



DÉCORTECH HOOP PINE

TECHNICAL DATA SHEET HP001

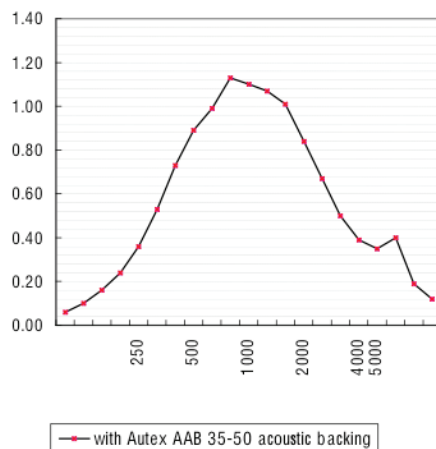
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Example of Acoustic Testing Results for SR1068 Slotted Panel

Sound Absorption Prediction

NRC 0.80 14% Open Area



For further information regarding Décortech Hoop Pine please contact Décortech.

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Product Description

Décortech Hoop Pine has a light coloured clean face with an even layup and excellent edge detail. Available in Interior and Exterior, Interior 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. Exterior Hoop Pine uses an A bond glue, dark in colour, to hold the plywood lamination together. It carries an F17 stress grade and is suitable for semi exposed applications.

For decorative purposes we recommend Interior Hoop Pine as it has a lighter, brighter, more consistent colour than Exterior Hoop Pine. For acoustic purposes where perforations are added to the ply, as the white glue lines are not visible when viewing down inside the perforations.

Product Features

- A decorative smooth finish
- Environmentally friendly
- High strength substrate
- Excellent Edge Profile
- Natural Warmth
- Good acoustic properties meaning increased noise reduction
- 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 Hoop Pine 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. Prestige or Concept drop in ceiling tiles are available in either flat or perforated finish. 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. Additionally Decoustic 85 felt is bonded to the back of the panels as standard to 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. Décortech Hoop Pine Plywood is manufactured to the requirements of the EWPA-A-JAS-ANZ quality control and product certification scheme.

Décortech Plywood

Décortech 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 of the plywood and is of a lesser aesthetic quality.

NOTE: Quality of veneer does not mean lower strength. Quality of veneer refers to the number and types of imperfections allowed.

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.

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Moisture content for 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 2.400 x 1.200 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.

Sheet Sizes

Décortech AC Interior Hoop Pine is available in 2400 x 1200 and 2700 x 1200mm sheets in 6.5mm, 9mm, 12.5mm and 16mm thicknesses. Décortech can supply custom sizes when required. Please note: not all thicknesses are suitable for all applications, for advice please discuss your specific project requirements with us. Décortech also route to custom sizes as well as supplying negative edge details and specialist edge details such as miters, rebates, and drop in tile profiles.

Pre-Finishing

Décortech panels come pre-finished by our Paintline as standard. Hoop Pine is finished with Décortech factory applied UV clear satin to enhance the natural beauty of the timber. The computer controlled application of paint gives a high quality, run free finish each time and our UV coatings cure instantly allowing for high productivity rates and a premium finish, making it a cost effective solution. Our clear satin finish is a special non-yellowing formulation which provides excellent durability and resistance to chemicals and scratching. The standard finish is two coats of paint to the face. Edges can be painted on request, please note on the specification and advise at time of ordering if this is required. Please contact us for pricing.

Environment

Décortech Hoop Pine plywood is 100% sourced from sustainable plantation grown trees with a current harvesting cycle of 50 years and from plantations managed by FPQ – Forestry Plantations Queensland, an arm of the Queensland Government. FPQ is certified to the Australian Forestry Standard (AFS) which gives FPQ access to a 'Chain of Custody' process for Green labelling. Décortech sourced Hoop Pine is certified for Chain of Custody under AS4707:2006. Due to our Paintline and the contained process of applying paint, our clear satin finish has low to no VOC content once applied and cured resulting in reduced Greenhouse gas emissions and hazardous waste disposal.

Manufacturing Standards

Décortech Hoop Pine Interior is manufactured to AS/NZS 2270-2006
Décortech Hoop Pine Exterior is manufactured to AS/NZS 2271-2006

Formaldehyde Levels

Plywood formaldehyde levels are very low – between 0.00 and 0.03 which gives an acceptable rating for green buildings. Décortech 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 and Super EO levels for exterior 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 stainless 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 stainless screws 7 gauge x 25mm long minimum.

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Option 3 - Acoustic Sheets with Holes

Use countersunk stainless 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 17mm Hoop Pine in full panel size - not available as planks. We recommend use of customized pneumatic staple gun (available for hire from DécorTech) or panel pins. Panels should be stapled to battens at 300mm centers.

How to Specify

Specify:

1. For Interior - DécorTech Hoop Pine AC White Interior Grade Plywood
For Exterior - DécorTech Hoop Pine AC Exterior Grade Plywood
2. Specify perforation, (Holes, slots, grooves, special) e.g. HR513
3. Specify Perforation border, e.g. 50mm
4. DécorTech factory applied UV clear satin finish
5. 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)

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 to clearly see what they are getting and to easily make changes. Full assembly drawings are also usually provided allowing the customer to see 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

Samples are indicative only and as Hoop Pine is a natural product there will be variations in colour and grain 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 and Storage

Panels must be installed by qualified tradesmen 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 on site. Interior plywood must not be used in exposed, wet or damp conditions. Panels should be kept fastened in a flat pack squarely on top of one another on site to reduce the chance of the sheets bowing.

Precautions and 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.

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.