

MEM	FORC	END	CSI	ID	SCRS
22-23	0	0.00	0.09	0.09	1
23-24	-258	0.05	0.01	0.11	1
24-25	0	0.00	0.12	0.12	1
25-26	0	0.00	0.12	0.13	1
26-27	0	0.00	0.12	0.12	1
27-28	0	0.00	0.12	0.12	1
28-29	0	0.00	0.11	0.11	1
29-30	0	0.00	0.11	0.11	1
30-31	0	0.00	0.09	0.09	1
31-32	0	0.00	0.11	0.11	1
32-33	0	0.00	0.11	0.11	1
33-34	0	0.00	0.10	0.10	1
34-35	0	0.00	0.12	0.12	1
35-36	0	0.00	0.12	0.12	1
36-37	0	0.00	0.12	0.12	1
37-38	0	0.00	0.12	0.12	1
38-39	0	0.00	0.11	0.11	1
39-40	-110	0.01	0.08	0.09	1
40-41	15	0.00	0.09	0.09	1

**UPLIFT REACTION(S) :**

Support	C&C Wind	Main Wind	Non-Wind
1	-257 lb	-294 lb	
3	-83 lb	-68 lb	
6	-174 lb	-200 lb	-97 lb
7	-37 lb	-98 lb	-148 lb
10	-199 lb	-214 lb	-49 lb
11	-165 lb	-158 lb	-80 lb
14	-47 lb	-63 lb	
15	-196 lb	-129 lb	-124 lb
16	-115 lb	-50 lb	
19	-7 lb		
20	-206 lb	-130 lb	-124 lb
21	-48 lb	-61 lb	-7 lb
24	-175 lb	-165 lb	-51 lb
25	-188 lb	-206 lb	-96 lb
28	-51 lb	-110 lb	-126 lb
29	-172 lb	-199 lb	-127 lb
32	-104 lb	-80 lb	
34	-251 lb	-287 lb	

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

**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 = 13.58 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 = 80 sqft  
 Uplifts based on elevation at or above 0 ft  
 20 psf bottom chord live load NOT required on this truss, per IBC/IRC requirements for attics with limited storage.

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

	max o.c.	from	to
TC	12.00"	-2- 0- 0	42- 0- 0
BC	12.00"	0- 0- 0	40- 0- 0

Galvanization: G60

**REACTIONS**

Brg	Reac	Horiz	Brg	Reac	Horiz
1	446	0	18	217	0
2	192	0	19	336	-34
3	278	242	20	250	0
4	201	-9	21	260	-30
5	216	0	22	203	0
6	379	-315	23	216	0
7	303	120	24	559	-235
8	203	0	25	419	249
9	216	0	26	204	0
10	421	-254	27	215	0
11	541	230	28	362	-132
12	192	0	29	340	309
13	217	0	30	210	0
14	336	28	31	211	0
15	249	0	32	315	-257
16	259	72	33	197	15
17	192	0	34	436	0

**DEFLECTION LOC. ALLOW. LC**

Vert TL:	-0.14" (L/999)	15-16	L/240	40
Vert LL:	-0.12" (L/999)	15-16	L/360	40
Horz TL:	0.00"			

**Cantilever**

Vert TL:	-0.08" (L/296)	OL-1	L/ 90	1
Vert LL:	-0.06" (L/367)	OL-1	L/120	1

=====**Joint Locations**=====

1	0- 0- 0	22	0- 0- 0
2	0- 2- 4	23	2- 5-10
3	4-10- 6	24	2- 6- 0
4	5- 0- 0	25	7- 4- 1
5	9- 9-12	26	7- 6- 0
6	10- 0- 0	27	12- 3-11
7	14- 9-10	28	12- 6- 0
8	15- 0- 0	29	17- 1- 6
9	17- 3-10	30	17- 3-10
10	19- 8-12	31	17- 6- 0
11	20- 0- 0	32	22- 1- 6
12	20- 1-13	33	22- 3-10
13	22- 3-10	34	22- 6- 0
14	24- 9-10	35	27- 3-11
15	25- 0- 0	36	27- 6- 0
16	29- 9-12	37	32- 4- 0
17	30- 0- 0	38	32- 6- 0
18	34-10- 7	39	37- 5-10
19	35- 0- 0	40	37- 6- 0
20	39- 9-12	41	40- 0- 0
21	40- 0- 0		

== **X-Brac. Locations (Joints)** ==

BC	TC
27	7
32	12
37	17

MEM	FORC	END	CSI	ID	SCRS
1-22	-436	0.08	1		
2-23	154	0.05	1		
3-24	-384	0.31	1		
4-25	-414	0.33	1		
5-26	-222	0.32	1		
6-27	-475	0.69	1		
7-28	-573	0.47	1		
8-29	77	0.15	1		
9-30	-272	0.68	1		
10-31	-234	0.75	1		
12-32	-125	0.39	1		
13-33	-273	0.70	1		
14-34	77	0.16	1		
15-35	-591	0.50	1		
16-36	-472	0.70	1		
17-37	-246	0.36	1		
18-38	-408	0.33	1		
19-39	-434	0.36	1		
20-40	169	0.06	1		
21-41	-426	0.08	1		

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



**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.  
 When the specified screw count cannot be achieved at the chord to web connections, a 16 gauge gusset plate must be added on both sides of the connection. Typically, gusset plates are at pitch break joints.  
 Min. screw spacing = 9/16" and min. edge distance = 9/16".

Chk:		WO: C11140_Trusses
Dsgnr:		
TC Live	42.00 psf	Design Spec: AISI-2001
TC Dead	10.00 psf	Buildg Spec: IBC-2018
BC Live	0.00 psf	
BC Dead	10.00 psf	Date: 11/23/2022@ 17:55: 5
TOTAL	62.00 psf	Seqn S8.1.0a - 6296