

# IBL ROOF PANEL - CANADA 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'
2"	1-Span	Live/Press <sup>1</sup>	--	186.09	123.85	86.56	62.48	46.24	34.95	26.91	21.07	16.75	13.50	11.01
		Suction	no Fab-Lok <sup>®6</sup>	105.52	79.14	63.31	52.76	45.22	39.57	35.17	30.11	23.93	19.28	15.73
		Suction	with Fab-Lok <sup>®6,8</sup>	158.48	118.86	95.09	79.24	66.05	49.93	38.45	30.11	23.93	19.28	15.73
	2-Span	Live/Press <sup>1</sup>	--	193.35	134.77	99.84	76.80	60.58	48.66	39.62	32.63	27.13	22.75	19.22
		Suction	no Fab-Lok <sup>®6</sup>	72.30	52.52	41.04	33.62	28.46	24.68	21.79	19.51	17.66	16.14	14.86
		Suction	with Fab-Lok <sup>®6,8</sup>	108.36	78.72	61.51	50.39	42.66	36.99	32.66	29.24	26.48	24.19	22.28
	3-Span and greater	Live/Press <sup>1</sup>	--	195.39	136.18	100.23	76.21	59.24	46.83	37.52	30.42	24.92	20.62	17.21
		Suction	no Fab-Lok <sup>®6</sup>	74.69	55.36	43.97	36.48	31.17	27.22	24.16	21.72	19.73	18.07	16.67
		Suction	with Fab-Lok <sup>®6,8</sup>	111.94	82.97	65.90	54.67	46.72	40.79	36.21	32.55	29.57	27.09	24.57
2 1/2"	1-Span	Live/Press <sup>1</sup>	--	217.01	148.73	107.12	79.57	60.44	46.75	36.72	29.25	23.59	19.25	15.87
		Suction	no Fab-Lok <sup>®6</sup>	104.38	78.29	62.63	52.19	44.73	39.14	34.79	31.31	28.47	26.10	22.67
		Suction	with Fab-Lok <sup>®6,8</sup>	156.76	117.57	94.06	78.38	67.18	58.79	52.25	41.79	33.70	27.50	22.67
	2-Span	Live/Press <sup>1</sup>	--	221.95	156.87	117.88	92.06	73.77	60.22	49.84	41.70	35.20	29.94	25.64
		Suction	no Fab-Lok <sup>®6</sup>	82.10	59.72	46.61	38.11	32.19	27.86	24.56	21.96	19.86	18.13	16.68
		Suction	with Fab-Lok <sup>®6,8</sup>	123.14	89.58	69.92	57.16	48.29	41.79	36.83	32.93	29.78	27.19	25.01
	3-Span and greater	Live/Press <sup>1</sup>	--	223.83	158.65	119.02	92.37	73.31	59.13	48.30	39.86	33.20	27.87	23.57
		Suction	no Fab-Lok <sup>®6</sup>	83.98	62.17	49.31	40.86	34.89	30.44	27.01	24.27	22.04	20.18	18.62
		Suction	with Fab-Lok <sup>®6,8</sup>	125.96	93.25	73.97	61.29	52.33	45.66	40.51	36.41	33.06	30.28	27.93
3"	1-Span	Live/Press <sup>1</sup>	--	234.97	164.59	121.37	92.31	71.72	56.65	45.35	36.73	30.07	24.85	20.73
		Suction	no Fab-Lok <sup>®6</sup>	103.81	77.86	62.29	51.90	44.49	38.93	34.60	31.14	28.31	25.95	23.96
		Suction	with Fab-Lok <sup>®6,8</sup>	155.05	116.29	93.03	77.52	66.45	58.14	51.68	46.51	42.29	35.50	29.61
	2-Span	Live/Press <sup>1</sup>	--	238.12	170.18	129.29	102.11	82.81	68.44	57.37	48.62	41.56	35.79	31.02
		Suction	no Fab-Lok <sup>®6</sup>	92.04	67.13	52.41	42.80	36.10	31.19	27.45	24.50	22.13	20.18	18.55
		Suction	with Fab-Lok <sup>®6,8</sup>	138.02	100.66	78.58	64.18	54.14	46.77	41.16	36.74	33.19	30.27	27.82
	3-Span and greater	Live/Press <sup>1</sup>	--	239.62	171.90	130.76	103.05	83.11	68.15	56.57	47.42	40.08	34.12	29.23
		Suction	no Fab-Lok <sup>®6</sup>	93.47	69.15	54.79	45.35	38.69	33.74	29.91	26.87	24.39	22.33	20.60
		Suction	with Fab-Lok <sup>®6,8</sup>	140.15	103.70	82.16	68.01	58.02	50.59	44.86	40.29	36.58	33.49	30.88
4"	1-Span	Live/Press <sup>1</sup>	--	230.23	166.21	126.87	100.12	80.75	66.15	54.84	45.90	38.73	32.91	28.14
		Suction	no Fab-Lok <sup>®6</sup>	100.95	75.71	60.57	50.48	43.27	37.86	33.65	30.29	27.53	25.24	23.30
		Suction	with Fab-Lok <sup>®6,8</sup>	151.43	113.57	90.86	75.71	64.90	56.79	50.48	45.43	41.30	37.86	34.95
	2-Span	Live/Press <sup>1</sup>	--	231.22	168.20	130.04	104.49	86.24	72.59	62.01	53.58	46.73	41.06	36.30
		Suction	no Fab-Lok <sup>®6</sup>	104.72	80.34	64.47	52.70	44.41	38.29	33.61	29.93	26.96	24.53	22.50
		Suction	with Fab-Lok <sup>®6,8</sup>	157.08	120.51	96.70	79.05	66.61	57.43	50.41	44.89	40.44	36.79	33.75
	3-Span and greater	Live/Press <sup>1</sup>	--	231.87	169.18	131.19	105.63	87.22	73.30	62.42	53.69	46.54	40.62	35.64
		Suction	no Fab-Lok <sup>®6</sup>	107.31	82.80	66.04	54.58	46.48	40.47	35.83	32.15	29.16	26.68	24.59
		Suction	with Fab-Lok <sup>®6,8</sup>	160.96	124.20	99.06	81.87	69.72	60.70	53.75	48.23	43.74	40.02	36.88
5"	1-Span	Live/Press <sup>1</sup>	--	169.83	125.08	97.80	79.31	65.89	55.68	47.64	41.16	35.83	31.38	27.63
		Suction	no Fab-Lok <sup>®6</sup>	98.67	74.00	59.20	49.33	42.29	37.00	32.89	29.60	26.91	24.67	22.77
		Suction	with Fab-Lok <sup>®6,8</sup>	148.00	111.00	88.80	74.00	63.43	55.50	49.33	44.40	40.36	37.00	34.15
	2-Span	Live/Press <sup>1</sup>	--	170.00	125.45	98.46	80.31	67.28	57.46	49.82	43.71	38.71	34.56	31.05
		Suction	no Fab-Lok <sup>®6</sup>	100.46	76.30	61.93	52.42	45.66	40.59	36.64	33.46	30.83	28.62	26.72
		Suction	with Fab-Lok <sup>®6,8</sup>	150.70	114.45	92.90	78.63	68.49	60.89	54.96	50.19	46.25	42.93	40.08
	3-Span and greater	Live/Press <sup>1</sup>	--	170.14	125.71	98.84	80.80	67.82	58.03	50.37	44.21	39.14	34.89	31.29
		Suction	no Fab-Lok <sup>®6</sup>	101.96	77.98	63.64	54.04	47.11	41.84	37.67	34.27	31.45	29.05	27.00
		Suction	with Fab-Lok <sup>®6,8</sup>	152.94	116.97	95.46	81.06	70.67	62.76	56.50	51.41	47.17	43.58	40.50

# IBL ROOF PANEL - CANADA 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'
6"	1-Span	Live/Press <sup>1</sup>	--	52.18	38.98	31.03	25.70	21.88	18.99	16.72	14.90	13.40	12.13	11.06
		Suction	no Fab-Lok <sup>®6</sup>	74.55	55.69	44.33	36.72	31.25	27.12	23.89	21.28	19.14	17.33	15.80
		Suction	with Fab-Lok <sup>®6,8</sup>	74.55	55.69	44.33	36.72	31.25	27.12	23.89	21.28	19.14	17.33	15.80
	2-Span	Live/Press <sup>1</sup>	--	52.18	38.99	31.04	25.72	21.90	19.03	16.78	14.97	13.49	12.25	11.19
		Suction	no Fab-Lok <sup>®6</sup>	74.55	55.70	44.35	36.75	31.29	27.18	23.97	21.39	19.27	17.49	15.99
		Suction	with Fab-Lok <sup>®6,8</sup>	74.55	55.70	44.35	36.75	31.29	27.18	23.97	21.39	19.27	17.49	15.99
	3-Span and greater	Live/Press <sup>1</sup>	--	52.19	39.00	31.05	25.74	21.93	19.06	16.82	15.02	13.54	12.31	11.26
		Suction	no Fab-Lok <sup>®6</sup>	74.55	55.70	44.36	36.76	31.32	27.22	24.02	21.45	19.34	17.57	16.08
		Suction	with Fab-Lok <sup>®6,8</sup>	74.55	55.70	44.36	36.76	31.32	27.22	24.02	21.45	19.34	17.57	16.08

## Notes:

1. Live/Press: Tabulated loads are applicable for downloads such as roof live, snow, and positive wind pressure.
2. Tabulated values are based on a 42" wide panel with a 24 ga. fascia and a 26 ga. liner with 3- ¼"-14 SDS and 1- HW-2324A clip at each supporting structural member.
3. Tabulated values have been derived from tests conducted in accordance with the ASTM E72 and ASTM E1592 test specifications.
4. Tabulated face buckling, shear, seam disengagement, and panel disengagement loads have been calculated using a 0.7 resistance factor determined from the 1.875 safety factor derived from test data scatter.
5. Tabulated 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.
6. Pullout of the self-drilling screws from the supporting structural member **must be checked separately**.
7. Tabulated loads are given for equally-spaced supports.
8. Fab-Lok<sup>®</sup>, where required, are to be installed in the following pattern:
  - 36" wide panel: Install through support structure into ribs of liner in contact with support member at 1" from edge without direct HW-2324 clip attachment..
  - 42" wide panel: Install through support structure into ribs of liner in contact with support member at 1" from edge without direct HW-2324 clip.
9. This information is subject to change without notice. Please contact IPS for most current information.