

Laserlite Multiwall High Wind Load Installation Instructions

Wood Sub Frame & One Piece H-Bar

- Create a strong wooden sub-frame from defect free timber having length-wise members to support H-Bars; cross-members for fixing through the Multiwall Sheet separated by not more than 1200mm.
- 2. Sub-frame system shall be assembled flush with the top surfaces of length-wise members and cross-members in the same plane.
- 3. Minimum fall of the sheets will be 5 degrees to the horizontal length-wise in the direction of the Multiwall Sheet flutes.
- 4. Fix One Piece H-Bar system with 14g x 50mm fixings consisting of **Hexagon Washer Head and Seal** to length-wise members at separations no greater than 600mm.
- 5. Drill 10mm oversize holes for fixings through Multiwall Sheets at equally spaced intervals centred on top of each cross-member.
- Centrally fix through the sheet holes with 14g x 50mm fixings consisting of 25mm
 Aluminium Bonded Washer. Do not over-tighten fixing creating a depression in the sheet.

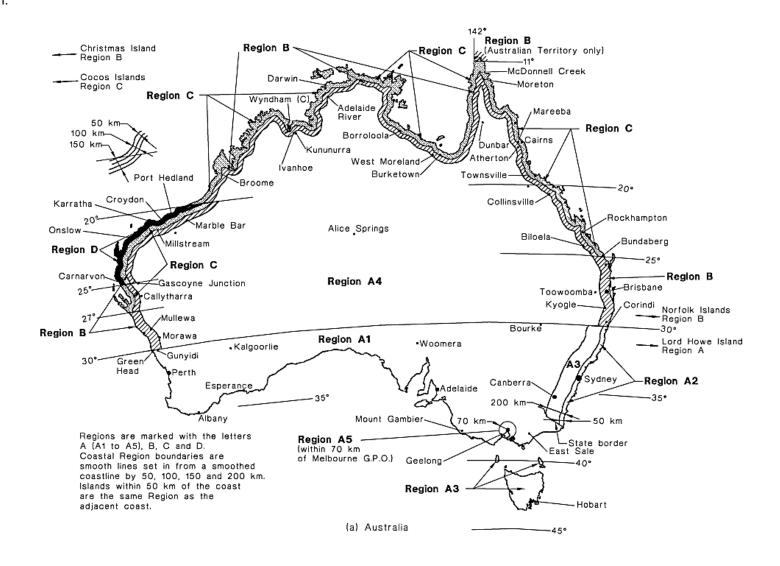
MWS Sheet Gauge (mm)	MWS Sheet Width (mm)	Length- wise Member Centres (mm)	Max. Spacing of H-Bar fixings (mm)	Max. Cross- wise Member Centres (mm)	Sheet Oversize Hole Diameter (mm)	No. of MWS Fixings at each position
8	700	720	600	1,200	10	3
8	1,050	1,070	600	1,200	10	4
10	1,050	1,070	600	1,200	10	4

7. Only use the fixings designated:

- 14g x 50mm fixing consisting of Hexagon Washer Head with Seal.
- 14g x 50mm fixing consisting of 25mm Aluminium Bonded Washer.

AS4055 Wind Loads for Housing

Select region:





AS4055 Wind Loads for Housing

Rating Chart Region A

TERRAIN CATEGORY 3	WIND RATING		TOPOGRAPH	Y
		△ T 1	Ĉ T2	T3
FULL SHIELDING	Wind Classification	N1	N1	N2
WIND THIS HOUSE	Serviceability Design Wind Pressure	500Pa	500Pa	700Pa
A A A A A A A A A A A A A A A A A A A	Ultimate Limit State Wind Pressure Water Penetration	700Pa 150Pa	700Pa 150Pa	1000Pa 150Pa
PARTIAL SHIELDING	Wind Classification	N1	N2	N3
WIND	Serviceability Design Wind Pressure	500Pa	700Pa	1000Pa
HOUSE	Ultimate Limit State Wind Pressure Water Penetration	700Pa 150Pa	1000Pa 150Pa	1500Pa 150Pa
NO SHIELDING	Wind Classification	N2	N2	N3
WIND THIS	Serviceability Design Wind Pressure	700Pa	700Pa	1000Pa
HOUSE	Ultimate Limit State Wind Pressure Water Penetration	1000Pa	1000Pa	1500Pa
	Water Felletration	150Pa	150Pa	150Pa
TERRAIN CATEGORY 2.5	WIND RATING		TOPOGRAPH	Υ
A A A		, _	6/	
	Wr. 101 - 15 - 11	<u>△</u> T1 _	T2	T3
FULL SHIELDING WIND THIS	Wind Classification Serviceability Design Wind Pressure	N1 500Pa	N2 700Pa	N2 700Pa
WIND THIS HOUSE	Ultimate Limit State Wind Pressure	700Pa	1000Pa	1000Pa
	Water Penetration	150Pa	150Pa	150Pa
PARTIAL SHIELDING	Wind Classification	N2 700Pa	N3	N3
THIS HOUSE	Serviceability Design Wind Pressure Ultimate Limit State Wind Pressure	700Pa 1000Pa	1000Pa 1500Pa	1000Pa 1500Pa
	Water Penetration	150Pa	150Pa	150Pa
NO SHIELDING	Wind Classification	N2	N3	N3
THIS HOUSE	Serviceability Design Wind Pressure Ultimate Limit State Wind Pressure	700Pa 1000Pa	1000Pa 1500Pa	1000Pa 1500Pa
	Water Penetration	150Pa	150Pa	150Pa
TERRAIN CATEGORY 2	WIND RATING		TOPOGRAPH	
		△ T1 _		T3
FULL SHIELDING	Wind Classification	N2	N3	N3
WIND THIS HOUSE	Serviceability Design Wind Pressure Ultimate Limit State Wind Pressure	700Pa 1000Pa	1000Pa 1500Pa	1000Pa 1500Pa
	Water Penetration	150Pa	150Pa	150Pa
PARTIAL SHIELDING	Wind Classification	N2	N3	N3
THIS HOUSE	Serviceability Design Wind Pressure	700Pa 1000Pa	1000Pa	1000Pa
	Ultimate Limit State Wind Pressure Water Penetration	150Pa	1500Pa 150Pa	1500Pa 150Pa
NO SHIELDING	Wind Classification	N3	N3	N4
WIND THIS HOUSE	Serviceability Design Wind Pressure Ultimate Limit State Wind Pressure	1000Pa	1000Pa	1500Pa
HOUSE	Chimate Limit State Wind Pressure	1500Pa	1500Pa	2300Pa
	Water Penetration	150Pa	150Pa	200Pa



AS4055 Wind Loads for Housing Rating Chart Region B

TERRAIN CATEGORY 3	WIND RATING	<u> </u>	TOPOGRAPHY	T 3
FULL SHIELDING THIS HOUSE	Wind Classification	N2	N2	N3
	Serviceability Design Wind Pressure	700Pa	700Pa	1000Pa
	Ultimate Limit State Wind Pressure	1000Pa	1000Pa	1500Pa
	Water Penetration	150Pa	150Pa	150Pa
PARTIAL SHIELDING THIS HOUSE	Wind Classification	N2	N3	N3
	Serviceability Design Wind Pressure	700Pa	1000Pa	1000Pa
	Ultimate Limit State Wind Pressure	1000Pa	1500Pa	1500Pa
	Water Penetration	150Pa	150Pa	150Pa
NO SHIELDING THIS HOUSE	Wind Classification	N3	N3	N4
	Serviceability Design Wind Pressure	1000Pa	1000Pa	1500Pa
	Ultimate Limit State Wind Pressure	1500Pa	1500Pa	2300Pa
	Water Penetration	150Pa	150Pa	200Pa

TERRAIN CATEGORY 2.5	WIND RATING	<u> </u>	TOPOGRAPH	Y T3
FULL SHIELDING THIS HOUSE	Wind Classification	N2	N3	N3
	Serviceability Design Wind Pressure	700Pa	1000Pa	1000Pa
	Ultimate Limit State Wind Pressure	1000Pa	1500Pa	1500Pa
	Water Penetration	150Pa	150Pa	150Pa
PARTIAL SHIELDING WIND THIS HOUSE	Wind Classification	N3	N3	N4
	Serviceability Design Wind Pressure	1000Pa	1000Pa	1500Pa
	Ultimate Limit State Wind Pressure	1500Pa	1500Pa	2300Pa
	Water Penetration	150Pa	150Pa	200Pa
NO SHIELDING THIS HOUSE	Wind Classification	N3	N4	N4
	Serviceability Design Wind Pressure	1000Pa	1500Pa	1500Pa
	Ultimate Limit State Wind Pressure	1500Pa	2300Pa	2300Pa
	Water Penetration	150Pa	200Pa	200Pa

TERRAIN CATEGORY 2 WIND RATING		TOPOGRAPHY			
		<u> </u>		T3	
FULL SHIELDING THIS HOUSE	Wind Classification	N3	N3	N4	
	Serviceability Design Wind Pressure	1000Pa	1000Pa	1500Pa	
	Ultimate Limit State Wind Pressure	1500Pa	1500Pa	2300Pa	
	Water Penetration	150Pa	150Pa	200Pa	
PARTIAL SHIELDING THIS HOUSE	Wind Classification	N3	N4	N4	
	Serviceability Design Wind Pressure	1000Pa	1500Pa	1500Pa	
	Ultimate Limit State Wind Pressure	1500Pa	2300Pa	2300Pa	
	Water Penetration	150Pa	200Pa	200Pa	
NO SHIELDING THIS HOUSE	Wind Classification	N3	N4	N5	
	Serviceability Design Wind Pressure	1000Pa	1500Pa	2200Pa	
	Ultimate Limit State Wind Pressure	1500Pa	2300Pa	3300Pa	
	Water Penetration	150Pa	200Pa	300Pa	

Note: every care has been taken in supplying this information. It is offered as and should only be accepted as a general reference guidance to the suitability of Laserlite Multiwall sheet to particular applications. It is not intended that it reflects in details, nor should it be assumed that it does reflects in detail an interpretation of the Australian Standards. PT. Impack Pratama strongly recommends contacting Standards Australia, or Local Council Authorities for specific applications.