

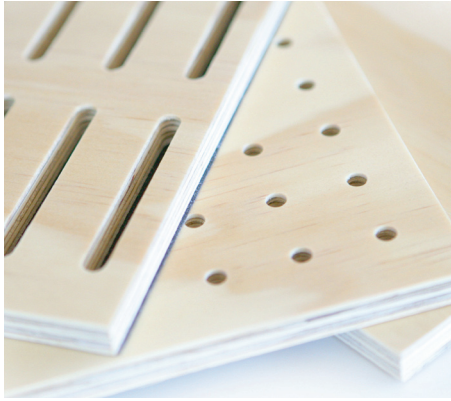


## **DÉCORTECH RADIATA PLYWOOD**

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**TECHNICAL DATA SHEET RAD001**

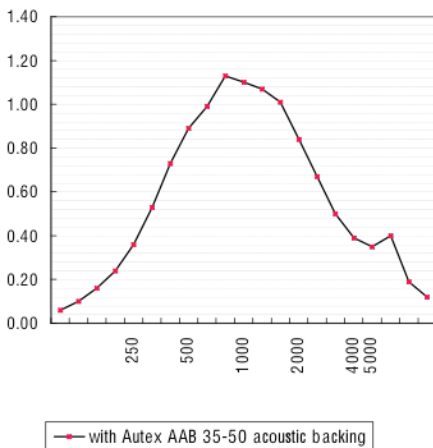
# DÉCORTECH RADIATA PLYWOOD



Example of Acoustic Testing Results for SR1068 Slotted Panel

## Sound Absorption Prediction

**NRC 0.80** 14% Open Area



For further information regarding Décortech Radiata Plywood please contact Justine Atonio on the following:  
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## Product Description

Décortech Radiata Plywood is Radiata plywood finished with a hard wearing clear satin finish available with acoustic perforations or as a non-perforated panel.

## Product Features

- Pre finished panel that retains the look and beauty of natural wood.
- UV cured coating dries to a hard finish
- Excellent scratch and stain resistance
- Our prefinished panels reduce potential onsite issues such as spills, overspray or damage.
- Easily installed to decrease cost and time onsite
- A cost effective solution that combines a decorative and acoustic solution into one.

## Finish/Appearance

Radiata Plywood is generally a light coloured plywood with a prominent grain. Finished with Décortech factory applied clear satin finish, Décortech Radiata Plywood has a hard wearing, scratch resistant satin finish to give a clear natural look.

## Uses

Décortech Radiata can be used as wall and ceiling linings. Suitable applications include wall and ceiling linings, acoustic panels especially for schools, hospitals, commercial and public buildings, partition screens and display panels. It is ideal in areas that have a higher moisture content or where panels will be exposed to the elements.

## Perforation Patterns

Combine the natural warmth of Décortech Radiata 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. 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](http://www.decortech.co.nz) or speak to the team at Décortech to discuss any one of a kind or custom requirements.

## Acoustics

Décortech Radiata 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

Radiata pine (Pinus Radiata) is the world's most widely planted softwood plantation tree. It is fast growing, grown under various forest management systems in New Zealand. Radiata is plantation grown and is sustainably harvested. When harvested Radiata presents an easily worked log for the peeling of veneers used to make top quality plywood.

## Décortech Plywood

Décortech supply SD grade plywood as standard. 'S' stands for selected and defines the veneer quality used on the face, 'D' defines the veneer quality used on the back side of the plywood and is of a lower quality. Selected means the veneer will be selected from the highest quality veneers available. NOTE: Quality of veneer does not mean lower strength. Quality of veneer refers to the number and types of imperfections allowed. Please refer to our plywood specification sheet for further details on grading. Other grades can be provided on request.

## Sheet Sizes

Standard sheet size is 2400mm x 1200mm in 9, 12 and 15 and 17 mm thickness. Décortech can supply custom sizes when required. 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.

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## 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 cure instantly allowing for high productivity rates and a premium finish, making it a cost effective solution.

## Environment

Décortech Radiata Plywood is manufactured only from plantation grown Pinus Radiata and is a renewable resource. FSC Radiata Plywood is available on request.

## Formaldehyde Levels

SD Radiata has been tested by the EWPPA (Engineered Wood Products Association of Australasia) Brisbane laboratory and formaldehyde levels have been classified at super E0 - between 0.00 and 0.03 ppm which gives an acceptable rating for green buildings.

## 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 thru 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 17mm Radiata Plywood 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 or pinned to battens at 300mm centers.

## How to Specify

Specify:

1. Décortech Radiata Plywood
2. Sheet size and thickness
3. Perforation (Holes, slots, grooves, special) e.g. HR513
4. Perforation border, e.g. 50mm
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.



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## Samples

Samples are indicative only and as Radiata Plywood 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 or any edge discolouration.

## 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. Moisture content in Radiata 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 1mm and 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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