PRIMELINE™ CHAMFER WEATHERBOARD 9mm THICK EXTERNAL WALL CLADDING

AS 4055	General Area	as of Building	Within 1200mm of Building Edges			
Wind Load Classification	Stud Spacing (mm)	ULS Capacity (kPa)	Stud Spacing (mm)	ULS Capacity (kPa)		
C2	450	2.9	450	2.9		
C3 & C4	450	2.9	300	5.8		

SPECIFICATION

PRIMELINE™ CHAMFER WEATHERBOARD CLADDING

9mm nominal thickness. Matt smooth pre-primed surface finish. Available in 295mm width only. Stock length is 4200mm. Final surface finish (coating, painting etc) shall be in accordance with James Hardie's "External Cladding Range Fixing Manual".

DESIGN

The weatherboards shall be fastened to the steel frame in accordance with the stud spacings tabulated above for the different wind conditions. The wind classifications are derived from AS 4055 of 1992 "Wind Loads for Housing" as in Table 1. Topographic classifications beyond 12 are likely to be uncommon in Darwin (refer to Clause 10 of AC 405.1.

In selecting the wind classification, the designer should first determine whether the structure is in topographic classification Thor 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 wand speeds are given in Table 2.

The proven callacity of each system is given in the Design Table and may be used by designers for intern policie wind speeds or buildings cutcide the scope of AS 4055. An Ultimate Limit State material capacity reduction factor is mpicitly included.

WALL FRAME (STEEL)

Studs shall be rolled steel sections not exceeding 16 m thickness. Maximum st. d sr acing shall be as in the Decign Table.

FASTENERS (refer to J Hardie "External Nigno Manual")
HARDIDRIVETM self-embedding head dring ont screws shall be used when fastening to the steel framing screw head much with plank surface. Locate fasteners a clown in the diagram, but never less than 12mm from top / botton edges of plant

TIMBER FRAMED CONSTRUCTION

The same stud spacing designs may be applied equally using 40mm long Ø 2.8mm fibre-ceme it (i C) nails.

TABLE :								
Wind Classification	Sy, te	r/Tor l	Regior	C (19	Darwi	in) //		
	Tο	ograp	hic) i	assifica	a ion		
Terrain 👝		T1			72			
Category								
	E	PS	1.5	FS	P	NS		
TC 2.5	C2	C/	C2	C2	73	C3		
TC 2	C2	C≥	C2	C2	S	C3		
TC 1	C2	C2	C2	72	C3	C3		

DESIGN & CONSTRUCTION NOTES

[1] It has been assumed that the weatherboard is an external wall cladding only. In rna pressures shall be resisted by internal linings. The weatherboard cladding is therefore subjected to external pressure and suction loadings only.

[2] Stud cups are not available for this product.

The permissible stress racking capacity for steel framing is 1.6kN/m (see DTC Sheet No.M203/5). For timber framing it is also 1.6kN in proving a that cyclone rods are used.

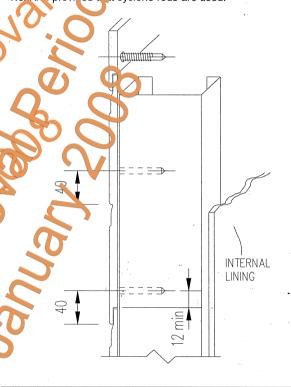


TABLE 2 Maximum Design Gust Wind Speed (V _h) at Height h							
Wind	Serviceability	Permissible	Ultimate				
Classification	Limit State	Stress Method	Limit State				
in Region C	(m/s).	(m/s)	(m/s)				
C2	39	50	61				
C3	47	60	74				
C4	55	70	86				



Date:

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M.I.E. AUST, C.P.Eng Certified: 3rd October 2001

Approved: Date:

NORTHERN TERRITORY DEPT OF INFRA-

STRUCTURE, PLANNING & ENVIRONMENT,

BUILDING ADVISORY SERVICES BRANCH

FIXING TO STEEL FRAMES: PRIMELINE™ **CHAMFER WEATHERBOARD 9mm (nominal) EXTERNAL WALL CLADDING IN THE DARWIN AREA**

DESIGN DATA SHEET

M/221/3