



HR5 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"	2.15	46	46	39	33	29	26	23	21	20	18
2.5"	2.44	96	79	67	58	51	45	41	37	34	31
4"	2.75	158	130	110	95	83	74	67	61	56	51
5"	2.96	161	151	139	120	106	94	85	77	71	65
6"	3.22	161	151	140	130	119	109	98	88	77	67

**Connection Strength Criteria – Fastener with SW-01 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	46	46	46	46	46	45	41	38
	2.5"	121	99	84	73	64	57	51	46	42	39
	4"	122	101	86	74	65	58	52	47	43	40
	5"	123	101	87	75	66	59	53	48	44	40
	6"	123	102	87	76	66	59	53	49	44	41
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
	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:**

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 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](http://www.awipanel.com) for the latest information.