

UPLIFT REACTION(S) :

Support	C&C Wind	Main Wind	Non-Wind
1	-350 lb	-342 lb	
2		-9 lb	
4	-189 lb	-177 lb	-154 lb
5		-10 lb	-153 lb
7	-288 lb	-194 lb	-118 lb
8	-304 lb	-164 lb	-72 lb
10	-158 lb	-77 lb	-152 lb
11	-290 lb	-189 lb	-74 lb
13	-14 lb	-28 lb	-201 lb
14	-180 lb	-173 lb	-100 lb
16	-38 lb	-27 lb	
17	-343 lb	-334 lb	

THIS DESIGN IS THE COMPOSITE RESULT OF MULTIPLE LOAD CASES. Loaded for 10 PSF non-concurrent BCLL. Loaded for 200 lb non-concurrent moving BCLL. Mark all interior bearing locations. Install interior support(s) before erection. This truss is designed using the ASCE7-16 Wind Specification. Bldg Enclosed = Yes, Truss Location = End Zone, Exp Category = B, Bldg Length = 60.00 ft, Bldg Width = 25.00 ft, Mean roof height = 12.25 ft, mph = 160, Occupancy Category II, Wind Dead Load = 7.20 psf. Designed as Main Wind Force Resisting System - Low-rise and Components and Cladding. Tributary Area = 48 sqft. Uplifts based on elevation at or above 0 ft

This design based on chord bracing applied per the following schedule:

	max o.c.	from	to
TC	12.00"	-2-0-0	26-0-0
BC	12.00"	0-0-0	24-0-0

Galvanization: G60

REACTIONS

Brg	Reac	Horiz	Brg	Reac	Horiz
1	517	0	10	361	-120
2	233	195	11	446	212
3	220	17	12	210	0
4	420	-321	13	378	-97
5	423	85	14	475	309
6	211	0	15	211	0
7	394	-219	16	248	-228
8	477	187	17	508	-21
9	211	0			

Type	ID	SECTION	Fy(ksi)	Joints
TC	1	20TC20	50	
BC	1	20TC20	50	
WEB	1	20TC20	50	

20 psf bottom chord live load NOT required on this truss, per IBC/IRC requirements for attics with limited storage.

TC FORCE AXL BND CSI ID SCRWs

OL-1	65	0.01	0.67	0.67	1
1-2	118	0.02	0.61	0.63	1
2-3	221	0.04	0.44	0.48	1
3-4	-163	0.03	0.37	0.40	1
4-5	217	0.04	0.47	0.49	1
5-6	-126	0.02	0.55	0.55	1
6-7	342	0.03	0.55	0.57	1
7-8	93	0.00	0.14	0.14	1
8-9	117	0.02	0.05	0.07	1
9-10	273	0.03	0.61	0.63	1
10-11	-61	0.01	0.57	0.57	1
11-12	173	0.03	0.49	0.50	1
12-13	-204	0.04	0.39	0.42	1
13-14	205	0.04	0.45	0.48	1
14-15	116	0.02	0.61	0.63	1
15-OR	65	0.01	0.67	0.67	1

DEFLECTION LOC. ALLOW. LC

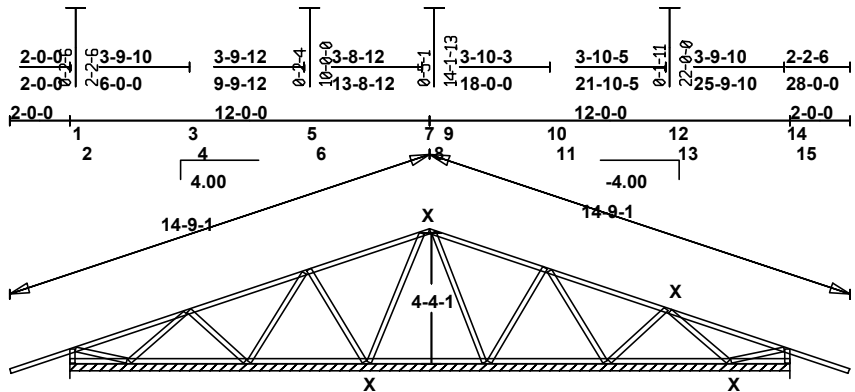
Vert TL:	-0.06"	(L/999)	9-10	L/240	40
Vert LL:	-0.05"	(L/999)	9-10	L/360	40
Horz TL:	0.00"				

Cantilever

Vert TL:	-0.14"	(L/167)	OL-1	L/90	1
Vert LL:	-0.11"	(L/207)	OL-1	L/120	1

BC FORCE AXL BND CSI ID SCRWs

16-17	0	0.00	0.17	0.17	1
17-18	-178	0.04	0.10	0.13	1
18-19	17	0.00	0.12	0.12	1
19-20	0	0.00	0.14	0.14	1
20-21	0	0.00	0.14	0.14	1
21-22	0	0.00	0.14	0.14	1
22-23	0	0.00	0.14	0.14	1
23-24	0	0.00	0.14	0.14	1
24-25	0	0.00	0.14	0.14	1
25-26	0	0.00	0.15	0.15	1
26-27	0	0.00	0.15	0.15	1
27-28	-183	0.04	0.13	0.16	1
28-29	-21	0.00	0.19	0.19	1



Joint Locations

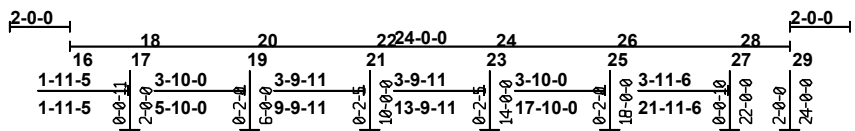
1	0-0-0	16	0-0-0
2	0-2-6	17	1-11-5
3	3-10-5	18	2-0-0
4	4-0-0	19	5-10-0
5	7-9-12	20	6-0-0
6	8-0-0	21	9-9-11
7	11-8-12	22	10-0-0
8	12-0-0	23	13-9-11
9	12-1-13	24	14-0-0
10	15-9-12	25	17-10-0
11	16-0-0	26	18-0-0
12	19-10-5	27	21-11-6
13	20-0-0	28	22-0-0
14	23-9-10	29	24-0-0
15	24-0-0		

X-Brac. Locations (Joints)

BC	TC
21	7
27	13

WEB FORCE CSI ID SCRWs

1-16	-501	0.09	1
2-17	158	0.03	1
3-18	-157	0.09	1
4-19	-433	0.23	1
5-20	-161	0.16	1
6-21	-423	0.42	1
7-22	-493	0.78	1
9-23	-332	0.53	1
10-24	-416	0.43	1
11-25	-186	0.19	1
12-26	-419	0.23	1
13-27	-166	0.09	1



Each connection requires 3/8" diameter proprietary bolt supplied by NUCONSTEEL. The required number of double-sided #14 screws at each end of the truss member: SP = Spacer supplied by NUCONSTEEL

OVER CONTINUOUS SUPPORT

Scale: 5/32" = 1'



WARNING Read all notes on this sheet and verify all design parameters. Truss design on this sheet is only valid with NUTRUS sections and is for an individual building component, not a truss system. Bracing shown on this drawing is not erection bracing, wind bracing, portal bracing or similar bracing which is part of the building design and which must be considered by the building designer. Bracing shown is lateral bracing of truss members only. Any additional bracing, temporary and/or permanent, is the responsibility of the truss erector and/or the building designer. The Professional Engineer's seal indicates only that the truss assembly shown on this sheet meets the acceptable design criteria for the loads, loading condition, truss configuration and spans specified.

Designer:
Dsgn Chk:
Engg Chk:
Cutting :

TC Live	42.00 psf
TC Dead	10.00 psf
BC Live	0.00 psf
BC Dead	10.00 psf
TOTAL	62.00 psf

WO: C11124_Trusses

Design Spec: AISI S100-2012
Buildg Spec: IBC-2018

Date: 11/23/2022@ 17:09:09
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