

HR3 Allowable Load Table (psf) for Three or More Spans

Panel Strength and Deflection Limit Criteria

Panel Thickness	Panel Weight	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"	2.05	46	46	39	33	29	26	23	21	20	18
2.5"	2.34	96	79	67	58	51	45	41	37	34	31
3"	2.45	123	102	88	77	68	61	56	51	47	44
4"	2.65	158	130	110	95	83	74	67	61	56	51
5"	2.86	161	151	139	120	106	94	85	77	71	65
6"	3.12	161	151	140	130	119	109	98	88	77	67

Connection Strength Criteria - Fasteners with SW-01 Clip at Every High Rib

Support Thickness	Thickness	Panel Span (ft)									
		2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
Minimum 16 gauge	1.5"	46	46	42	36	32	29	26	24	22	20
	2.5"	61	50	42	37	32	29	26	24	22	20
	3"	61	50	43	37	33	29	26	24	22	20
	4"	61	50	43	37	33	29	27	24	22	21
	5"	61	51	43	37	33	30	27	24	22	21
	6"	61	51	43	38	33	30	27	24	22	21
Minimum 12 gauge	1.5"	46	46	46	46	46	46	46	46	46	43
	2.5"	129	107	91	79	69	62	56	51	47	44
	3"	129	107	91	79	70	62	56	52	47	44
	4"	130	108	92	80	70	63	57	52	48	44
	5"	130	108	92	80	71	63	57	52	48	44
	6"	131	108	92	80	71	63	57	52	48	44

See notes on page 2.

Notes:

1. 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.
5. The Deflection Limit is L/240.
6. Connection based on ¼-14 or ¼-20 DP3 or DP5 self-drilling fasteners with SW-01 clip installed into min. 16 ga or 12 ga steel.
7. Safety Factor = 2.5 for buckling, 3.0 for core shear, 2.0 for saddle washer, 3.0 for fastening pullover/pullout.
8. Structural design of roof supports has not been considered and must be designed the support professional.
9. Thermal effects from controlled environment and cold storage applications have not been considered.
10. Consult your AWIP representative for snow load design.
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 tables are subject to change without notice – visit www.awipanel.com for the latest information



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