for

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WEATHERBOARD™ 7.5mm EXTERNAL WALL CLADDING

| AS 4055 | General Area | s 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 | |
| C 4 | 450 | 2.90 | 300 | 5.77 | |

SPECIFICATION

WEATHERBOARD™ CLADDING

7.5mm nominal thickness 'Rusticated' or 'Old Style' surface finish. Available in widths of 170mm and 205mm. Stock length is 4200mm. Final surface finish (coating, painting etc) shall be in accordance with James Hardie's "External Fixing Manual".

DESIGN

WEATHERBOARD™ 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 a uncommon in Darwin (refer to Clause 10 of AS 4055).

In selecting the wind classification, the designer chould first determine whether the structure is in topographic class fica on T1 or T2 (or other up to T3), the nature of shielding (FS = 10 s, elding, PS = partial shielding, T3 = no shielding) and the opplicable terrain category. The design wind speeds are given in Table 2.

The propen capacity of each system is given in the Design Table and may be used by designers for intermedial wind speeds or building; outside the scope of AS 4055. In the material capacity reduction factor of $\phi = 0$. The already been applied.

WALL FRAME (STEEL)

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

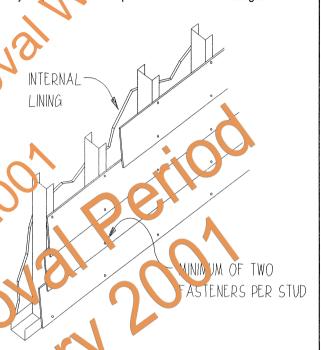
FASTENERS (refer to J Hard'e 'Externa' Fi, ing Manual") HARDIDRIVE™ self-er i eddin hard d'ill-boint screws HARDIDRIVETM self-e, bedding the cill-point screws (or equivalent) shall be used when the bening its steel framing. Taken through both thickn, sse of , lank, two facteners per plank per stud. Locate faster is no ess than 12mm from top both in types of plank. Afformativery, in rdie's STUD CLI is may be used in steel frame only. Fas en stud clips to steel studies using a soft Ø5mm hex head leks rews r similar. One stud clip er plank per stud.

| T BLE 1 Wind Classification System for Region C, Larw 1 | | | | | | | | | |
|---|----|--------------|----|----------------|----|----|--|--|--|
| | | Topo, rapino | | Classifica ion | | | | | |
| Terrain Category | | Τ1 | | 7 | T2 | | | | |
| | | PS | NS | IS | PS | NS | | | |
| TC 2.5 | C2 | C2 | C2 | C. | C2 | C3 | | | |
| LC 5 | C2 | Q 2 | 32 | (2 | С3 | C3 | | | |
| TC 1 | C2 | 2 | CO | .2 | C3 | C2 | | | |

PLANK OVERLAP: 25mm ninimum recommended.

DESIGN & CONSTRUCTION NOTES

[1] It has been assemed that WEATHERBOARD™ plank is an external wall clader of only. Internal pressures shall be resisted by internal linings. The WEATHERBOARDTM cladding is therefore only subject at to external pressure and suction loadings.



TIMBET FR. MED ONSTRUCTION: The same stud spacing desig s r a b applied equally using 40mm long Ø 2.8mm fibrecen ent FC mails, but do not use stud clips for wind classifications neyor 1 CZ.

| 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) | | | | | |
| | | | | | | | | |
| C 2 | 39 | 50 | 61 | | | | | |
| C3 | 47 | 60 | 74 | | | | | |
| C 4 | 55 | 70 | 86 | | | | | |



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Certified: ...

F.I.E. AUST, C.P.Eng 8th January 1996

FIXING TO STEEL FRAMES
WEATHERBOARDTM 7.5 mm (nominal) EXTERNAL WALL CLADDING IN THE DARWIN AREA

DESIGN DATA SHEET

NORTHERN TERRITORY **DEPT OF LANDS & HOUSING BUILDING AUTHORITY BRANCH**

DWG NO.

Approved:

M203/9

Date: