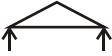

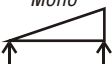
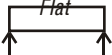


# Roof Truss Spans

## Typical Roof Truss Design Spans

Every TrusSteel roof truss is a custom design based upon the unique load, span, bearing, use, and code criteria of a particular project. The load / span tables shown below demonstrate only a tiny subset of the possible combinations available with TrusSteel CFS roof trusses.

Chord Size O.C. Truss Spans	Load 1 20, 10, 10 psf 90 mph wind				Load 2 30, 10, 10 psf 90 mph wind				Load 3 20, 10, 10 psf 140 mph wind				Load 4 30, 10, 10 psf 140 mph wind				
	TSC2.75		TSC4.00		TSC2.75		TSC4.00		TSC2.75		TSC4.00		TSC2.75		TSC4.00		
	2'	4'	2'	4'	2'	4'	2'	4'	2'	4'	2'	4'	2'	4'	2'	4'	
<b>Common</b>																	
<i>Pitch</i>																	
	3/12	48	26	80+	62	38	20	80+	52	48	26	80+	62	38	20	80+	52
	4/12	56	31	80+	77	45	23	80+	60	56	31	80+	77	45	23	80+	60
	5/12	62	33	80+	80+	52	27	80+	65	62	33	80+	80+	52	27	80+	65
	6/12	64	36	80+	80+	55	27	80+	75	64	36	80+	80+	55	27	80+	75
	7/12	64	37	80+	80+	56	28	80+	80+	64	35	80+	80+	56	28	80+	80+
	8/12	64	38	80+	80+	58	30	80+	80+	64	37	80+	80+	58	30	80+	80+
<b>Scissor</b>																	
<i>Pitch</i>																	
	3/12	27	15	57	32	22	13	48	26	27	15	57	32	22	13	48	26
	4/12	34	19	69	43	28	15	65	36	34	19	69	43	28	15	65	36
	5/12	40	22	77	51	33	18	69	42	40	22	77	51	33	18	69	42
	6/12	46	25	79	57	38	20	72	47	46	25	79	57	38	20	72	47
	7/12	50	28	80+	60	44	23	73	53	50	28	80+	60	44	23	73	53
	8/12	53	31	80+	61	49	25	74	55	53	31	80+	61	49	25	74	55
<b>Mono</b>																	
<i>Pitch</i>																	
	3/12	36	25	80+	60	32	21	80+	50	36	25	80+	60	32	21	80+	50
	4/12	34	26	80+	64	32	23	80+	52	34	26	80+	64	32	23	80+	52
	5/12	34	26	80+	64	32	23	80+	52	34	26	80+	64	32	23	80+	52
	6/12	34	26	80+	64	32	23	80+	52	34	26	80+	64	32	23	80+	52
	7/12	34	28	80+	64	33	23	80+	52	34	28	80+	64	33	23	80+	52
	8/12	34	28	80+	64	33	23	80+	52	34	28	80+	64	33	23	80+	52
<b>Flat</b>																	
<i>Depth</i>																	
	12"	22	18	24	20	19	16	24	20	22	18	24	20	19	16	24	20
	18"	30	23	36	28	29	21	33	27	30	23	36	28	29	21	33	27
	24"	39	28	45	35	35	25	42	32	39	28	45	35	35	25	42	32
	36"	49	35	64	46	44	28	59	41	49	35	64	46	44	28	59	41
	48"	58	36	75	55	51	29	70	49	58	36	75	55	51	29	70	49
	60"	65	36	80+	62	57	29	80	55	65	36	80+	62	57	29	80	55
	72"	66	33	80+	68	51	25	80+	61	66	33	80+	68	51	25	80+	61



**General Notes:**

- Spans shown in charts are in feet.
- Loads shown above are outlined as Top Chord Live Load (TCLL), Top Chord Dead Load (TCDL), and Bottom Chord Dead Load (BCDL).
- Top chord designed assuming structural sheathing offers lateral restraint.
- Bottom chords designed assuming lateral restraint spaced at 24 inches on center.
- Deflection limits: Live Load - L/360 Total Load - L/240
- Trusses designed with ASCE7-98 wind
  - Wind speed shown in charts
  - Exposure C
  - Building category II
  - Truss bearing elevation is 8'0"
  - No topographic effect from escarpment or hill taken into account
  - Enclosed building
- Some trusses above may require a piggyback truss due to excessive truss height.
- 80+ as shown above means that a span in excess of 80" is possible. Refer to TrusSteel Technical Bulletin TB991102 and a TrusSteel engineer regarding these spans.
- Scissor trusses designed with a bottom chord pitch equal to half of the top chord pitch i.e. a 6/12 top chord pitch scissor truss will have a 3/12 bottom chord pitch.
- Designs may include multiple gauges for top and bottom chords as determined by the designer using Alpine's VIEW engineering software. Maximum chord gauges are 18 gauge for the TSC2.75 chord and 16 gauge for the TSC4.00 chord.
- The truss web pattern used in the design is to be determined by the designer using Alpine's VIEW engineering software.

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