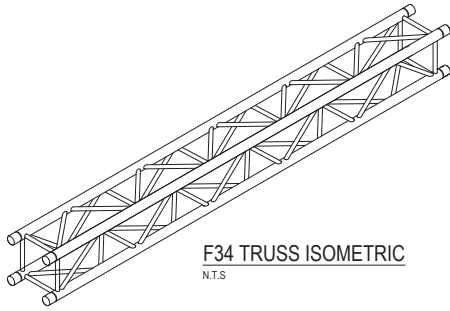
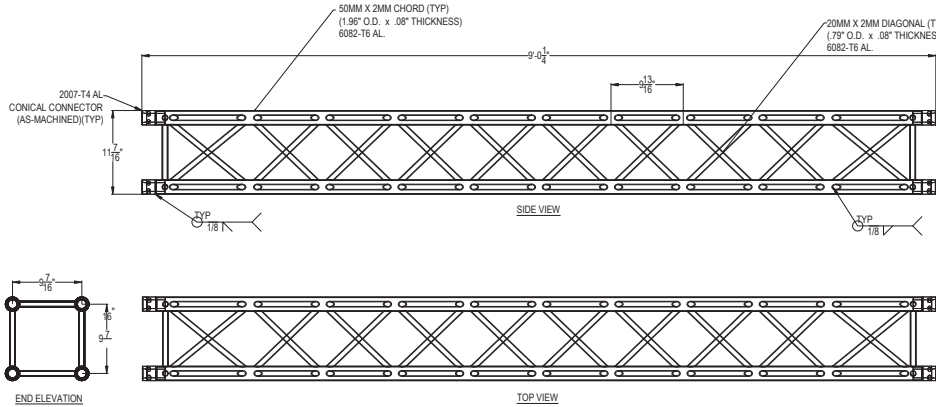




GENERAL NOTES

- REFERENCED CODES
- 2018 INTERNATIONAL BUILDING CODE
 - ANSI E1.21 2020 ENTERTAINMENT TECHNOLOGY - DESIGN, MANUFACTURE AND USE OF ALUMINUM TRUSSES AND TOWERS
 - ADM 2015 'SPECIFICATION FOR ALUMINUM STRUCTURES'
 - AISC 360-16 'SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS'
- ALUMINUM TRUSS
- FABRICATION AND ERECTION OF STRUCTURAL ALUMINUM SHALL CONFORM TO THE ALUMINUM DESIGN MANUAL - 2015
 - STRUCTURAL ALUMINUM SHALL BE ALLOY 6062-T6 (U.N.O.)
 - ALL WELD FILLER SHALL BE 5556 (U.N.O.)
 - ALL WELDING MUST CONFORM TO AWS D12
 - TAPERED PINS SUPPLIED BY ELITE TRUSS MUST BE USED IN INSTALLATION
 - WHERE THE CONTACT OF DISSIMILAR METALS MAY CAUSE CORROSION, THE CONTACT SURFACE OF EITHER METAL MUST BE PROPERLY COATED TO PREVENT THE EFFECT.



TYPICAL F34 TRUSS

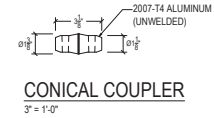
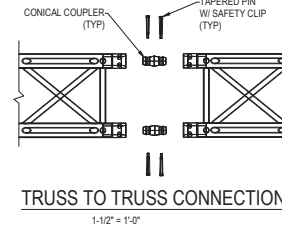
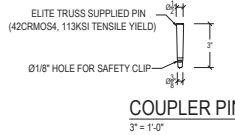
1-1/2" = 1'-0"

NOTES:

GENERAL CONSTRUCTION SHOWN ONLY. LENGTH OF INDIVIDUAL TRUSS UNITS USED IN CONSTRUCTION WILL VARY.

SEE MANUFACTURERS WEBSITE FOR ADDITIONAL INFORMATION ON AVAILABLE LENGTHS.

TRUSS IS FABRICATED USING METRIC UNITS. DIMENSIONS ON THESE DRAWINGS ARE ROUNDED TO THE NEAREST 1/16". DO NOT USE THESE DRAWINGS FOR FABRICATION OR REPAIR. DRAWINGS ARE FOR GENERAL DESCRIPTION AND ALLOWABLE LOADING ONLY.



ELITE TRUSS SYSTEMS®

F34 Truss Weight & Load Span Tables

General Use

Project Name

Event/Venue Name and Address

Elite Truss Systems
2420 Hamilton Ave.
Cleveland, OH 44114

ISSUE/REVISIONS

REV A

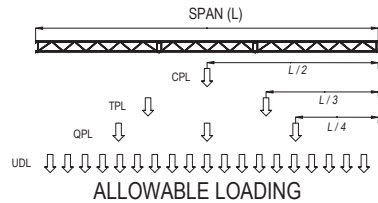
Sheet Name
F34 Load Span Tables

Project No.

Sheet

Date
01/22/2020

S1.0



- NOTES:
- ALL LOADS MUST BE ATTACHED TO TRUSS PANEL POINTS
 - BRIDLES ARE NOT PERMITTED UNLESS APPROVED IN WRITING BY A LICENSED STRUCTURAL ENGINEER.
 - SELF WEIGHT OF THE TRUSS HAS BEEN INCLUDED IN THE ALLOWABLE LOADING TABLES. NO REDUCTION IS REQUIRED TO ACCOUNT FOR THE TRUSS ITSELF.
 - NO SHOCK OR DYNAMIC FORCES HAVE BEEN INCLUDED IN THE ALLOWABLE LOADING.
 - UNIFORMLY DISTRIBUTED LOADS APPLY ONLY TO LOADS EVENLY DISTRIBUTED ACROSS THE ENTIRE SPAN
 - LOADS SHOWN IN THE TABLE ARE NOT ADDITIVE
 - THE ALLOWABLE LOADING TABLES HAVE BEEN PROVIDED FOR GENERAL REFERENCE ONLY AND ALL RIGGING PLOTS SHOULD BE REVIEWED BY A LICENSED STRUCTURAL ENGINEER.

ELITE TRUSS F34 LOAD SPAN TABLE											
Limited based on Strength and L/180 Deflections											
TRUSS SPAN		UNIFORMLY DISTRIBUTED LOAD (UDL)	CENTER POINT LOAD (CPL)		THIRD POINT LOADS (TPL)		QUARTER POINT LOADS (QPL)				
METERS	FEET	LOAD (PLF)	DEFLECTION (IN)	LOAD (KIB)	DEFLECTION (IN)	LOAD (KIB)	DEFLECTION (IN)	LOAD (KIB)	DEFLECTION (IN)		
2	6.56	270	0.07	1600	0.10	900	0.09	600	0.08		
2.5	8.2	238	0.14	1400	0.17	900	0.17	600	0.16		
3	9.84	205	0.21	1075	0.23	800	0.25	500	0.25		
3.5	11.48	173	0.28	1000	0.29	800	0.32	500	0.33		
4	13.12	140	0.36	1100	0.36	750	0.40	570	0.41		
4.5	14.76	126	0.50	1000	0.46	700	0.51	535	0.55		
5	16.41	111	0.68	975	0.58	650	0.63	465	0.68		
5.5	18.05	97	0.81	800	0.66	600	0.75	400	0.82		
6	19.69	82	0.96	800	0.76	550	0.87	420	0.96		
6.5	21.33	72	1.1	700	0.90	530	1.08	380	1.11		
7	22.97	63	1.25	700	1.06	510	1.29	360	1.25		
7.5	24.61	53	1.39	600	1.19	490	1.49	330	1.40		
8	26.25	43	1.53	600	1.33	470	1.7	300	1.55		
8.5	27.89	38	1.7	570	1.55	435	1.82	275	1.71		
9	29.53	34	1.86	535	1.76	375	1.95	260	1.87		
9.5	31.17	29	2.02	500	1.97	330	2.07	225	2.05		
10	32.81	24	2.19	470	2.19	280	2.19	200	2.19		
10.5	34.45	21	2.33	435	2.30	255	2.3	185	2.3		
11	36.09	19	2.47	395	2.41	230	2.41	165	2.41		
11.5	37.73	16	2.62	360	2.62	205	2.62	150	2.62		
12	39.37	13	2.80	320	2.80	180	2.80	130	2.80		

ELITE TRUSS F34 LOAD SPAN TABLE											
Limited based on Strength Only (No Deflection Limits)											
TRUSS SPAN		UNIFORMLY DISTRIBUTED LOAD (UDL)	CENTER POINT LOAD (CPL)		THIRD POINT LOADS (TPL)		QUARTER POINT LOADS (QPL)				
METERS	FEET	LOAD (PLF)	DEFLECTION (IN)	LOAD (KIB)	DEFLECTION (IN)	LOAD (KIB)	DEFLECTION (IN)	LOAD (KIB)	DEFLECTION (IN)		
2	6.56	270	0.07	1600	0.10	900	0.09	600	0.08		
2.5	8.2	238	0.14	1400	0.17	900	0.17	600	0.16		
3	9.84	205	0.21	1075	0.23	800	0.25	500	0.25		
3.5	11.48	173	0.28	1000	0.29	800	0.32	500	0.33		
4	13.12	140	0.36	1100	0.36	750	0.40	570	0.41		
4.5	14.76	126	0.50	1000	0.46	700	0.51	535	0.55		
5	16.41	111	0.68	975	0.58	650	0.63	465	0.68		
5.5	18.05	97	0.81	800	0.66	600	0.75	400	0.82		
6	19.69	82	0.96	800	0.76	550	0.87	420	0.96		
6.5	21.33	72	1.1	700	0.90	530	1.08	380	1.11		
7	22.97	63	1.25	700	1.06	510	1.29	360	1.25		
7.5	24.61	53	1.39	600	1.19	490	1.49	330	1.40		
8	26.25	43	1.53	600	1.33	470	1.7	300	1.55		
8.5	27.89	38	1.7	570	1.55	435	1.89	280	1.79		
9	29.53	34	2.01	540	1.76	400	2.08	270	2.03		
9.5	31.17	32	2.24	510	1.97	365	2.26	265	2.28		
10	32.81	28	2.48	480	2.19	330	2.45	240	2.52		
10.5	34.45	26	2.76	460	2.4	310	2.68	220	2.78		
11	36.09	24	3.05	440	2.67	290	2.91	215	3.03		
11.5	37.73	22	3.33	420	2.94	270	3.14	200	3.29		
12	39.37	20	3.61	400	3.21	250	3.36	190	3.54		

ELITE TRUSS F34 LOAD SPAN TABLE											
Limited based on Strength and Reduced per ANSI E1.21											
TRUSS SPAN		UNIFORMLY DISTRIBUTED LOAD (UDL)	CENTER POINT LOAD (CPL)		THIRD POINT LOADS (TPL)		QUARTER POINT LOADS (QPL)				
METERS	FEET	LOAD (PLF)	DEFLECTION (IN)	LOAD (KIB)	DEFLECTION (IN)	LOAD (KIB)	DEFLECTION (IN)	LOAD (KIB)	DEFLECTION (IN)		
2	6.56	230	0.06	1300	0.09	910	0.08	610	0.07		
2.5	8.2	202	0.12	1260	0.14	760	0.14	605	0.14		
3	9.84	174	0.18	1170	0.20	725	0.21	500	0.21		
3.5	11.48	147	0.24	1075	0.25	680	0.27	490	0.28		
4	13.12	119	0.30	980	0.30	640	0.34	485	0.35		
4.5	14.76	107	0.43	905	0.39	595	0.44	465	0.47		
5	16.41	94	0.56	830	0.47	550	0.54	420	0.58		
5.5	18.05	82	0.69	755	0.56	510	0.64	390	0.70		
6	19.69	70	0.82	680	0.65	470	0.74	355	0.81		
6.5	21.33	61	0.94	640	0.77	430	0.90	330	0.94		
7	22.97	53	1.06	565	0.89	435	1.09	305	1.07		
7.5	24.61	45	1.18	505	1.01	415	1.27	280	1.19		
8	26.25	37	1.3	510	1.13	400	1.46	265	1.32		
8.5	27.89	33	1.5	494	1.3	370	1.61	240	1.52		
9	29.53	30	1.71	460	1.47	340	1.77	230	1.73		
9.5	31.17	27	1.91	435	1.64	310	1.93	215	1.94		
10	32.81	24	2.11	410	1.81	280	2.08	205	2.14		
10.5	34.45	22	2.35	390	2.04	260	2.28	195	2.36		
11	36.09	20	2.59	375	2.27	245	2.47	185	2.58		
11.5	37.73	18	2.83	360	2.5	230	2.67	170	2.79		
12	39.37	17	3.07	340	2.73	215	2.86	160	3.01		