

TECHNICAL MANUAL

ULTRAWOOD Non-combustible Timber Cladding

Product Description:

ULTRAWOOD is an innovative new generation exterior cladding product made from highly durable marine-grade aluminium and factory pre-finished using the latest matt-effect technology in 28 realistic timber colours. Deemed-to-satisfy non-combustible in accordance with the BCA/NCC, it has been fully tested in Australia by CSIRO achieving excellent results to AS 1530.1 and AS 1530.3. Eco-friendly, low maintenance and incredibly durable, ULTRAWOOD is ideal for type A and B construction projects such as high-rise apartments and bushfire rated areas which require non-combustible cladding. The ULTRAWOOD profile has been intelligently designed to provide excellent usability such as multi-angle mating and it has one single swarf-free contact point for superior consistency and weather-proofing. Compared to many other timber cladding products, ULTRAWOOD is a very light-weight system weighing only 8.75kg per square metre offering potential structural advantages and cost savings.

Finishing Process:

The beautiful looking finish on the ULTRAWOOD boards is possible because the latest matt-effect coating technology provides incredible richness and variation along with outstanding long-term durability. Along with the marine-grade aluminium base material, the matt-effect ULTRAWOOD coating has undergone extensive durability testing and has been proven to perform in the harsh Australian conditions.

Sizing & Coverage:

- 155 x 18mm Cladding – Custom Lengths
- 6.45 lineal metres per M2

Storage Onsite:

- ULTRAWOOD composite cladding should be stored covered, flat and off the ground.
- ULTRAWOOD requires a gluts (supports) under the pack every 600mm.

Accessories:

- FIRESpan Non-combustible Sarking 1.35m x 40m Rolls
- STUDEK Steel Sub-framing System
- STUDEK EPDM Foam Isolation Strip
- GALVANISED 22mm x 10-16 Wafer Screw
- CLADTRIM colour-matched aluminium extrusions for corners and trims

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:

- ULTRAWOOD is to be secret fixed using screws supplied by BLUECHIP.
- ULTRAWOOD can be installed either horizontally or vertically.
- ULTRAWOOD wood decors are equivalent to natural wood surfaces meaning that different grain textures are possible within a single shipment (plain and/or mottled). In order to obtain a uniform overall finish, we recommend considering this fact and, for example, laying out the cladding profiles before starting with the installation to ensure satisfactory appearance.
- ULTRAWOOD boards should be at ambient temperature prior to any cutting or installation.
- All ULTRAWOOD boards should be ordered approx. 50mm longer than required onsite to allow for trimming at each board end to remove 20-25mm of uncoated or blemished material resulting from the production and coating process.
- When installing ULTRAWOOD vertically, leave a minimum 10mm gap at the base of the cladded wall between the board and any surface that meets the board in a perpendicular line or plane to the cladding being installed. The same applies above and below a horizontal join in the cladding installed using the CLADTRIM Z-shape Joint Profile.
- ULTRAWOOD can be cut to length with standard high-quality aluminium cutting tools. Recommended blades are a specialised aluminium saw blade with a high number of teeth.
- ULTRAWOOD 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. 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.
- Drivers should be adjusted to a low or medium torque setting when fixing screws in to the cladding and screws should not be overdriven but may only be screwed in until the screw head rests against the surface.
- The CLADTRIM corner profiles shall be installed as required and fixed at maximum 600mm 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 ULTRAWOOD 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.

General Fixing & Maintenance Instructions (Continued):

- The ULTRAWOOD cladding shall be fixed at maximum 600 mm centres by inserting screws through the grooved v-slot in the cladding boards.
- The cladding shall be installed with a minimum 10mm spacing between all trims, joints, end stops and between any permanent structure and/or penetration to allow for thermal expansion and contraction of the material.
- The cladding shall be installed as per the latest version of the ULTRAWOOD 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 ULTRAWOOD 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.
- 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 ULTRAWOOD 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.
- The supporting wall must be watertight.
- There must be ventilation / drainage at the base of the wall.

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