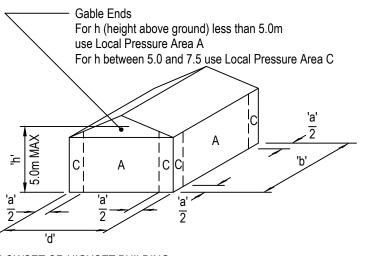
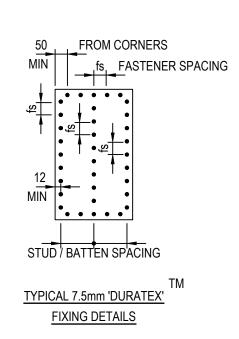
NORTHERN TERRITORY TO COMPLY MANUAL - National Construction Code Volume 2 (Section 3.0.4 Structural resistance of material in high wind areas) This product has been determined to satisfy NCC Performance Requirement P2.1.1 for structural stability and resistance.





LOWSET OR HIGHSET BUILDING Dimension 'a' is minimum 0.2 x 'b', 0.2 x 'd' or 'h'

LOCAL PRESSURE AREAS

A - general areas greater than $\frac{a}{2}$ away from building corners (k_L = 1.5)

C - up to $\frac{a}{2}$ from building corners (k_L = 2.0)

k₁ - local pressure zone factor applied to wind speed

WALL CLADDING REQUIREMENTS							
TERRAIN CATEGORY	LOCAL PRESSURE AREA	ULTIMATE LIMIT STATE PRESSURE (kPa)	STUD/BATTEN SPACING (mm)	FASTENER SPACING (mm)	TESTED CAPACITY PRESSURE (kPa)		
1	А	-3.10, +3.34	300	150	-4.27		
	С	-4.13	300	150	-4.27		
2	А	-2.33, +2.51	450	150	-2.90		
	С	-3.10	300	150	-4.27		
2.5	А	-2.13, +2.29	450	200	-2.19		
	С	-2.84	450	150	-2.90		
3 & 4	А	-1.94, +2.08	450	200	-2.19		
	С	-2.58	450	150	-2.90		

CONSTRUCTION NOTES

'Duratex'™ shall be fastened to a steel sub-frame in accordance with the cladding spans and fastener spacings tabulated above. Fasteners shall be fixed a minimum of 12mm from sheet edges and a minimum of 50mm from sheet corners.

All sheet edges and sheet joints must be supported on steel framing.

Fasteners to steel supports from 0.75mm mm B.M.T. to 1.6mm B.M.T. shall be 'Buildex' or similar M5x20 Countersunk Ribbed Head self-drilling screws. For fixing 'Duratex' to built-in mullions in steel stud walls up to 3.0mm thick use 'Buildex' WingTeks 10-16 CSK RIB.

			DTCM drawi
Notes covering basis of DTC (Relevant Test reports etc)	Checking Engineer	Certifying Engineer	Chairperson
Tables are based on a test program to AS 4040.3:1992 clause 6, carried out by James Cook University Cyclone Testing Station in	Name: Adam James	Name: Peter Standen	
July 1998 (Test Report No TS514).	Registration Number: 26968ES	NT Registration Number: 289952ES	
We confirm AS 4040.3:1992 is equivalent to AS 4040.3:2018.	Date: 20/05/2021	Date: 12/05/2021	Chairperson
The negative ULS pressures are deemed to govern, due to the associated critical failure mechanism.	Signature:	Signiture:	Date of Appr
	Must be an Australian registered structural engineer	Must be a registered structural engineer in the Northern Territory	

Product Description

Manufacturer's Details 21/31 Military Rd, Matraville NSW 2036

Design Criteria

Limit State design pressures were determined in accordance with AS/NZS 1170.2:2011(including amendment No 1, 2, 3, 4 & 5) using shielding, topographic, combination, dynamic response, and structural importance multipliers equal to 1.0. Strength: regional wind speed: V500 = 69m/s Terrain/Height Multiplier (Mz cat):

TC	h ≤ 5m	
1	1.05	Cpe = +0.7,-0.65
2	0.91	
2.5	0.87	
3 & 4	0.83	

Limitations

- the lesser of b and d.

Product Name

7.5mm 'DURATEX'™ Fibre Cement Cladding

EXTERNAL WALL CLADDING

etex Inspiring ways Etex Australia Pty Ltd - Innova Fibre Cement

REGION 'C' WIND LOADING TO AS / NZS 1170.2:2011 (Including Amendment No 1, 2, 3, 4 & 5)

1. These tables only apply to fixing to steel supports minimum thickness of steel support to be 0.75mm.

2. External cladding to be painted to manufacturers specifications.

3. Wall panels to be 2700 max height.

4. Domestic housing up to 5 meters high ($h \le 5m$).

5. 7.5mm 'Duratex'[™] is an external cladding for the application of a

textured coating, and only subject to external pressure or suction. An internal lining competent to resist internal design pressure must be installed. The racking strength of 'Duratex'™ has not been tested and should not be allowed for in the design of a structure. 6. The building aspect ratio (r) of the structure to be ≤ 1 . If r > 1 further checks of additional local pressures to be carried out by a fully qualified structural engineer. r is defined as the average roof height divided by

7. A material capacity reduction factor of 0.8 was applied to the test capacity pressures nominated in the table to calculate the test pressures (Pt) used during the proof testing, which was carried out by

Cyclone Structural Testing Station (James Cook University).

Accepted for inclusion in Deemed to Comply Manual

ing number: M/260/01

Signature:



Name: Dr Elisha Harris

Expiry Date: 29/06/2026 oval: 3/04/2025