

ARBOR | PLANK™ WIND UPLIFT TESTING - ALLOWABLE UPLIFT CAPACITY

THICKNESS: 26 GAUGE

IMPERIAL											
Fastener Spacing	(in)	12	16	20	24	28	32	36	40	44	48
Ultimate Pressure	(psf)	110	95	80	70	60	55	45	40	35	30
Specified Design Pressure FS = 2	(psf)	55	48	40	35	30	28	23	20	18	15

METRIC											
Fastener Spacing	(mm)	300	400	500	600	700	800	900	1000	1100	1200
Ultimate Pressure	(psf)	5.27	4.47	3.86	3.35	2.93	2.56	2.23	1.94	1.68	1.44
Specified Design Pressure FS = 2	(psf)	2.63	2.24	1.93	1.68	1.46	1.28	1.12	0.97	0.84	0.72

THICKNESS: 24 GAUGE

IMPERIAL											
Fastener Spacing	(in)	12	16	20	24	28	32	36	40	44	48
Ultimate Pressure	(psf)	190	175	160	150	135	120	105	95	80	65
Specified Design Pressure FS = 2	(psf)	95	88	80	75	68	60	53	48	40	33

METRIC											
Fastener Spacing	(mm)	300	400	500	600	700	800	900	1000	1100	1200
Ultimate Pressure	(psf)	9.13	8.48	7.82	7.17	6.51	5.86	5.20	4.55	3.89	3.24
Specified Design Pressure FS = 2	(psf)	4.57	4.24	3.91	3.58	3.26	2.93	2.60	2.27	1.95	1.62

NOTES:

Material: Galvanized Z275 / G90 ASTM A653/A653M. Structural steel grade 33 (33 ksi / 230 MPa).

Load Tables: Based on ASTM E1592 load testing.

Ultimate pressures are based on regression analysis and linear interpolation of test results.

Safety Factor = 2 is recommended. Compare to Specified Loads.

Fastening slot is sized for #10 pan head screw to accommodate thermal expansion.

Designer is responsible to ensure that fastener spacing is adequate for the specified wind pressure.

Specified wind pressures are determined in accordance with the National/Provincial Building Code.

AGWAY METALS INC.

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