6.0 mm HARDIFLEX II one side – Design Bracing Strength 2.9 kN/m

Construction Specification

It is recommended that the timber frame be fully sarked with foil backed building paper before fixing Hardiflex II cladding.

NAILING

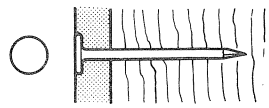
Hardiflex II installed vertically as cladding should be fixed to timber framed bracing walls with:

2.0 mm Fibre Cement Nails (galvanised).

30 mm long for softwoods.

25 mm long for hardwoods.

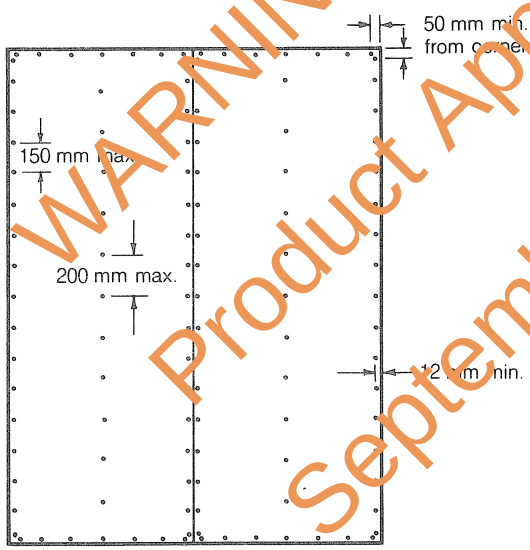
Nails may be driven flush with the surface of 6 mm sheets.



The nails shall be spaced at 150 mm centres around the edge of all sheets and at 200 mm centres along intermediate studs.

Nails should be a minimum of 12 mm from the edge and 50 mm from the corner of the sheets.

CLADDING (900 and 1200 mm wide)



Hardiflex II — Sheets fixed Vertically

ANCHOR RODS

Anchor rods are 12 mm dia. full length mild steel rods tying the wall top plate through the frame cavity to the sub-structure.

A standard 38 mm dia. flat round washer must be used under each nut except on a 5.5 kN/m wall using a softwood frame where a 38 mm square x 3 mm thick washer must be used.

ANCHOR BOLTS

Anchor bolts are 10 mm dia. and are for tying the wall's bottom plate to the sub-structure.

A standard 32 mm dia. flat round washer must be used under each nut except where tie-down straps are used.

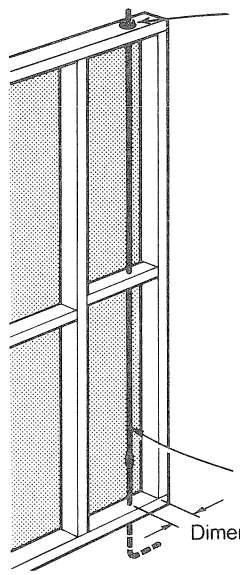
SPACING OF ANCHOR RODS AND BOLTS For Structural Wall Bracing

Anchor rods must be installed in accordance with building regulations or as determined by a structural engineer and must be placed at both ends of each section of bracing wall and at not more than 2.4 m centres.

Anchor rods must be located within 'Dimension A' of the adjacent face of the end studs as shown.

Between anchor rods one M 10 bolt shall be provided at a maximum of 1.2 m centres to further fix the bottom plate to the sub-structure.

Bracing Resistance kN/m	Maximum 'Dimension A' with Top and Bottom Plate of		
	75 x 50 F11	70 x 45 F5	70 x 35 F5
5.5	—	—	—
4.5	—	—	—
3.5	—	—	—
3.0	150	75	50
2.5	180	90	50
2.0	220	110	60
1.5 or less	300	150	80



38 mm square x 3 mm thick washer on nominal 5.5kN/m double sided wall on softwood frame.

38 mm dia. washer on all other bracing walls.

Notes:
Test frames of nominal 2400 mm height were constructed from 70 x 45 mm seasoned radiata pine plates and studs (Stress Grade F5)

Studs were butted to plates and each end nailed with 75 x 3.15 mm plain shank nails.

Frames where tested without noggings.

70 x 35 mm dressed seasoned softwood is acceptable for studs for all wall racking strengths and for plates for walls of racking strengths of 3 kN/m and under.

MANUFACTURER
James Hardie & Coy Pty Limited

FIXING OF 6.0 mm HARDIFLEX II FOR THE STRUCTURAL BRACING OF EXTERNAL WALLS

DESIGN DATA SHEET

CERTIFIED ..... M.I.E. Aust.

DATE 7/10/87

NORTHERN TERRITORY CYCLONIC AREAS

APPROVED 11/3/88

M/203/2