

PRIMELINETM NEWPORT WEATHERBOARD 9mm THICK EXTERNAL WALL CLADDING

AS 4055	General Areas of Building			Within 1200mm of Building Edges				
Wind Load	Stud Spacing	ULS Capacity (kPa)		Stud Spacing		U. S Capacity (kPa)		
Classification	(mm)	On Steel	On Timber	(mm)		O. Steel	On Timber	
C2 & C3	450	5.8	4.3	450		5.8	4.3	
C4	450	5.8	4.3	300	>	5.8	5.8	

SPECIFICATION

PRIMELINE[™] NEWPORT WEATHERBOARD CLADDING

9mm nominal thickness. Matt smooth pre-primed surface finish. Available in 170mm width only. Stock length is 4200mm. Final surface finish (coating, painting etc) shall be in accordance with James Hardie's "External Fixing Manual".

DESIGN

The weatherboards shall be fastened to the steel frame in accordance with the stud spacings tal ulated above for the different wind conditions. The wind classifications are derived from AS 4057 of 1992 "Wind Loads for Housing" as in Table 1. Topogramic classifications beyond T2 are like, to be uncommon in Darwin (refer to Clause 10 of AS 4055).

In selecting the wind classification, the designer should first determine whether the structure is in topographic classification T1 or T2 (or other up to T5), the nature of shielding (FS = full shielding, PS = partial shielding, NS = no shielding) and the applicable terrain category. The design wind speeds are given in Table 2.

The proven capacity of each system is given in the Design Table and may be used by designers for internediate wind speeds or buildings outside the scope of AS 4055 an Ultimate Limit State r aterial capacity reduction factor is implicitly included. The capacity on timber framing is lower than on steel framing because of tendency for the nails o windraw from the timber.

WALL FRAME (STEEL)

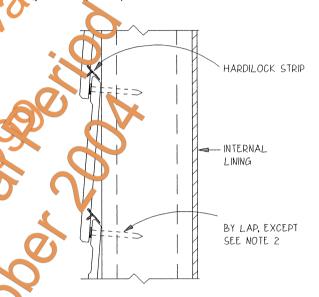
Studs shall be rolled steel sections not kneeding .6mm thickness. Maximum stud spacing chall be us in the Design Table.

FASTENERS (refer to James I. va.; La ernal Fixing Manual") HARDIDRIVETM self-embedding lead drill-point sere vs. (or equivalent) shall be used when fast ping to the stee, faming. Locate fasteners as shown in the diagram but never less than 12mm from top / between digital of light of the pack-fixed. ARDILOCKTM system may be used in the fixing of this product.

rABLE 1 Wind Classification System for Nation C, Darv						
	Topurraphic			Classification		
Terrai Category		1	>		72	
	FS	P	NS 4	F	PS	NS
TC 2.5	C 2	J 2	C2	CZ	СЗ	С3
TC 2	D2	C2	C2	C2_	СЗ	С3
TC 1	C2	C2	C.	C2	СЗ	С3

DESIGN & CONSTRUCTION NOTES

- [1] It has been as a med hat the weatherboard is an external wall cladding only. Internal pressures shall be resisted by internal linings. The weath ritinal cladding is therefore subjected to external pressure and suction loadings only.
- [2] If the permissible stress racking capacity of 1.6kN/m (refer to DTC Shee No.M203/5) is to be claimed, then there should be two fasteners per plank per stud, ie the screw shown in the diagram on ulc pass through both planks.



TIMBER FRAMED CONSTRUCTION

The same stud spacing designs may be applied equally using 40mm long \varnothing 2.8mm fibre-cement (FC) nails. Do not use stud clips for wind classifications beyond C2. The permissible stress racking capacity is then 1.4kN/m provided that cyclone rods are used.

TABLE 2 Maximum Design Gust Wind Speed (V _h) at Height h						
Wind	Serviceability	riceability Permissible				
Classification	Limit State	Stress Method	Limit State			
in Region C	(m/s)	(m/s)	(m/s)			
C2	39	50	61			
С3	47	60	74			
C4	55	70	86			

FIXING TO STEEL FRAMES

PRIMELINETM NEWPORT WEATHERBOARD

9mm (nominal) EXTERNAL WALL CLADDING

IN THE DARWIN AREA



James Hardie Australia Pty Ltd

ACN 084 635 558

1 Grand Avenue, Camellia NSW 2142, Australia Telephone (02) 9638-9999

Visit our internet web site: www.jameshardie.com.au

DESIGN DATA SHEET

NORTHERN TERRITORY DEPT OF LANDS, PLANNING & ENVIRONMENT BUILDING ADVISORY SERVICES BRANCH

DWG NO.

M/226/1

McMILLAN BRITTON & KELL PTY LIMITED

ACN 001 145 035

12-18 Tryon Road, Lindfield NSW 2070, Australia

Certified:

F.I.E. AUST, C.P.Eng

Date:

30th July 1999

Approved: 8

Date: