

ST40 Allowable Load Table (PSF) for Three or More Spans

Panel Strength and Deflection Limit Criteria

Panel Thickness	Panel Span (ft)							
	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
2"	55	44	36	30	25	21	18	16
2.5"	68	55	46	39	33	28	24	21
3"	79	65	55	47	41	35	31	27
4"	99	81	68	59	52	46	42	38
5"	114	94	79	68	60	53	48	44
6"	125	102	87	75	66	59	53	48

Connection Strength Criteria – Fasteners with WC-01 Clip at Side Joint

Support Thickness/ Fastening	Panel Thickness	Panel Span (ft)							
		5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"
FS-A / Minimum 16 gauge	2"	41	34	29	25	22	20	18	16
	2.5"	41	34	29	25	22	20	18	16
	3"	41	34	29	25	22	20	18	16
	4"	45	37	31	27	24	21	19	18
	5"	45	37	31	27	24	22	19	18
	6"	45	37	32	27	24	22	20	18
FS-A / Minimum 12 gauge	2"	41	34	29	25	22	20	18	16
	2.5"	41	34	29	25	22	20	18	16
	3"	41	34	29	25	22	20	18	16
	4"	47	39	33	29	25	23	21	19
	5"	48	39	33	29	26	23	21	19
	6"	48	40	34	29	26	23	21	19
FS-F / Minimum 16 gauge	2"	29	24	20	18	16	14	13	12
	2.5"	29	24	20	18	16	14	13	12
	3"	29	24	21	18	16	14	13	12
	4"	30	24	21	18	16	14	13	12
	5"	30	25	21	18	16	14	13	12
	6"	30	25	21	18	16	14	13	12
FS-F / Minimum 12 gauge	2"	41	34	29	25	22	20	18	16
	2.5"	41	34	29	25	22	20	18	16
	3"	41	34	29	25	22	20	18	16
	4"	47	39	33	29	25	23	21	19
	5"	48	39	33	29	26	23	21	19
	6"	48	40	34	29	26	23	21	19

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 **24 gauge exterior** and **26 gauge interior** facings. 22 gauge exterior required for 5" and 6". 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 WC-01 clip installed into min. 16 gauge or 12 gauge steel.
7. FS-A utilizes three fasteners per WC-01 clip. FS-F utilizes two fasteners per WC-01 clip.
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. Consult your AWIP representative for design per FM Global Loss Prevention Data Sheet 1-28 and FM 4881 requirements.
15. Load tables are subject to change without notice – visit www.awipanel.com for the latest information.



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awipanel.com
sales@awipanel.com



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