

HR5 Allowable Load Table (PSF) for Three or More Spans

Panel Strength and Deflection Limit Criteria

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″	
1.5"	55	45	38	33	29	25	23	21	19	18	
2.5"	97	79	67	58	51	45	41	37	34	31	
3"	118	97	82	71	62	56	50	45	42	38	
4"	164	135	114	99	87	77	70	63	58	53	
5"	211	174	147	128	112	100	90	82	75	69	
6"	260	215	182	158	139	124	112	102	93	86	

Connection Strength Criteria - Fasteners with SW-01 Washers at Each High Rib

Support	Barrel Thirden	Panel Span (ft)									
Thickness/ Fastening	Panel Thickness	5′-0″	6′-0″	7′-0″	8'-0"	9'-0"	10'-0"	11′-0″			12'-0"
Minimum 16 gauge (1) fastener per SW-01	1.5"	46	46	46	46	46	46	46	46	44	41
	2.5"	122	100	85	74	66	59	53	48	45	41
	3"	122	101	86	75	66	59	53	49	45	41
	4"	123	102	87	75	66	59	54	49	45	42
	5"	123	102	87	76	67	60	54	49	45	42
	6"	124	102	87	76	67	60	54	50	46	42
Minimum 12 gauge	1.5"	46	46	46	46	46	46	46	46	46	46
	2.5"	161	151	140	130	119	109	98	88	77	67
	3"	161	151	140	130	119	109	98	88	77	67
(1) fastener per SW-01	4"	161	151	140	130	119	109	98	88	77	67
	5"	161	151	140	130	119	109	98	88	77	67
	6"	161	151	140	130	119	109	98	88	77	67



Notes:

- Load span table is based on Allowable Stress Design (ASD).
- 2. Table is 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. The lowest load between Panel Strength, Deflection Limit and Connection Strength shall be used to determine spans.
- The deflection limit criteria is L/240 5
- Connection based on ¼-14 or ¼-20 DP3 or DP5 self-drilling fasteners with SW-01 washer installed into min. 16 gauge or 12 gauge steel.
- Safety Factor = 2.5 for buckling, 3.0 for core shear, 2.0 for wall clip, 3.0 for fastening pulloyer/pullout, 7.
- 8 Structural design of roof supports has not been considered and must be designed by a professional engineer.
- 9. Thermal effects from controlled environment and cold storage applications have not been considered.
- 10 Load tables do not account for sliding snow/drag loads.
- 11. Consult your AWIP representative for project specific calculations.
- Consult your AWIP representative for design per FM Global Loss Prevention Data Sheet 1-28 and FM 4471 requirements. 12.
- 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. 13. 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*panel wt. + 1.5*snow load/LL + 0.4*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. Load tables are subject to change without notice - visit www.awipanels.com for the latest information.













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