

# RWPII ROOF & WALL PANEL ALLOWABLE LOAD CHART (ALLOWABLE LOADS IN PSF)

Panel Depth	Support Condition	Load Type	Connection	Support Spacing										
				3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'
1 ½"	1-Span	Live/Press <sup>1</sup>	--	179.28	117.49	80.87	57.56	42.09	31.49	24.04	18.69	14.77	11.84	9.62
		Suction	wall <sup>3,5</sup>	199.47	149.60	102.68	71.31	52.39	40.11	31.69	25.67	21.09	16.91	13.74
		Suction	roof <sup>4,5</sup>	238.34	160.44	102.68	71.31	52.39	40.11	31.69	25.67	21.09	16.91	13.74
	2-Span	Live/Press <sup>1</sup>	--	188.12	130.18	95.71	73.03	57.13	45.50	36.75	30.03	24.79	20.65	17.34
		Suction	wall <sup>3,5</sup>	108.76	79.02	61.80	50.68	42.95	37.28	32.93	28.84	23.38	19.35	16.30
		Suction	roof <sup>4,5</sup>	129.88	94.36	73.80	60.52	51.29	44.51	36.52	28.84	23.38	19.35	16.30
	3-Span and greater	Live/Press <sup>1</sup>	--	190.22	131.35	95.67	71.97	55.36	43.33	34.40	27.66	22.50	18.49	15.34
		Suction	wall <sup>3,5</sup>	112.94	83.77	66.58	55.26	47.24	41.26	36.63	32.93	27.60	23.05	19.54
		Suction	roof <sup>4,5</sup>	134.87	100.04	79.51	65.99	56.41	49.27	42.03	33.67	27.60	23.05	19.54
2"	1-Span	Live/Press <sup>1</sup>	--	229.75	154.23	108.72	79.11	58.97	44.85	34.72	27.31	21.79	17.62	14.41
		Suction	wall <sup>3,5</sup>	199.70	149.78	119.82	97.75	71.81	54.98	43.44	35.19	29.08	24.44	20.59
		Suction	roof <sup>4,5</sup>	238.58	178.93	140.76	97.75	71.81	54.98	43.44	35.19	29.08	24.44	20.59
	2-Span	Live/Press <sup>1</sup>	--	237.52	166.22	123.66	95.54	75.72	61.10	49.98	41.35	34.52	29.06	24.65
		Suction	wall <sup>3,5</sup>	111.45	80.98	63.25	51.78	43.81	37.97	33.51	29.99	27.15	24.80	22.77
		Suction	roof <sup>4,5</sup>	133.19	96.78	75.58	61.88	52.36	45.37	40.04	35.84	32.44	27.13	22.77
	3-Span and greater	Live/Press <sup>1</sup>	--	239.92	168.06	124.39	95.15	74.41	59.15	47.65	38.82	31.95	26.53	22.22
		Suction	wall <sup>3,5</sup>	114.81	85.06	67.54	56.01	47.85	41.78	37.08	33.33	30.27	27.74	25.58
		Suction	roof <sup>4,5</sup>	137.20	101.65	80.70	66.93	57.18	49.92	44.31	39.83	36.17	31.89	27.00
2 ½"	1-Span	Live/Press <sup>1</sup>	--	275.47	188.43	135.43	100.40	76.12	58.77	46.10	36.67	29.55	24.08	19.84
		Suction	wall <sup>3,5</sup>	199.94	149.96	119.96	99.97	85.69	70.48	55.69	45.11	37.28	31.32	26.69
		Suction	roof <sup>4,5</sup>	238.93	179.20	143.36	119.47	92.05	70.48	55.69	45.11	37.28	31.32	26.69
	2-Span	Live/Press <sup>1</sup>	--	282.01	199.13	149.50	116.63	93.36	76.13	62.94	52.60	44.35	37.69	32.24
		Suction	wall <sup>3,5</sup>	114.02	82.93	64.73	52.93	44.72	38.71	34.12	30.51	27.59	25.19	23.18
		Suction	roof <sup>4,5</sup>	136.23	99.09	77.34	63.22	53.43	46.24	40.76	36.45	32.97	30.10	27.69
	3-Span and greater	Live/Press <sup>1</sup>	--	284.45	201.39	150.89	116.95	92.69	74.65	60.90	50.19	41.75	35.01	29.58
		Suction	wall <sup>3,5</sup>	116.71	86.41	68.54	56.80	48.50	42.32	37.55	33.75	30.64	28.07	25.89
		Suction	roof <sup>4,5</sup>	139.44	103.24	81.89	67.86	57.95	50.57	44.86	40.32	36.61	33.53	30.93
3"	1-Span	Live/Press <sup>1</sup>	--	315.66	219.15	160.03	120.51	92.74	72.58	57.63	46.33	37.68	30.97	25.69
		Suction	wall <sup>3,5</sup>	200.30	150.22	120.18	100.15	85.84	75.11	66.77	55.17	45.59	38.31	32.64
		Suction	roof <sup>4,5</sup>	239.17	179.38	143.50	119.59	102.50	86.20	68.11	55.17	45.59	38.31	32.64
	2-Span	Live/Press <sup>1</sup>	--	321.01	228.35	172.70	135.76	109.56	90.08	75.11	63.32	53.84	46.12	39.76
		Suction	wall <sup>3,5</sup>	116.43	84.81	66.19	54.08	45.64	39.46	34.75	31.04	28.06	25.60	23.54
		Suction	roof <sup>4,5</sup>	139.08	101.31	79.07	64.60	54.52	47.14	41.51	37.08	33.51	30.58	28.12
	3-Span and greater	Live/Press <sup>1</sup>	--	323.33	230.81	174.59	136.72	109.55	89.21	73.55	61.25	51.44	43.52	37.08
		Suction	wall <sup>3,5</sup>	118.58	87.75	69.56	57.60	49.16	42.88	38.03	34.17	31.02	28.41	26.20
		Suction	roof <sup>4,5</sup>	141.65	104.83	83.09	68.81	58.72	51.22	45.43	40.82	37.06	33.93	31.30
4"	1-Span	Live/Press <sup>1</sup>	--	378.39	268.43	200.78	154.99	122.21	97.89	79.40	65.10	53.88	44.97	37.84
		Suction	wall <sup>3,5</sup>	200.77	150.58	120.46	100.39	86.04	75.29	66.92	60.23	54.76	50.19	44.44
		Suction	roof <sup>4,5</sup>	239.76	179.82	143.86	119.88	102.76	89.91	79.92	71.93	62.06	52.15	44.44
	2-Span	Live/Press <sup>1</sup>	--	381.80	274.77	210.19	167.15	136.52	113.67	96.02	82.02	70.69	61.36	53.59
		Suction	wall <sup>3,5</sup>	120.81	88.33	69.02	56.36	47.51	41.00	36.04	32.15	29.01	26.43	24.28
		Suction	roof <sup>4,5</sup>	144.33	105.53	82.46	67.34	56.76	48.98	43.06	38.40	34.66	31.58	29.00
	3-Span and greater	Live/Press <sup>1</sup>	--	383.60	277.15	212.52	168.99	137.63	113.99	95.60	80.95	69.10	59.38	51.33
		Suction	wall <sup>3,5</sup>	122.19	90.41	71.59	59.22	50.48	44.00	38.99	35.01	31.77	29.09	26.82
		Suction	roof <sup>4,5</sup>	145.97	108.01	85.53	70.75	60.31	52.56	46.58	41.83	37.96	34.75	32.04

# RWPII ROOF & WALL PANEL ALLOWABLE LOAD CHART (ALLOWABLE LOADS IN PSF)

Panel Depth	Support Condition	Load Type	Connection	Support Spacing										
				3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'
5"	1-Span	Live/Press <sup>1</sup>	--	415.78	299.37	227.78	179.11	143.93	117.47	97.03	80.92	68.05	57.64	49.15
		Suction	wall <sup>3,5</sup>	201.24	150.93	120.75	100.62	86.25	75.47	67.08	60.37	54.88	50.31	46.44
		Suction	roof <sup>4,5</sup>	240.36	180.27	144.21	120.18	103.01	90.13	80.12	72.11	65.55	60.09	55.47
	2-Span	Live/Press <sup>1</sup>	--	417.84	303.42	234.16	187.84	154.77	130.04	110.89	95.65	83.26	73.01	64.42
		Suction	wall <sup>3,5</sup>	124.82	91.62	71.76	58.64	49.41	42.60	37.40	33.32	30.02	27.32	25.07
		Suction	roof <sup>4,5</sup>	149.13	109.47	85.73	70.06	59.04	50.90	44.69	39.81	35.87	32.64	29.95
	3-Span and greater	Live/Press <sup>1</sup>	--	419.14	305.34	236.36	189.94	156.49	131.22	111.46	95.63	82.70	71.98	62.99
		Suction	wall <sup>3,5</sup>	125.68	93.05	73.66	60.88	51.85	45.15	39.99	35.89	32.55	29.78	27.45
		Suction	roof <sup>4,5</sup>	150.17	111.18	88.00	72.74	61.95	53.95	47.78	42.88	38.89	35.58	32.80
6"	1-Span	Live/Press <sup>1</sup>	--	323.42	242.57	194.05	161.71	138.61	121.28	107.81	91.85	78.39	67.34	58.19
		Suction	wall <sup>3,5</sup>	201.72	151.29	121.03	100.86	86.45	45.64	67.24	60.52	55.01	50.43	46.55
		Suction	roof <sup>4,5</sup>	240.95	180.71	144.57	120.47	103.26	90.36	80.32	72.28	65.71	60.24	55.60
	2-Span	Live/Press <sup>1</sup>	--	314.40	231.71	182.00	148.99	125.61	108.30	95.02	84.55	76.11	69.18	63.40
		Suction	wall <sup>3,5</sup>	128.63	94.80	74.47	60.96	51.39	44.31	38.87	34.59	31.14	28.31	25.94
		Suction	roof <sup>4,5</sup>	153.64	113.23	88.94	72.81	61.38	52.92	46.43	41.32	37.19	33.81	30.98
	3-Span and greater	Live/Press <sup>1</sup>	--	308.33	226.04	177.26	145.30	122.92	106.44	93.83	83.89	75.87	69.25	63.69
		Suction	wall <sup>3,5</sup>	129.16	95.74	75.80	62.63	53.31	46.39	41.05	36.82	33.37	30.52	28.12
		Suction	roof <sup>4,5</sup>	154.27	114.35	90.54	74.80	63.67	55.40	49.03	43.97	39.86	36.45	33.59

## 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- ¼"-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 ¼" Lapteks at 24" 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 ¼" Lapteks at 18" 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 using a limit of Spacing/240 for Live/Press loading, and Spacing/240 based on 10-year wind pressures for Wind Suction loading.
9. Allowable loads are given for equally-spaced supports.
10. This information is subject to change without notice. Please contact IPS for most current information.