



TYPICAL 6mm 'DURASHEET' FIXING DETAILS

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

LOCAL PRESSURE AREAS
A - general areas away from building corners (x 1.25) + ve
B - from 'a' to 'a' from building corners (x 1.5) - ve
C - from 'a' to 'a' from building corners (x 2.0) - ve

WALL CLADDING REQUIREMENTS (REGION C)					
TERRAIN CATEGORY	LOCAL PRESSURE AREA	ULTIMATE LIMIT STATE PRESSURE (kPa)	STUD/BATTEN SPACING (mm)	FASTENER SPACING (mm)	TESTED CAPACITY PRESSURE (kPa)
1 & 2	A	2.30	450	150	2.90
	B	-2.59	450	150	2.90
	C	-3.40	300	150	4.27
2.5	A	1.95	450	200	2.19
	B	-2.19	450	200	2.19
	C	-2.93	450	150	2.90
3.0	A	1.63	450	200	2.19
	B	-1.83	450	200	2.19
	C	-2.45	450	150	2.90

CONSTRUCTION NOTES
'Durasheet' shall be fastened to a steel subframe in accordance with the support and fastener spacings tabulated above. Fasteners shall be fixed 12mm minimum from sheet edges and 50mm minimum from sheet corners. All sheet edges and joints must be supported by steel framing. Fasteners to steel supports from 0.75mm B.M.T. to 1.6mm B.M.T. shall be 'Buildex' or similar M5 Countersunk Ribbed Head self-drilling screws. Exposed 'Durasheet' cladding must be painted. For fixing 'Durasheet' to built in mullions in steel stud walls up to 3.0mm thick use 'Buildex' WingTeks 10-16 CSK RIB

Product Name
6.0mm 'DURASHEET' 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 were determined in accordance with AS/NZS 1170.2:2002 using shielding, topographic and structural importance multipliers equal to 1.0. A material capacity reduction factor of 0.8 has been used for proof testing, which was carried out by Cyclone Structural Testing Station (James Cook University).

- 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)
 - 6mm 'Durasheet' is an external wall cladding subject only to external pressure and suction loadings. Internal linings competent to resist internal design pressures must be installed. The racking strength of Durasheet has not been tested and therefore should not be allowed for in the design of a structure.

Accepted for Inclusion

DTCM ref: **M/242/01**

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 TS486 dated 19/05/1997

****Design Engineers Certification**
Name: **PHIL GARDINER**
NT Registration Number: **18235ES**
Date: **13/12/2010**
Signature:
Irwinconsult
82 Smith Street Darwin 0900
t +61 8 8980 5900 f +61 8 8981 4010
dwm@irwinconsult.com.au ABN 89 050 214 894

****Certifying Engineers Certification**
Name: **NEIL WILLIAM CLARKE**
NT Registration Number: **18235ES**
Date: **13/12/10**
Signature:
Irwinconsult
82 Smith Street Darwin 0900
t +61 8 8980 5900 f +61 8 8981 4010
dwm@irwinconsult.com.au ABN 89 050 214 894

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