

HR3-W Wall 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"	46	39	33	29	26	23	21	20	18	17
2.5"	79	67	58	51	45	41	37	34	31	29
3"	96	81	70	61	55	49	45	41	38	35
4"	130	110	95	83	74	67	61	56	51	48

Connection Strength Criteria – Fasteners with SW-02 Washer

Fastener/Support Thickness	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	42	36	32	29	26	24	22	20	19
	2.5"	50	43	37	33	29	26	24	22	20	19
	3"	50	43	37	33	29	26	24	22	20	19
	4"	51	43	37	33	29	27	24	22	21	19
(1) fastener per SW-02 Washer / Minimum 14 gauge	1.5"	46	46	46	43	38	34	31	29	27	25
	2.5"	66	56	49	43	39	35	32	29	27	25
	3"	66	56	49	43	39	35	32	29	27	25
	4"	67	57	49	44	39	35	32	29	27	25
(1) fastener per SW-02 Washer / Minimum 12 gauge	1.5"	46	46	46	46	46	46	46	46	43	40
	2.5"	107	91	79	70	62	56	52	47	44	41
	3"	107	91	79	70	62	56	51	47	44	41
	4"	108	92	80	70	63	57	52	48	44	41

Notes:

- Load span table is based on Allowable Stress Design (ASD).
- Table is based on values derived from transverse load testing per ASTM E72, ASTM E1592, and strength of fasteners.
- Panel properties are based on **26 gauge exterior** and **26 gauge interior** facings. Inquire about other gauges.
- The lowest load between Panel Strength, Deflection Limit and Connection Strength shall be used to determine spans.
- The Deflection Limit is L/180.
- Connection based on ¼-14 or ¼-20 DP3 or DP5 self-drilling fasteners with SW-02 washer installed into min. 16 gauge.
- Maximum span for HR3-W is 7.5'.
- Safety Factor = 2.5 for buckling, 3.0 for core shear, 2.0 for wall clip, 3.0 for fastening pullover/pullout.
- Allowable loads are applicable to vertical or horizontal panel installation.
- Panel weights can be found on a separate Panel Weights Table.
- Structural design of wall supports has not been considered and must be designed the support professional.
- Thermal effects from temperature-controlled buildings have not been considered. Inquire about temperature-controlled applications.
- Consult your AWIP representative for project specific calculations.
- HR3-W Wall Panels are not FM Approved products.
- Load tables are subject to change without notice – visit www.awipanel.com for the latest information.



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1 (888) 970-AWIP (2947)
awipanel.com
sales@awipanel.com



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