BondorPanel/SmoothPanel EPS-FR SL Core 0.6mm Steel Skins Wall Span Table for Housing Application

Cyclonic

		Panel Thickness									
	ULS Design Wind Pressure	50 mm		75 mm		100 mm		125 mm		150 mm	
		Max Span (m)		Max Span (m)		Max Span (m)		Max Span (m)		Max Span (m)	
Wind Class	(kPa)	Single Span	Multi-Span	Single Span	Multi-Span	Single Span	Multi-Span	Single Span	Multi-Span	Single Span	Multi-Span
C1	-2.27	2.1	0.9	3	1.2	3.6	1.8	3.9	2.4	4.5	2.7
C2	-3.37	1.5	0.6	2.1	0.9	3	1.2	3.3	1.5	3.6	1.8
C3	-4.97	0.9	0.3	1.5	0.3	1.8	0.6	2.4	0.9	3	1.2

Notes:

1. Wind speeds and coefficients based on AS 4055 - Wind Loads for Housing.
2. Wall pressure coefficients based on the following worst case assumptions:
   a) External Pressure - Ratio of building height to least horizontal dimension on plan, h/d < 0.5. C_{pe} = -0.65
   b) Internal Pressure - Cyclonic - C_{pi} = +0.7
   c) Local Pressure - Least Horizontal Dimension on Plan < 20m or Building Height < 4m (a = 4m). K_l = 1.5
   d) Combination Factor - K_c = 0.9
   e) Non-cyclonic - C_{fig} = -1.51
3. Serviceability deflection limit of span/150 has been allowed for.
4. 2 x Mushroom head bolt fixings at each line of support per panel are required.
5. Span tables have been developed by Bligh Tanner Consulting Engineers by interpretation of physical testing conducted & reported by BRANZ.

Version 2
Feb 2022