



TYPICAL 7.5mm 'DURATEX'TM FIXING DETAILS

LOWSET OR HIGHSET BUILDING

Dimension 'a' is minimum 0.7 x 'b', 0.2 x 'd' or 'h'

LOCAL PRESSURE AREAS

A - LPF 1.25 - general areas away from building corners (+ve)

B - LPF 1.5 - from $\frac{a}{2}$ to 'a' from building corners (-ve)

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

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 & 2	A - LPF 1.25	2.30	450	150	2.90
	B - LPF 1.5	-2.59	450	150	2.90
	C - LPF 2.0	-3.45	300	150	4.27
2.5	A - LPF 1.25	1.95	450	200	2.19
	B - LPF 1.5	-2.19	450	200	2.19
	C - LPF 2.0	-2.93	450	150	2.90
3.0	A - LPF 1.25	1.63	450	200	2.19
	B - LPF 1.5	-1.83	450	200	2.19
	C - LPF 2.0	-2.45	450	150	2.90

CONSTRUCTION NOTES

'Duratex'TM 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.

Exposed 'Duratex'TM shall not be fixed to steel frames with a typical basic metal thickness (BMT) greater than 1.6mm

The 'Duratex'TM to be fixed to 1.6mm BMT studs with 'Buildex' M5 Countersunk Ribbed Head screws
Fix to steel members > 1.6mm thick with 'Buildex' WingTeks 10-16 CSK RIB

Product Name
7.5mm 'DURATEX'TM Fibre Cement Cladding

Product Description
EXTERNAL WALL CLADDING

Manufacturer's Name
BCG Fibre Cement (Australia) Pty Ltd
121 Bannister Road Canning Vale WA 6155, Australia
Postal Address: PO Box 1408, Canning Vale WA 6970

Design Criteria
REGION 'C' WIND LOADING
TO AS / NZS 1170.2:2002

DESIGN NOTES
Limit State design pressures are determined in accordance with AS/NZS 1170.2:2002 using shielding, topographic and structural importance multipliers equal to 1.0.
A material reduction factor of 0.8 has been used for proof testing, which was carried out by The Cyclone Structural Testing Station, School of Engineering, James Cook University, Townsville.

Limitations

- These tables only apply to fixing to steel supports.
- BCG External cladding to be painted to BCG specifications.
- Internal pressures to be resisted by internal cladding and not 'Durasheet'
- Wall panels to be 2700 max height.
- Domestic housing up to 5 meters high (h=5m)
- 7.5mm 'Duratex'TM is an external cladding designed 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'TM has not been tested and should not be allowed for in the design of the structure.

Accepted for Inclusion

DTCM ref: **M/243/01**

Chairman's Signature:

Chairman's Name: **STEVEN J EHRlich**

Date of Approval: **16/12/10** Expiry Date: **16/12/13**

Test Reports
Cyclic pressure test carried out at JCU Cyclone Structural Testing Station.
Report TS514 dated 20/07/1998

**Design Engineers Certification
Name: **PHIL GARDINER**
NT Registration Number: **18235ES**
Date: **13, 12, 2010**
Signature:
**registered as a structural engineer in Northern Territory

**Certifying Engineers Certification
Name: **NEIL WILLIAM CLARKE**
NT Registration Number: **18235ES**
Date: **13, 12, 10**
Signature:
**registered as a structural engineer in Northern Territory

New Expiry Date: **16/12/15**
Signature: