Approved for inclusion in DEEMED TO COMPLY by BUILDING ADVISORY COMMITTEE



This data sheet must be read in conjunction with current James Hardie literature for Linea® Weatherboard.

LINEA® WEATHERBOARD CLADDING

16mm nominal thickness. Pre-primed surface finish. Available in 150mm and 180mm widths. Stock length is 4200mm. The effective cover for the 150mm and 180mm boards is approximately 120mm and 150mm respectively.

LINEA® WEATHERBOARD TRIM

16mm nominal thickness. Used as decorative external trim around openings and at comers. Pre-primed surface finish. Available in 84mm and 100mm widths. Stock length is 2400mm.

The weatherboards shall be fastened to the steel frame in accordance with the stud spacings in Table 1 for the different wind conditions. The wind classifications are derived from AS 4055 of 1992 "Wind Loads for Housing" as in Table 2. Topographic classifications beyond T2 are likely to be uncommon in Darwin (refer to Clause 10 of AS 4055).

In selecting wind classification, the design should first determine whether the structure is in topographic classification T1 or T2 (or other up to T5), the nature of shielding (FS = rull shielding, PS = ranks) shielding, NS = no shielding) and the applicable terrain category design wind speeds are given in Table 3.

The proven capacity of the system is 4.3kPa for atuds at 450mm spacing and 5.8kPa for atuds at 300mm. This may be used by designers for intermediate wind speeds or buildings of tside the scope of AS 4055. An Ultimate Limit State (ULS) material capacity reduction factor is implicitly included.

LIMITATIONS OF USE

It has been assumed that the weather board is an external wall relaining only and hence internal linings mis report internal pressures. weatherboard cladding is therefore subjected to external pressu suction loadings only.

The design must comply with the geometry limits given a clau e 6 of AS 4055 (eg max eaves height = 5m and max huilding with = 16m), except as varied by the design engineer.

TABLE 1 Stul Staring to Support Live. Weatherboards

Wind Lac Classific tion	General Areas Of Buil ling	Wy hin 12,0mm of Buyling Edges		
C2 & C3	50mm	450mm		
C4	450mm	300mm		

Wind Classification System for Region C, Darwin or graphic Classification Terrain

TABL

Category	1	11		12		
	FS	PS	NS	FS	PS	NS
TC 2.5	C2	C2	C2	C2	C2	С3
TC 2	C2	C2	C2	C2 -	, C3	СЗ
TC 1	C2	C2	C2	C2	C3	СЗ

WALL FRAME (STEEL)

The wall frame must be in accordance with AS 3623 "Domestic Metal Framing". Studs shall be rolled steel sections not exceeding 1.6mm in thickness. A minimum stud width of 35mm is required. Maximum stud spacing shall be as in Table 1.

SPECIAL FRAMING REQUIREMENTS

[1] Additional framing may be required at internal corners and sides of openings (refer to details in current intrature).

[2] Extra depth lintels may be reseasely for fixing of head flashing and trim. Lintels must be located in the frame, flush externally, to adequately support the head flashing and trim.

[3] Extra packers are needed at external corners for use with Linea Weatherboard him boxed corners.

FIXING (refer : James Hardie "Technical Specification")

Linea Weatherboard may be fixed using the concealed-fix method where by the board is fastened 25mm below the top edge and the fixing than concealed under the nominal 30mm lap by the board placed over the top (see Figure 2). For this method of fixing, use 40mm TRI-FIXX Steeltite 8-18 wing-tip, sharpened tip screw or 30mm ITW Buildex 'Fibre Zip' (or 'Batten Zip') screw. Alternatively, the 32mm HARDIDRIVE' self-embedding head screw hay be used with 1.6mm gauge studs only.

Face fixing through the lap of two boards is required in bracing applications and when we site conditions create undue gaps between boards at laps (see Figure 3). In this case use 52mm long special wing screw by TDI-FIXX.

Locate test eners as shown in Figure 1, but never less than 15mm from to botton edges of weatherboard. The minimum edge distance at the ends of the boards is 15mm, except for gun nailing, when it is 50mm.

Fasteners must have the appropriate level of durability required for the ntended building. Also, they must be compatible with all other materials triat they are in contact with to ensure the durability and integrity of the assemt ly.

MOISTURE MANAGEMENT

A propriate flashings and waterproofing must be used where necessary. Materials, components and their installation that are used to manage mo sture in framed wall construction must, at a minimum, comply with the requirements of relevant standards and the Building Code of Australia (BCA).

VAPOUR PERMEABLE SARKING

Vapour permeable sarking must be installed under Linea Weatherboard in accordance with AS/NZS 4200.2 "Pliable building membranes and underlays - Installation" and the manufacturer's specifications. Sarking must have the following properties against AS/NZS 4200.1:

Vapour Barrier - Low or Medium

Water Barrier - High

TABLE 3 Maximum Design Gust Wind Speed (Vh) at Height h Ultimate Wind Serviceability Permissible Limit State Classification in Limit State Stress Method Region C (m/s) (m/s) (m/s)50 61 C2 39 C3 47 60 74

55



James Hardie Australia Pty Limited

ACN 084 635 558 10 Colguhoun Street, Rosehill NSW 2142 Telephone 13 11 03 www.jameshardie.com.au

LINEA® WEATHERBOARD

C4

16mm PRE-PRIMED EXTERNAL WALL CLADDING

Sheet 1 of 3

86

ABN 95 001 145 035

Certified: Date: 22/1
DAVID BENEKE M.I.E. Aust, CP Eng 62658 Date: 22/11/05 **DESIGN DATA SHEET** CONCURRENCE 29.3. OF M229// CONCURRENCE DATE DE DRAWING NUMBER.

70