



DÉCORTECH FIRESAFE RADIATA PLYWOOD

TECHNICAL DATA SHEET FS001

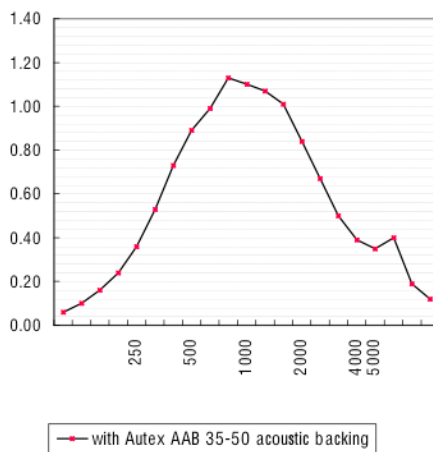
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Example of Acoustic Testing Results for SR1068 Slotted Panel

Sound Absorption Prediction

NRC 0.80 14% Open Area



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

Décortech Firesafe Radiata Plywood is a hard wearing clear satin finished radiata plywood with a fire resistant pre-treatment and fire resistant coating.

Documents Referred To:

NZS2267
NZ/Aust 2269:2003
AS/NZ1530.3

Product Features

- Pre finished panel that retains the look and beauty of natural wood (when clear coated) with the safety of fire retardancy
- Fire resistant solution dries to a hard finish
- ASNZ 1530.3 (0,3)
- Excellent scratch and stain resistance
- One stop solution - no need for onsite application of intumescent products
 - Increases flexibility
 - Decreases cost and time onsite
 - Reduces potential onsite issues such as spills or overspray
- UV Cured fire resistant coating
- A cost effective solution

Finish/Appearance

Finished with Décortech factory applied UV paint Décortech Firesafe Radiata Plywood has a hard wearing, scratch resistant satin finish to give a clear natural look. Also available tinted to give a blonde and white satin finish.

Perforation Patterns

All Décortech standard perforations are available including slots, holes and multigroove which can be made using 17mm thick ply as well as custom designed perforations. For standard perforations available please visit our website at www.decortech.co.nz.

Uses

Décortech fire rated Radiata is suitable to be used for wall and ceiling linings. It is ideal in the most critical applications such as entrance areas and exit corridors especially those used for emergency exit in case of fire.

Acoustics

Fire rated 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. Acoustic backing can be applied to the panels to increase the acoustic properties. Please see our website for specifications 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. Radiata when harvested presents an easily worked log for the peeling of veneers used to make plywood.

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Décortech Plywood

Décortech supply as standard SD grade plywood. '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.

Moisture content 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.

Fixing Options

Walls:

Batterns or studs at 600 centers maximum for 2400 x 1200 panels fixing at 200 mm centers maximum around perimeter and 400 centers maximum through centre area of panel.

Ceilings:

Batterns at 400 centers maximum for 2400 x 1200 panels fixing at 200 centers maximum around perimeter and 400 centers maximum through center area of panel.

Fixing options as below depending on how sheet is sold.

Option 1 – Plain sheet

For concealed fixing recommend good quality builders adhesive. If screw fixing is desired then use 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 thru which to screw fix. For surface screw fixing use countersunk stainless screws 7 gauge x 25mm long minimum.

Option 3 - Acoustic sheets with multi-hole configuration

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 thick radiata plywood in full panel size only – not available as planks. Recommend use of customized pneumatic staple gun (available for hire from Décortech) Staple to batterns at 300mm centers.

NB: Acoustic panels are supplied with Decoustic 85 felt bonded to the back of the sheet.

Fire Rating

Décortech fire resistant radiata has been tested by AWTA Laboratories to New Zealand Standard AS/NSZ 1530 Part 3. The test gave a 0 (zero) spread of flame index and 3 smoke developed index. The Décortech factory applied felt backing also has a 0, 3 fire rating.

Fire Treatment

Décortech pretreat the plywood with a proprietary flame resistant treatment that penetrates the plywood. After drying fire resistant UV fire resistant finish is applied. In cases where the plywood is machined with acoustic penetrations the fire treatment is done after machining to ensure the penetrations are suitably protected. Any grade of Radiata plywood can be treated with our Fire resistant coating as lower grades such as CD plywood or even DD grades can be ideal for less visible areas.

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Sheet Sizes

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

Formaldehyde Levels

Plywood formaldehyde levels are very low – between 0.00 and 0.03 ppm which gives an acceptable rating for green buildings. SD radiata has been tested by the EWPPA (Engineered Wood Products Association of Australasia) Brisbane laboratory to comply with an E0 rating.

How to Specify

1. Specify 'Décortech 0-3 Fire Rated Radiata Plywood Pre-finished Panel'.
2. Specify the size of sheet, thickness of ply required, and grade of face and back required. Our standard ply is SD but we can fire retard any grades if desired. Please note that fire resistant treatment is not affected by grade specified.

Care Instructions

We recommend cleaning the panels when required with a warm damp cloth. Avoid 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, in dry conditions, away from direct sunlight or covered with an opaque wrapping. Note: Panels will change colour if exposed to light so must be stacked squarely on top of one another to avoid marking.

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 perfectly at a later date.



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