

TECHNICAL MANUAL

SELEKTA Timber Composite Cladding

Product Description:

The SELEKTA particle wood core consists of processed timber exclusively from untreated pulpwood in the form of wood shavings, thinning material and round timber from sustainable, domestic forestry. Imported timber is not used - especially from tropical climates. The binding agent used is a thermosetting artificial resin with building authority approval for outdoor use. As a wood preservative, we use an eco-friendly boron-based product with building authority approval that does not contain lindane or PCP. For low flammability a mixture of boric acid and borax is used as a fire protection agent. No isocyanates, phosphates or halogens are added. Several layers of paper are impregnated with artificial resins for use as a coating similar to high pressure exterior laminate. The surface and core are fused together without seams in a single process under the application of high pressure and heat.

Finishing Process:

Dekopan Plus (Wood-look) colours have multi-layer coating, printed or dyed and a transparent weather resistant surface coating on the decor side. Colorpan colours (Solid colours) have a base coating of paper impregnated with melamine resin, followed by coloured surface coating using a pure, water-based acrylate. The pigments added are free of toxic heavy metals (no lead, chrome or cadmium). The rear side is brown or milky white from the production process and offers no colour options.

Sizing & Coverage:

- 155 x 18mm Cladding – 5.4m Lengths
- 6.45 lineal metres per M2

Storage Onsite:

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

Accessories:

- FIRESpan Non-combustible Sarking 1.35m x 40m Rolls
- STUDEK Steel Sub-frame System
- SELEKTA 32mm x 6g secret fix timber screw
- SELEKTA 30mm x 8g secret fix metal screw
- SELEKTA end-sealer & touch-up (Apply to all board ends)
- CLADTRIM Selekta starter strip
- 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:

- SELEKTA is to be secret fixed using screws supplied by BLUECHIP.
- SELEKTA can be installed either horizontally or vertically.
- SELEKTA 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.
- SELEKTA boards should be at ambient temperature prior to any cutting or installation.
- All butt joints, cut edges and ends of boards must be sealed with SELEKTA End Sealer supplied by BLUECHIP.
- When installing SELEKTA vertically, leave a minimum 10mm 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.
- SELEKTA can be sawn and cut to length with normal woodworking tools. Recommended blades are a hard metal saw blade with a high number of teeth, (tooth pitch approx. 10 – 15 mm).
- SELEKTA 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 SELEKTA 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 SELEKTA cladding shall be fixed at maximum 600 mm centres by inserting screws through the pre-drilled slots in the cladding boards. Always centre the screws in the punched fastening holes of the cladding profile except for a screw nearest to a butt joint which should be inserted at the edge of the slot nearest to the butt joint.

General Fixing & Maintenance Instructions (Continued):

- The cladding shall be installed with a minimum 10mm 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 SELEKTA 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 cladding shall be installed as per the latest version of the SELEKTA 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 SELEKTA 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.
- The supporting wall must be watertight.
- There must be ventilation / drainage at the base of the wall.
- Use breathable building paper behind external boards to prevent sweating that may cause mould or deterioration.

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