

SR2 Roof

AWIP ALLOWABLE LOAD TABLE

SR2 Allowable Load Table (psf) for Three or More Spans

Connection Strength Criteria (allowable Uniformly Distributed Wind Uplift)

Fasteners/ Support Thickness	Panel Thickness	Panel Span (ft)									
		2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
(2) Fasteners per SR-0X / Minimum 16 gauge	3.25"	60	50	42	37	32	29	26	24	22	20
	4"	61	50	43	37	33	29	26	24	22	20
	5"	61	50	43	37	33	29	26	24	22	20
	6"	61	51	43	37	33	29	27	24	22	21
(2) Fasteners per SR-0X / Minimum 14 gauge	3.25"	73	66	56	49	43	38	35	32	29	27
	4"	73	66	56	49	43	39	35	32	29	27
	5"	81	67	57	49	43	39	35	32	29	27
	6"	81	67	57	49	44	39	35	32	29	27
(2) Fasteners per SR-0X / Minimum 12 gauge	3.25"	73	69	64	59	52	47	42	39	35	33
	4"	73	68	64	59	52	47	42	39	36	33
	5"	83	76	69	60	53	47	43	39	36	33
	6"	83	76	69	60	53	47	43	39	36	33
(3) Fasteners per SR-0X / Minimum 16 gauge	3.25"	73	68	64	55	49	44	40	36	33	31
	4"	73	69	64	56	49	44	40	36	33	31
	5"	83	76	64	56	49	44	40	36	33	31
	6"	83	76	65	56	50	44	40	37	34	31
(3) Fasteners per SR-0X / Minimum 14 & 12 gauge	3.25"	73	69	64	59	52	47	42	39	35	33
	4"	73	68	64	59	52	47	42	39	36	33
	5"	83	76	69	60	53	47	43	39	36	33
	6"	83	76	69	60	53	47	43	39	36	33

Panel Strength Criteria (Allowable Uniformly Distributed Pressure & Suction)

Panel Thickness	Panel Weight (psf)	Panel Span (ft)									
		2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
3.25"	2.48	126	103	87	75	66	59	53	48	44	41
4"	2.65	156	128	108	94	82	73	66	60	55	51
5"	2.86	197	162	137	119	104	93	84	76	70	64
6"	3.12	201	168	144	126	112	100	91	84	77	72

See notes on page 2.

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Notes:

1. Load tables are based on Allowable Stress Design (ASD).
2. Load tables are based on values derived from transverse load testing per ASTM E72, ASTM E1592, and strength of fasteners.
3. Panel properties are based on 26 gauge exterior and 26 gauge interior facings. Inquire about other gauges.
4. Panel strength criteria considers a panel deflection of L/240.
5. Connection based on ¼-14 or ¼-20 DP3 or DP5 self-drilling fasteners with SR-0X clip installed into min. 16 ga, 14 ga, or 12 ga steel.
6. Connection strength may be increased with EC-01 enhancement clip. Inquire for more details.
7. Safety Factor = 2.5 for buckling, 3.0 for core shear, 2.0 for standing seam clip, 3.0 for fastening pullover/pullout.
8. Structural design of roof supports has not been considered and must be designed by a professional engineer.
9. Load tables do not account for thermal effects from controlled environment and cold storage applications.
10. Load tables do not account for sliding snow/drag loads.
11. Consult your AWIP representative for project specific calculations.
12. Consult your AWIP representative for design per FM Global Loss Prevention Data Sheet 1-28 and FM 4471 requirements.
13. Load table for pressure assumes a minimum purlin bearing width of 2.5". For 6" thick panels, maximum loads can be increased for larger purlin widths. Consult your AWIP representative for more information.
14. In Canada, to use load table for pressure, calculate total factored load as per NBCC load combinations, divide by 1.5, and compare to values in the table. Example: $(1.25 \times \text{panel wt.} + 1.5 \times \text{snow load/LL} + 0.4 \times \text{downward wind})/1.5$.
15. In Canada, for wind uplift use specified wind loads calculated as per NBCC and compare to load table values.
16. The lowest load between Panel Strength and Connection Strength shall be used to determine spans.
17. Load tables are subject to change without notice - visit www.awipanel.com for the latest information.



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