



This photo depicts Décortech MDF with
Décortech Factory applied clear satin finish

DÉCORTECH MDF

TECHNICAL DATA SHEET MDF001

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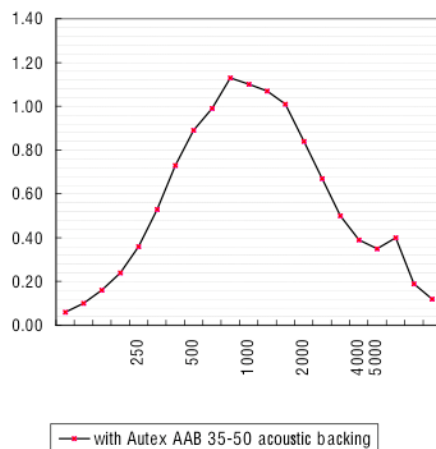


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Example of Acoustic Testing Results for SR1068 Slotted Panel

Sound Absorption Prediction

NRC 0.80 14% Open Area



For further information regarding Décortech MDF please contact Décortech.

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Product Description

MDF is a Medium Density Fibreboard.

Product Features

- An excellent substrate for a wide range of finishes including timber veneers or painted finishes.
- An environmentally friendly product
- Less expensive than many natural woods
- Good acoustic properties meaning increased noise reduction
- Perforates easily to create perfect acoustics for any space
- Prefinished panels prevent the need for additional onsite trades after installation

Finish/Appearance

Décortech MDF is used as a substrate that can be combined with either a real timber veneer to provide a natural warm finish or with Décortech factory applied UV satin paint finish for a fresh, clean look.

A large choice of natural timber veneers is available offering the beauty, warmth and individuality of natural timber.

Standard paint finishes are clear, white, black and black white. Other colours are available on request and subject to special pricing.

Uses

Décortech MDF with a real timber veneer or painted finish is ideal to use for wall and ceiling linings, decorative and acoustic panels, display panels and partition screens.

Perforation Patterns

Combine the natural warmth of a real timber veneer with the acoustic properties of perforations. All Décortech standard perforations are available including slots, holes and Multigroove as well as any custom designed perforations. Custom sizes, cut-outs for utilities, and negative edge details can also be provided. Prestige or Concept drop in ceiling tiles are available in either flat or perforated finish. For the 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 MDF is an ideal material to specify for acoustic attenuation as MDF is a good acoustic absorber. 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 increase the acoustic properties. Décortech panels have been tested to ISO11654 by University of Auckland in conjunction with Marshall Day Acoustics. Please see our website for acoustic properties 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 MDF is a medium density fibreboard that is light brown in colour and density is approximately 700m³.

Sheet Sizes

Standard panel sizes are 2400 x 1200mm available in 9mm, 12mm, 15mm, 18mm and 25mm thicknesses. 3660 x 1200mm available in 12mm, 16mm, 18mm and 25mm. An oversized option of 2440 x 1220 is also available. Other sizes can be sourced on request. Veneers are always pressed to face and back to prevent sheet curl. Timber veneer adds 1mm to total board thickness so 12mm becomes 13mm and 15mm becomes 16mm. 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.

Fire Rating

Décortech MDF has no fire resistant properties. Should a fire rating be required please refer to the Décortech Firesafe Radiata (SFI-0, SDI-3) or Décortech Firesafe MDF (SFI-0, SDI-5) Technical Specification Sheets or contact us for advice.

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Pre-Finishing

Décortech panels come pre-finished as standard by the Décortech Paintline. 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 or for samples of standard edge painting.

Environment

Décortech MDF is environmentally friendly and produced under an environmental management system that is certified to ISO-14001. FSC certified MDF is available on request.

Wood veneers are sourced from sustainable and renewable forests and EC, FSC and COC veneers can be provided on request.

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.

Formaldehyde Levels

E0 MDF can be provided on request.

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. Stepped slots do not come painted as standard. Please specify at time of ordering if this is required. If required, please contact Décortech for a sample of our standard finish for stepped slots. For surface screw fixing use countersunk stainless 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

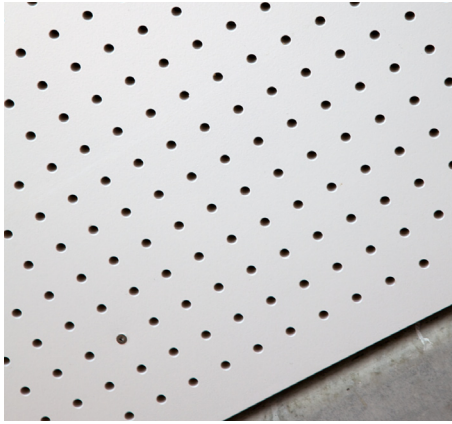
Available on 15mm Firesafe MDF in full panel size or Multigroove planks. For panels we recommend use of a customized pneumatic staple gun (available for hire from Décortech) or panel pins. Panels should be stapled to battens at 300mm centers. For Multigroove planks we recommend the Décortech rail and clip system (available from Décortech).

How to Specify

Specify:

1. Décortech MDF
2. Sheet Size and Thickness
3. Type of Timber Veneer if required.
4. Type of acoustic perforations (holes, slots, grooves, special) if applicable, e.g. HR513.
5. Perforation boarder, if applicable e.g. 50mm.
6. Décortech Factory applied UV satin finish and state colour required e.g. clear, white etc.
7. Decoustic 85 bonded to back, if applicable.

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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 veneers are natural wood there will be variations in colour and grain and occasional imperfections. Should a colour match be required to a sample this must be noted and the sample provided at time of ordering. 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.

Veneers

Please note darker veneers have greater colour variations and veneers will vary in colour and grain. Veneers can be grain matched to ensure no inconsistencies however, should this be required an additional 10% cost will apply. Should you require a close colour match when using veneer please supply a sample for colour matching at the time of order and we will endeavour to match as close as nature will allow. Due to such variations, to achieve best possible consistency across a project, all the veneer required to complete the job should be ordered and pressed at the same time as colour and grain cannot be guaranteed to match at a later date. In the case of large projects, it is best if several months' notice is given.

Installation

Décortech Acoustic Panels are for indoor use only. Before installation the building should be fully closed in and well dried out with ambient humidity between 25 - 85%. Maximum humidity in the underlying construction should not be more than 15%. Please note: for areas that have increased moisture or high humidity we recommend Plywood, please contact us for our Plywood options.

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 a dry, well-ventilated area away from extreme temperature fluctuations. It is important to protect the panels during storage by covering and protecting all parts that can be exposed to damage, light or moisture however, panels must not be left wrapped in a non-breathable material (i.e. plastic) for longer than 4 days. The panels must be stacked squarely on top of one another with a full cover sheet on top to avoid edge discolouration. Panels should not be exposed to natural light when being stored as wood is a natural material and changes over time when exposed to UV-light. The Décortech factory applied clear satin finish is also UV based and exposure to light will cause colour variations.

Precautions and Limitations

Décortech MDF is not recommended in exposed, damp or wet conditions and swells and breaks when in contact with water. It may warp or expand if not sealed. It should not be used in areas subject to high humidity. The MDF substrate may have significant colour variations from batch to batch.

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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