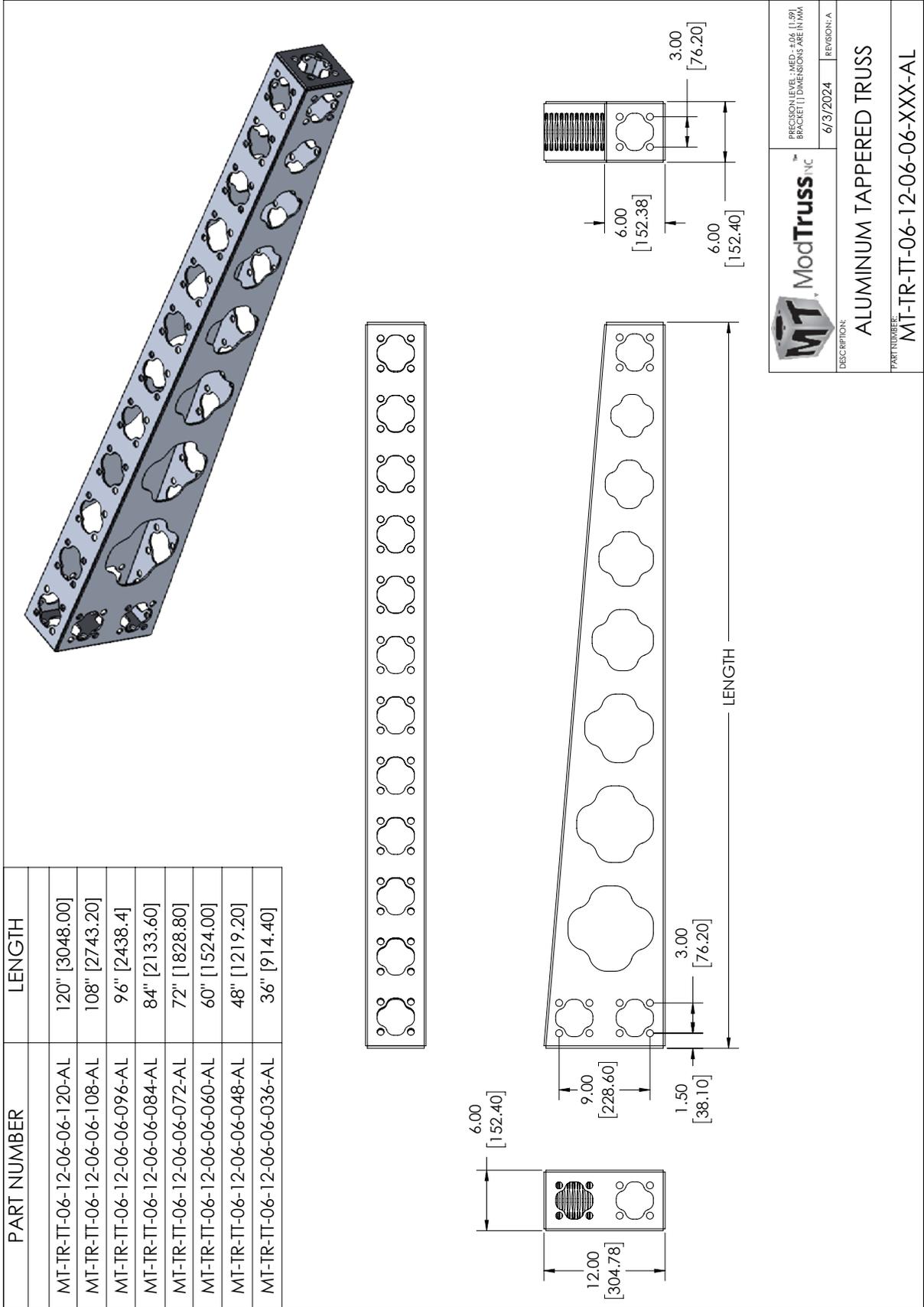
Compatible



Serialized &
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Made To
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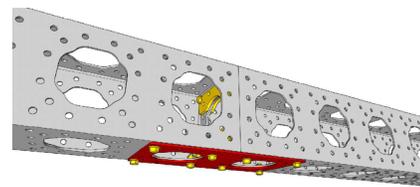


	PRECISION LEVEL - MED - +0.04 (-1.59) BRACKET (-) DIMENSIONS ARE IN MM
	6/3/2024
REVISION: A	
DESCRIPTION: ALUMINUM TAPERED TRUSS	
PART NUMBER: MT-TR-TT-06-12-06-06-XXX-AL	

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LOAD TABLES





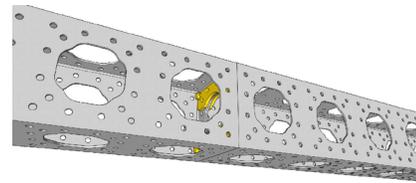
12" Aluminum Truss With Splice Plate at Connections

TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD Total Load = Point Load x 2		QUARTER POINT LOAD Total Load = Point Load x 3		FIFTH POINT LOAD Total Load = Point Load x 4	
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	23,270 (10,555)	0.04 (1.02)	13,849 (6,282)	0.03 (0.76)	10,387 (4,711)	0.04 (1.02)	6,924 (3,141)	0.04 (1.02)	5,770 (2,617)	0.04 (1.02)
10'-0" (3.05 m)	13,780 (6,250)	0.17 (4.32)	6,888 (3,124)	0.14 (3.56)	5,166 (2,343)	0.17 (4.32)	3,444 (1,562)	0.16 (4.06)	2,870 (1,302)	0.17 (4.32)
15'-0" (4.57 m)	9,105 (4,130)	0.38 (9.65)	4,552 (2,065)	0.31 (7.87)	3,414 (1,549)	0.39 (9.91)	2,276 (1,032)	0.37 (9.40)	1,897 (860)	0.38 (9.65)
20'-0" (6.10 m)	6,740 (3,057)	0.68 (17.27)	3,372 (1,530)	0.55 (13.97)	2,529 (1,147)	0.70 (17.78)	1,686 (765)	0.65 (16.51)	1,405 (637)	0.68 (17.27)
25'-0" (7.62 m)	5,300 (2,404)	1.06 (26.92)	2,655 (1,204)	0.86 (21.84)	1,991 (903)	1.09 (27.69)	1,327 (602)	1.02 (25.91)	1,106 (502)	1.06 (26.92)
30'-0" (9.14 m)	4,350 (1,973)	1.53 (38.86)	2,168 (983)	1.24 (31.50)	1,626 (738)	1.57 (39.88)	1,084 (492)	1.47 (37.34)	903 (410)	1.53 (38.86)
35'-0" (10.67 m)	3,640 (1,651)	2.08 (52.83)	1,814 (823)	1.70 (43.18)	1,360 (617)	2.14 (54.36)	907 (411)	2.01 (51.05)	756 (343)	2.08 (52.83)
40'-0" (12.19 m)	3,080 (1,397)	2.72 (69.09)	1,542 (699)	2.23 (56.64)	1,157 (525)	2.79 (70.87)	771 (350)	2.62 (66.55)	643 (292)	2.72 (69.09)
45'-0" (13.72 m)	2,655 (1,204)	3.44 (87.38)	1,325 (601)	2.85 (72.39)	994 (451)	3.52 (89.41)	663 (301)	3.32 (84.33)	552 (250)	3.44 (87.38)
50'-0" (15.24 m)	2,300 (1,043)	4.25 (107.95)	1,147 (520)	3.54 (89.92)	860 (390)	4.35 (110.49)	574 (260)	4.11 (104.39)	478 (217)	4.25 (107.95)

MAX MOMENT : 17.34 KIP*FT (23.51 kN*m) • MAX SHEAR: 11.66 KIP (51.86 Kn) • Deflection Limited to L/100

- ALL LOAD VALUES ARE BASED ON THE ASSUMPTIONS AND GUIDELINES LISTED BELOW. ALL BIAXIAL LOADING, DYNAMIC LOADS, FIXED FRAMES, TORSIONAL FORCES, CANTILEVERS, AND SPANS LONGER THAN MAXIMUM LISTED IN THE TABLE SHALL BE REVIEWED BY A LICENSED ENGINEER
- THE TRUSS WAS ANALYZED AS A SIMPLE SPAN BEAM WITH SUPPORTS AT TRUSS ENDS ONLY.
- ALL LOADS ARE ASSUMED TO BE APPLIED VERTICALLY TO THE TRUSS.
- ALL LOADS ARE STATIC, NO DYNAMIC OR SHOCK LOADING WAS CONSIDERED IN THE ANALYSIS.
- ALL LOADS ARE APPLIED CENTERED BETWEEN THE WALLS, SUCH THAT TORSIONAL FORCES ARE NOT INDUCED IN THE TRUSS.
- THE SELF-WEIGHT OF THE TRUSS HAS BEEN CONSIDERED IN THE ANALYSIS.
- MAXIMUM DEFLECTION IS LIMITED TO SPAN LENGTH/100. CONTACT MODTRUSS FOR NON-DEFLECTION LIMITED LOADING INFORMATION AND L/180 DEFLECTION LIMITED LOADING INFORMATION.
- ALL DEFLECTIONS LISTED IN THE TABLE ARE BASED ON THEORETICAL VALUES, ACTUAL DEFLECTION MAY VARY.
- ALLOWABLE LOADS ARE BASED ON THE 2020 ALUMINUM DESIGN MANUAL AND AISC 360: SPECIFICATION FOR STEEL BUILDINGS.
- SPANS ARE ASSUMED TO BE CONSTRUCTED WITH THE MINIMUM NUMBER OF TRUSS SECTIONS REQUIRED.
- THE ALLOWABLE LOADING HAS NOT BEEN REDUCED FOR REPETITIVE USE AS PER ANSI E1.2-2021. IF REPETITIVE USE IS REQUIRED, REDUCE LOADS BY A FACTOR OF 0.85.
- ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION.
- LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS AND (4) 12" MODTRUSS WASHER PLATES, (2) ON EACH SIDE OF THE CONNECTION.
- SPlice PLATE ASSUMED TO BE INSTALLED ON THE BOTTOM AND OR TOP OF THE MODTRUSS IN TENSION AT THE END TO END BOLTED CONNECTION.
- EACH SPlice PLATE HAS (8) 5/8"Ø GRADE 8 BOLT SETS. CONTACT MODTRUSS FOR DETAILED SPlice CONNECTION DRAWINGS.

12" Aluminum Truss Column Axial Capacity Table		1. ALL COLUMNS ARE ASSUMED TO BE PINNED TOP AND BOTTOM AND USE AN EFFECTIVE LENGTH FACTOR OF K = 1.0.	
COLUMN UNBRACED LENGTH Feet-Inches (Meters)	ALLOWABLE AXIAL LOAD Pounds (Kilograms)	2. ALL CAPACITIES ASSUME NO OTHER SHEAR, FLEXURE, OR TORSIONAL FORCES ARE APPLIED TO THE COLUMN.	
10'-0" (3.05 m)	31,230 (14,166)	3. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION.	
20'-0" (6.10 m)	26,130 (11,852)	4. LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS AND (4) 12" MODTRUSS WASHER PLATES, (2) ON EACH SIDE OF THE CONNECTION.	
30'-0" (9.14 m)	21,300 (9,662)		
40'-0" (12.19 m)	16,770 (7,607)		
50'-0" (15.24 m)	12,520 (5,679)		



12" Aluminum Truss

Without Splice Plate at Connections

TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD Total Load = Point Load x 2		QUARTER POINT LOAD Total Load = Point Load x 3		FIFTH POINT LOAD Total Load = Point Load x 4	
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	20,610 (9,349)	0.03 (0.76)	10,306 (4,675)	0.03 (0.76)	7,729 (3,506)	0.03 (0.76)	5,153 (2,337)	0.03 (0.76)	4,294 (1,948)	0.03 (0.76)
10'-0" (3.05 m)	10,230 (4,640)	0.13 (3.30)	5,117 (2,321)	0.10 (2.54)	3,838 (1,741)	0.13 (3.30)	2,558 (1,160)	0.12 (3.05)	2,132 (967)	0.13 (3.30)
15'-0" (4.57 m)	6,735 (3,055)	0.28 (7.11)	3,371 (1,529)	0.23 (5.84)	2,528 (1,147)	0.29 (7.37)	1,686 (765)	0.27 (6.86)	1,405 (637)	0.28 (7.11)
20'-0" (6.10 m)	4,980 (2,259)	0.51 (12.95)	2,486 (1,128)	0.41 (10.41)	1,865 (846)	0.52 (13.21)	1,243 (564)	0.49 (12.45)	1,036 (470)	0.51 (12.95)
25'-0" (7.62 m)	3,900 (1,769)	0.79 (20.07)	1,946 (883)	0.64 (16.26)	1,459 (662)	0.81 (20.57)	973 (441)	0.76 (19.30)	811 (368)	0.79 (20.07)
30'-0" (9.14 m)	3,150 (1,429)	1.14 (28.96)	1,578 (716)	0.93 (23.62)	1,183 (537)	1.17 (29.72)	789 (358)	1.10 (27.94)	657 (298)	1.14 (28.96)
35'-0" (10.67 m)	2,625 (1,191)	1.55 (39.37)	1,308 (593)	1.28 (32.51)	981 (445)	1.59 (40.39)	654 (297)	1.49 (37.85)	545 (247)	1.55 (39.37)
40'-0" (12.19 m)	2,200 (998)	2.02 (51.31)	1,099 (498)	1.68 (42.67)	824 (374)	2.07 (52.58)	550 (249)	1.96 (49.78)	458 (208)	2.02 (51.31)
45'-0" (13.72 m)	1,845 (837)	2.56 (65.02)	932 (423)	2.15 (54.61)	699 (317)	2.62 (66.55)	466 (211)	2.48 (62.99)	388 (176)	2.56 (65.02)
50'-0" (15.24 m)	1,600 (726)	3.16 (80.26)	793 (360)	2.68 (68.07)	595 (270)	3.23 (82.04)	396 (180)	3.07 (77.98)	330 (150)	3.16 (80.26)

MAX MOMENT : 12.91 KIP*FT (17.51 kN*m) • MAX SHEAR: 11.66 KIP (51.86 Kn) • Deflection Limited to L/100

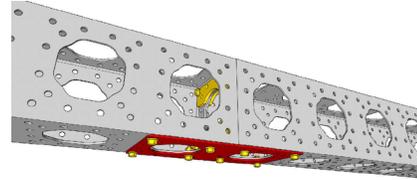
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12" Aluminum Truss Column Axial Capacity Table		1. ALL COLUMNS ARE ASSUMED TO BE PINNED TOP AND BOTTOM AND USE AN EFFECTIVE LENGTH FACTOR OF K = 1.0. 2. ALL CAPACITIES ASSUME NO OTHER SHEAR, FLEXURE, OR TORSIONAL FORCES ARE APPLIED TO THE COLUMN. 3. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION. 4. LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS AND (4) 12" MODTRUSS WASHER PLATES, (2) ON EACH SIDE OF THE CONNECTION.	
COLUMN UNBRACED LENGTH Feet-Inches (Meters)	ALLOWABLE AXIAL LOAD Pounds (Kilograms)		
10'-0" (3.05 m)	31,230 (14,166)		
20'-0" (6.10 m)	26,130 (11,852)		
30'-0" (9.14 m)	21,300 (9,662)		
40'-0" (12.19 m)	16,770 (7,607)		
50'-0" (15.24 m)	12,520 (5,679)		

PE Stamped structural Engineering report by by Clark Reder Engineering, Inc • 10091 Mosteller Lane, West Chester, OH 45069-3873 • Phone (513) 851-1223
CRE Project Number [20,419,02](#) • SUBMITTAL DATE: 6/5/2025

ModTruss, Inc • 7741 Commercial Lane, Allenton, WI 53002 • Phone (844) 663-8787 • Email info@ModTruss.com • www.ModTruss.com

U.S. Patent No. 8,418,425 & other patents pending
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12" Steel Truss With Splice Plate at Connections

TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD Total Load = Point Load x 2		QUARTER POINT LOAD Total Load = Point Load x 3		FIFTH POINT LOAD Total Load = Point Load x 4	
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	43,515 (19,738)	0.07 (1.78)	26,187 (11,878)	0.06 (1.52)	19,640 (8,909)	0.08 (2.03)	13,094 (5,939)	0.08 (2.03)	10,879 (4,935)	0.08 (2.03)
10'-0" (3.05 m)	25,980 (11,784)	0.32 (8.13)	12,990 (5,892)	0.26 (6.60)	9,743 (4,419)	0.33 (8.38)	6,495 (2,946)	0.31 (7.87)	5,413 (2,455)	0.32 (8.13)
15'-0" (4.57 m)	17,085 (7,750)	0.72 (18.29)	8,545 (3,876)	0.58 (14.73)	6,409 (2,907)	0.74 (18.80)	4,273 (1,938)	0.70 (17.78)	3,560 (1,615)	0.72 (18.29)
20'-0" (6.10 m)	12,580 (5,706)	1.29 (32.77)	6,288 (2,852)	1.04 (26.42)	4,716 (2,139)	1.32 (33.53)	3,144 (1,426)	1.24 (31.50)	2,620 (1,188)	1.29 (32.77)
25'-0" (7.62 m)	9,825 (4,457)	2.01 (51.05)	4,906 (2,225)	1.63 (41.40)	3,680 (1,669)	2.06 (52.32)	2,453 (1,113)	1.93 (49.02)	2,044 (927)	2.01 (51.05)
30'-0" (9.14 m)	7,920 (3,592)	2.89 (73.41)	3,962 (1,797)	2.37 (60.20)	2,972 (1,348)	2.97 (75.44)	1,981 (899)	2.79 (70.87)	1,651 (749)	2.89 (73.41)
35'-0" (10.67 m)	6,545 (2,969)	3.94 (100.08)	3,268 (1,482)	3.25 (82.55)	2,451 (1,112)	4.04 (102.62)	1,634 (741)	3.80 (96.52)	1,362 (618)	3.94 (100.08)
40'-0" (12.19 m)	5,040 (2,286)	4.80 (121.92)	2,730 (1,238)	4.29 (108.97)	1,830 (830)	4.80 (121.92)	1,307 (593)	4.80 (121.92)	1,046 (474)	4.80 (121.92)
45'-0" (13.72 m)	3,600 (1,633)	5.40 (137.16)	2,248 (1,020)	5.40 (137.16)	1,311 (595)	5.40 (137.16)	937 (425)	5.40 (137.16)	749 (340)	5.40 (137.16)
50'-0" (15.24 m)	2,550 (1,157)	6.00 (152.40)	1,587 (720)	6.00 (152.40)	926 (420)	6.00 (152.40)	661 (300)	6.00 (152.40)	529 (240)	6.00 (152.40)

MAX MOMENT : 32.82 KIP*FT (44.5 kN*m) • MAX SHEAR: 21.83 KIP (97.09 Kn) • Deflection Limited to L/100

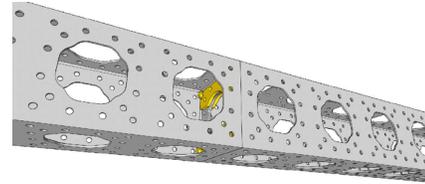
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14. SPLICE PLATE ASSUMED TO BE INSTALLED ON THE BOTTOM AND OR TOP OF THE MODTRUSS IN TENSION AT THE END TO END BOLTED CONNECTION.
15. EACH SPLICE PLATE HAS (8) 5/8"Ø GRADE 8 BOLT SETS. CONTACT MODTRUSS FOR DETAILED SPLICE CONNECTION DRAWINGS.

12" Steel Truss Column Axial Capacity Table		1. ALL COLUMNS ARE ASSUMED TO BE PINNED TOP AND BOTTOM AND USE AN EFFECTIVE LENGTH FACTOR OF K = 1.0. 2. ALL CAPACITIES ASSUME NO OTHER SHEAR, FLEXURE, OR TORSIONAL FORCES ARE APPLIED TO THE COLUMN. 3. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION. 4. LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS AND (4) 12" MODTRUSS WASHER PLATES, (2) ON EACH SIDE OF THE CONNECTION.
COLUMN UNBRACED LENGTH Feet-Inches (Meters)	ALLOWABLE AXIAL LOAD Pounds (Kilograms)	
10'-0" (3.05 m)	73,050 (33,135)	
20'-0" (6.10 m)	67,410 (30,577)	
30'-0" (9.14 m)	58,950 (26,739)	
40'-0" (12.19 m)	48,860 (22,163)	
50'-0" (15.24 m)	38,380 (17,409)	

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U.S. Patent No. 8,418,425 & other patents pending
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12" Steel Truss

Without Splice Plate at Connections

TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD Total Load = Point Load x 2		QUARTER POINT LOAD Total Load = Point Load x 3		FIFTH POINT LOAD Total Load = Point Load x 4	
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	33,280 (15,096)	0.05 (1.27)	16,639 (7,547)	0.04 (1.02)	12,479 (5,660)	0.05 (1.27)	8,320 (3,774)	0.05 (1.27)	6,933 (3,145)	0.05 (1.27)
10'-0" (3.05 m)	16,430 (7,453)	0.20 (5.08)	8,216 (3,727)	0.16 (4.06)	6,162 (2,795)	0.21 (5.33)	4,108 (1,863)	0.20 (5.08)	3,423 (1,553)	0.20 (5.08)
15'-0" (4.57 m)	10,725 (4,865)	0.46 (11.68)	5,362 (2,432)	0.37 (9.40)	4,022 (1,824)	0.47 (11.94)	2,681 (1,216)	0.44 (11.18)	2,234 (1,013)	0.46 (11.68)
20'-0" (6.10 m)	7,800 (3,538)	0.82 (20.83)	3,901 (1,769)	0.67 (17.02)	2,926 (1,327)	0.84 (21.34)	1,951 (885)	0.79 (20.07)	1,625 (737)	0.82 (20.83)
25'-0" (7.62 m)	6,000 (2,722)	1.28 (32.51)	2,997 (1,359)	1.05 (26.67)	2,247 (1,019)	1.31 (33.27)	1,498 (679)	1.23 (31.24)	1,249 (567)	1.28 (32.51)
30'-0" (9.14 m)	4,740 (2,150)	1.84 (46.74)	2,371 (1,075)	1.53 (38.86)	1,778 (806)	1.89 (48.01)	1,185 (538)	1.78 (45.21)	988 (448)	1.84 (46.74)
35'-0" (10.67 m)	3,815 (1,730)	2.51 (63.75)	1,904 (864)	2.11 (53.59)	1,428 (648)	2.56 (65.02)	952 (432)	2.43 (61.72)	793 (360)	2.51 (63.75)
40'-0" (12.19 m)	3,080 (1,397)	3.27 (83.06)	1,537 (697)	2.79 (70.87)	1,152 (523)	3.34 (84.84)	768 (348)	3.18 (80.77)	640 (290)	3.27 (83.06)
45'-0" (13.72 m)	2,475 (1,123)	4.14 (105.16)	1,235 (560)	3.59 (91.19)	927 (420)	4.22 (107.19)	618 (280)	4.03 (102.36)	515 (234)	4.14 (105.16)
50'-0" (15.24 m)	1,950 (885)	5.12 (130.05)	981 (445)	4.51 (114.55)	736 (334)	5.20 (132.08)	490 (222)	5.00 (127.00)	409 (186)	5.12 (130.05)

MAX MOMENT : 20.89 KIP*FT (28.32 kN*m) • MAX SHEAR: 21.83 KIP (97.09 Kn) • Deflection Limited to L/100

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12" Steel Truss Column Axial Capacity Table			
COLUMN UNBRACED LENGTH Feet-Inches (Meters)	ALLOWABLE AXIAL LOAD Pounds (Kilograms)		
10'-0" (3.05 m)	73,050 (33,135)	1. ALL COLUMNS ARE ASSUMED TO BE PINNED TOP AND BOTTOM AND USE AN EFFECTIVE LENGTH FACTOR OF K = 1.0. 2. ALL CAPACITIES ASSUME NO OTHER SHEAR, FLEXURE, OR TORSIONAL FORCES ARE APPLIED TO THE COLUMN. 3. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION. 4. LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS AND (4) 12" MODTRUSS WASHER PLATES, (2) ON EACH SIDE OF THE CONNECTION.	
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40'-0" (12.19 m)	48,860 (22,163)		
50'-0" (15.24 m)	38,380 (17,409)		

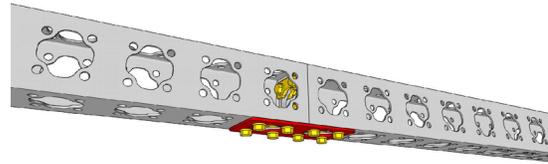
PE Stamped structural Engineering report by by Clark Reder Engineering, Inc • 10091 Mosteller Lane, West Chester, OH 45069-3873 • Phone (513) 851-1223
 CRE Project Number [20_419_02](#) • SUBMITTAL DATE: 6/5/2025

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U.S. Patent No. 8,418,425 & other patents pending
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6" Aluminum Truss With Splice Plate at Connections



TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD Total Load = Point Load x 2		QUARTER POINT LOAD Total Load = Point Load x 3		FIFTH POINT LOAD Total Load = Point Load x 4	
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	4,980 (2,259)	0.08 (2.03)	2,490 (1,129)	0.07 (1.78)	1,868 (847)	0.08 (2.03)	1,245 (565)	0.08 (2.03)	1,038 (471)	0.08 (2.03)
10'-0" (3.05 m)	2,460 (1,116)	0.32 (8.13)	1,231 (558)	0.26 (6.60)	923 (419)	0.33 (8.38)	615 (279)	0.31 (7.87)	513 (233)	0.32 (8.13)
15'-0" (4.57 m)	1,605 (728)	0.73 (18.54)	805 (365)	0.59 (14.99)	604 (274)	0.75 (19.05)	402 (182)	0.70 (17.78)	335 (152)	0.73 (18.54)
20'-0" (6.10 m)	1,180 (535)	1.30 (33.02)	587 (266)	1.06 (26.92)	440 (200)	1.33 (33.78)	293 (133)	1.25 (31.75)	245 (111)	1.30 (33.02)
25'-0" (7.62 m)	900 (408)	2.03 (51.56)	452 (205)	1.66 (42.16)	339 (154)	2.08 (52.83)	226 (103)	1.96 (49.78)	189 (86)	2.03 (51.56)
30'-0" (9.14 m)	720 (327)	2.92 (74.17)	360 (163)	2.42 (61.47)	270 (122)	3.00 (76.20)	180 (82)	2.82 (71.63)	150 (68)	2.92 (74.17)

MAX MOMENT : 3.12 KIP*FT (4.24 kN*m) • MAX SHEAR: 4.24 KIP (18.84 Kn) • Deflection Limited to L/100

1. ALL LOAD VALUES ARE BASED ON THE ASSUMPTIONS AND GUIDELINES LISTED BELOW. ALL BIAxIAL LOADING, DYNAMIC LOADS, FIXED FRAMES, TORSIONAL FORCES, CANTILEVERS, AND SPANS LONGER THAN MAXIMUM LISTED IN THE TABLE SHALL BE REVIEWED BY A LICENSED ENGINEER
2. THE TRUSS WAS ANALYZED AS A SIMPLE SPAN BEAM WITH SUPPORTS AT TRUSS ENDS ONLY.
3. ALL LOADS ARE ASSUMED TO BE APPLIED VERTICALLY TO THE TRUSS.
4. ALL LOADS ARE STATIC, NO DYNAMIC OR SHOCK LOADING WAS CONSIDERED IN THE ANALYSIS.
5. ALL LOADS ARE APPLIED CENTERED BETWEEN THE WALLS, SUCH THAT TORSIONAL FORCES ARE NOT INDUCED IN THE TRUSS.
6. THE SELF-WEIGHT OF THE TRUSS HAS BEEN CONSIDERED IN THE ANALYSIS.
7. MAXIMUM DEFLECTION IS LIMITED TO SPAN LENGTH/100. CONTACT MODTRUSS FOR NON-DEFLECTION LIMITED LOADING INFORMATION AND L/180 DEFLECTION LIMITED LOADING INFORMATION.
8. ALL DEFLECTIONS LISTED IN THE TABLE ARE BASED ON THEORETICAL VALUES, ACTUAL DEFLECTION MAY VARY.
9. ALLOWABLE LOADS ARE BASED ON THE 2020 ALUMINUM DESIGN MANUAL AND AISC 360: SPECIFICATION FOR STEEL BUILDINGS.
10. SPANS ARE ASSUMED TO BE CONSTRUCTED WITH THE MINIMUM NUMBER OF TRUSS SECTIONS REQUIRED.
11. THE ALLOWABLE LOADING HAS NOT BEEN REDUCED FOR REPETITIVE USE AS PER ANSI E1.2-2021. IF REPETITIVE USE IS REQUIRED, REDUCE LOADS BY A FACTOR OF 0.85.
12. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION.
13. LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS AND (4) 6" MODTRUSS WASHER PLATES, (2) ON EACH SIDE OF THE CONNECTION.
14. SPLICE PLATE ASSUMED TO BE INSTALLED ON THE BOTTOM AND OR TOP OF THE MODTRUSS IN TENSION AT THE END TO END BOLTED CONNECTION.
15. EACH SPLICE PLATE HAS (8) 5/8"Ø GRADE 8 BOLT SETS. CONTACT MODTRUSS FOR DETAILED SPLICE CONNECTION DRAWINGS.

6" Aluminum Truss Column Axial Capacity Table			
COLUMN UNBRACED LENGTH Feet-Inches (Meters)	ALLOWABLE AXIAL LOAD Pounds (Kilograms)		
10'-0" (3.05 m)	8,630 (3,914)	1. ALL COLUMNS ARE ASSUMED TO BE PINNED TOP AND BOTTOM AND USE AN EFFECTIVE LENGTH FACTOR OF K = 1.0. 2. ALL CAPACITIES ASSUME NO OTHER SHEAR, FLEXURE, OR TORSIONAL FORCES ARE APPLIED TO THE COLUMN. 3. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION. 4. LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS AND (4) 6" MODTRUSS WASHER PLATES, (2) ON EACH SIDE OF THE CONNECTION.	
20'-0" (6.10 m)	6,100 (2,767)		
30'-0" (9.14 m)	3,930 (1,783)		
40'-0" (12.19 m)	2,340 (1,061)		

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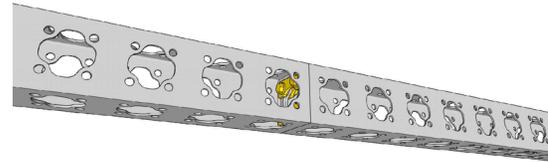
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U.S. Patent No. 8,418,425 & other patents pending
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6" Aluminum Truss

Without Splice Plate at Connections



TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD Total Load = Point Load x 2		QUARTER POINT LOAD Total Load = Point Load x 3		FIFTH POINT LOAD Total Load = Point Load x 4	
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	3,510 (1,592)	0.06 (1.52)	1,755 (796)	0.05 (1.27)	1,316 (597)	0.06 (1.52)	878 (398)	0.06 (1.52)	731 (332)	0.06 (1.52)
10'-0" (3.05 m)	1,730 (785)	0.23 (5.84)	863 (391)	0.18 (4.57)	648 (294)	0.24 (6.10)	432 (196)	0.22 (5.59)	360 (163)	0.23 (5.84)
15'-0" (4.57 m)	1,125 (510)	0.52 (13.21)	560 (254)	0.42 (10.67)	420 (191)	0.53 (13.46)	280 (127)	0.50 (12.70)	233 (106)	0.52 (13.21)
20'-0" (6.10 m)	800 (363)	0.92 (23.37)	403 (183)	0.75 (19.05)	302 (137)	0.94 (23.88)	202 (92)	0.88 (22.35)	168 (76)	0.92 (23.37)
25'-0" (7.62 m)	600 (272)	1.43 (36.32)	305 (138)	1.19 (30.23)	229 (104)	1.47 (37.34)	153 (69)	1.38 (35.05)	127 (58)	1.43 (36.32)
30'-0" (9.14 m)	480 (218)	2.06 (52.32)	237 (108)	1.73 (43.94)	178 (81)	2.11 (53.59)	119 (54)	2.00 (50.80)	99 (45)	2.06 (52.32)

MAX MOMENT : 2.21 KIP*FT (2.99 kN*m) • MAX SHEAR: 4.24 KIP (18.84 Kn) • Deflection Limited to L/100

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- ALL LOADS ARE APPLIED CENTERED BETWEEN THE WALLS, SUCH THAT TORSIONAL FORCES ARE NOT INDUCED IN THE TRUSS.
- THE SELF-WEIGHT OF THE TRUSS HAS BEEN CONSIDERED IN THE ANALYSIS.
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- LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS AND (4) 6" MODTRUSS WASHER PLATES, (2) ON EACH SIDE OF THE CONNECTION.

6" Aluminum Truss Column Axial Capacity Table		1. ALL COLUMNS ARE ASSUMED TO BE PINNED TOP AND BOTTOM AND USE AN EFFECTIVE LENGTH FACTOR OF K = 1.0. 2. ALL CAPACITIES ASSUME NO OTHER SHEAR, FLEXURE, OR TORSIONAL FORCES ARE APPLIED TO THE COLUMN. 3. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION. 4. LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS AND (4) 6" MODTRUSS WASHER PLATES, (2) ON EACH SIDE OF THE CONNECTION.
COLUMN UNBRACED LENGTH Feet-Inches (Meters)	ALLOWABLE AXIAL LOAD Pounds (Kilograms)	
10'-0" (3.05 m)	8,630 (3,914)	
20'-0" (6.10 m)	6,100 (2,767)	
30'-0" (9.14 m)	3,930 (1,783)	
40'-0" (12.19 m)	2,340 (1,061)	

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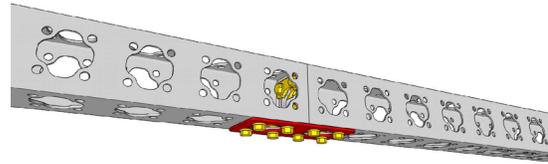
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U.S. Patent No. 8,418,425 & other patents pending
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6" Steel Truss

With Splice Plate at Connections



TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD Total Load = Point Load x 2		QUARTER POINT LOAD Total Load = Point Load x 3		FIFTH POINT LOAD Total Load = Point Load x 4	
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	11,030 (5,003)	0.18 (4.57)	5,516 (2,502)	0.14 (3.56)	4,137 (1,877)	0.19 (4.83)	2,758 (1,251)	0.17 (4.32)	2,298 (1,042)	0.18 (4.57)
10'-0" (3.05 m)	5,440 (2,468)	0.72 (18.29)	2,722 (1,235)	0.58 (14.73)	2,041 (926)	0.74 (18.80)	1,361 (617)	0.69 (17.53)	1,134 (514)	0.72 (18.29)
15'-0" (4.57 m)	3,555 (1,613)	1.62 (41.15)	1,774 (805)	1.31 (33.27)	1,330 (603)	1.66 (42.16)	887 (402)	1.56 (39.62)	739 (335)	1.62 (41.15)
20'-0" (6.10 m)	2,120 (962)	2.40 (60.96)	1,288 (584)	2.34 (59.44)	771 (350)	2.40 (60.96)	551 (250)	2.40 (60.96)	441 (200)	2.40 (60.96)
25'-0" (7.62 m)	1,225 (556)	3.00 (76.20)	772 (350)	3.00 (76.20)	450 (204)	3.00 (76.20)	322 (146)	3.00 (76.20)	257 (117)	3.00 (76.20)
30'-0" (9.14 m)	750 (340)	3.60 (91.44)	459 (208)	3.60 (91.44)	268 (122)	3.60 (91.44)	191 (87)	3.60 (91.44)	153 (69)	3.60 (91.44)

MAX MOMENT : 6.93 KIP*FT (9.39 kN*m) • MAX SHEAR: 9.4 KIP (41.8 Kn) • Deflection Limited to L/100

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- SPLICE PLATE ASSUMED TO BE INSTALLED ON THE BOTTOM AND OR TOP OF THE MODTRUSS IN TENSION AT THE END TO END BOLTED CONNECTION.
- EACH SPLICE PLATE HAS (8) 5/8"Ø GRADE 8 BOLT SETS. CONTACT MODTRUSS FOR DETAILED SPLICE CONNECTION DRAWINGS.

6" Steel Truss Column Axial Capacity Table		ALLOWABLE AXIAL LOAD Pounds (Kilograms)	
COLUMN UNBRACED LENGTH Feet-Inches (Meters)			
10'-0"	(3.05 m)	29,060	(13,181)
20'-0"	(6.10 m)	21,000	(9,525)
30'-0"	(9.14 m)	12,200	(5,534)
40'-0"	(12.19 m)	6,860	(3,112)

- ALL COLUMNS ARE ASSUMED TO BE PINNED TOP AND BOTTOM AND USE AN EFFECTIVE LENGTH FACTOR OF K = 1.0.
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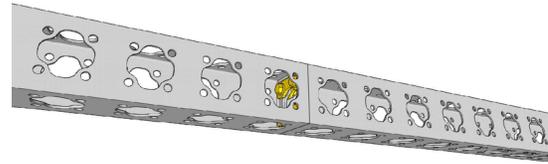
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U.S. Patent No. 8,418,425 & other patents pending
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6" Steel Truss

Without Splice Plate at Connections



TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD Total Load = Point Load x 2		QUARTER POINT LOAD Total Load = Point Load x 3		FIFTH POINT LOAD Total Load = Point Load x 4	
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	6,445 (2,923)	0.11 (2.79)	3,221 (1,461)	0.08 (2.03)	2,416 (1,096)	0.11 (2.79)	1,611 (731)	0.10 (2.54)	1,342 (609)	0.11 (2.79)
10'-0" (3.05 m)	3,150 (1,429)	0.42 (10.67)	1,574 (714)	0.34 (8.64)	1,181 (536)	0.43 (10.92)	787 (357)	0.41 (10.41)	656 (298)	0.42 (10.67)
15'-0" (4.57 m)	2,025 (919)	0.95 (24.13)	1,009 (458)	0.77 (19.56)	757 (343)	0.97 (24.64)	505 (229)	0.91 (23.11)	420 (191)	0.95 (24.13)
20'-0" (6.10 m)	1,420 (644)	1.69 (42.93)	714 (324)	1.39 (35.31)	536 (243)	1.73 (43.94)	357 (162)	1.63 (41.40)	298 (135)	1.69 (42.93)
25'-0" (7.62 m)	1,050 (476)	2.64 (67.06)	528 (239)	2.21 (56.13)	396 (180)	2.70 (68.58)	264 (120)	2.55 (64.77)	220 (100)	2.64 (67.06)
30'-0" (9.14 m)	750 (340)	3.60 (91.44)	395 (179)	3.24 (82.30)	268 (122)	3.60 (91.44)	191 (87)	3.60 (91.44)	153 (69)	3.60 (91.44)

MAX MOMENT : 4.06 KIP*FT (5.5 kN*m) • MAX SHEAR: 9.4 KIP (41.8 Kn) • Deflection Limited to L/100

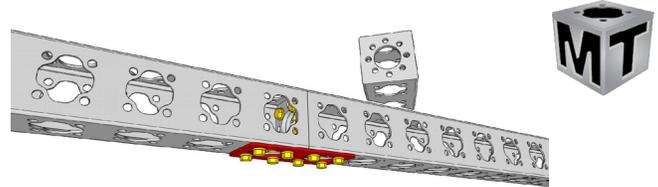
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6" Steel Truss Column Axial Capacity Table		1. ALL COLUMNS ARE ASSUMED TO BE PINNED TOP AND BOTTOM AND USE AN EFFECTIVE LENGTH FACTOR OF K = 1.0.	
COLUMN UNBRACED LENGTH Feet-Inches (Meters)	ALLOWABLE AXIAL LOAD Pounds (Kilograms)	2. ALL CAPACITIES ASSUME NO OTHER SHEAR, FLEXURE, OR TORSIONAL FORCES ARE APPLIED TO THE COLUMN.	
10'-0" (3.05 m)	29,060 (13,181)	3. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION.	
20'-0" (6.10 m)	21,000 (9,525)	4. LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS AND (4) 6" MODTRUSS WASHER PLATES, (2) ON EACH SIDE OF THE CONNECTION.	
30'-0" (9.14 m)	12,200 (5,534)		
40'-0" (12.19 m)	6,860 (3,112)		

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6" Aluminum Reinforced Truss With Splice Plate at Connections

TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD Total Load = Point Load x 2		QUARTER POINT LOAD Total Load = Point Load x 3		FIFTH POINT LOAD Total Load = Point Load x 4	
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	8,930 (4,051)	0.12 (3.05)	4,466 (2,026)	0.10 (2.54)	3,349 (1,519)	0.13 (3.30)	2,233 (1,013)	0.12 (3.05)	1,861 (844)	0.12 (3.05)
10'-0" (3.05 m)	4,430 (2,009)	0.49 (12.45)	2,217 (1,006)	0.39 (9.91)	1,663 (754)	0.50 (12.70)	1,109 (503)	0.47 (11.94)	924 (419)	0.49 (12.45)
15'-0" (4.57 m)	2,925 (1,327)	1.10 (27.94)	1,461 (663)	0.89 (22.61)	1,096 (497)	1.13 (28.70)	731 (332)	1.06 (26.92)	609 (276)	1.10 (27.94)
20'-0" (6.10 m)	2,160 (980)	1.96 (49.78)	1,078 (489)	1.58 (40.13)	808 (367)	2.01 (51.05)	539 (244)	1.88 (47.75)	449 (204)	1.96 (49.78)
25'-0" (7.62 m)	1,650 (748)	3.00 (76.20)	844 (383)	2.48 (62.99)	603 (274)	3.00 (76.20)	422 (191)	2.94 (74.68)	344 (156)	3.00 (76.20)
30'-0" (9.14 m)	1,110 (503)	3.60 (91.44)	684 (310)	3.60 (91.44)	400 (181)	3.60 (91.44)	286 (130)	3.60 (91.44)	228 (103)	3.60 (91.44)

MAX MOMENT : 5.59 KIP*FT (7.59 kN*m) • MAX SHEAR: 5.49 KIP (24.43 Kn) • Deflection Limited to L/100

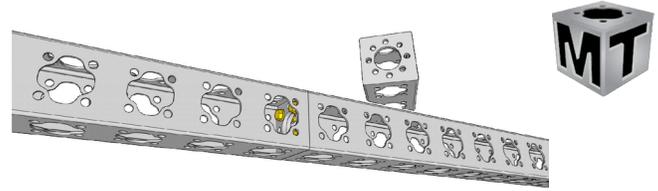
- ALL LOAD VALUES ARE BASED ON THE ASSUMPTIONS AND GUIDELINES LISTED BELOW. ALL BIAXIAL LOADING, DYNAMIC LOADS, FIXED FRAMES, TORSIONAL FORCES, CANTILEVERS, AND SPANS LONGER THAN MAXIMUM LISTED IN THE TABLE SHALL BE REVIEWED BY A LICENSED ENGINEER
- THE TRUSS WAS ANALYZED AS A SIMPLE SPAN BEAM WITH SUPPORTS AT TRUSS ENDS ONLY.
- ALL LOADS ARE ASSUMED TO BE APPLIED VERTICALLY TO THE TRUSS.
- ALL LOADS ARE STATIC, NO DYNAMIC OR SHOCK LOADING WAS CONSIDERED IN THE ANALYSIS.
- ALL LOADS ARE APPLIED CENTERED BETWEEN THE WALLS, SUCH THAT TORSIONAL FORCES ARE NOT INDUCED IN THE TRUSS.
- THE SELF-WEIGHT OF THE TRUSS HAS BEEN CONSIDERED IN THE ANALYSIS.
- MAXIMUM DEFLECTION IS LIMITED TO SPAN LENGTH/100. CONTACT MODTRUSS FOR NON-DEFLECTION LIMITED LOADING INFORMATION AND L/180 DEFLECTION LIMITED LOADING INFORMATION.
- ALL DEFLECTIONS LISTED IN THE TABLE ARE BASED ON THEORETICAL VALUES, ACTUAL DEFLECTION MAY VARY.
- ALLOWABLE LOADS ARE BASED ON THE 2020 ALUMINUM DESIGN MANUAL AND AISC 360: SPECIFICATION FOR STEEL BUILDINGS.
- SPANS ARE ASSUMED TO BE CONSTRUCTED WITH THE MINIMUM NUMBER OF TRUSS SECTIONS REQUIRED.
- THE ALLOWABLE LOADING HAS NOT BEEN REDUCED FOR REPETITIVE USE AS PER ANSI E1.2-2021. IF REPETITIVE USE IS REQUIRED, REDUCE LOADS BY A FACTOR OF 0.85.
- ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION.
- LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS.
- SPLICE PLATE ASSUMED TO BE INSTALLED ON THE BOTTOM AND OR TOP OF THE MODTRUSS IN TENSION AT THE END TO END BOLTED CONNECTION.
- EACH SPLICE PLATE HAS (8) 5/8"Ø GRADE 8 BOLT SETS. CONTACT MODTRUSS FOR DETAILED SPLICE CONNECTION DRAWINGS.

6" Aluminum Reinforced Truss Column Axial Capacity Table		1. ALL COLUMNS ARE ASSUMED TO BE PINNED TOP AND BOTTOM AND USE AN EFFECTIVE LENGTH FACTOR OF K = 1.0. 2. ALL CAPACITIES ASSUME NO OTHER SHEAR, FLEXURE, OR TORSIONAL FORCES ARE APPLIED TO THE COLUMN. 3. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION. 4. LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS.	
COLUMN UNBRACED LENGTH Feet-Inches (Meters)	ALLOWABLE AXIAL LOAD Pounds (Kilograms)		
10'-0" (3.05 m)	30,520 (13,844)		
20'-0" (6.10 m)	12,260 (5,561)		
30'-0" (9.14 m)	5,450 (2,472)		
40'-0" (12.19 m)	3,060 (1,388)		

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CRE Project Number 24.419.18 • SUBMITTAL DATE: 6/5/2025

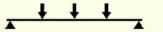
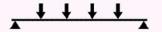
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U.S. Patent No. 8,418,425 & other patents pending
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6" Aluminum Reinforced Truss

Without Splice Plate at Connections

TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD <small>Total Load = Point Load x 2</small>		QUARTER POINT LOAD <small>Total Load = Point Load x 3</small>		FIFTH POINT LOAD <small>Total Load = Point Load x 4</small>	
										
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	5,750 (2,608)	0.08 (2.03)	2,874 (1,304)	0.06 (1.52)	2,155 (977)	0.08 (2.03)	1,437 (652)	0.08 (2.03)	1,197 (543)	0.08 (2.03)
10'-0" (3.05 m)	2,840 (1,288)	0.32 (8.13)	1,422 (645)	0.25 (6.35)	1,066 (484)	0.32 (8.13)	711 (323)	0.30 (7.62)	592 (269)	0.32 (8.13)
15'-0" (4.57 m)	1,860 (844)	0.71 (18.03)	931 (422)	0.57 (14.48)	698 (317)	0.73 (18.54)	465 (211)	0.68 (17.27)	388 (176)	0.71 (18.03)
20'-0" (6.10 m)	1,360 (617)	1.26 (32.00)	680 (308)	1.02 (25.91)	510 (231)	1.30 (33.02)	340 (154)	1.21 (30.73)	283 (128)	1.26 (32.00)
25'-0" (7.62 m)	1,050 (476)	1.97 (50.04)	526 (239)	1.61 (40.89)	394 (179)	2.02 (51.31)	263 (119)	1.90 (48.26)	219 (99)	1.97 (50.04)
30'-0" (9.14 m)	840 (381)	2.84 (72.14)	419 (190)	2.34 (59.44)	314 (142)	2.91 (73.91)	210 (95)	2.74 (69.60)	175 (79)	2.84 (72.14)

MAX MOMENT : 3.61 KIP*FT (4.89 kN*m) • MAX SHEAR: 5.49 KIP (24.43 Kn) • Deflection Limited to L/100

1. ALL LOAD VALUES ARE BASED ON THE ASSUMPTIONS AND GUIDELINES LISTED BELOW. ALL BIAXIAL LOADING, DYNAMIC LOADS, FIXED FRAMES, TORSIONAL FORCES, CANTILEVERS, AND SPANS LONGER THAN MAXIMUM LISTED IN THE TABLE SHALL BE REVIEWED BY A LICENSED ENGINEER
2. THE TRUSS WAS ANALYZED AS A SIMPLE SPAN BEAM WITH SUPPORTS AT TRUSS ENDS ONLY.
3. ALL LOADS ARE ASSUMED TO BE APPLIED VERTICALLY TO THE TRUSS.
4. ALL LOADS ARE STATIC, NO DYNAMIC OR SHOCK LOADING WAS CONSIDERED IN THE ANALYSIS.
5. ALL LOADS ARE APPLIED CENTERED BETWEEN THE WALLS, SUCH THAT TORSIONAL FORCES ARE NOT INDUCED IN THE TRUSS.
6. THE SELF-WEIGHT OF THE TRUSS HAS BEEN CONSIDERED IN THE ANALYSIS.
7. MAXIMUM DEFLECTION IS LIMITED TO SPAN LENGTH/100. CONTACT MODTRUSS FOR NON-DEFLECTION LIMITED LOADING INFORMATION AND L/180 DEFLECTION LIMITED LOADING INFORMATION.
8. ALL DEFLECTIONS LISTED IN THE TABLE ARE BASED ON THEORETICAL VALUES, ACTUAL DEFLECTION MAY VARY.
9. ALLOWABLE LOADS ARE BASED ON THE 2020 ALUMINUM DESIGN MANUAL AND AISC 360: SPECIFICATION FOR STEEL BUILDINGS.
10. SPANS ARE ASSUMED TO BE CONSTRUCTED WITH THE MINIMUM NUMBER OF TRUSS SECTIONS REQUIRED.
11. THE ALLOWABLE LOADING HAS NOT BEEN REDUCED FOR REPETITIVE USE AS PER ANSI E1.2-2021. IF REPETITIVE USE IS REQUIRED, REDUCE LOADS BY A FACTOR OF 0.85.
12. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION.
13. LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS.

6" Aluminum Reinforced Truss Column Axial Capacity Table			
COLUMN UNBRACED LENGTH Feet-Inches (Meters)	ALLOWABLE AXIAL LOAD Pounds (Kilograms)		
10'-0" (3.05 m)	30,520 (13,844)	<ol style="list-style-type: none"> 1. ALL COLUMNS ARE ASSUMED TO BE PINNED TOP AND BOTTOM AND USE AN EFFECTIVE LENGTH FACTOR OF K = 1.0. 2. ALL CAPACITIES ASSUME NO OTHER SHEAR, FLEXURE, OR TORSIONAL FORCES ARE APPLIED TO THE COLUMN. 3. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION. 4. LOADS WERE EVALUATED FOR EXTERIOR CORNER BOLT LOCATIONS WITH (4) 5/8"Ø GRADE 8 BOLT SETS. 	
20'-0" (6.10 m)	12,260 (5,561)		
30'-0" (9.14 m)	5,450 (2,472)		
40'-0" (12.19 m)	3,060 (1,388)		

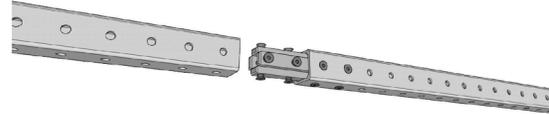
PE Stamped structural Engineering report by by Clark Reder Engineering, Inc • 10091 Mosteller Lane, West Chester, OH 45069-3873 • Phone (513) 851-1223
CRE Project Number 24.419.18 • SUBMITTAL DATE: 6/5/2025

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U.S. Patent No. 8,418,425 & other patents pending
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3" Aluminum Truss With Splice (Splice Bars at Connection)



TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD Total Load = Point Load x 2		QUARTER POINT LOAD Total Load = Point Load x 3		FIFTH POINT LOAD Total Load = Point Load x 4	
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	3,150 (1,429)	0.26 (6.60)	1,576 (715)	0.21 (5.33)	1,182 (536)	0.27 (6.86)	788 (357)	0.25 (6.35)	656 (298)	0.26 (6.60)
10'-0" (3.05 m)	1,550 (703)	1.04 (26.42)	776 (352)	0.84 (21.34)	582 (264)	1.07 (27.18)	388 (176)	1.00 (25.40)	323 (147)	1.04 (26.42)
15'-0" (4.57 m)	765 (347)	1.80 (45.72)	476 (216)	1.80 (45.72)	278 (126)	1.80 (45.72)	198 (90)	1.80 (45.72)	159 (72)	1.80 (45.72)
20'-0" (6.10 m)	400 (181)	2.40 (60.96)	245 (111)	2.40 (60.96)	143 (65)	2.40 (60.96)	102 (46)	2.40 (60.96)	82 (37)	2.40 (60.96)
25'-0" (7.62 m)	225 (102)	3.00 (76.20)	133 (60)	3.00 (76.20)	78 (35)	3.00 (76.20)	56 (25)	3.00 (76.20)	44 (20)	3.00 (76.20)

MAX MOMENT : 1.98 KIP*FT (2.68 kN*m) • MAX SHEAR: 7.31 KIP (32.52 Kn) • Deflection Limited to L/100

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- ALL LOADS ARE STATIC, NO DYNAMIC OR SHOCK LOADING WAS CONSIDERED IN THE ANALYSIS.
- ALL LOADS ARE APPLIED CENTERED BETWEEN THE WALLS, SUCH THAT TORSIONAL FORCES ARE NOT INDUCED IN THE TRUSS.
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- ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION.
- SPLICE BARS ASSUMED TO BE INSTALLED INSIDE OF THE MODTRUSS AT ALL (4) SIDES.
- EACH SPLICE BAR SHALL HAVE (4) 1/2"Ø BOLTS, (2) ON EACH SIDE OF CONNECTION.

3" Aluminum Truss Column Axial Capacity Table		1. ALL COLUMNS ARE ASSUMED TO BE PINNED TOP AND BOTTOM AND USE AN EFFECTIVE LENGTH FACTOR OF K = 1.0.	
COLUMN UNBRACED LENGTH Feet-Inches (Meters)	ALLOWABLE AXIAL LOAD Pounds (Kilograms)	2. ALL CAPACITIES ASSUME NO OTHER SHEAR, FLEXURE, OR TORSIONAL FORCES ARE APPLIED TO THE COLUMN.	
10'-0" (3.05 m)	10,850 (4,921)	3. ALL MATERIAL MUST BE INSPECTED PRIOR TO USE AND SHALL MEET MODTRUSS INSPECTION PROGRAM. CONTACT MODTRUSS FOR MORE INFORMATION.	
20'-0" (6.10 m)	2,710 (1,229)	4. SPLICE BARS ASSUMED TO BE INSTALLED INSIDE OF THE MODTRUSS AT ALL (4) SIDES.	
30'-0" (9.14 m)	1,210 (549)	5. EACH SPLICE BAR SHALL HAVE (4) 1/2"Ø BOLTS, (2) ON EACH SIDE OF CONNECTION.	
40'-0" (12.19 m)	680 (308)		

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CRE Project Number 24.419.24 • SUBMITTAL DATE: 4/4/2025

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U.S. Patent No. 8,418,425 & other patents pending

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3" Aluminum Truss Without Splice (Continuous Member)

TRUSS SPAN Feet-Inches (Meters)	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD Total Load = Point Load x 2		QUARTER POINT LOAD Total Load = Point Load x 3		FIFTH POINT LOAD Total Load = Point Load x 4	
	TOTAL LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)	POINT LOAD Pounds (Kilograms)	DEFLECTION Inches (Millimeters)
5'-0" (1.52 m)	6,125 (2,778)	0.51 (12.95)	3,063 (1,389)	0.41 (10.41)	2,297 (1,042)	0.52 (13.21)	1,531 (694)	0.49 (12.45)	1,276 (579)	0.51 (12.95)
10'-0" (3.05 m)	1,790 (812)	1.20 (30.48)	1,117 (507)	1.20 (30.48)	652 (296)	1.20 (30.48)	466 (211)	1.20 (30.48)	372 (169)	1.20 (30.48)
15'-0" (4.57 m)	765 (347)	1.80 (45.72)	476 (216)	1.80 (45.72)	278 (126)	1.80 (45.72)	198 (90)	1.80 (45.72)	159 (72)	1.80 (45.72)
20'-0" (6.10 m)	400 (181)	2.40 (60.96)	245 (111)	2.40 (60.96)	143 (65)	2.40 (60.96)	102 (46)	2.40 (60.96)	82 (37)	2.40 (60.96)

MAX MOMENT : 3.84 KIP*FT (5.20 kN*m) • MAX SHEAR: 7.31 KIP (32.52 Kn) • Deflection Limited to L/100

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3" Aluminum Truss Column Axial Capacity Table		ALLOWABLE AXIAL LOAD Pounds (Kilograms)	
COLUMN UNBRACED LENGTH Feet-Inches (Meters)			
10'-0" (3.05 m)		10,850 (4,921)	
20'-0" (6.10 m)		2,710 (1,229)	
30'-0" (9.14 m)		1,210 (549)	
40'-0" (12.19 m)		680 (308)	

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