



Metposite panel transverse load chart

Fasteners per Sq.Ft.	Transverse load
1.066*	117** psf
1.00	109.76 psf
0.95	104.27 psf
0.90	98.78 psf
0.85	93.29 psf
0.80	87.80 psf
0.75	82.32 psf
0.70	76.83 psf
0.65	71.34 psf
0.60	65.85 psf
0.55	60.37 psf
0.50	54.88 psf
0.45	49.39 psf
0.40	43.90 psf
0.35	38.41 psf
0.3	32.93 psf

* Base on 22.5 sq.ft test panel with corner fasteners and side fastened at 12" on center

** ASTM E-72 Structural Performance: Individual panel average ultimate load (held for one minute) 117lbs

***Testing Conducted By Intertek Testing Services NA Ltd. Complete report available on request

Fastener Requirement

Fastener to be evenly spaced on fastening lip as required to achieve desired transverse load. See examples below.

Formula: (desired transverse load) x .0092 = (required screws per square foot)

Examples

Fastened 48" on center	48" x 48"	48" x 96"	48" x 120"
Number of screws	8	10	12
Fastener per square	0.5	0.3125	0.3
Transverse load (psf)	54.88	34.30	32.93

Fastened 32" on center	48" x 48"	48" x 96"	48" x 120"
Number of screws	12	14	16
Fastener per square	0.75	0.4375	0.4
Transverse load (psf)	82.32	48.02	43.90

Fastened 24" on center	48" x 48"	48" x 96"	48" x 120"
Number of screws	12	16	18
Fastener per square	0.75	0.5	0.45
Transverse load (psf)	82.32	54.88	49.39

Fastened 16" on center	48" x 48"	48" x 96"	48" x 120"
Number of screws	16	26	28
Fastener per square	1	0.8125	0.7
Transverse load (psf)	109.76	89.18	76.83

Fastened 12" on center	48" x 48"	48" x 96"	48" x 120"
Number of screws	20	28	36
Fastener per square	1.25	0.875	0.9
Transverse load (psf)	117+	96.04	98.78