

TECHNICAL MANUAL

RITECLAD Through-colour Composite Cladding

Product Description:

Made in USA, RITECLAD wood composite cladding by Rightwood (Formerly Duroclad) is an extra tough, commercial grade composite cladding manufactured using a mixture of virgin and recycled plastic and recycled timber fibres. RITECLAD wood composite cladding offers a highly practical combination of quality, durability and sustainability. It is highly suitable for external use in even the harshest of environments. Contributing to RITECLAD's outstanding physical properties, is the use of patented technology, which offers superior structural strength and sustainability and increased UV resistance. As part of its authentic appeal RITECLAD will demonstrate changes in shade and colour over time due to weather exposure (Eg it will be darker when it rains and lighter when it dries out). Accordingly, some colour fading and water marking is to be expected especially if there is dirt build up on the cladding surfaces or where it is not equally exposed to the weather. If an impervious stain-proof surface is required, then consider using ULTRAWOOD or SELEKTA cladding.

Sizing & Coverage:

- 115 x 24mm Cladding (8.7m per M2)
- 115 x 24mm Custom Profile (8.7m per M2)*
- 155 x 15mm Cladding (6.45m per M2)*
- 155 x 15mm Custom Profile (6.45m per M2)*

*Minimum order quantities and lead times apply. Contact BLUECHIP on (08) 9451 2344.

Storage Onsite:

- RITECLAD composite cladding should be stored covered, flat and off the ground.
- Standard 5400mm long packs of RITECLAD require a minimum of eight gluts (supports) under the pack for proper storage.

Accessories:

- BLACKHEAD 50mm x 7g secret fix timber screw
- BLACKHEAD 42mm x 7g secret fix metal screw
- STAINLESS 50mm x 10g face fix timber screws
- GALVANISED 40mm x 10g face fix metal screw
- CHEMISYS end-sealer (Apply to all board ends)
- DUROSTOP matching end stops for corners and trims
- CLADTRIM colour-matched aluminium extrusions for corners and trims
- STUDTEK Steel Sub-framing Profiles
- FIRESpan Non-combustible Sarking

Important Information:

The instructions in this brochure are for illustration purposes only and are not meant to replace a licensed professional. Any construction or use of the product must be in accordance with all local zoning and/or building codes. The consumer assumes all risks and liability associated with the construction or use of this product. The consumer or contractor should take all necessary steps to ensure the safety of everyone involved in the project, including, but not limited to, wearing the appropriate safety equipment. Except as contained in a written warranty, the supplier does not provide any other warranty, either express or implied, and shall not be liable for any damages, including consequential damages.

General Fixing & Maintenance Instructions:

- RITECLAD can be secret fixed or face fixed.
- RITECLAD can be installed either horizontally or vertically.
- We recommend that wherever possible you purchase all of the boards required for your project at the same time to minimise possible colour variation that may occur between different manufacturing runs.
- Subtle colour and shade variation is to be expected in all RITECLAD projects as this is part of the realistic appearance and authentic appeal of the product.
- The natural fibres used in the manufacture of RITECLAD may mean some colour variation between boards and initially in full sun the colour will lighten a little. Colour variation and change will stabilise after 8-12 weeks of full sun exposure.
- The grain of RITECLAD will reflect light differently depending on the orientation of the boards. To ensure a satisfactory look across your project it is advisable to lay out the boards before fixing to check your colour mix and grain orientation. This also ensures that each board is acclimatised and the same temperature prior to any cutting.
- RITECLAD boards should be at ambient temperature prior to any cutting or installation.
- All butt joints and ends of boards must be sealed with CHEMISYS Composite Sealer supplied by BLUECHIP.
- When installing RITECLAD vertically, leave a minimum 5mm gap at the base of the cladded wall between the board (end grain) and any surface that meets the board (end grain) in a perpendicular line or plane to the cladding being installed.
- RITECLAD can be drilled, sawn, fastened or routed with normal woodworking tools.
- RITECLAD should be acclimatized as required onsite to ensure moisture and temperature equilibrium with the surrounding environment prior to installation.
- The sub-frame shall be level and aligned and installed perpendicular to cladding direction over water-proof membrane at maximum 600 mm centres or closer if necessary to ensure structural integrity of the cladding in the building environment (Eg high wind-load or impact zones). The sub-frame shall be minimum 20mm thick to provide adequate ventilation behind the cladding. The back-ventilation cross-section may not be regularly diminished by battens or other objects. The ventilation inlets and outlets must have consistent widths of at least 20 mm.
- Pre-drilling and countersinking is required in order to reduce the risk of splitting or 'mushrooming', when installing RITECLAD and by doing this it allows the screw to sit flush and neat, so the next board will slot into place without being obstructed in any way.
- Drivers should be adjusted to a low or medium torque setting when fixing screws in to the cladding.

General Fixing & Maintenance Instructions (Continued):

- The DUROSTOP End Stops and/or CLADTRIM corner profiles shall be installed as required and fixed at maximum 600 mm centres by pilot drilling and screwing with countersunk stainless-steel screws. Sealant and flashings should be used as required to ensure water proofing.
- To install the CLADTRIM colour-matched extrusions the base section is to be fixed to the wall or sub-frame first and then after RITECLAD cladding is installed sealant should be applied as required to ensure water proofing before the external CLADTRIM piece is clipped into place until it is flush with the cladding face.
- The RITECLAD cladding shall be fixed at maximum 600 mm centres by pilot drilling and screwing with countersunk stainless-steel screws evenly spaced from board edges.
- The cladding shall be installed with a minimum 5mm spacing between all butt joints, end stops and between any permanent structure and/or penetration to allow for thermal expansion and contraction of the material.
- Butt joints should be limited to 1 per cladding run and joined on a suitable structural support. All butt joints and other junctions are to be sealed with a suitable sealant in accordance with the manufacturer's instructions to ensure water proofing.
- If more than 1 butt joint is required per cladding run, then the CLADTRIM colour-matched cover strip profile should be used as a joint strip installed perpendicular to the cladding.
- To install the CLADTRIM colour-matched cover strip the base section is to be fixed to the wall or sub-frame first and then after RITECLAD cladding is installed sealant should be applied as required to ensure water proofing before the external CLADTRIM piece is clipped into place until it is flush with the cladding face.
- The cladding shall be cleaned and maintained as required to avoid any accumulation of surface contaminants and to maintain the desired performance and appearance.
- RITECLAD is a through-colour homogeneous material so stains and scratches can be repaired using a wire brush. Some lightening of the material will occur however this will blend in over time.
- As part of its authentic appeal RITECLAD will demonstrate changes in shade and colour over time due to weather exposure (Eg it will be darker when it rains and lighter when it dries out). Accordingly some colour fading and water marking is to be expected especially if there is dirt build up on the cladding surfaces or where it is not equally exposed to the weather. If an impervious surface is required then consider using ULTRAWOOD or SELEKTA cladding.
- The supporting wall must be watertight.
- There must be ventilation / drainage at the base of the wall.
- Use breathable building paper behind RITECLAD to help prevent sweating that may cause mould or discolouration.
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General Fixing & Maintenance Instructions (Continued):

- The cladding shall be installed as per the latest version of the RITECLAD Install Details allowing for any site-specific expansion and contraction requirements and using colour-matched CLADTRIM extrusions for all junctions and abutments.
- The cladding shall be installed as per the latest version of the RITECLAD Draft Specification allowing for any site-specific requirements to ensure the desired long-term performance and aesthetics are achieved.
- The cladding system shall be installed in accordance with the latest version of the Australian NCC/BCA as well as any other government regulations or requirements at any given time and for any particular project.

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