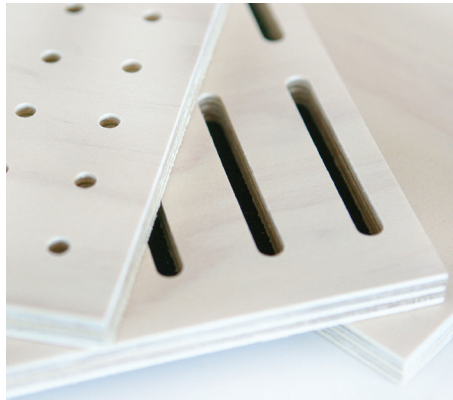




DÉCORTECH FIRESAFE DÉCORPLY PLYWOOD

TECHNICAL DATA SHEET DP001

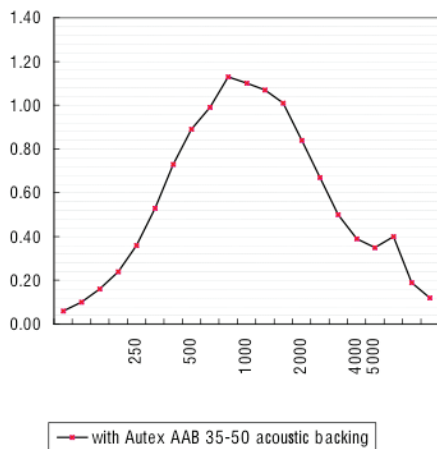
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Example of Acoustic Testing Results for SR1068 Slotted Panel

Sound Absorption Prediction

NRC 0.80 14% Open Area



For further information regarding Décortech Décorply Firesafe Plywood please contact Justine Atonio on the following:

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www.decortech.co.nz

Product Description

Décortech Firesafe Décorply Plywood is a fire-resistant plywood finished with a hard-wearing satin finish available in a range of custom colours.

Documents Referred To:

New Zealand Building Code (NZBC) Verification Method C/VM2 Appendix A.

Product Features

- Pre-finished panel that retains the look and beauty of natural wood with the safety of fire retardancy
- Acoustic, decorative and fire-retardant properties in one panel.
- Fire resistant coating dries to a hard finish
- Excellent scratch and stain resistance
- No messy on-site applications. Panels arrive ready to install and require no further work.
- Group 1S fire rating

Finish/Appearance

Décortech Firesafe Décorply Plywood is generally a light coloured plywood with a clean face. Finished with Décortech factory applied fire resistant coating system, Décortech Firesafe Décorply Plywood has a hard wearing, scratch resistant satin finish to give a clear natural look. It is also available in our custom Blonde, Nude, Ivory, Ash, Blackwood and Nordic finishes.

Uses

Décortech Firesafe Décorply Plywood allows timber panels to be used in spaces that they previously could not be due to fire requirements. It is perfect to use when the aesthetic qualities of wood are desired with the safety of a fire-retardant solution. 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 the most critical applications such as entrance areas and exit corridors especially those used for emergency exits in case of fire.

Perforation Patterns

Combine the natural warmth of Décortech Firesafe Décorply 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 Firesafe Décorply 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

Décortech Firesafe Décorply Plywood is a creamy white, clean faced, lightweight, dimensionally stable substrate with a high-quality edge detail for improved aesthetics. A white glue line gives a clean, light edge making it perfect for decorative applications. Décortech sources all Plywood from sustainably managed forests with FSC or PEFC certifications.

Sheet Sizes

Standard sheet size is 2400mm x 1200mm in 12 and 15mm thickness. Please note: not all thicknesses are suitable for all applications, for advice please discuss your specific project requirements with us. Other sizes can be sourced on request. Décortech also rout to custom sizes as well as supplying negative edge details and specialist edge details such as miters or rebates.

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Décortech Plywood

Décortech supply S grade plywood as standard. 'S' stands for selected and defines the veneer quality used on the face. 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.

Fire Rating

Décortech Firesafe Décorply Plywood meets a Group 1S fire rating.

Fire Treatment

Décortech pre-treat the plywood with a proprietary flame-resistant treatment that penetrates the plywood. After drying a UV fire resistant finish is applied.

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 Firesafe Décorply Plywood is manufactured only from plantation grown sources and is a renewable resource. Environmental certificates are available on request.

Formaldehyde Levels

Décortech Firesafe Décorply Plywood formaldehyde levels have been classified as E1 – Low formaldehyde emissions – 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 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

Specify:

1. Décortech Firesafe Décorply 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 grain and occasional imperfections. Fire Retardant Coatings may vary between batches due to particle distribution, which is inherent in 'Fire Retardant' UV coatings. 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 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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