CARPORT OR VERANDAH LINING WITH 6mm HARDIFLEX™, VERSILUX™ or VILLABOARD™ SHEET

AS 4055	Genei	al Areas of Bu	ilding	Within 1200mm of Building Edges			
Wind Load Classification	Batten Spacing (mm)	Fastener Spacing (mm)	ULS Capacity (kPa)	Batten Spacing (mm)	Fastene Spacing (n.m)	ULS Capacity (kPa)	
C2	450	200	2.14	450	14.2	2.90	
C3	450	200	2.14	300	151	4.27	
C 4	300	200	2.88	300	190	5.77	

SPECIFICATION

HARDIFLEX[™] / VERSILUX[™] / VILLABOARD[™] SHEET

6.0mm nominal thickness. Range of widths and lengths available. Final surface finish (coating, painting etc) shall be in accordance with James Hardie's "External Fixing Manual".

DESIGN

Lining sheets shall be fastened to the steel (or timber) frame in accordance with the batten and screw spacings tabulated above for the different wind conditions. The yind classifications are derived from AS 4055 of 1992 "Wind Loads For Housing" as in Table 1 below. Topographic classifications beyond T2 are unlikely to exist in Darwin (refer to Clause 10 o. 45 7.55).

In selecting the wind classification, the designer single first determine whether the structure is in topographic classification T1 or T2 (or other up to 15), the nature of shielding (i S full shielding, PS = partial shielding, NS = no shielding) and the applicable terrain category. The dissign wind speeds are given in Table 2.

Design classifications C2, C3 and C4 at limited to buildings with an cave, height of 6m. However, the proven capacity of each system is given in Design Table and may be used by designes for intermediate wind speeds or buildings outside the scope of AS 4055. An Ultimate Limit Stati material capacity reduction factor of $\phi = 0.8$ has already been apposed.

FASTENERS (refer) J.Hardie "External Fix g da lual")

HARDIDRIVE M self-embedding head drill point screws (or equivalent) shall be used for fastening to step fruming. For timber framing, use Ø 2.8mm fibre cement (F2) tails. Spacing of fasteners shall be as per Design Table 20 not fix fasteners closer than 12mm from sheet edges nor closer han 50mm from corners.

LINING SUPPORT FRAME (STEEL or TIMBER)

Battens shall be rolled steel sections not exceeding 1.6mm in thickness or timber sections of adequate capacity. The maximum batten spacing shall be as given in the Design Table.

TABLE 1 Wind Classification System for Region C, Darwin										
		Topogr	aphic	Classification						
Terrain Category		T1		T2						
•	FS	PS	NS	FS	PS	NS				
TC 2.5	C2	C2	C2	C2	C2	C3				
TC 2	C2	C2	C2	C2	C3	C3				
TC 1	C2	C2	C2	C2	С3	C3				

DESIGN & CONSTRUCT ON NOTES:

- [1] It has been as umed that HARDIFLEX[™], VERSILUX[™] or VILLABOARD[™] cheet is an external lining only. Internal pressures shall be resisted by internal linings. The James Hardie sheets are therefore surjected to only external pressure and suction loadings.
- [2] Sheets may be laid parallel to or across the battens. All long it din al sheet edges and joints must be supported by framing. VILI At OARD™ recessed edge joints are to be flush jointed as per Ji mes Hardie specification.
- [3] A transverse joint is one that crosses the direction of the battens and where sheef edges may be butt jointed, although the use of HARDIJOINTER strips (or equivalent) is recommended.

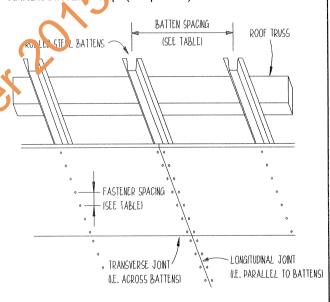


TABLE 2 Maximum Design Gust Wind Speed (V _h) at Height h								
Serviceability	Permissible	Ultimate						
Classification Limit State		Limit State						
in Region C (m/s)		(m/s)						
39	50	61						
47	60	74						
55	70	86						
	Design Gust Wir Serviceability Limit State (m/s) 39 47	Serviceability						



James Hardie Building Products

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Certified: F Date: F

F.I.E. AUST, C.P.Eng 8th January 1996 FIXING TO STEEL FRAMES
CARPORT & VERANDAH LINING IN THE DARWIN
AREA USING 6mm (nominal) HARDIFLEX[™],
VERSILUX[™] or VILLABOARD[™] SHEET

DESIGN DATA SHEET

NORTHERN TERRITORY DEPT OF LANDS & HOUSING BUILDING AUTHORITY BRANCH

DWG NO.

M203/11