



DÉCORTECH HOOP PINE PLYWOOD

TECHNICAL DATA SHEET

DÉCORTECH HOOP PINE PLYWOOD

Product Description

Décortech Hoop Pine Plywood has a light coloured clean face with an even layout and excellent edge detail. Interior grade is a non-structural grade of plywood that uses white glue between the plywood laminations. This is ideal when specifying Hoop Pine for decorative panelling as the glue used for interior suffers less colour deterioration on the external veneers due to a lower setting point for the glue.

Product Features

- A decorative smooth finish
- Environmentally friendly
- High strength substrate
- Excellent edge profile
- Prefinished panels prevent the need for additional onsite trades after installation.

Finish/Appearance

Hoop Pine Interior is generally light coloured and has a fine, even smooth face with a tight grain surface and no prominent grain or growth rings.

Uses

Décortech Hoop Pine is suitable for use as wall and ceiling linings. It is ideal for decorative finishes and can be used wherever a high quality aesthetic finish is required.

Perforation Patterns

Combine the natural warmth of Décortech Hoop Pine Plywood with the acoustic properties of panel perforations. All Décortech standard perforations are available including slots, holes and Multigroove as well as any custom designed perforations. Custom size panels, cut-outs for lights, and negative edge details can also be provided. For standard perforations, available please visit our website at www.decortech.co.nz or speak to the team at Décortech to discuss any one of a kind or custom requirements.

Acoustics

Décortech Hoop Pine Plywood is an ideal material to specify for acoustic attenuation as plywood is a good acoustic absorber due to the thin wall cellular structure which absorbs the energy from sound waves. When combined with our standard perforations or any custom designs it is possible to achieve perfect acoustics for any space. Additionally, Decoustic 85 felt is bonded to the back of the panels as standard to further increase the acoustic properties. Décortech panels have been tested to ISO11654 by the University of Auckland in conjunction with Marshall Day Acoustics. Please see our website for specifications in downloadable PDF form for all of our standard perforations. Each perforation pattern is specified as to percentage open area (required by Acoustic Engineers) and a Noise Reduction Coefficient (NRC) value which indicates percentage of noise absorbed.

Substrate Description

Hoop Pine (*Araucaria Cunninghamii*) is a native tree from Australia. It is a first class softwood that peels easily into veneers making it ideal for plywood production with an average density of 600kg/m³. The face veneers are rotary cut and have been carefully selected for high-end architectural applications. Decortech Hoop Pine plywood is manufactured to the requirements of the EWPAA-JAS-ANZ quality control and product certification scheme.

Decortech Plywood

Decortech supply AC grade plywood as standard. The 'A' defines the veneer quality used on the face and is the highest quality veneer available. 'C' defines the veneer quality used on the back if the plywood and is of a lesser aesthetic quality. If both sides will be visible AA grade plywood can be supplied. Please refer to our Hoop Pine Plywood Grading sheet for further details on grading

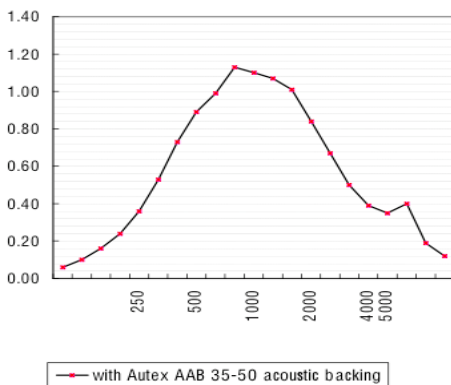
Moisture content for plywood ranges between 88-15%. Plywood dimensions can vary with changes in ambient humidity therefore panels may need to be conditioned to the installed environment prior to installation. For a change in moisture content between 6-16% the dimensional change both across and along a 2400 x 1200 panel can be between 1.3mm and 2.3mm. If using timber framing it must have a maximum moisture content of 18% at the time of installing the panels.



Example of Acoustic Testing Results for SR1068 Slotted Panel

Sound Absorption Prediction

NRC 0.80 14% Open Area



For further information regarding Décortech Hoop Pine Plywood please contact Décortech

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Sheet Sizes

Decortech AC Interior Hoop Pine is available in 2400x1200 & 2700x1200mm sheets in 9mm, 12.5mm & 16mm Thicknesses. Please note: Not all thicknesses are suitable for all applications, for advice please discuss your specific project requirements with us. Decortech can also route to custom sizes as well as supplying negative edge details and specialist edge details such as mitres & rebates.

Pre-Finishing

Décortech panels come pre-finished by our Paintline as standard. The computer controlled application of paint gives a high quality, run free finish each time and our UV coatings dry instantly allowing for quick turnaround times and a premium finish. Our clear satin finish is a special non-yellowing formulation which provides excellent durability and resistance to chemicals and scratching.

Environment

Décortech Hoop Pine Plywood a sustainable resource that is 100% plantation grown and managed by the HQPlantations. HQPlantations is the largest plantation company in Queensland and is committed to sustainable forest management. Forests under HQPlantations care are managed from a long-term, stewardship perspective that benefits the environment as well as stakeholders. The resource is RW certified. The plywood is PEFC Certified which gives access to 'Chain of Custody' process for green labelling. Decortech sourced Hoop Pine is certified Chain of Custody under AS4707:2006.

Due to our Paintline and the contained process of applying paint, our paint finishes has low to no VOC content once applied and cured resulting in reduces Greenhouse gas emissions and hazardous waste disposal.

Manufacturing Standards

Décortech Hoop Pine Interior Plywood is manufactured to AS/NZS 2270-2006

Formaldehyde Levels

Décortech Plywood formaldehyde levels are very low - between 0.00 and 0.003 which gives an acceptable rating for green buildings. Decortech Hoop Pine has been tested by the EWPPA (Engineered Wood Products Association of Australasia) Brisbane laboratory to comply with an E0 rating, the lowest formaldehyde emission rating available for interior Hoop Pine.

Fixing Options

Walls:

Battens or studs at 600mm centers maximum, with fixing at 200mm centers maximum around perimeter and 400mm centers maximum through center area of the panel. We recommend good quality builder's adhesive combined with some form of positive fixing i.e. screws or panel pins.

Ceilings:

Battens should be at 400mm centers maximum, with fixing at 200mm centers maximum around perimeter and 400mm centers maximum through center area of the panel. We recommend good quality builder's adhesive combined with some form of positive fixing i.e. screws or panel pins. We recommend at least a 3-5mm negative detail between all edges of the panels. Fixing options as below depending on how sheet is sold.

Option 1 – Plain Sheet

Screw fix using countersunk screws 7-gauge x 25mm long minimum.

Option 2 – Acoustic Slotted Sheet

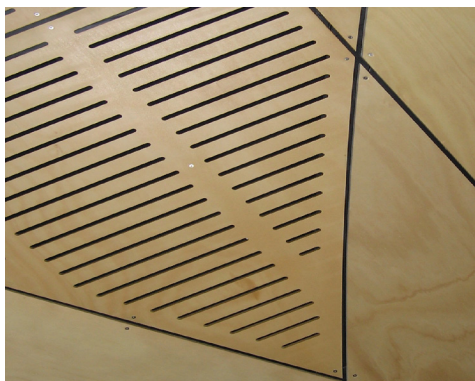
For concealed fixing please specify stepped slots which give a landing at the end of the slot through which to screw fix. For surface screw fixing use countersunk screws 7 gauge x 25mm long minimum.

Option 3 - Acoustic sheets with Holes

Use countersunk screws with a head size slightly larger than the hole size and drive in until flush with the surface.

Option 4 - Multigroove Acoustic Profile

Available on 15mm Décortech Firesafe Décorply Plywood. We recommend use of customized pneumatic staple gun (available for hire from Décortech) or panel pins. Panels should be stapled or pinned to timber battens at 300mm centers.



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How To Specify:

1. Décortech Hoop Pine AC Interior Grade Plywood
2. Sheet size and thickness
3. Perforation (Holes, slots, Multigroove, Custom) e.g. HR513
4. Perforation border, e.g. 50mm
5. Finish e.g. Decortech Factory Applied Clear Satin Finish
6. Apply Decoustic 85 felt to back

Extensive modification can be made to our patterns, so please contact us to discuss options for stopping perforation around penetrations (light fittings, sprinklers, diffusers, PIRs etc.) or any custom designs.

Masterspec

For downloadable specifications please see Masterspec 5172D Décortech or our website.

Shop Drawings

Prior to manufacturing, shop drawings are done for approval for every panel we make to ensure that our panels are made right, first time. This enables customers and specifiers to clearly see what they are getting and to easily make changes. Full assembly drawings are also usually provided showing the complete wall or ceiling assembly. The shop drawing process has been invaluable to our installers as potentially timely and costly mistakes are picked up on paper and fixed before they become problems during construction.

Samples

Standard samples are available in our Sample Boxes. Please contact us to request a sample box or any project specific samples required. Samples are indicative only and as plywood is a natural product there will be variations in colour and occasional imperfections. Final panels will be matched as closely to the sample as nature will allow. Please send all correspondence in writing. Samples are valid for 6 months.

Care Instructions

We recommend cleaning the panels when required with a warm damp cloth. Do not use any solvents or abrasive cleaners.

Handling & Storage

Panels must be installed by a qualified tradesman and handled with care. The product must be stored inside, off the ground, in dry condition. Panels must not be left wrapped in a non-breathable material (i.e. Plastic) for longer than 4 days and should be unpackaged and aired once they arrive onsite. Interior plywood must not be used in exposed, wet or damp conditions. Panels should be kept fastened in a flat pack square on top of one another on site to reduce the chance of the sheets bowing or any edge discolouration.

Precautions & Limitations

As this is a natural product, as expected, there can be variation between batches. As such we recommend ordering all materials required for a job at once as colour and grain cannot be guaranteed to match at a later date. Moisture content in Plywood ranges between 8-15%. Plywood dimensions can vary with changes in ambient humidity therefore panels may need to be conditioned to the installed environment prior to installation. For a change in moisture content between 6-16% the dimensional change both across and along a 2400x1200 panel can be between 1mm & 3mm. If using timber framing it must have a maximum moisture content of 18% at the time of installing the panels.

While every endeavour has been made to ensure that all information contained in this product sheet is accurate, it is intended to be used as a guideline only. We reserve the right to amend specifications without notice.



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