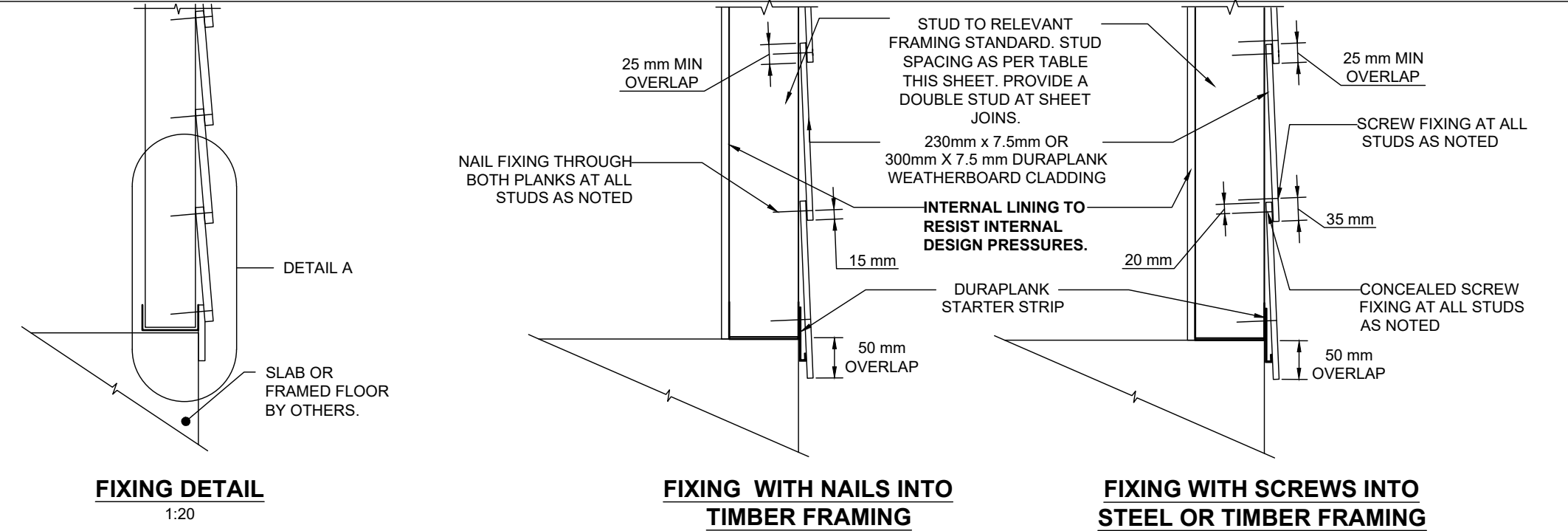


NORTHERN TERRITORY DEEMED TO COMPLY MANUAL - National Construction Code (NCC) Volume 2

This product has been determined to satisfy NCC Performance Requirement H1P1 for structural resistance of materials and forms of construction in high wind areas



DURAPLANK™ WEATHERBOARD WALL CLADDING TABLE				
WIND CLASS	ULTIMATE LIMIT STATE EXTERNAL PRESSURE (kPa)		MAXIMUM STUD SPACING (mm)	
	WITHIN 1200mm OF CORNERS	ELSEWHERE ON THE BUILDING	WITHIN 1200mm OF CORNERS	ELSEWHERE ON THE BUILDING
N4	-2.90	-1.45, +1.56	450	450
N5	-4.27	-2.14, +2.30	300	450
N6*	-5.77	-2.88, +3.11	250*	300*
C1	-1.95	-0.98, +1.05	450	450
C2	-2.90	-1.45, +1.56	450	450
C3	-4.27	-2.14, +2.30	300	450
C4*	-5.77	-2.88, +3.11	250*	300*

TESTS CONDUCTED		
ULTIMATE PRESSURE (kPa)	STUD SPACING (mm)	FASTENER TYPE
2.90	450	NAIL FIXING AS NOTED
4.81	300	CONCEALED + FACE SCREW FIXING AS NOTED

*Screwed fixing only for Regions N6 & C4, nailed fixing not permitted in these regions under this DTC.

CONSTRUCTION NOTES:

1. 230 mm x 7.5 mm OR 300 mm x 7.5 mm DURAPLANK™ WEATHERBOARD CLADDING INSTALLED ON DOMESTIC HOUSING WITH MAXIMUM BUILDING DIMENSIONS AND LAYOUT AS PER AS4055:2021 (Amdt 1) - WIND LOADS FOR HOUSING. PROVIDE A DOUBLE STUD AT PLANK JOINS. PLANK JOINS AND ENDS OF PLANKS TO BE FIXED ON-STUD FOR ALL WIND CASES. STUD SPACING AS PER TABLE THIS SHEET.
2. FIX TO **STEEL WALL FRAMING** AS PER THE ABOVE TABLE AND THE BELOW NOTES:

• STEEL WALL FRAMES TO BE CONSTRUCTED IN ACCORDANCE WITH THE NATIONAL ASSOCIATION OF STEEL FRAMED HOUSING STANDARD - DESIGN OF RESIDENTIAL AND LOW-RISE HOUSING, NASH:2009 & NASH PART 1:2005 (Incl. Amdt A, B, C).

• ALL STEEL WALL FRAME MEMBERS TO BE IN ACCORDANCE WITH AS4600:2018 WITH MINIMUM THICKNESS TO BE 0.75mm. (MINIMUM GRADE G550).

• FIXINGS INTO STEEL TO BE No. 10-16 x 50mm COUNTERSUNK WINGTEKS.

• FIXINGS ARE NOT TO BE OVER-DRIVEN INTO FIBRE CEMENT SHEETING, AND ANY OVER-DRIVEN FIXINGS ARE TO BE REPLACED.

• WHEN INSTALLING CLADDING OVER INSULATION, INCREASE THE SCREW LENGTH TO ENSURE A MINIMUM OF TWO THREADS PROTRUDE THROUGH THE FAR SIDE OF THE SUPPORT.

• ALL FIXINGS TO BE CLASS 4 FINISH.
3. FIX TO **TIMBER WALL FRAMING** AS PER THE ABOVE TABLE AND THE BELOW NOTES:

• ALL TIMBER WALL FRAME MEMBERS TO BE IN ACCORDANCE WITH AS1684.3:2021 WITH MINIMUM GRADE MGP10

• NAIL FIXINGS INTO TIMBER TO BE 2.8 x 65mm GALVANISED FLAT HEAD FIBRE-CEMENT NAILS.(CANNOT BE USED IN WIND CLASS N6 OR C4)

• SCREW FIXINGS INTO TIMBER TO BE 10 GAUGE x 50mm LONG COUNTERSUNK GALVANISED TYPE 17 TIMBER SCREWS.

• FIXINGS ARE NOT TO BE OVER-DRIVEN INTO FIBRE CEMENT SHEETING, AND ANY OVER-DRIVEN FIXINGS ARE TO BE REPLACED.

• WHEN INSTALLING CLADDING OVER INSULATION, INCREASE THE FIXING LENGTH TO ENSURE A MINIMUM EMBEDMENT OF 40 mm INTO STUD

• ALL FIXINGS TO BE CLASS 4 FINISH.

Notes covering basis of DTC (Relevant test reports etc) • TABLES ARE BASED ON A TEST PROGRAM TO AS4040.3:2018 CLAUSE 6, CARRIED OUT BY JAMES COOK UNIVERSITY TESTING STATION IN MARCH 2024 (TS1135). • ADDITIONAL TESTING WAS CARRIED OUT REGARDING THE PROPERTIES OF DURAPLANK™ WEATHERBOARD, BY BRANZ IN JUNE 2024 (DC18444-002-1). • THE NEGATIVE ULS PRESSURES ARE DEEMED TO GOVERN, DUE TO THE ASSOCIATED CRITICAL FAILURE MECHANISMS	Checking Engineer Name: ALAN DOWLING Registration Number: NER 3251796 Date: 27/03/2025 Signature: Must be an Australian registered structural engineer	Certifying Engineer Name: HON YAN WOO NT Registration Number: 47589ES Date: 26/03/2025 Signature: Must be a registered structural engineer in the Northern Territory
	Accepted for inclusion in Deemed to Comply Manual	
	DTCM drawing number: M/384/01	

Product Name
**230 mm x 7.5 mm OR 300 mm x 7.5 mm
DURAPLANK WEATHERBOARD CLADDING**

Product Description
**EXTERNAL WALL CLADDING TO
STEEL OR TIMBER FRAMING**

Manufacturer's Details
etex Inspiring ways of living
INNOVA Etex Australia Pty Ltd - Innova Fibre Cement
21/31 Military Rd, Matraville NSW 2036

- Design Criteria
1. WIND CLASSES N4 TO N6 AND C1 TO C4 AS OUTLINED IN AS4055-2021 WIND LOADS FOR HOUSING (AMDT 1).
2. A MATERIAL CAPACITY REDUCTION FACTOR OF 0.8 HAS BEEN USED FOR ALL PROOF TESTING BY BRANZ AND CYCLONE STRUCTURAL TESTING STATION.
3. FIBRE CEMENT SHEETS HAVE BEEN MANUFACTURED IN ACCORDANCE WITH AS/NZS 2908.2:2000 CELLULOSE CEMENT PRODUCTS PART 2: FLAT SHEETS OR ISO 8336:2017 FIBRE CEMENT FLAT SHEETS - PRODUCT SPECIFICATION AND TEST METHODS.
4. THE FOLLOWING STANDARDS APPLY TO THIS DESIGN:

AS/NZS1170.0:2002 (Amdt 1,2,3,4,5)

AS4040.0:1992 (R2016)

AS/NZS1170.1:2002 (Amdt 1,2 & R2016)

AS4040.1:1992 (R2016),

AS4055:2021 (Amdt 1)

AS4040.3:2018

AS1684.3:2021

AS4100:2020 (Amdt 1)

AS1720.1:2010 (Amdt 1,2,3)

AS/NZS4600:2018

- Limitations
1. CLADDING TO BE WEATHER-PROOFED TO MANUFACTURERS SPECIFICATIONS.
2. DOMESTIC HOUSING WITH MAXIMUM BUILDING DIMENSIONS AND LAYOUT AS PER AS4055:2021(Amdt 1) - WIND LOADS FOR HOUSING.
3. STUD CAPACITY MAY BE LIMITING, AND IS TO BE CHECKED SEPARATELY BY A QUALIFIED ENGINEER. THE VALUES PRESENTED IN THIS DRAWINGS ARE THE MAXIMUM STUD SPACINGS REQUIRED TO SUPPORT THIS CLADDING.
4. DURAPLANK™ IS AN EXTERNAL WALL CLADDING SUBJECT TO ONLY EXTERNAL PRESSURE AND SUCTION LOADINGS. **INTERNAL LININGS COMPETENT TO RESIST INTERNAL DESIGN PRESSURES MUST BE INSTALLED.**
5. THE RACKING STRENGTH HAS NOT BEEN TESTED AND THEREFORE SHOULD NOT BE ALLOWED FOR IN THE DESIGN OF A STRUCTURE.
6. TESTING WAS CONDUCTED FOR NEGATIVE (SUCTION) PRESSURES ONLY. COMPARISON HAS ONLY BEEN MADE BETWEEN THESE VALUES AND THE NEGATIVE ULS VALUES WHICH ARE DEEMED TO GOVERN.

Chairperson Signature:

Chairperson Name: Dr Elisha Harris

Date of Approval: 3/04/2025 Expiry Date: 3/04/2030