QuickClad System

Insulated Wall Cladding

Smart
Tough
Seamless
Energy Efficient
Wall Cladding

QUICKWALL™

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QuickClad APPLICATION

STEP 1 STRUCTURAL

Erect steel or timber stud frame walls in accordance to your local building code and wind load conditions. Install standard bracing detail.
Note: QuickClad insulated wall cladding can span stud centres of 600 mm.

Insulation boards on steel frame walls

STEP 2 EXTERIOR CLADDING

Spot Quickbond adhesive to the wall studs before installing the selected thickness of fire retardant rigid cellular insulation board (see Technical Data Sheet (TDS) **Table 1**) horizontally to the stud wall frame in accordance to the fixing centres as described in (TDS) **Table 2** using QuickClad fixing discs.

Protrusions can be fitted before or after the base coat application. Thickness of QuickClad sheets are:
60mm (for steel frame)
and 70mm (for timber frame).

Insulation boards on typical timber frames

Options may include the installation of raw rigid insulation boards.

STEP 3 EXTERIOR FINISHING

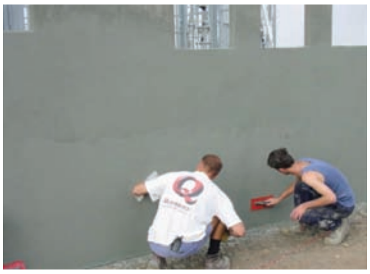
Apply the specifically designed mineral based 2 pack polymer modified base coat composite in conjunction with the reinforcing QuickClad Fibre-Mesh, in accordance to the thickness **Table 4** (in TDS).

QuickClad Cladding

Allow to dry and apply the selected Quick Finish top coating such as a textured finish, rendered finish, wash appearance, sandstone, scratch, roll, spray and trowel etc.

For mass housing projects composites can be applied rapidly by machine.

Quick Finishes will not crack, blister or delaminate. To eliminate possible hair-line cracking, ensure all fixing control joints and finishing applications are installed in accordance to specifications. 10 year guarantee when applied by an approved applicator.



For data on Applied Finishes see: www.quickwall.com.au

TYPICAL
QUICK FINISHES

3mm Sandstone

2mm Quick Trowel

0.9mm QuickSand

Quick Stone

Quick Spray

Quick Roll

COMPOSITE & FIBRE MESH INSTALLATION

The applicator will apply the Quickwall base coat and finishing coats in accordance to the manufacturer's specification. Rolls of alkali resistant QuickClad mesh are 50m^2 (1m wide x 50m long).

THE COMPOSITE

The 2 Pack composite consists of:

A: Quickwall Skimcoat (20kg bag)

B: Concentrated polymer (milky appearance liquid) herein called "**Quickwall Polymer**"

The QW Polymer will be diluted with fresh clean water at a ratio of 2 parts water to 1 part QW Polymer herein called the "**solution**".

Place approximately 5 litres of "solution" into a 20 litre plastic pail. While stirring with a slow speed (450-RPM) heavy-duty drill pour the dry powdered contents into the solution. Blend to a smooth consistent medium to wet viscosity. The mix should be used within 1 hour. The mix is non-toxic and environment friendly.

THE APPLICATION

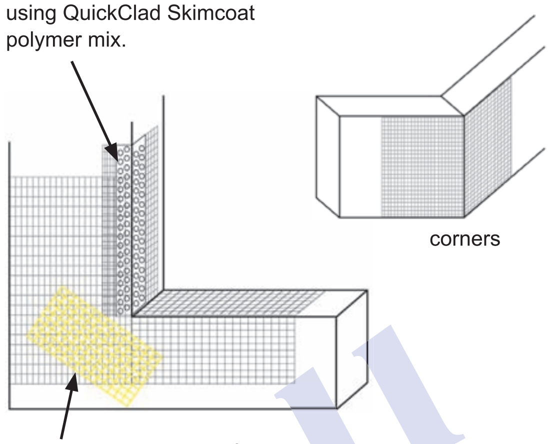
Trowel or spray the composite mix to the substrate, and **place the full wall length mesh into the wet composite vertically**. The mesh will adhere to the composite. Trowel any mesh wrinkles out and immediately trowel on additional base coat to a flat standard as you proceed along the wall laying the mesh. For best flat finishing results cross trowel horizontally.

On a hot day the mix can be splashed with water for increased workability. Allow drying overnight before applying the selected Quick Finish topcoat. The mineral topcoat will have a Solution Ratio of 4 parts water to 1 part QW Polymer.

MESH DETAILING

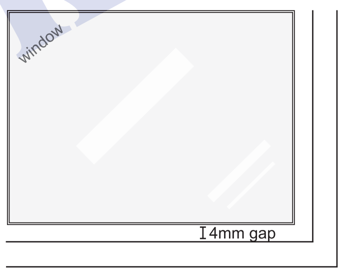
The mesh will overlap at the "wet" joints by 100mm. All corners have additional mesh to all exterior fitted and additional mesh at 45 degree angle to all openings as per the diagrams described below.

Install QuickClad mesh angles to all reveals, openings and external corners using QuickClad Skimcoat and 2:1 polymer mix.



At the same time install the 45º yellow opening mesh (500 x 300mm) as shown.

Procedures for applying mesh at window corners



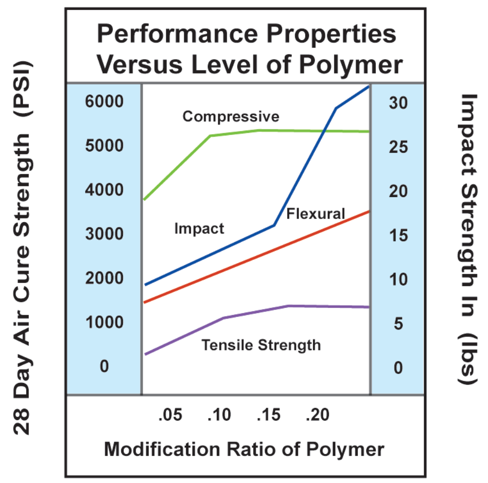
Note: Sill must fall away from the wall

a) Use a 4mm packer to gauge the gap between aluminium frame window and QuickClad panel.

b) Fold mesh into gap prior to plastering Quickwall base coat.

c) Cork between aluminium frame and Quickwall finished render with a paintable polyurethane sealant.

PRODUCT	STANDARDS
Stud frame walls	Wall frames to be in accordance to the building code of Australia A.S. 4055-1992 W33-41-50-60 C
Rigid Insulation board	Manufactured in accordance to A.S. 1366.3 1992
QuickClad Structural System	BHP research & development Chester Hill test results on document qcwall.doc.drawing No:P10624. Past and achieved structural certification for wind loads of W60 cyclonic AS4055
QuickClad Systems	A.S. 1530.3 ANZ 1562.3 B.S. 476 part 1987
Quickwall Fibre Polymer cement and architectural coatings	Manufactured in accordance to ISO 9002 Accredited government supplier under clause 15:01 listed as P.A. 93/024



QUICKCLAD TECHNICAL DATA SHEET

STEP A INSULATION THICKNESS

Select the appropriate insulation thickness for the appropriate R-value.

Series 60mm QuickClad
Series 70mm QuickClad

- Design stud frame walls in accordance to the local building code.
- Insulation sheets to be cut as shown in diagram below under Design Detailing B .
- QuickClad insulation sheet density to be 16kg m³.

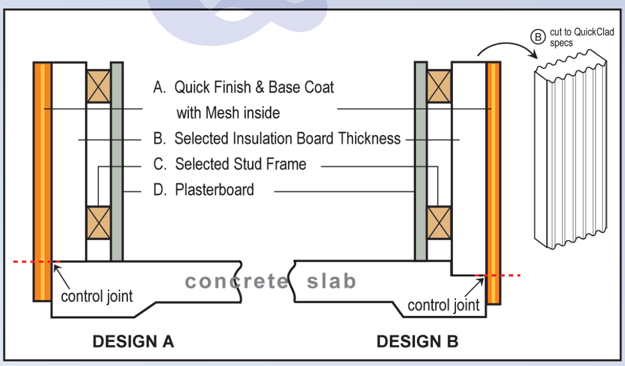
Building Systems	R-value
60mm QuickClad	1.666
70mm QuickClad	2.0
Weatherboards	nil
Bricks	nil
Cement Sheet	nil
Masonry Blocks	0.0026

Table 1: Fire Retardant Foam Sheet

Fire retardant QuickClad insulation board manufactured in accordance to A.S. 1366.3 1992. QuickClad Systems: A.S. 1530.3 ANZ. 1562.3 B.S. 476 Part 1987 QuickClad boards are coated with non-combustible base and finish coats in accordance to the QuickClad specifications.

STEP B DESIGN DETAILING

Generally, a rebate the thickness of the selected system is installed on the outer edge of slab as shown in the adjacent drawing. A 30mm deep rebate is common, however, rebates are not mandatory. Insulation board can be placed flush to edge on the concrete slab.



Select either Design A OR B
Note: Do not install cladding directly into earth.

A control joint is cut along the slab edge through to the mesh. This allows for expansion and contraction. If the mesh is cut through the expansion join is to be caulked with a polyurethane caulking compound.

Control joints are to be installed every 8 metres, preferably above and below openings and internal corners.

At each floor level of multi story constructions these control joints must be caulked.

STEP C SHEET FIXING

Specifying the sheet fixing detail with non-rusting QuickClad fixing discs in appropriate wind load regions. QuickClad is certified for cyclonic W60 C wind loads.

QuickClad insulation boards are fixed horizontally. Sheet sizes 2.4m x 1.2m.

Wind Load	Disc	Corner Openings
W33 - 41	450mm	400mm
W41 - 47	450mm	350mm
W47 - 57	400mm	300mm
W60	300mm	150mm

Table 2: QuickClad Fixing Discs

Notes: Installers to use fasteners as listed below.
DO NOT use Ribbed Countersunk Heads

TIMBER STUD FRAME

Sheet Thickness	Nail Length	Nail Gauge	Nail Type	Product No.
70mm	100mm	3.75mm	Flathead Galv	#FG10037
Flat head galvanised nail FIXINGS				

STEEL STUD FRAME

Sheet Thickness	Screw Length	Part No.	Class 2 Coating
60mm	65mm	#6-3-0058-4	Yes
Self-Drilling 10-24 x 65mm CSK TEK SCREWS with Class 2 Coating FIXINGS			

Table 3: Frame Fixings

STEP D COMPOSITE THICKNESS

Specifiying the appropriate thickness of composite to suit the particular wind loads in accordance to the test results from BHP NATA certified testing station is shown in **Table 4.**

Note: For cyclonic/typhoon regions strictly use Quickwall 2 Pack mineral base coatings only.

*** Do not use acrylic coatings ***

Wind Loads	Base Coat	Finish Coats
W33 - 41	5 mm	Quick Finish
W41 - 47	6 mm	Quick Finish
W47 - 57	7 mm	Quick Finish
W60	10 mm	Quick Finish

Table 4: Material Thickness