APPROVED BY BAC FOR INCLUSION IN THE DEEMED TO COMPLY MANUAL 24/12/96

PRIMELINE™ HERITAGE WEATHERBOARD
9MM THICK EXTERNAL WALL CLADDING

AS 4055	General Areas of Building		Within 1200mm of Building Edges	
Wind Load Classification	Stud Spacing (mm)	ULS Capacity (kPa)	Stud Spacing (mm)	ULS Capacity (kPa)
C2	450	2.90	450	2.90
C3	450	2.90	300	5.77
C4	450	2.90	300	5.77

SPECIFICATION

PRIMELINE™ HERITAGE WEATHERBOARD CLADDING

9mm nominal thickness. Matt smooth, pre-primed surface finish. Available in width of 300mm only. The stock length is 4200mm. Final surface finish (coating, painting etc) shall be as per James Hardie's "External 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 T2 are likely 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 Design Table and may be used by designers for intermediate wind speeds or buildings outside the scope of AS 4055. An Ultimate Limit State material capacity reduction factor of $\phi = 0.8$ has already been applied.

WALL FRAME (STEEL)

Studs shall be rolled steel sections not exceeding 1.6mm in thickness. Maximum stud spacing shall be as in the Design Table.

FASTENERS (refer to J Hardie "External Fixing Manual")

HARDIDRIVE™ self-embedding hexagonal-point screws (or equivalent) shall be used when fastening to steel framing. There shall be two fasteners per plank per stud, located as shown in the diagram, but never less than 12mm from top and bottom edges.

TIMBER FRAMED CONSTRUCTION:

The same stud spacing design may be applied equally using 40mm long ∅ 2.8mm fibre cement (FC) nails.

DESIGN & CONSTRUCTION NOTES

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

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

[3] The permissible stress design racking capacity is 1.25kN/m.

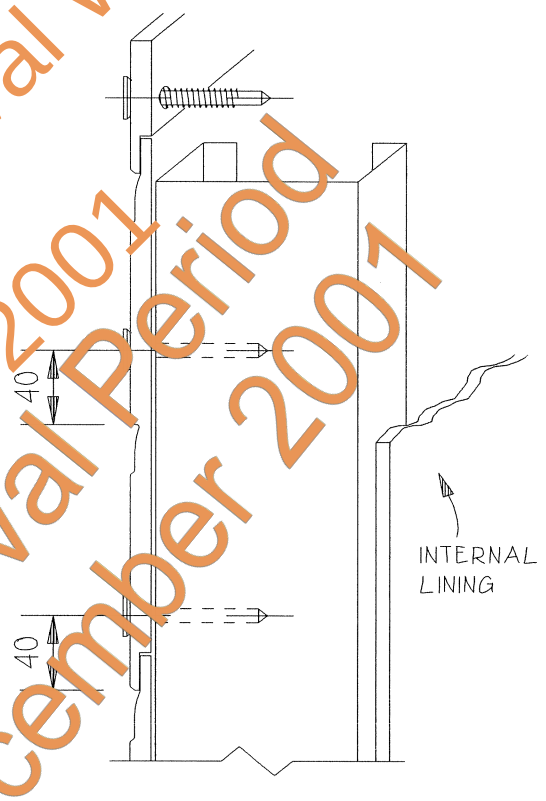

TABLE 1
Wind Classification System for Region C, Darwin

Terrain Category	Topographic Classification T1			T2		
	FS	PS	NS	FS	PS	NS
TC 2.5	C2	C2	C2	C2	C2	C3
TC 2	C2	C2	C2	C2	C2	C3
TC 1	C2	C2	C2	C2	C3	C3

TABLE 2
Maximum Design Gust Wind Speed (V_h) at Height h

Wind Classification in Region C	Serviceability Limit State (m/s)	Permissible Stress Method (m/s)	Ultimate Limit State (m/s)
C2	39	50	61
C3	47	60	74
C4	55	70	86

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

DESIGN DATA SHEET

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Certified: .....
Date: F.I.E. AUST, C.P.Eng 14th November 1996

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

Approved: .....
Date: 12/12/96

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