

Non-Cyclonic

Panel Properties										
'R' Value (m ² K/W)		1.60			2.30			2.90		
Panel Thickness (mm)		50			75			100		
Wind Class	ULS Design Wind Pressure (kPa)	Max Span (m)			Max. Cantilever (mm)	Max Span (m)			Max. Cantilever (mm)	
		Single Span	Multi-Span	Single Span		Multi-Span				
N2-W33	1.51	3.73	3.9	450	4.3	5.2	900	5.1	5.9	1200
N3-W41	2.35	2.9	2.4	450	3.3	3.7*	900	4.0	4.7*	1200
N4-W50	3.50	2.0	1.6	450	2.4	2.4*	900	3.1	3.3*	1000
N5-W60	5.17	-	-	-	1.7	-	600	2.3	2.2*	800

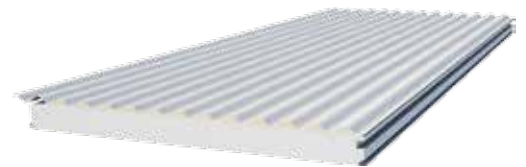
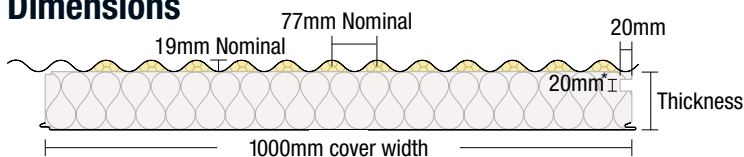
* Spans noted with (*) indicate fixings at every 2nd rib. All other spans listed require fixings at every 3rd rib.

Non-Cyclonic (cont'd)

Panel Properties										
'R' Value (m ² K/W)		3.60			4.20			5.50		
Panel Thickness (mm)		125			150			200		
Wind Class	ULS Design Wind Pressure (kPa)	Max Span (m)			Max. Cantilever (mm)	Max Span (m)			Max. Cantilever (mm)	
		Single Span	Multi-Span	Single Span		Multi-Span				
N2-W33	1.51	5.6	6.6*	1600	6.2	7.2*	1800	7.2	8.2*	2100
N3-W41	2.35	4.4	5.2*	1350	4.9	5.6*	1450	5.6	6.5*	1700
N4-W50	3.50	3.5	4.1*	1150	4.0	4.4*	1250	4.6	4.4*	1300
N5-W60	5.17	2.8	2.7*	800	3.2	2.9*	800	4.3	2.9*	800

* Spans noted with (*) indicate fixings at every 2nd rib. All other spans listed require fixings at every 3rd rib.

Dimensions



* Services ducts 30x30mm are available for panel thicknesses 150-200mm.

Notes:

1. Wind speeds and coefficients based on AS 4055 - Wind Loads for Housing.
2. Roof pressure coefficients based on the following worst case assumptions:
 - a) External Pressure - Ratio of building height to least horizontal dimension on plan, $h/d < 0.5$. $C_{pe} = -0.9$
 - b) Internal Pressure - Non-Cyclonic - Building has no dominate openings & more than one permeable wall or is effectively sealed. $C_{pi} = +0.2$
 - c) Local Pressure - Least Horizontal Dimension on Plan $< 20m$ or Building Height $< 4m$ ($a = 4m$). $K_f = 1.5$
 - d) Combination Factor - $K_c = 0.95$
 - e) Non-cyclonic - $C_{ms} = -1.57$
3. Serviceability deflection limit of span/150 has been allowed for.

4. Self weight of the panel has been allowed for, plus an allowance of up to 25kg/m² (0.25kPa dead load) for light duty fittings (lights, etc.).
5. Concentrated load of 140kg (as per AS/NZS 1170.1) on any one panel has been allowed for as a separate loadcase.
6. Distributed live load of 0.25kPa (as per AS/NZS 1170.1) has been allowed for.
7. Fixing at every third corrugation for non-cyclonic regions with 14g tek screws (or equivalent) are required.
8. Spans noted with * indicate 14g Tek screw fixing at every 2nd corrugation - non-cyclonic regions
9. Overhangs:
 - a) Max. Overhang min. of value stated or 40% of backspan.
 - b) Overhangs include an allowance for a 1.1kN concentrated load based on strength limit state as a separate loadcase.
10. Span tables have been developed by Bligh Tanner Consulting Engineers by interpretation of physical testing conducted.

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