

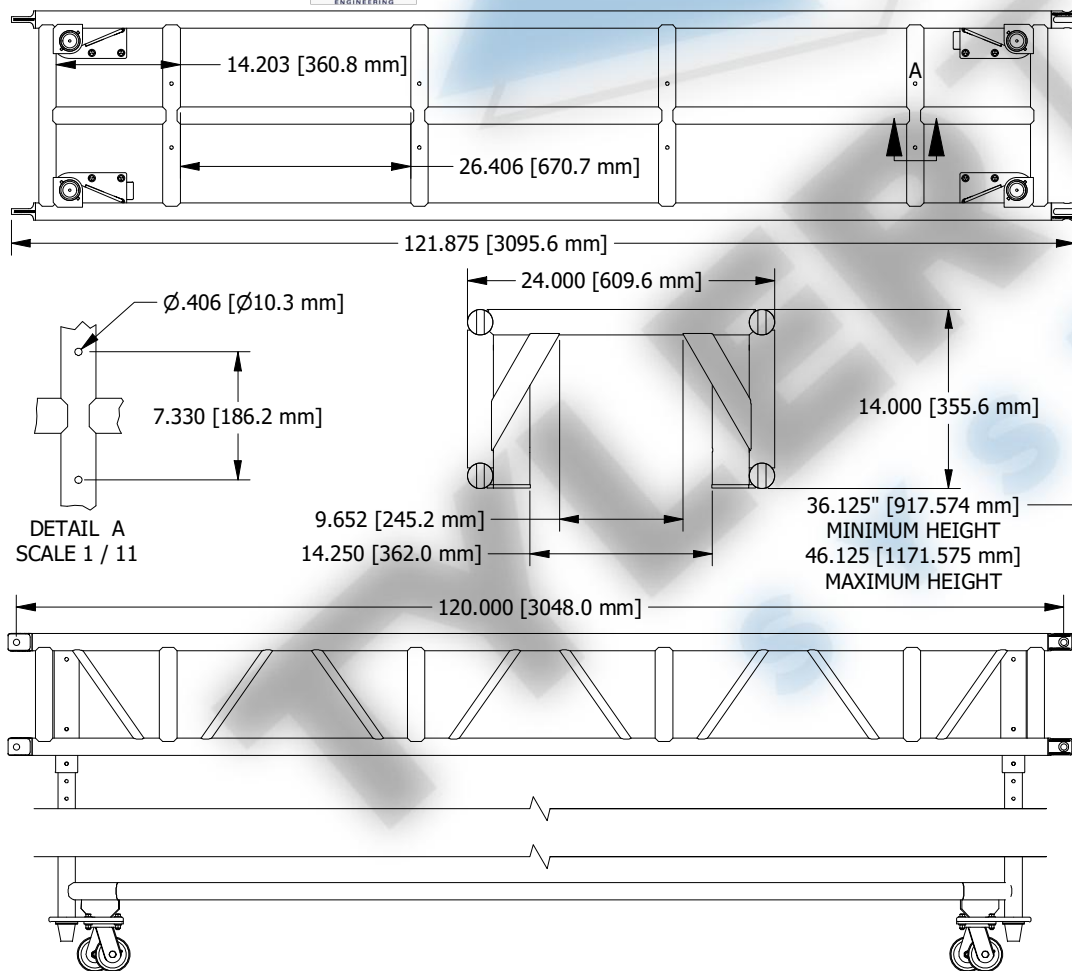
801120-F-14x24x120 GT VIDEO TRUSS (Repetitive Use 85%)

TRUSS SPAN	UNIFORMLY DISTRIBUTED LOAD			CENTER POINT LOAD		THIRD POINT LOAD		QUARTER POINT LOAD		FIFTH POINT LOAD	
length/ft	LOAD (pfl)	TOTAL (lbs)	DEFL. (in)	LOAD (lbs)	DEFL. (in)	LOAD (lbs)	DEFL. (in)	LOAD (lbs)	DEFL. (in)	LOAD (lbs)	DEFL. (in)
10	852	8520	0.12	6,546	0.15	4,259	0.17	2,839	0.16	2,130	0.15
20	319	6380	0.76	3,191	0.62	2,393	0.79	1,596	0.73	1,330	0.77
30	136	4080	1.72	2,037	1.42	1,528	1.78	1,018	1.66	849	1.74
40	72	2880	3.1	1,432	2.59	1,074	3.19	716	2.99	597	3.12
50	42	2100	4.9	1,048	4.17	786	5.04	524	4.75	437	4.93
60	22	1320	6.48	774	6.24	486	6.53	349	6.52	274	6.48
MAX. MOMENT (SIMPLE SPAN): 16.5 kip*ft; MAX SHEAR: 4.31 kip											

Table Usage Notes:

1. The Truss is supporting vertical loads only. I.E. The truss ladders are oriented vertically and no lateral loads are applied to the truss.
2. The Truss was analyzed as a simple span with supports at truss ends only.
3. The truss has been analyzed for static loads only.
4. All loads are evenly distributed between ladders.
5. All loads and supports are to be located at the panel points of the truss only.
6. Selfweight has been considered.
7. Maximum deflection limited to span/100.
8. Allowable loads based on 2020 Aluminum Design Manual & 15th edition AISC manual. All capacities have been reduced to 0.85 per ANSI E1.2-2020 for repetitive use members.
9. Backbone chord can support a maximum center point load of 500# between horizontal cross members or (2) 375# loads located at the third points of the member.
10. The horizontal member can support a 650# center point load, or (2) 475# loads spaced apart 7.33". (third point load)

Information extracted from the structural report by: CLARK REDER ENGINEERING



Note:
For continuous spans that are supported by more than 2 points on the ends, reference the continuous span table

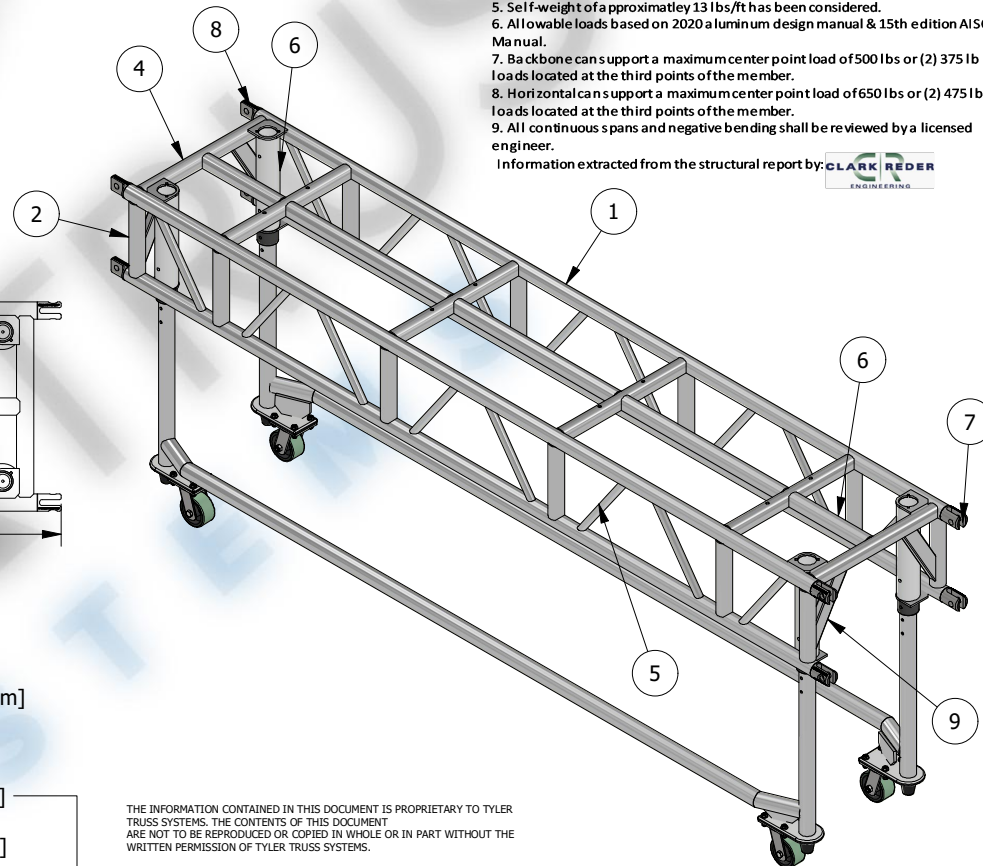
801120-F-Continuous Span

TRUSS SPAN Off Center	UNIFORMLY DISTRIBUTED LOAD		
length/ft	LOAD (pfl)	TOTAL (lbs)	DEFL. (in)
10	300	3000	0.123
20	84	1680	0.215
MAX.NEG.MOMENT (CONT.SPAN):4.32 KIP*FT; MAX.SHEAR:5.07 KIP			

Lifting Plate Notes:

1. The Truss is supporting vertical loads only. Ladders are oriented vertically. No lateral loads applied.
2. The Truss has been analyzed for static loads only.
3. All loads are evenly distributed between the ladders.
4. All loads are to be located at the panel points of the truss only.
5. Self-weight of a approximately 13 lbs/ft has been considered.
6. Allowable loads based on 2020 aluminum design manual & 15th edition AISC Manual.
7. Backbone can support a maximum center point load of 500 lbs or (2) 375 lb loads located at the third points of the member.
8. Horizontal can support a maximum center point load of 650 lbs or (2) 475 lb loads located at the third points of the member.
9. All continuous spans and negative bending shall be reviewed by a licensed engineer.

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PARTS LIST

ITEM	PART NUMBER	DESCRIPTION
1	CHORDS	2X3/16 6005A-T651
2	VERTICALS	2X1/8 6005A-T651
3	HORIZONTALS	2X1/8 6005A-T651
5	DIAGONALS	1X1/8 6005A-T651
6	BACKBONE	2X1/8 6005A-T651
6	RECEIVER	2-1/2 SCH.80 6061-T6
7	FEMALE FORKEND	2" 12L14
8	MALE FORKEND	2" 12L14
9	GT VIDEO GUSSET	1X2X1/8 6005A-T651
10	710120	GT Plus 10' Leg

TITLE: 14X24X120 GT VIDEO TRUSS
PART NUMBER: 801120-F
WEIGHT: With Legs: 188 lbs/Without Legs: 120 lbs
DATE: 7/24/2024
AUTHOR: Nathan Villines
REV: B
TOLERANCE: +/- 0.010 (0.3mm) U.O.S

TYLER TRUSS SYSTEMS
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