Acoustic









Manufacturers of acoustic and decorative panel systems for interior architecture since 1982.

Decustik designs and manufactures acoustic and decorative panels for walls, ceilings and furniture for auditoriums, theatres, restaurants, hotels, and all kind of interior projects with specific technical and design requirements.

Comfort criteria and building regulations stipulate an optimum reverberation coefficient for every kind of space, which is measured in seconds. This coefficient corresponds to the time taken by a sound to decay. Reverberation is the constant, irritating echo that makes it difficult to communicate and reduces the level of acoustic comfort. Reverberation can be controlled through the correct use of our products. Our technical team is at your disposal to study and define the solution that best suits the basic requirements of your project. The acoustic behaviour of a room can have an influence on the comfort, performance and quality of a space. This is why it is worth analysing the acoustics of a space and taking appropriate measures.

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acoustic panels

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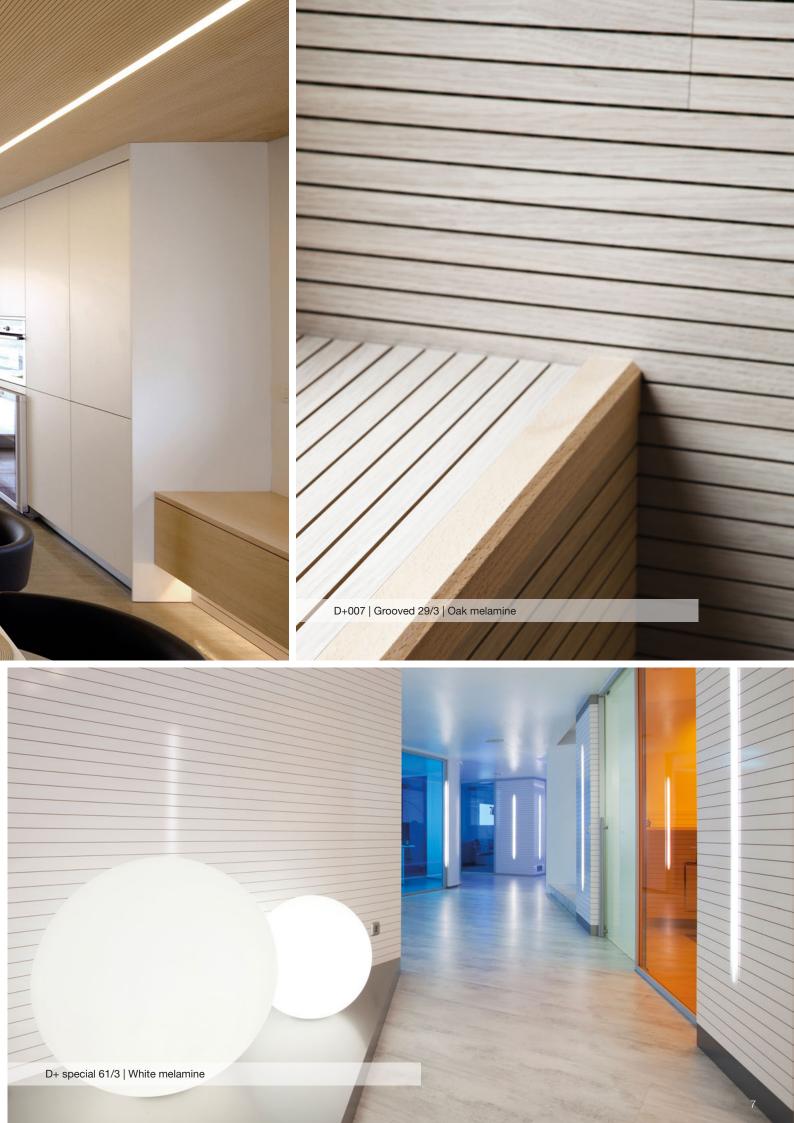


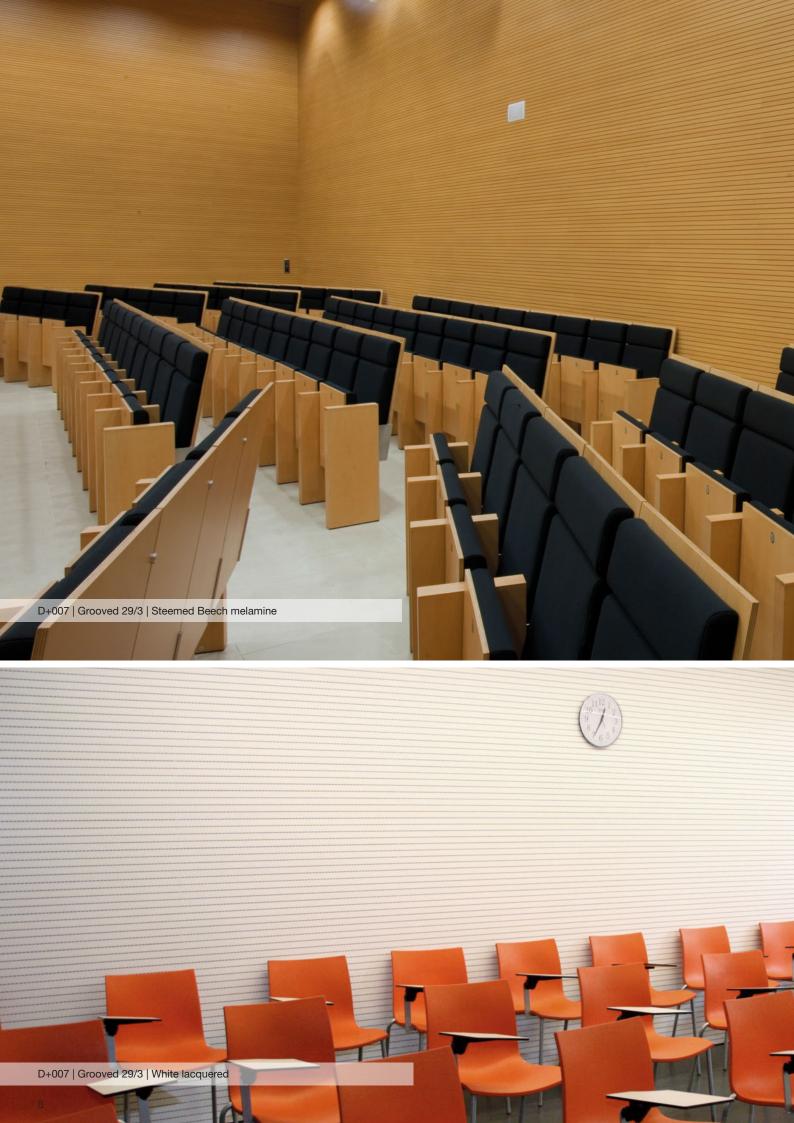




D+007 | Grooved 29/3 | Oak melamine

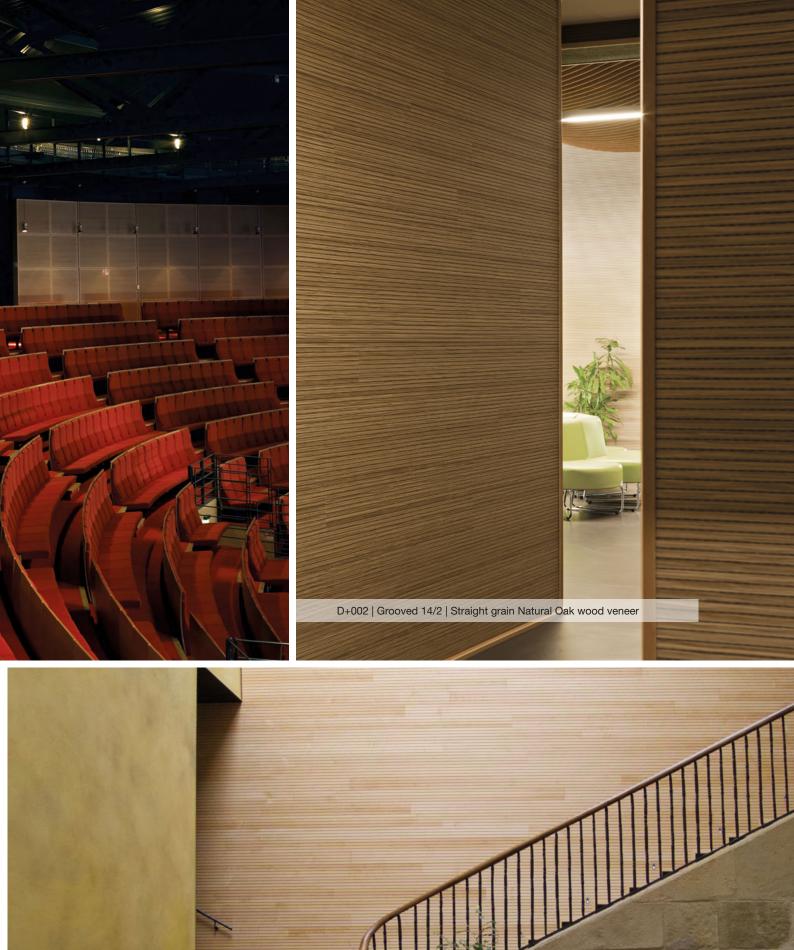
6











D+ System

Grooved slat system. Excellent acoustic properties. Attractive and modern design. Easy installation. For walls and ceilings.



Dimensions: standard slats measure 2430x128 mm and 16 mm thick. This same grooved design can also be manufactured on panels of 2400x1200, 2400x600, 1200x1200, 1200x600, 600x600 and other special dimensions.



Installation system: various installation possibilities over wooden battens or metal profiles, with clips or directly attached to the structure. In order to obtain an optimum absorption coefficient, it is necessary to leave a space of at least 30 mm between the back of the panels and the wall, filled with mineral fibre with a density between 30 and 40 kg/m³.



Materials and finishes: manufactured on MDF, our panels can be finished with a wide range of wood veneer species, RAL or NCS lacquers, laminates or melamine designs. The acoustic panels can also be produced with coloured fibreboard or plywood boards. We also supply accessories to improve the finishes of installations (decorative panels, skirting boards, corner pieces, trims, etc.).



Images on D+: we can reproduce images and personalised patterns on the grooved panels by changing the thickness of the machined lines, with highly personalised decorative results.



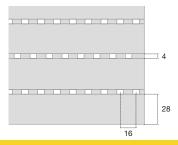
Important: on walls with light-coloured wood finishes such as Maple, Beech or light-toned lacquered finishes, it is recommended to use D+002, D+007 and D+009 models in order to avoid undesirable optical effects.

D+001

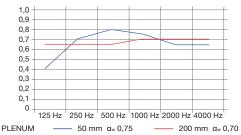
CHARACTERISTICS

Groove	28 / 4
Hole diameter	10 mm
Spacing	16 mm
Perforated area	7,6 %
Thickness	16 mm
Class	C

DIMENSIONS



ACOUSTICS

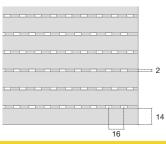


D+002

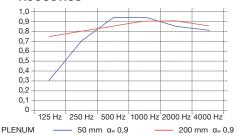
CHARACTERISTICS

Groove	14 / 2
Hole diameter	10 mm
Spacing	16 mm
Perforated area	7,7 %
Thickness	16 mm
Class	Α

DIMENSIONS



ACOUSTICS

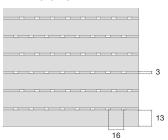


D+003

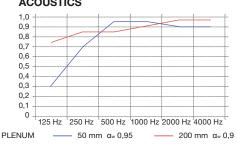
CHARACTERISTICS

Groove	13 / 3
Hole diameter	10 mm
Spacing	16 mm
Perforated area	11,5 %
Thickness	16 mm
Class	А

DIMENSIONS



ACOUSTICS

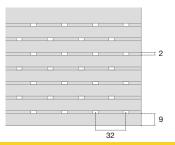


D+004

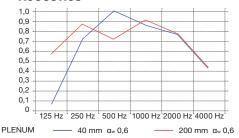
CHARACTERISTICS

Groove	9/2
Hole diameter	10 mm
Spacing	32 mm
Perforated area	5,2 %
Thickness	16 mm
Class	C

DIMENSIONS



ACOUSTICS

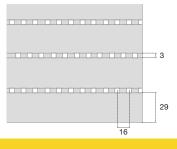


D+007

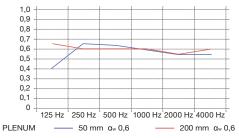
CHARACTERISTICS

Groove	29 / 3
Hole diameter	8 mm
Spacing	16 mm
Perforated area	4,7 %
Thickness	16 mm
Class	С

DIMENSIONS



ACOUSTICS

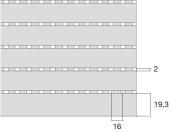


D+009

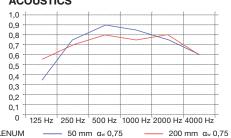
CHARACTERISTICS

Groove	19,3 / 2
Hole diameter	10 mm
Spacing	16 mm
Perforated area	6,2 %
Thickness	16 mm
Class	C

DIMENSIONS



ACOUSTICS



^{*}More models available on our website: www.decustik.com





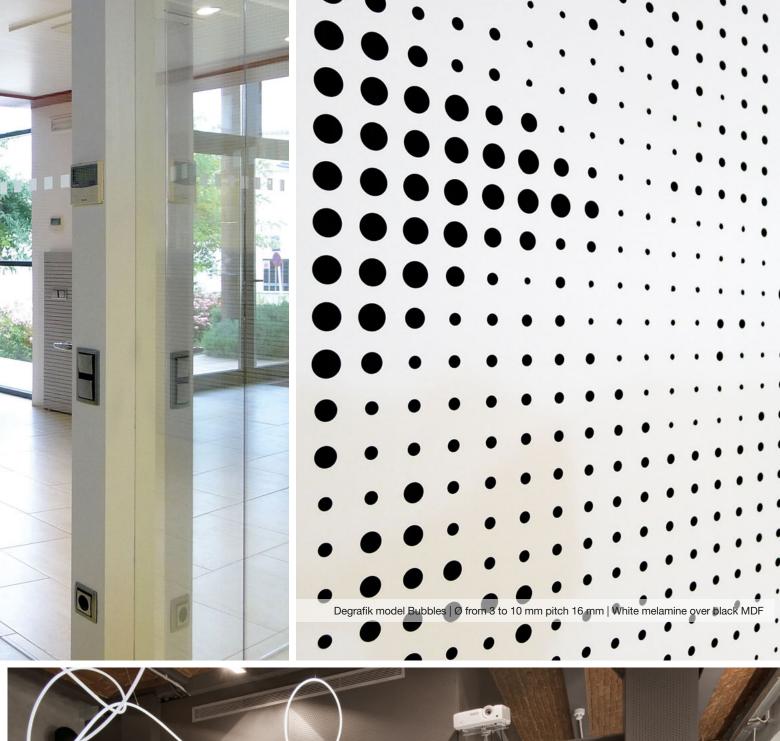








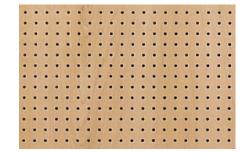






PAP System

Perforated acoustic panel system. Good acoustic absorption. Large range of perforation options. The level of acoustic absorption varies according to the type of perforation.



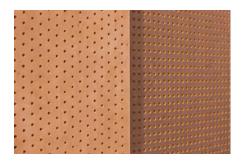
Dimensions: the standard dimensions are 2400x1200, 2400x600, 2400x300, 1200x600 and 600x600, with a thickness of 16 and 12 mm. In general, a thickness of 16 mm is used on walls for greater strength and 12 mm on ceilings to reduce weight.



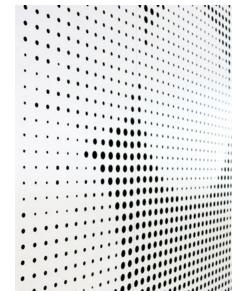
Installation systems: different mounting posibilities for both walls and ceilings. For walls, we generally use hanging profile systems attached behind the panels and with perimetral grooves and tongues to facilitate installation. For ceilings, we manufacture our panels adapted to all hanging systems existing on the market.



Materials and finishes: manufactured on MDF, our panels can be finished with a wide range of wood veneer species, RAL or NCS lacquers, laminates or melamine designs. The acoustic panels can also be produced with coloured fibreboard or plywood boards.



Perforation characteristics: the most common perforation diameters are 5 and 8 mm, with a pitch spacing of 16 or 32 mm, either aligned or staggered. They can also be made with a double diameter (different diameters on each face). Perforation can be personalised, turning an image into a pattern of perforations of different diameters.



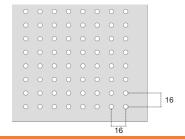
Designs: the whole panel or just a part of it can be perforated. Special machining can be performed to integrate luminaires and other equipment.

PAP015

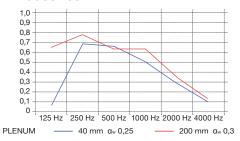
CHARACTERISTICS

Hole diameter	5 mm
Spacing	16 x 16 mm aligned
Perforated area	7 %
Thickness	12 mm / 16 mm
Class	D

DIMENSIONS



ACOUSTICS

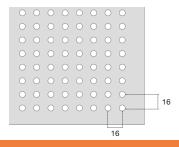


PAP018

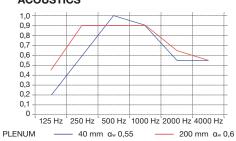
CHARACTERISTICS

Hole diameter	8 mm
Pas	16 x 16 mm aligned
Perforated area	19,6 %
Thickness	12 mm / 16 mm
Class	С

DIMENSIONS



ACOUSTICS

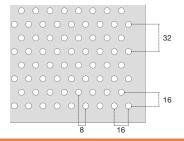


PAP028

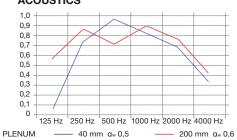
CHARACTERISTICS

Hole diameter	8 mm
Spacing	16 x 16 mm staggered
Perforated area	19,6 %
Thickness	12 mm / 16 mm
Class	C/D

DIMENSIONS



ACOUSTICS

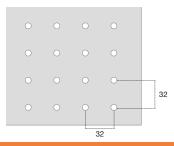


PAP038

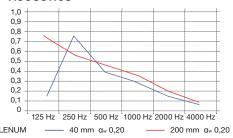
CHARACTERISTICS

Hole diameter	8 mm
Spacing	32 x 32 mm aligned
Perforated area	4,9 %
Thickness	12 mm / 16 mm
Class	E

DIMENSIONS



ACOUSTICS

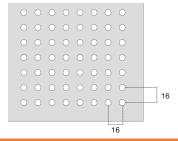


PAP110

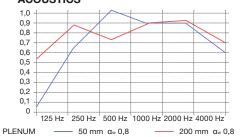
CHARACTERISTICS

Hole diameter	10 mm
Spacing	16 x 16 mm aligned
Perforated area	30,6 %
Thickness	12 mm / 16 mm
Class	В

DIMENSIONS



ACOUSTICS

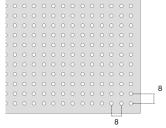


PAP003

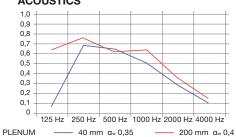
CHARACTERISTICS

Hole diameter	3 mm
Spacing	8 x 8 mm aligned
Perforated area	11 %
Thickness	12 mm / 16 mm
Class	D

DIMENSIONS



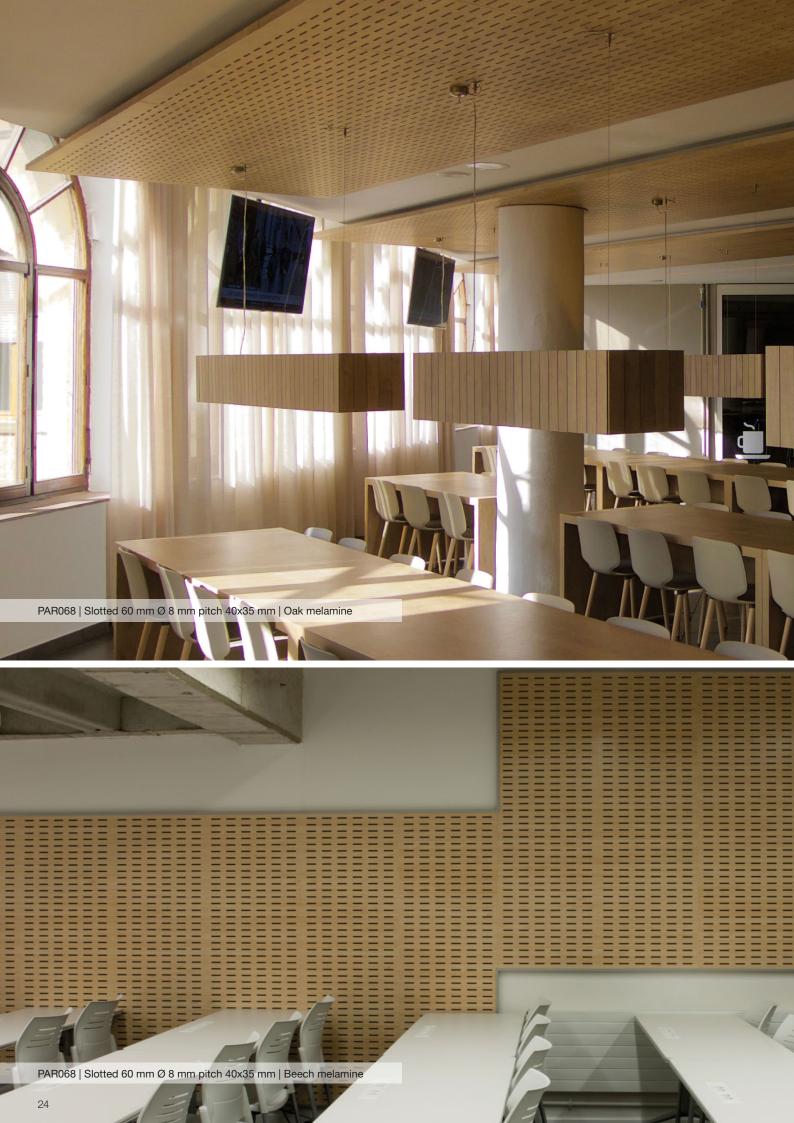
ACOUSTICS

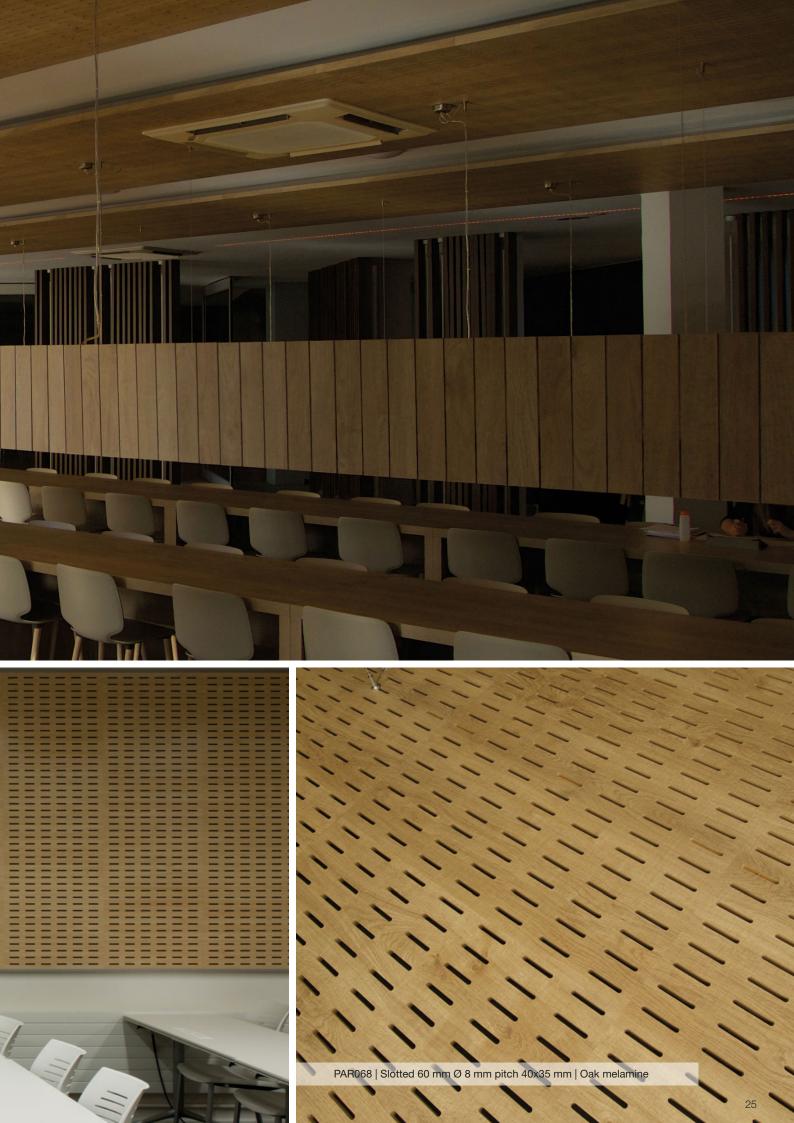


^{*}More models available on our website: www.decustik.com









PAR System

Slotted acoustic panels with different designs, also in sizes and formats for walls and ceilings.



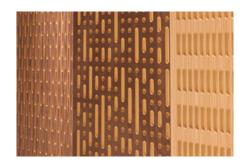
Dimensions: the standard dimensions are 2400x1200, 2400x600, 2400x300, 1200x600 and 600x600, with a thickness of 16 and 12 mm. In general, a thickness of 16 mm is used on walls for greater strength and 12 mm on ceilings to reduce the weight.



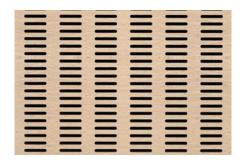
Installation systems: different mounting posibilities for both walls and ceilings. For walls, we generally use hanging profile systems attached behind the panels and with perimetral grooves and tongues to facilitate installation. For ceilings, we manufacture our panels adapted to all hanging systems existing on the market.



Materials and finishes: manufactured on MDF, our panels can be finished with a wide range of wood veneer species, RAL or NCS lacquers, laminates or melamine designs. The acoustic panels can also be produced with coloured fibreboard or plywood boards.



Perforation diameters and distances: the most commonly used perforations are 8 mm slots 60 mm in length, spaced every 20 or 40 mm.



Designs: we can put slots in the whole panel or leave parts without slots, and create unperforated perimeter or central areas. Special machining can be performed to integrate luminaires and other equipment.

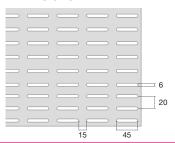


PAR046

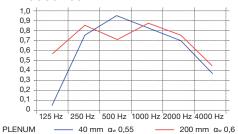
CHARACTERISTICS

Slot	45 mm x 6 diam.
Spacing	20 x 45 mm aligned
Perforated area	19,7 %
Thickness	12 mm / 16 mm
Class	C/D

DIMENSIONS



ACOUSTICS

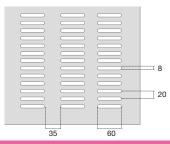


PAR058

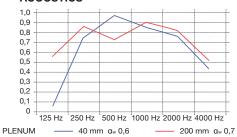
CHARACTERISTICS

Slot	60 mm x 8 diam.
Spacing	20 x 35 mm aligned
Perforated area	21,8 %
Thickness	16 mm
Class	С

DIMENSIONS



ACOUSTICS

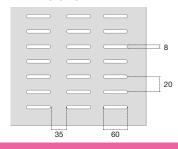


PAR068

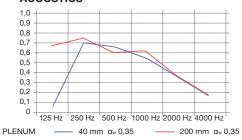
CHARACTERISTICS

Slot	60 mm x 8 diam.
Spacing	40 x 35 mm aligned
Perforated area	10,9 %
Thickness	16 mm
Class	D

DIMENSIONS



ACOUSTICS

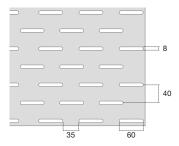


PAR078

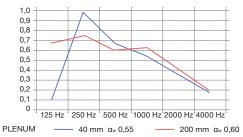
CHARACTERISTICS

Slot	60 mm x 8 diam.
Spacing	40 x 35 mm staggered
Perforated area	10,5 %
Thickness	12 mm / 16 mm
Class	D

DIMENSIONS



ACOUSTICS











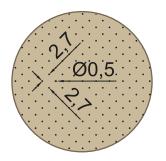


MICRO System

Microperforated acoustic panel system. Excellent acoustic absorption for public spaces, auditoriums and offices, with perforations that are almost invisible. Wide range of finishes in wood, lacquer or melamine.

Dimensions: the standard dimensions are 2400x600, 1200x600 and 600x600, with a thickness of 16 mm. Special dimensions on request.





Installation systems: various mounting options for walls and ceilings. The panels can be nailed or glued directly on to wood battens, or using specific mounting profiles. For ceilings, we manufacture our panels adapted to all hanging systems existing on the market. In order to obtain an optimum absorption coefficient, it is necessary to leave a space of at least 30 mm between the back of the panels and the wall, filled with mineral fibre with a density between 30 and 40 kg/m³.



Materials and finishes: manufactured on MDF, our panels can be finished with a wide range of wood veneer species, RAL or NCS lacquers, laminates or melamine designs.



Perforations: practically invisible perforations. Microperforations of 0,5 mm spaced every 2,7 mm and 137.000 perforations per square metre. We can also supply the same type of panel with or without perforations according to the acoustic needs of each space.

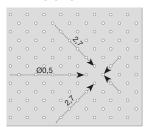


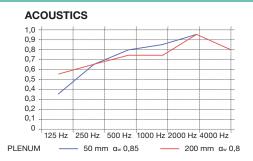
MICRO 05_01

Class

CHARACTERISTICS Hole diameter 0,5 mm Hole depth 0,7 mm Spacing 2,7 x 2,7 mm staggered Perforated area 2,7 % Thickness 16 mm

DIMENSIONS

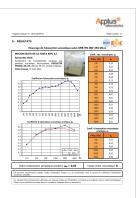




Acoustic absorption certificates

В







Sound absorption:

For most of our panels we have sound absorption coefficients determined by tests carried out in accordance with the EN ISO 354 standard in certified laboratories. The results are available in the data sheets of each model and in the laboratory test reports.







Fire reaction:

We carry out fire reaction tests in most of our manufactured products, based on the European EN 13501-1, American ASTM E84 and Canadian CAN / ULC S102 standards.



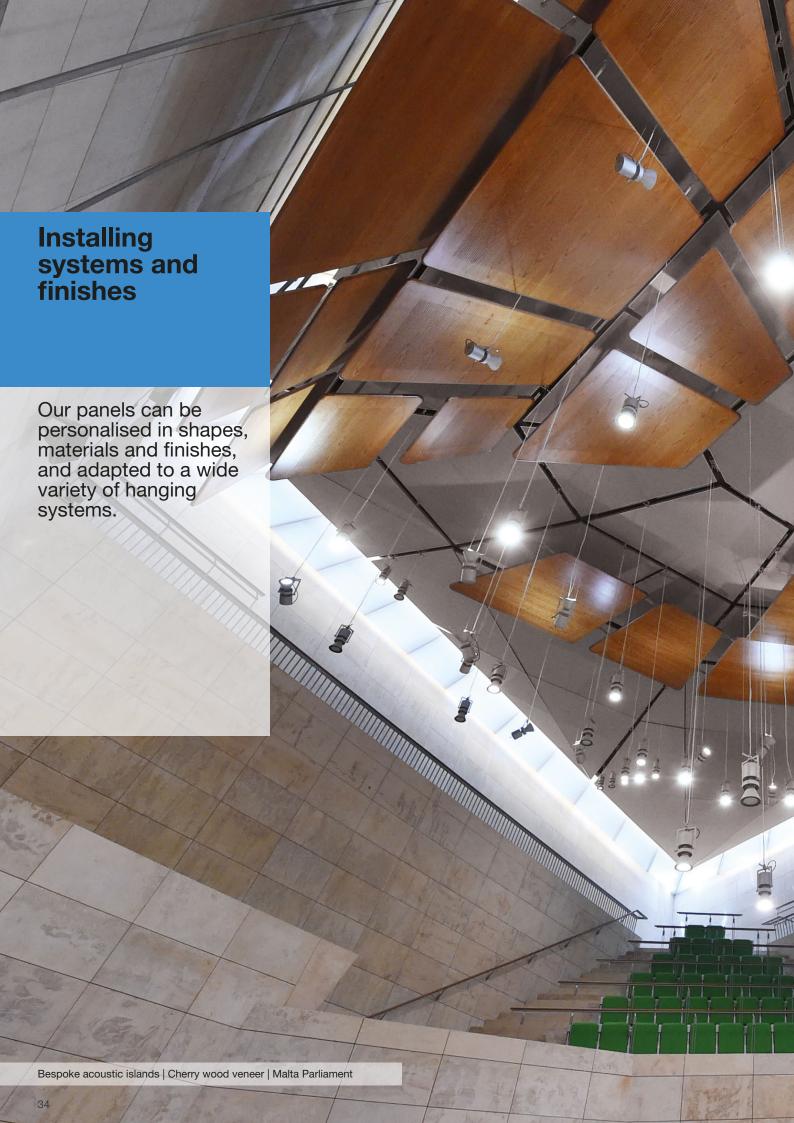




FSC® and PEFC ™ Chain of Custody Certificates

Decustik wood acoustic and decorative panels are available with FSC® or PEFC [™] chain of custody certifications. The FSC® and PEFC[™] certificates ensure that the wood we use to manufacture our products has sustainable origins that respect nature, the environment and people

^{*}More information on our website: www.decustik.com





Conditions for installation

Transportation boxes must be stored in a horizontal position and opened in a dry environment. Panels must be handled with care, avoiding impacts and scratches. Before installation boxes must be opened and panels must be positioned in the space where they are to be fitted for three to seven days, to become acclimatised to the humidity and temperature of the building. These are wood products, so the dimensions of the panels may change up to 1 mm per linear metre according humidity ambient conditions. Our panels have to be installed after all other work has been completed, in enclosed spaces, and when the humidity and temperature conditions correspond to those in which the panels will be used. Once installation has been completed, no work can be carried out that notably increases the degree of humidity of the premises. Most importantly, work involving concrete and gypsum must have been completed beforehand, so that these materials are dry.

The panels must be fitted in strict accordance with the recommendations.

Recommendations for installation

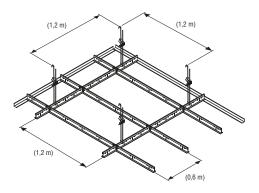
The wood veneered panels are manufactured from natural wood. Since these are natural products, neither their exact colour nor the uniformity of their appearance can be guaranteed. For the best results, we recommend to follow these steps:

- 1. Make the entire order so it arrives as one consignment.
- 2. Unpack all the panels before beginning to fit them.
- 3. Group the panels together in zones according to their colour and uniformity of appearance.

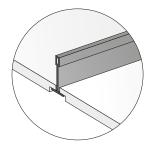
Furthermore, we would highly recommend ordering some additional panels to solve problems of unevenness of colour and possible accidents when they are fitted. If a subsequent additional order is made, it will be very difficult to obtain the same shade and texture of natural wood.

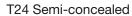
Installation systems

Ceiling tiles installation



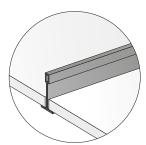
Panel with visible or semi-concealed profile



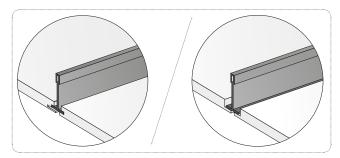




T15 Semi-concealed



T24 Visible

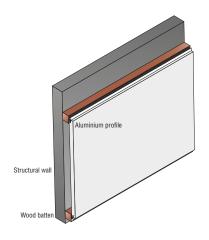


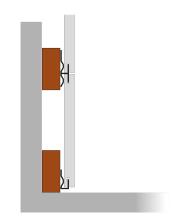
T24 V6 Removable concealed with groove of 6 mm



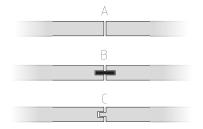
T15 Fine line

T profile for wall mounting





Wall installation for D+ grooved slats with Omega profile or wood batten



A - Straight edge

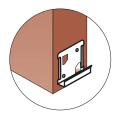
- B Loose-tongued joint
- C Tongue and groove



Start clip on Omega profile



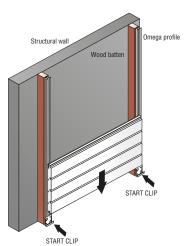
Standard clip on Omega profile



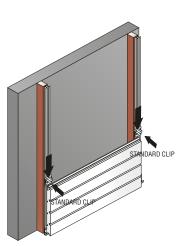
Start clip on batten



Standard clip on batten



Place a wood batten every 600 mm. Screw starting clip. Leave 5 mm to avoid direct contact from floor and humidity

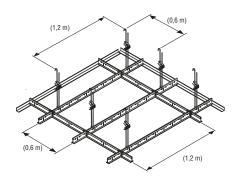


On Omega profile, one in every four clips has to be screwed

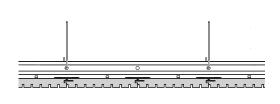


Lateral frame

Ceiling installation for D+ grooved slats with standard T24 profiles



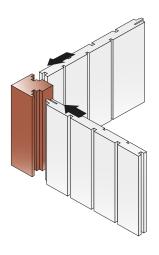
T24 profile standard grid



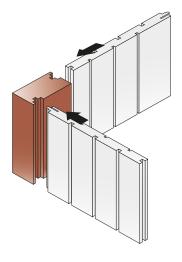
Ceiling installation for D+ with T24 profile

Corners and skirting boards

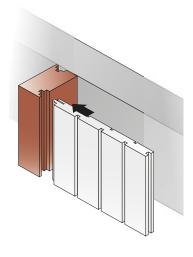
For walls with D+ grooved slats



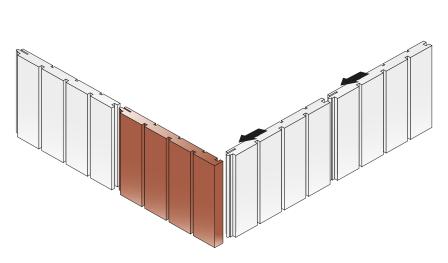




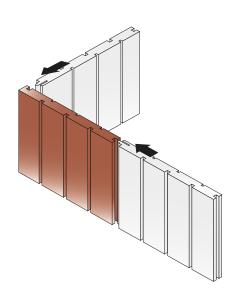
Corner piece of variable size



Lateral frame of variable size

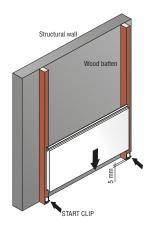


Tongueless slat with rear slot

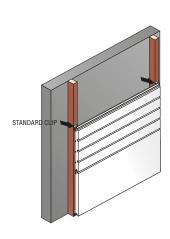


Grooveless slat with rear slot

Skirting boards



Skirting board slat



Important notice: leave 5 mm to avoid direct contact from floor and humidity.

Materials and finishes

Our manufacturing system allows us to create acoustic panels for walls and ceilings with a wide variety of materials and finishes to best suit the requirements of each project.

Most of our panels are manufactured with interior fibreboard or MDF panels, which can be fire-resistant or waterproof. We also frequently use coloured MDF, and especially black MDF core, in order to obtain a greater contrast with surface finishes. Plywood panels are used for greater dimensional stability or design purposes.

Our panels can be finished with a wide range of wood veneer species, RAL or NCS lacquers, laminates or melamine designs. We always work with high end manufacturers that meet the highest standards of quality and safety.



MDF wood panel



Coloured wood fibre panel



Plywood panel



Wood veneer



Decorative laminates from the principal manufacturers



Coloured lacquers as per RAL and NCS cards

Wood veneer



MAP.R Maple wood veneer cathedral grain



FBL.R White beech wood venee cathedral grain



FBU.L Steamed beech wood veneer straight grain



REU.L European oak wood veneer straight grain



BAMBOOVertical caramel



CIR.R Cherry wood veneer cathedral grain



NAM.R American walnut wood veneer cathedral grain



WEP.L Wenge wood veneer straight grain (reconstituted wood)

Melamine



MAPLE 012 Maple melamine



HAYA 012 Beech melamine



HAYA 016 Steamed beech melamine



CEREZO 018 Cherry wood melamine



ROBLE 012Oak melamine



BLANCO 012 White melamine



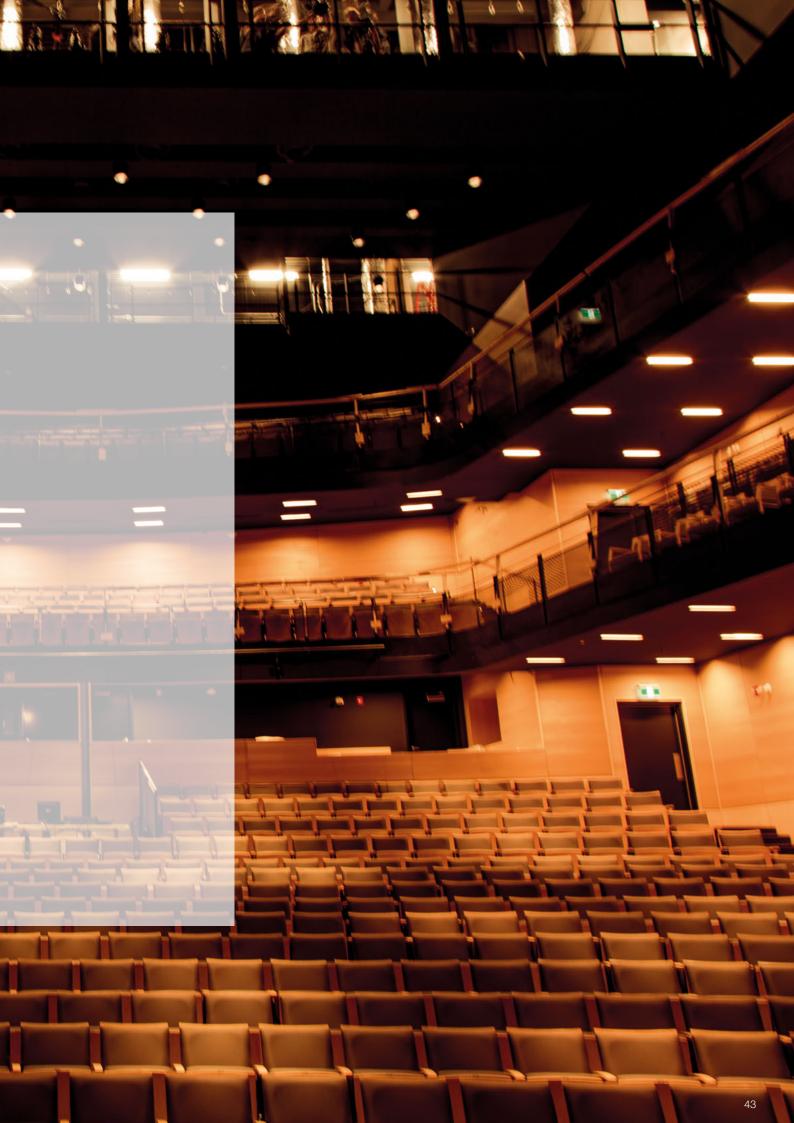
ALUMINIO 012 Aluminium melamine

We reserve the right to make modifications to our products. We avoid any responsibility for errors due to printing mistakes.

^{*}The products shown in this catalogue are printed photographic reproductions, so the products themselves may present variations in colour. Therefore, this catalogue –although the products shown are very true to life– is for illustrative purposes only.



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