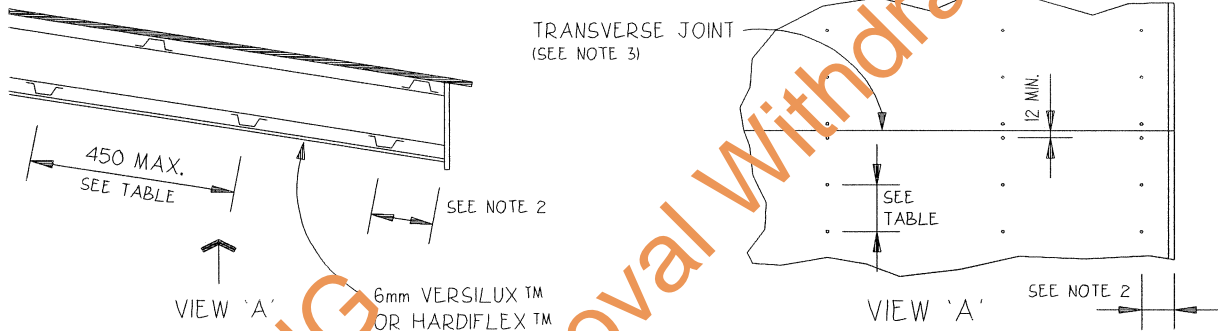


EAVES (SOFFIT) LINING WITH 6mm HARDIFLEX™ or VERSILUX™ SHEET

AS 4055	General Areas of Building			Within 1200mm of Building Edges		
Wind Load Classification	Batten Spacing (mm)	Fastener Spacing (mm)	ULS Capacity (kPa)	Batten Spacing (mm)	Fastener Spacing (mm)	ULS Capacity (kPa)
C2	450	200	2.14	450	150	2.90
C3	450	200	2.14	300	150	4.27
C4	300	200	2.88	300	150	5.77



SPECIFICATION HARDIFLEX™ / VERSILUX™ SHEET

Either of these products of 6.0mm nominal thickness may be used in this application. A range of widths and lengths are available. Final surface finish (coating, painting etc) shall be in accordance with James Hardie's "External Fixing Manual".

DESIGN

Eaves sheets shall be fastened to the steel frame in accordance with the batten and screw 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 below. Topographic classifications beyond T2 are unlikely to exist 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.

Design classifications C2, C3 and C4 are limited to buildings with an eaves height of 6m. However, 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.

EAVES LINING FRAME (STEEL or TIMBER)

Battens shall be rolled steel sections not exceeding 1.6mm in thickness, or timber sections of adequate capacity. See Note [2].

FASTENERS (refer also to James Hardie fixing manuals)

HARDIDRIVE™ self-embedding head drill-point screws (or equivalent) shall be used for fastening to steel framing. For timber framing, use \varnothing 2.8mm fibre-cement (FC) nails. Spacing of fasteners shall be as per Design Table. Do not fix fasteners closer than 12mm from sheet edges nor closer than 50mm from corners.

DESIGN & CONSTRUCTION NOTES

- [1] It has been assumed that HARDIFLEX™ or VERSILUX™ sheet is an external lining only. Internal pressures shall be resisted by internal linings. The HARDIFLEX™ or VERSILUX™ cladding is therefore subjected to only external pressure and suction loadings.
- [2] In the absence of a grooved fascia board, provide the first batten within 150mm of the fascia. If fascia groove used to provide support, then maximum span to first batten shall be 300mm in all cases. Maximum batten spacing thereafter as per Design Table.
- [3] All longitudinal sheet edges (other than cantilever ends of 150mm permitted against walls or non-grooved fascia) and joints must be supported by the framing. HARDIJOINTER™ strips should be used to support transverse sheet edges in preference to butt joints.

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	C3	C3
TC 1	C2	C2	C2	C2	C3	C3

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

**FIXING TO STEEL FRAMES
EAVES (SOFFIT) LINING WITH 6.0 mm (nominal)
HARDIFLEX™ or VERSILUX™ SHEET
IN THE DARWIN AREA**

DESIGN DATA SHEET

NORTHERN TERRITORY
DEPT OF LANDS & HOUSING
BUILDING AUTHORITY BRANCH

DWG NO.

Approved:
Date: 11/1/96

M203/10

Approved for inclusion in DEEMED TO COMPLY by BUILDING ADVISORY COMMITTEE

Date 12/1/96