

bbi wholesales and distributes products through building supply merchants around New Zealand.

The bbi product range includes:

- Plywood
- Hardwood Decking
- Steel Fencing Standards
- SplashLine Wet Wall Lining
- Timber Weatherboards and Mouldings

Call us for advice on which product best suits your needs. We have a wealth of knowledge and experience in offering reliable, creative and cost-effective solutions tailored to the needs of the project.

Check out our website for plenty of ideas, information and photos.

SUPPLIED BY:



AN ECONOMICAL EXTERIOR CLADDING

CERTIFIED TO AS/NZS 2269

EXTERIOR CLADDING FOR YOUR HOME, COMMERCIAL BUILDING, SHED OR BACH

bbi CARRIES A RANGE OF BATTENS TO COMPLEMENT THE PLYCLAD



bbi PLYCLAD

bbi PlyClad is a product that is designed for use as the exterior cladding of your house, commercial premises, shed or barn. It is certified to AS/NZS 2269, giving you the assurance of structural integrity, knowing that it has been designed specifically for New Zealand conditions. bbi PlyClad has also been tested to the P21 Bracing test and when installed correctly will form part of the bracing requirements for your project.

It may be direct fixed to the stud or installed over 20 mm battens to form a cavity. It must overhang the bottom plate or concrete slab by 50 mm as required by NZS 3604.

It is treated to H3.1 using the Light Organic Solvent Preservative (LOSP) or H3.2 CCA and comes in two different varieties of face finishing, always with a bandsawn face veneer.

bbi PLYCLAD TEXTURED

bbi PlyClad Textured has a bandsawn face veneer with a shiplap joining system down the long edge of each sheet. The overall finish once sealed and painted will give your project a clean modern finish. It is also the ideal product to use when you are trying to achieve the board and batten finish.

bbi PLYCLAD GROOVED

bbi PlyClad Grooved has a bandsawn face and the shiplap joining system as above along with a deep groove on 150 mm centres. Grooves are 9 mm wide and 6 mm deep, giving your project a traditional plywood cladding look.



bbi PlyClad also gives you other benefits such as Super-E0 low formaldehyde emission; WBP A-Bond glue line; thickness calibration; certified strength and integrity with every sheet undergoing an ultrasound to check for blows prior to delivery from the plant; and the knowledge that all the product is produced from PEFC-certified sustainable radiata pine plantations.



bbi PLYCLAD USE

Some important notes when fixing bbi PlyClad products:

- It is recommended that you always use stainless steel or silicon bronze fasteners
- Always use extruded aluminium flashings tested by BRANZ for weather tightness
- Never nail inside the groove
- It must always be installed vertically in an exterior situation
- As soon as possible and preferably before any exposure to weather, bbi PlyClad must be sealed and protected with at least two coats of premium exterior acrylic paint
- It must be properly maintained on a regular ongoing basis. It must be kept clean and the paint must be maintained in accordance with the paint manufacturer's specifications
- Repaint or restrain as soon as the first sign of coating deterioration is identified

EDGE SEALING

All plywood panels experience faster moisture penetration through panel ends and edges. As a result, edges and ends should be sealed. Edge sealers help to minimize sudden changes in panel moisture content due to normal climatic changes after installation.

SURFACE PREPARATION

Panel surfaces should be free from dirt and loose wood fibres. All finishes should be applied as soon as possible after panel installation. Apply finishes during favourable weather conditions and always follow the finish manufacturer's specific application recommendations for plywood products. Use only first-quality finishes and apply according to the application rates recommended by the finish manufacturer.

Rough or bandsawn surfaces may require up to twice as much finish as smooth or scratch sawn surfaces. The initial coat should be applied by brush. Sprayed on finishes should be either back brushed or back rolled while wet. Additional coats may be applied conventionally.

bbi PLYCLAD FINISHES

Solid Colour Stains:

Two coats of a high-quality oil base or latex opaque stain help mask colour variations between wood repairs and the surrounding wood. Face grain is also masked with opaque stains but allows rough sawn textures to remain visible. It is also recommended that the desired finish be applied to a representative panel sample that contains typical colour variations and repairs to ensure that the panel's finished appearance is acceptable.

Acrylic Latex Paint:

If a painted finish is desired, an acrylic latex paint system composed of at least one stain resistant primer coat and topcoat is recommended for textured cladding. Acrylic latex produces a durable finish that masks textured surfaces more than an opaque stain and can obscure grain and colour differences. Again it is imperative to follow the paint manufacturer's recommendations for plywood cladding application.

Painting the bbi PlyClad with dark colours with a light reflectance value (LRV) below 40% is likely to increase heat and stress on the bbi PlyClad surface, increasing the likelihood of face cheeking, and potentially reducing its lifespan. Increasing the level of coating maintenance will be required to maintain an acceptable visual appearance. To minimize heat and stress on the surface, a LRV finish of above 40% should be used.

bbi PLYCLAD BATTENS - SIZES AVAILABLE

bbi carries a range of battens where a board and batten look is desired.

SHEET SIZE	THICKNESS
40 mm x 19 mm	4/6/9/12/17 mm
65 mm x 19 mm	4/6/9/12/17 mm
90 mm x 19 mm	4/6/9/12/17 mm

bbi PLYCLAD BRACING RATINGS

bbi PlyClad meets NZS 2269, which includes testing for parallel and perpendicular bending, stiffness, tensile, shear and compression strength. The following table shows bracing ratings according to the P21 racking test.

BRACING RATINGS						
Min Wall Length mm	Thickness mm	Max Stud Spacing mm	Wind* BU/m kN		Earthquake** BU/m kN	
1,200	12 grooved	600	123	6.2	132	6.6

Notes: 20 bracing units = 1 kN.

* As limited by the serviceability load capacity.

** As limited by the ultimate load capacity.

bbi PLYCLAD THERMAL CONDUCTIVITY

bbi PlyClad has an average thermal conductivity of 0.13 W/mK. The following table shows the specific conductivity for each thickness.

THICKNESS VS THERMAL CONDUCTIVITY	
Thickness (mm)	Conductivity (W/mK)
12	0.138

bbi FIRE TESTS ON BUILDING MATERIALS

bbi PlyClad has been tested for ignitability, flame propagation, heat release and smoke release in accordance with NZS 1530.3:1999. Tested with a clean-faced bbi PlyClad by CSIRO Materials Science and Engineering, Australia, February 2013.

EARLY FIRE HAZARD PROPERTIES		
Regulatory Index	Result	Range
Ignitability	13	0 - 20
Spread of Flame	8	0 - 10
Heat Evolved	7	0 - 10
Smoke Developed	3	0 - 10

Additionally, bbi PlyClad has been tested at 50kW/m² irradiance in accordance with AS/NZS 3837:1998 and classified as Group Number 3 in accordance with Specification A2.4 of the Building Code of Australia, with an average specific extinction area of 69.4 m²/kg. Tested with a clean-faced bbi PlyClad by CSIRO Materials Science and Engineering, Australia, January 2012.

