

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

Panel Strength and Deflection Limit Criteria

Panel Thickness	Panel Span (ft)									
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
1.5"	45	38	33	29	25	23	21	19	18	16
2.5"	79	67	58	51	45	41	37	34	31	29
3"	96	81	70	61	55	49	45	41	38	35
4"	97	82	71	62	56	50	45	42	38	36

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

Fastening/ Support Thickness	Panel Thickness	Panel Span (ft)									
		3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"
(1) fastener per SW-02 Washer / Minimum 16 gauge	1.5"	46	46	46	46	46	46	46	44	41	38
	2.5"	101	85	74	66	59	53	48	45	41	38
	3"	101	86	75	66	59	53	49	45	41	38
	4"	101	86	75	66	59	53	49	45	41	38
(1) fastener per SW-02 Washer / Minimum 14 gauge	1.5"	46	46	46	46	46	46	46	46	46	46
	2.5"	133	113	98	87	78	70	64	59	55	51
	3"	134	114	99	87	78	71	65	59	55	51
	4"	134	114	99	87	78	71	65	59	55	51
(1) fastener per SW-02 Washer / Minimum 12 gauge	1.5"	46	46	46	46	46	46	46	46	46	46
	2.5"	151	140	130	119	109	98	88	77	67	56
	3"	151	140	130	119	109	98	88	77	67	56
	4"	151	140	130	119	109	98	88	77	67	56

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 criteria is $L/180$.
6. Connection based on ¼-14 or ¼-20 DP3 or DP5 self-drilling fasteners with SW-02 washer installed into min. 16 gauge, 14 gauge or 12 gauge steel.
7. Maximum span for HR3-W is 7.5'.
8. Safety Factor = 2.5 for buckling, 3.0 for core shear, 2.0 for wall clip, 3.0 for fastening pullover/pullout.
9. Allowable loads are applicable to vertical or horizontal panel installation.
10. Panel weights can be found on a separate Panel Weights Table.
11. Structural design of wall supports has not been considered and must be designed the support professional.
12. Thermal effects from controlled environment and cold storage applications have not been considered.
13. Consult your AWIP representative for project specific calculations.
14. HR3-W Wall Panels are not FM Approved Products.
15. Load tables are subject to change without notice – visit www.awipanel.com for the latest information.



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