

## ULTIMATE LOAD CAPACITY / DEFLECTION LOAD TABLE (kPa)

### 0.6mm EPS RETRACOM INSULATED PANEL

		PANEL THICKNESS (mm)							
		50	75	100	125	150	175	200	250
S P A N ( m )	1.0								
	1.5								
	2.0	4.35 <i>(1.86)</i>							
	2.5	2.78 <i>(1.34)</i>	4.17 <i>(2.46)</i>	5.56 <i>(3.45)</i>					
	3.0	1.93 <i>(0.99)</i>	2.90 <i>(1.88)</i>	3.86 <i>(2.69)</i>	4.70 <i>(3.51)</i>	5.63 <i>(4.35)</i>			
	3.5	1.42 <i>(0.76)</i>	2.13 <i>(1.47)</i>	2.84 <i>(2.14)</i>	3.45 <i>(2.83)</i>	4.14 <i>(3.53)</i>	4.83 <i>(4.24)</i>	5.52 <i>(4.95)</i>	
	4.0	1.09 <i>(0.58)</i>	1.63 <i>(1.17)</i>	2.17 <i>(1.73)</i>	2.64 <i>(2.31)</i>	3.17 <i>(2.91)</i>	3.70 <i>(3.52)</i>	4.23 <i>(4.13)</i>	5.28 <i>(5.28)</i>
	4.5	0.86 <i>(0.46)</i>	1.29 <i>(0.94)</i>	1.72 <i>(1.41)</i>	2.09 <i>(1.91)</i>	2.50 <i>(2.43)</i>	2.92 <i>(2.92)</i>	3.34 <i>(3.34)</i>	4.17 <i>(4.17)</i>
	5.0	0.70 <i>(0.37)</i>	1.04 <i>(0.76)</i>	1.39 <i>(1.16)</i>	1.69 <i>(1.59)</i>	2.03 <i>(2.03)</i>	2.37 <i>(2.37)</i>	2.70 <i>(2.7)</i>	3.38 <i>(3.38)</i>
	5.5	0.57 <i>(0.29)</i>	0.86 <i>(0.63)</i>	1.15 <i>(0.97)</i>	1.40 <i>(1.34)</i>	1.68 <i>(1.68)</i>	1.96 <i>(1.96)</i>	2.24 <i>(2.24)</i>	2.79 <i>(2.79)</i>
	6.0	0.48 <i>(0.24)</i>	0.72 <i>(0.52)</i>	0.97 <i>(0.82)</i>	1.17 <i>(1.14)</i>	1.41 <i>(1.41)</i>	1.64 <i>(1.64)</i>	1.88 <i>(1.88)</i>	2.35 <i>(2.35)</i>
	6.5		0.62 <i>(0.44)</i>	0.82 <i>(0.69)</i>	1.00 <i>(0.97)</i>	1.20 <i>(1.2)</i>	1.40 <i>(1.4)</i>	1.60 <i>(1.6)</i>	2.00 <i>(2)</i>
	7.0		0.53 <i>(0.37)</i>	0.71 <i>(0.59)</i>	0.86 <i>(0.83)</i>	1.03 <i>(1.03)</i>	1.21 <i>(1.21)</i>	1.38 <i>(1.38)</i>	1.72 <i>(1.72)</i>
	7.5			0.62 <i>(0.5)</i>	0.75 <i>(0.72)</i>	0.90 <i>(0.9)</i>	1.05 <i>(1.05)</i>	1.20 <i>(1.2)</i>	1.50 <i>(1.5)</i>
	8.0			0.54 <i>(0.43)</i>	0.66 <i>(0.63)</i>	0.79 <i>(0.79)</i>	0.92 <i>(0.92)</i>	1.06 <i>(1.06)</i>	1.32 <i>(1.32)</i>
	8.5				0.58 <i>(0.55)</i>	0.70 <i>(0.7)</i>	0.82 <i>(0.82)</i>	0.94 <i>(0.94)</i>	1.17 <i>(1.17)</i>
	9.0					0.63 <i>(0.63)</i>	0.73 <i>(0.73)</i>	0.83 <i>(0.83)</i>	1.04 <i>(1.04)</i>

The above table lists the ultimate wind load pressure for strength design and the pressure corresponding to a Span/150 single span deflection ratio for panels with 0.6mm thick G300 steel skins bonded to a 'SL' grade expanded polystyrene core. The designer shall determine if Span/150 deflection ratio is appropriate for the intended use. Loads for a more stringent deflections ratio can be determined by linearly proportioning the loads provided. Differential thermal effects are NOT incorporated in the loads provided.

#### Notes

Capacity Reduction Factor	0.9
Results compiled from tests by:	Retracom
Date Tested:	Jan 2010
Reference:	09098-2