

LS-36™ Panel Wall and Roof Panel Allowable Load Chart

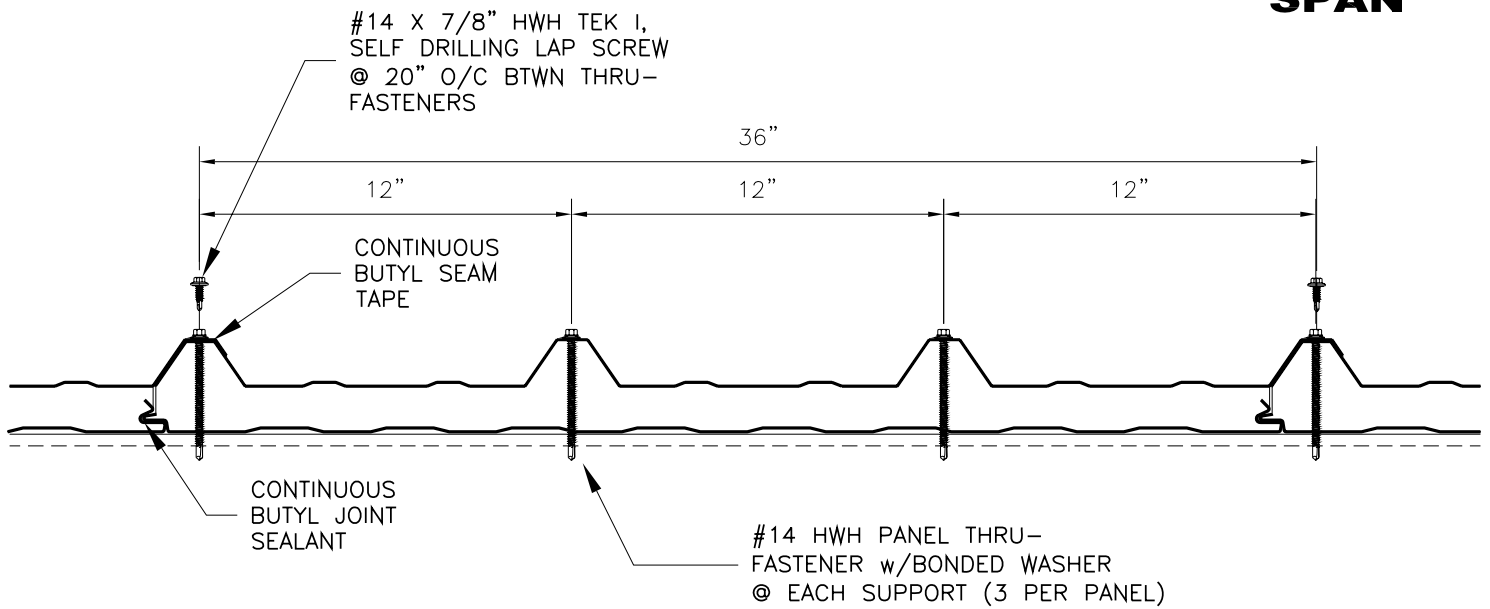
Allowable Stress Design Allowable Loads in PSF

Panel Depth	Span Type	Load Type	Connection	Span In Feet										
				3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00
1.5"	1-Span	Live/Press ¹	--	175.59	113.58	77.21	54.36	39.38	29.23	22.17	17.14	13.49	10.77	8.72
		Negative	wall ^{3.5}	191.05	143.29	110.30	77.66	56.25	41.76	31.67	24.49	19.26	15.39	12.46
		Negative	roof ^{4.5}	191.05	143.29	110.30	77.66	56.25	41.76	31.67	24.49	19.26	15.39	12.46
	2-Span	Live/Press ¹	--	185.92	127.93	93.52	70.95	55.20	43.74	35.17	28.62	23.54	19.55	16.37
		Negative	wall ^{3.5}	97.96	71.19	55.72	45.74	38.80	33.69	29.78	26.69	24.19	21.36	18.01
		Negative	roof ^{4.5}	117.03	85.05	66.56	54.64	46.35	40.25	35.58	31.70	25.75	21.36	18.01
	3-Spans and Greater	Live/Press ¹	--	188.05	128.86	93.09	69.46	53.02	41.21	32.52	26.01	21.06	17.24	14.25
		Negative	wall ^{3.5}	102.16	75.82	60.29	50.05	42.80	37.39	33.20	29.85	27.12	24.62	20.36
		Negative	roof ^{4.5}	122.03	90.57	72.02	59.79	51.13	44.66	39.65	35.66	30.08	24.62	20.36
2.00	1-Span	Live/Press ¹	--	227.51	151.64	106.13	76.71	56.84	43.01	33.15	25.97	20.66	16.66	13.59
		Negative	wall ^{3.5}	192.00	144.00	115.20	96.00	81.19	61.44	47.35	37.10	29.51	23.79	19.42
		Negative	roof ^{4.5}	192.00	144.00	115.20	96.00	81.19	61.44	47.35	37.10	29.51	23.79	19.42
	2-Span	Live/Press ¹	--	236.19	164.77	122.20	94.14	74.39	59.87	48.87	40.34	33.63	28.27	23.94
		Negative	wall ^{3.5}	100.65	73.13	57.13	46.80	39.61	34.35	30.32	27.15	24.58	22.46	20.68
		Negative	roof ^{4.5}	118.72	86.26	67.39	55.20	46.73	40.51	35.77	32.02	28.99	26.49	24.39
	3-Spans and Greater	Live/Press ¹	--	238.68	166.52	122.72	93.46	72.78	57.63	46.26	37.57	30.83	25.54	21.35
		Negative	wall ^{3.5}	103.93	77.03	61.18	50.75	43.37	37.86	33.61	30.21	27.44	25.14	23.19
		Negative	roof ^{4.5}	122.59	90.86	72.16	59.86	51.15	44.66	39.64	35.64	32.37	29.65	27.36
2.50	1-Span	Live/Press ¹	--	274.11	186.70	133.59	98.60	74.45	57.28	44.79	35.53	28.56	23.23	19.10
		Negative	wall ^{3.5}	192.95	144.71	115.77	96.47	82.69	72.36	63.98	50.76	40.80	33.18	27.29
		Negative	roof ^{4.5}	192.95	144.71	115.77	96.47	82.69	72.36	63.98	50.76	40.80	33.18	27.29
	2-Span	Live/Press ¹	--	281.20	198.17	148.50	115.65	92.43	75.26	62.14	51.88	43.71	37.12	31.73
		Negative	wall ^{3.5}	103.13	74.99	58.53	47.87	40.46	35.03	30.89	27.63	24.99	22.82	21.00
		Negative	roof ^{4.5}	120.12	87.34	68.18	55.76	47.13	40.81	35.98	32.18	29.11	26.58	24.46
	3-Spans and Greater	Live/Press ¹	--	283.75	200.43	149.80	115.80	91.54	73.56	59.87	49.25	40.89	34.24	28.89
		Negative	wall ^{3.5}	105.71	78.28	62.11	51.48	43.96	38.37	34.04	30.59	27.78	25.45	23.48
		Negative	roof ^{4.5}	123.13	91.18	72.34	59.96	51.21	44.69	39.65	35.64	32.36	29.64	27.34
3.00	1-Span	Live/Press ¹	--	314.84	217.99	158.71	119.17	91.44	71.39	56.54	45.37	36.83	30.21	25.03
		Negative	wall ^{3.5}	194.01	145.51	116.41	97.01	83.15	72.76	64.67	58.20	52.61	43.16	35.76
		Negative	roof ^{4.5}	194.01	145.51	116.41	97.01	83.15	72.76	64.67	58.20	52.61	43.16	35.76
	2-Span	Live/Press ¹	--	320.55	227.72	172.01	135.06	108.88	89.45	74.54	62.79	53.38	45.71	39.41
		Negative	wall ^{3.5}	105.41	76.76	59.90	48.95	41.32	35.73	31.47	28.12	25.42	23.19	21.33
		Negative	roof ^{4.5}	121.26	88.30	68.91	56.31	47.53	41.10	36.20	32.35	29.24	26.68	24.54
	3-Spans and Greater	Live/Press ¹	--	322.96	230.22	173.87	135.94	108.74	88.41	72.79	60.54	50.78	42.93	36.54
		Negative	wall ^{3.5}	107.45	79.52	63.04	52.21	44.56	38.88	34.48	30.98	28.13	25.76	23.76
		Negative	roof ^{4.5}	123.61	91.48	72.52	60.07	51.27	44.72	39.67	35.64	32.36	29.63	27.33
4.00	1-Span	Live/Press ¹	--	378.17	267.95	200.13	154.26	121.46	97.14	78.69	64.43	53.26	44.41	37.33
		Negative	wall ^{3.5}	196.03	147.02	117.62	98.01	84.01	73.51	65.34	58.81	53.46	49.01	45.24
		Negative	roof ^{4.5}	196.03	147.02	117.62	98.01	84.01	73.51	65.34	58.81	53.46	49.01	45.24
	2-Span	Live/Press ¹	--	381.73	274.53	209.87	166.80	136.16	113.33	95.70	81.74	70.46	61.15	53.41
		Negative	wall ^{3.5}	109.49	80.03	62.52	51.06	43.04	37.15	32.66	29.13	26.29	23.96	22.00
		Negative	roof ^{4.5}	122.90	89.83	70.18	57.31	48.31	41.70	36.66	32.70	29.51	26.89	24.70
	3-Spans and Greater	Live/Press ¹	--	383.63	276.96	212.22	168.62	137.23	113.58	95.19	80.56	68.73	59.04	51.01
		Negative	wall ^{3.5}	110.77	81.96	64.91	53.69	45.78	39.90	35.36	31.75	28.82	26.38	24.32
		Negative	roof ^{4.5}	124.34	92.00	72.86	60.27	51.38	44.78	39.69	35.64	32.35	29.61	27.30
5.00	1-Span	Live/Press ¹	--	415.47	298.99	227.37	178.68	143.49	117.03	96.60	80.51	67.66	57.29	48.82
		Negative	wall ^{3.5}	198.04	148.53	118.83	99.02	84.88	74.27	66.01	59.41	54.01	49.51	45.70
		Negative	roof ^{4.5}	198.04	148.53	118.83	99.02	84.88	74.27	66.01	59.41	54.01	49.51	45.70
	2-Span	Live/Press ¹	--	417.57	303.13	233.87	187.56	154.50	129.79	110.67	95.46	83.10	72.89	64.33
		Negative	wall ^{3.5}	113.18	83.07	65.05	53.16	44.79	38.62	33.91	30.21	27.22	24.77	22.73
		Negative	roof ^{4.5}	124.02	91.03	71.28	58.25	49.08	42.32	37.16	33.10	29.83	27.15	24.90
	3-Spans and Greater	Live/Press ¹	--	418.89	305.08	236.09	189.66	156.22	130.96	111.22	95.40	82.49	71.79	62.83
		Negative	wall ^{3.5}	113.99	84.39	66.80	55.21	47.03	40.95	36.27	32.55	29.52	27.02	24.90
		Negative	roof ^{4.5}	124.90	92.47	73.20	60.50	51.53	44.88	39.74	35.67	32.35	29.60	27.29
6.00	1-Span	Live/Press ¹	--	323.41	242.55	194.04	161.70	138.60	121.28	107.80	91.59	78.13	67.10	57.96
		Negative	wall ^{3.5}	200.06	150.04	120.04	100.03	85.74	75.02	66.69	60.02	54.56	50.01	46.17
		Negative	roof ^{4.5}	200.06	150.04	120.04	100.03	85.74	75.02	66.69	60.02	54.56	50.01	46.17
	2-Span	Live/Press ¹	--	314.31	231.63	181.92	148.91	125.54	108.23	94.96	84.50	76.08	69.15	63.37
		Negative	wall ^{3.5}	116.63	85.94	67.50	55.25	46.58	40.16	35.24	31.36	28.23	25.66	23.51
		Negative	roof ^{4.5}	124.86	92.01	72.27	59.16	49.87	43.00	37.72	33.57	30.22	27.47	25.17
	3-Spans and Greater	Live/Press ¹	--	308.21	225.94	177.17	145.24	122.86	106.39	93.80	83.87	75.84	69.23	63.68
		Negative	wall ^{3.5}	117.11	86.81	68.73	56.78	48.33	42.06	37.22	33.38	30.26	27.68	25.50
		Negative	roof ^{4.5}	125.38	92.94	73.58	60.79	51.75	45.03	39.85	35.74	32.40	29.63	27.30

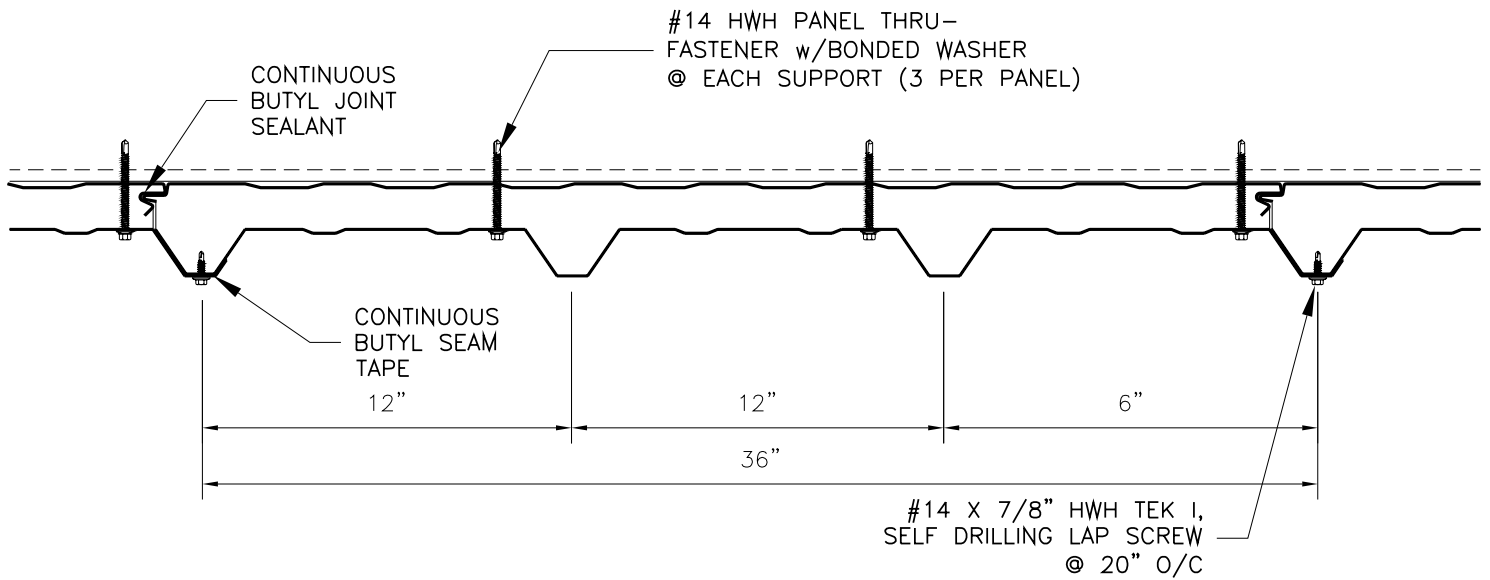
Notes:

1. Live/Press: Allowable loads applicable to downloads such as roof live, snow, and positive wind pressure.
2. Allowable values are based on a 36" wide panel with a 26 ga. fascia and a 26 ga. liner with 3- 1/4"-14 SDS in a 3' wide panel at each supporting structural member.
3. Connection for **Walls**: screws located at the middle of the low pan centered between the high ribs of the fascia panel. Attach fascia sidelaps with 1/4" Lapteks at 20" o.c. max. spacing between main panel connections.
4. Connection for **Roof**: screws located at the middle of the high ribs of the fascia panel with an HW-355 bonded washer under the screw head. Attach fascia sidelaps with 1/4" Lapteks at 20" o.c. max. spacing between main panel connections.
5. Pullout of the self-drilling screws from the supporting structural member **must be checked separately**.
6. Allowable values have been derived from tests conducted in accordance with the ASTM E72 and ASTM E1592 test specifications.
7. Allowable face buckling, shear, and panel pullover loads have been calculated using a 1.875 safety factor derived from test data scatter.
8. Allowable values include a deflection check against an L/240 limit for Live/Press loading, and an L/240 limit for 10-year wind pressures for Wind Suction loading.
9. Allowable values shown are intended to be compared against factored loads from ASCE 7-based load combinations.
10. Allowable loads are given for equally-spaced supports.
11. This information is subject to change without notice. Please contact Metl-Span for most current information.





METHOD OF ATTACHING LS IMP ROOF PANELS



METHOD OF ATTACHING LS IMP WALL PANELS

REFER TO SHEET "CI-INFO" FOR ADDITIONAL INFORMATION REGARDING THE APPLICATION OF SEALANTS, FASTENERS, AND CLOSURE MATERIALS.
CONSULT METL-SPAN TO DETERMINE ALLOWABLE LOAD AND SPACING OF ATTACHMENT FASTENERS.

<p>LS IMP FASTENING PATTERNS</p>	<p>APPLICATION: COMMERCIAL & INDUSTRIAL</p>	<p>LS1.5-FSTN-1 DATE: OCT. 29, 2012</p>
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