



0.5 mm Micro-perforated VenueWood™

VenueWood™ Acoustic System

VenueWood™ is an engineered medium-density fiber (MDF) board designed for excellent sound absorption. With a natural wood grain and customizable dimensions, VenueWood™ is an attractive acoustic solution that raises the performance bar.

Key Benefits and Features

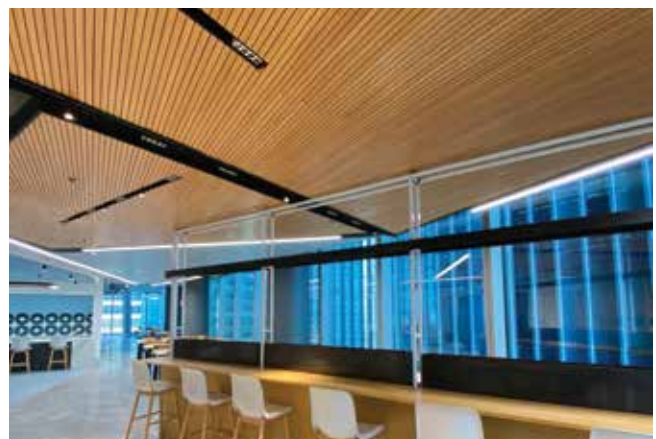
- Natural wood grain and patterns render a unique artistic effect
- Available with alternative finishes including engineered veneer and melamine
- Low formaldehyde emission
- High degree of fire-resistance, making it safe for schools and public spaces
- Excellent sound absorption with NRC of 0.85
- Customizable dimensions
- Easy installation

Applications

- Schools - gymnasium, assembly hall, computer and music room
- Meeting rooms
- Corporate offices
- Broadcast and TV stations
- Theaters and opera houses
- Airports and lounges
- Retail and shopping malls
- Research laboratories
- Factory shops



VenueWood™ for conference room



VenueWood™ for lounge area



Engineered Veneer Finishes



EV01 White Wood



EV02 White Maple



EV03 American Oak



EV04 White Oak



EV08 Yellow Oak



EV05 Whitewash Dyed Oak



EV07 Silver Pear



EV06 Dyed Oak



EV11 Thailand Teak



EV10 Black Walnut



EV09 Walnut

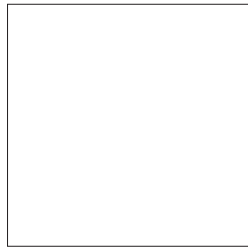


EV12 Wenge



EV13 Black Apricot

Melamine Finishes



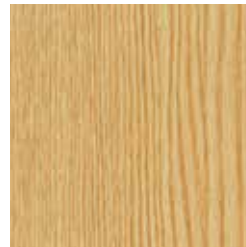
M01 White



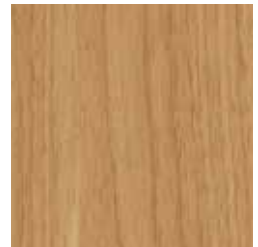
M03 Light Maple



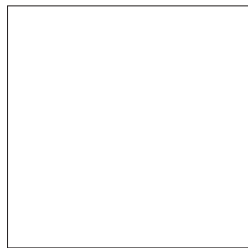
M05 Maple



M06 Oak



M09 Light Walnut



M02 Off White



M04 White Oak



M10 Teak



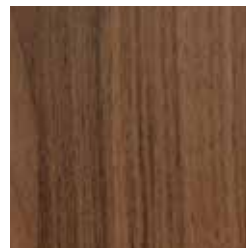
M07 Beech



M08 Cherry



M11 Walnut



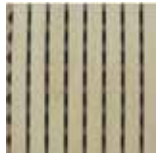
M12 Dark Walnut



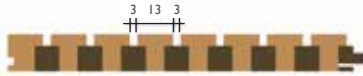
M13 Elegant Walnut



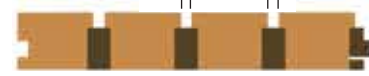
Grooved Patterns



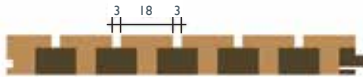
Style: 1127-G133
Width: 13 mm
Groove: 3 mm



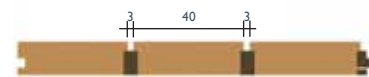
Style: 1138-G284
Width: 28 mm
Groove: 4 mm



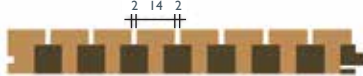
Style: 1128-G183
Width: 18 mm
Groove: 3 mm



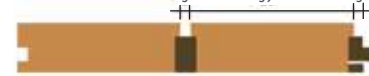
Style: 1137-G403
Width: 40 mm
Groove: 3 mm



Style: 1129-G142
Width: 14 mm
Groove: 2 mm

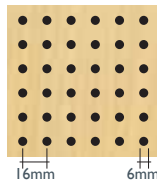


Style: 1139-G595
Width: 59 mm
Groove: 5 mm

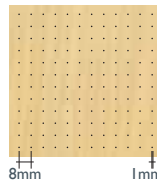


Standard plank size is 133 mm x 2430 mm x 15 mm. The short sides are clear out while the long sides have tongue and groove for easy installation. Custom sizes, patterns and edges are available upon request.

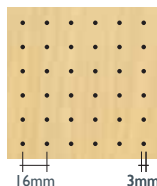
Perforated Patterns



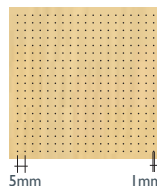
Style: 1130-PE166
Design: Linear Hole
Hole Pitch: 16 mm
Hole Diameter: 6 mm
Thickness: 15 mm



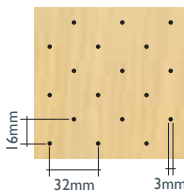
Style: 1132-PE081
Design: Linear Hole
Hole Pitch: 8 mm
Hole Diameter: 1 mm
Thickness: 15 mm



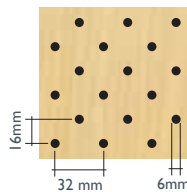
Style: 1131-PE163
Design: Linear Hole
Hole Pitch: 16 mm
Hole Diameter: 3 mm
Thickness: 15 mm



Style: 1134-PE051
Design: Linear Hole
Hole Pitch: 5 mm
Hole Diameter: 1 mm
Thickness: 15 mm



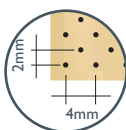
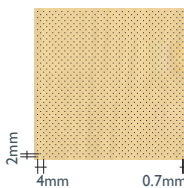
Style: 1136-PV323
Design: Rhombic Hole
Hole Pitch: 32 mm
Hole Diameter: 3 mm
Thickness: 15 mm



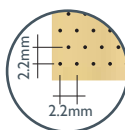
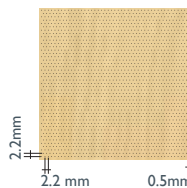
Style: 1135-PV326
Design: Rhombic Hole
Hole Pitch: 32 mm
Hole Diameter: 6 mm
Thickness: 15 mm

Standard panel comes in two sizes: 600 mm x 600 mm x 15 mm & 600 mm x 1200 mm x 15 mm, with all sides clear cut (non-grooved). Custom sizes, patterns and edges are available upon request.

Micro-perforated Patterns



Style: 1151-PV4-0.7
Design: Rhombic Hole
Hole Pitch: 4.0 mm
Hole Diameter: 0.7 mm
Thickness: 15 mm

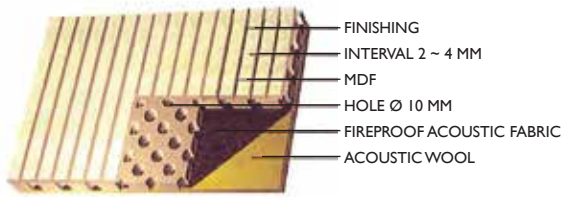


Style: 1152-PV2.2-0.5
Design: Rhombic Hole
Hole Pitch: 2.2 mm
Hole Diameter: 0.5 mm
Thickness: 15 mm

Standard panel comes in two sizes: 590 mm x 590 mm x 15 mm & 590 mm x 1200 mm x 15 mm, with all sides clear cut (non-grooved). Custom sizes, patterns and edges are available upon request.



Basic Material



VenueWood™ Acoustic System is 15 mm to 18 mm thick. A fireproof and sound-absorbing black thin acoustic fleece is attached to the back.

Connection

Grooved planks connect tongue and groove edges on the long side. Perforated panels connect groove or square edges on all sides.

Tolerance

Width: ± 1 mm
Length: ± 5 mm for grooved planks and ± 2 mm for perforated panels.

MDF cores and uses

VenueWood™ is available with different cores.

- Standard E1 core: General use
- Black core: For aesthetics
- Red core: Flame Retardant
- Green core: Moisture resistant and mildew-proof
- E0 core: Low formaldehyde emission

Finishes

VenueWood™ is available with different finishes and colors.

• Engineered Veneer

Engineered Veneers, also known as reconstituted veneers, are made from real wood but are engineered through pre-developed dye molds and templates. They are man-made veneer sheets designed to replicate natural veneer's distinctive grain patterns.

• Melamine

Melamine finish is identical in color and texture to natural wood veneer finish and lower in cost. A wood grain series, modern pattern series and a plain color series is available.

• Natural Wood Veneer Finish

Every wood type has a unique color and texture and all veneer finishes are made from natural wood.

• Customized Finish

Alternative finishes are available, including Formica® plastic laminate and paint.

Flammability

EN13501-1 Class B-s1-d0*

*Red core upon request

Formaldehyde

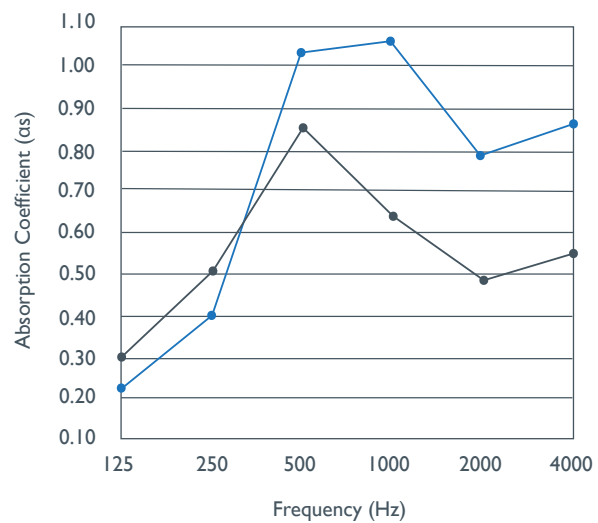
EN 717-1 Meets Class E1*

*Low emission E0 core upon request

Acoustic Performance

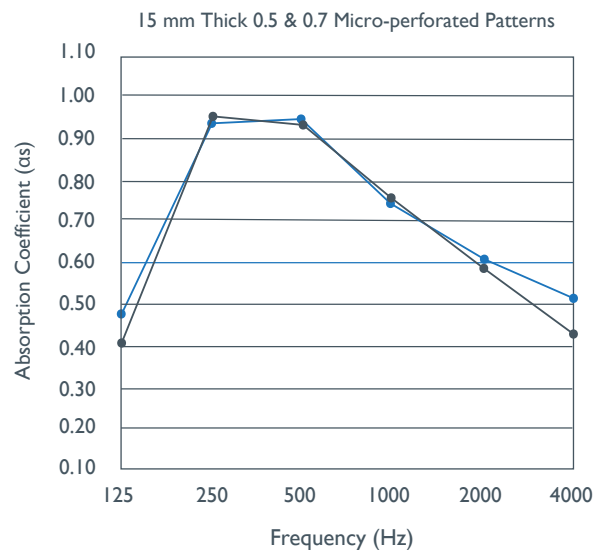
VenueWood™ is specifically designed to reduce and control reverberated (echo) noise in building interiors.

15 mm Thick Grooved Pattern & 18 mm Thick Perforated Pattern



Frequency (Hz)	125	250	500	1000	2000	4000	NRC
15mm Grooved Plank	0.22	0.40	1.04	1.07	0.79	0.86	0.85
18mm Perforated Panel	0.31	0.51	0.85	0.64	0.49	0.55	0.60

Sound absorption data on styles I127-G133 & I130-PE166, with 50 mm plenum cavity filled with 25 mm thick glasswool (Density: 48 kg/m³)



Frequency (Hz)	125	250	500	1000	2000	4000	NRC
0.5mm Micro-perforated	0.48	0.93	0.95	0.74	0.61	0.52	0.80
0.7mm Micro-perforated	0.41	0.95	0.93	0.77	0.59	0.43	0.80

Sound absorption data on styles I152-PV2.2-0.5 & I151-PV4-0.7, with 50 mm thick glasswool (Density: 48 kg/m³) and 100 mm air gap.



Installation Guidelines

VenueWood™ should be installed by experienced tradesmen having full knowledge of the product and installation procedures. The installation guidelines cataloged in this document are recommended by Innovasia Acoustics but they do not represent a complete reference to existing conditions.

Storage and Handling

Products must be stored in a sealed and moistureproof warehouse on a solid, flat and dry surface other than the floor. Direct contact with concrete floor and / or exposure to rain, moisture and sunlight should be avoided in any case. Lay the planks with proper support and protect on all sides with plastic foil against humidity.

At least 24 hours prior to installation, the place of installation must be prepared to have a recommended room temperature of 20°C and a relative humidity of 35% - 65%, exceeding 65% only a few weeks a year. Before installation, the product should be removed from the package and acclimatized for a few days to the temperature and humidity conditions of the premises, under the later terms of use.

Inspection

After unpacking and before processing, inspect the product thoroughly for any damage or faults. Do not install unacceptable or questionable quality planks. Innovasia will not be responsible for removal or replacement costs of unacceptable products.

Wall Preparation

Substrate should be dry, flat and even, free from dirt, dust, and have sufficient load-bearing capacity for the system. Uneven areas should be leveled to provide an even wall surface. Concrete block walls must be prepared fully. New concrete walls must have had sufficient curing time (generally 28 days) to ensure longer life span of the product. Wall must be free of hydrostatic pressure, moisture and excessive alkalinity. In any of these instances, a suitable approved sealer must be first applied and allowed to dry. All dust must be removed by wiping down with wet cloth and allowed to dry thoroughly.

Basic Installation

All dimensions and conditions should be verified on site before commencing installation. It is imperative that the installation is planned before cutting and installation.

Plank dimension should be checked again prior to installation. Pre-fit each plank before cutting and fixing in place. Always cut the planks using circular saw with narrow blade. The tongue and groove joint is machined very precisely; therefore push the planks together only by hand. In case the groove does not close neatly, check the joint for obstructive staples or residue.

Plywood Method

VenueWood™ planks can be fixed directly on plywood backing. The installation should be done from one direction in tongue and groove, with brad nail from middle to the side, into the groove of the planks. Never shoot on the surface of the planks.

Wood Lath Method

Pre-install wood lath to the substrate at the required distance with rust protected screws. Insert fiberglass insulation between wood laths. Install VenueWood™ by brad nail from one direction.



Care Guidelines

General Care and Cleaning

- Simply vacuum clean or wipe away dust with a soft and damp cloth.
- Avoid any moisture on the panel surface, wiping down moisture immediately.
- Do not use abrasive cleaners, powders, scouring pads, steel wool, sand paper etc. These can damage the finish and make the surface susceptible to staining. Silicone-based cleaning products must be avoided.
- Do not use strong acidic and alkaline cleaners or bleach for normal cleaning as these might etch the surface.
- Do not place hot objects, electrical appliances or pots straight from the oven or cooker on the surface.
- Do not cut on the surface.

Specific Care

- Long periods of direct sunlight on the surface will lead to a change in color, although under normal interior use color change is minimal and unavoidable.
- All water spills should be attended to immediately. Water left on panel can cause swelling and damage.
- Scratches can be minimized by being careful with objects on the surface, and never dragging sharp objects across the surface.



VenueWood™ for reception area