

H V Acoustic

Innovative Acoustic Solution

<http://www.hvacoustic.in>

HV Acoustic Grooved Acoustic Wooden Slats for ceilings and walls

In order to achieve a high acoustic absorption coefficient and a beautiful aesthetics

HV Acoustics is a well-known leader in specialty grooved acoustic wooden wall panel systems. These soundproof panels manufactured from beautiful wood are easy to install in any room of a public or private residence or building. Older buildings may also require removal of existing wood paneling and installation of new wood panels.

The latest in acoustic wood panels featured here are designed to higher engineering standards than in the past and are guaranteed to provide high sound quality. For every type of room in which music will be recorded, rehearsed, or performed, there are many benefits to the installation of acoustic wood panels.

Our acoustic wood products are made from superior wood materials and intended to minimize the level of sound reverberation. Choose from one of the available styles of wood acoustic panel to sound proof a room of any size. Acoustic linear wood panels are perfect for ceilings and walls.

System Description-

Acoustic panel system with high technical and aesthetic qualities. At the technical level it has a high absorption coefficient. Aesthetically it has a linear design, elegant and discreet, very suitable for acoustic conditioning that requires a high level.

Support materials and finishes & Material Specification

The support material is always MDF fiberboard wood panels, Made out of High density Moisture Resistance fiber board substrate with a melamine laminate facing finish and a melamine balancing layer on the reverse side, Panel Density will be (600Kg/m³ - 900Kg/m³) as per IS 14587:1998, Water Absorption % (Max.) after 02 Hours 4.05% as per IS 14587:1998 , Screw Withdrawal Strength (Min.) N at face 2200 as per IS 14587:1998 also test Passed to Resistance of Steam, Resistance of Cracking of Lamination under Heat, Resistance of Cigarette burn & Resistance to stain, Fire Performance (Flammability, Flame Penetration, Rate of Burning) Test Passed as per IS 1734 - 1983 (Pt-03), Other options available on request. HV ACOUSTIC panels have always a built-in veil on its back, in order to improve its sound absorbing qualities.

Acoustic Performance & Fleece Backing

Panel features saw cuts (mills) on the face and perforations on the back. Panel is typically installed with 50mm of acoustic insulation to the rear. Acoustic performance varies dependant on the "open area, Non-woven, acoustically invisible fleece is typically fixed to the acoustic foam for a black-out effect in the panel opening

Installation

Groove acoustic panels are typically installed on to battens in a simple tongue and Groove fashion to create a seamless finish. The cavity should include a sound absorbing Insulation which will increase the acoustic performance. Panels can be mounted either with the Grooves running horizontally or vertically.


Applications

Acoustic correction with high aesthetic level. Applicable to walls and ceilings.

Technical Properties With Slats Patterns

Our wooden grooved acoustic panel is made up of a series of slats and grooves. Each panel has a machined tongue and groove joint for a seamless joinery. HV ACOUSTIC wooden grooved panels come in **5 different patterns: 28-4, 14-4, 28-2, 14-2 and Random**. The first number refers to the slat size (mm) and second number refers to the groove size (mm). The surface comes in melamine finishing, The base material can be made of MDF and HDHMR.

Panel Specification

Standard Measurements	2440 x 384 mm	
	2440 x 1184 mm	
	2440 x 128 mm	
	Size can be customized	
Thickness	11 mm , 12 mm , 15 mm , 16 mm 17 mm , 18 mm , 25 mm	
Sound Absorption	Upto 0.9 NRC, tested as per IS: 8225 / ISO: 354 / ASTM 423C	
Density	(600Kg/m3 - 900Kg/m3) as per IS 14587:1998	
Materials	Melamine laminate facing finish MDF as per IS 14587:1998	
Fire Performance	Flammability, Flame Penetration, Rate of Burning Passed as per IS 1734 - 1983 (Pt-03)	
Slotted Standard Pattern	28/4 , 28/2 , 14/4 , 14/2 and Random Design as per Client or Ar. Choice.	
Applications	Acoustic correction with high aesthetic level. Applicable to walls and ceilings.	
Note	For Other Material Dimension And Thickness Contact Http://www.hvacoustic.in/	

HOW THE PANELS ABSORB SOUND

As well as the slits in the face, Groove panels have large cut-outs to the rear or the centre which meet with the slits in the front, creating perforations. These perforations, combined with a cavity behind the panel create resonance, due to the air in the cavity which acts like a spring. In combination with damping, typically provided by a layer of Acoustic Insulation in the cavity, to reduce sound energy. This is know as a Helmholtz absorber. Changing the perforation pattern (in this case by selecting the width between the slits) alters the acoustic performance. Differences in the cavity depth and absorbent material in the void also have consequences.

HV Acoustic panels have always a built-in veil on its back, in order to improve its sound absorbing qualities

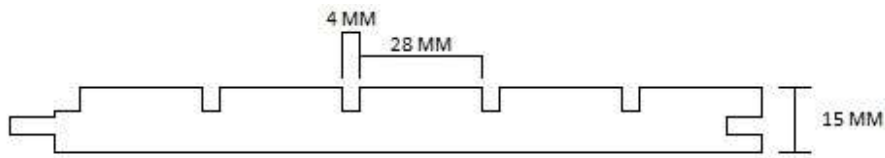
HV ACOUSTIC Grooved Acoustic Wooden Slats come in 5 different patterns: 28-4 , 14-4 , 28-2 , 14-2 and Random

Features - Grooved Acoustic Wooden Slats (G-28/4)

Slotted - 28/4

Hole Diameter - 10 Ø MM

Spacing - 28 mm

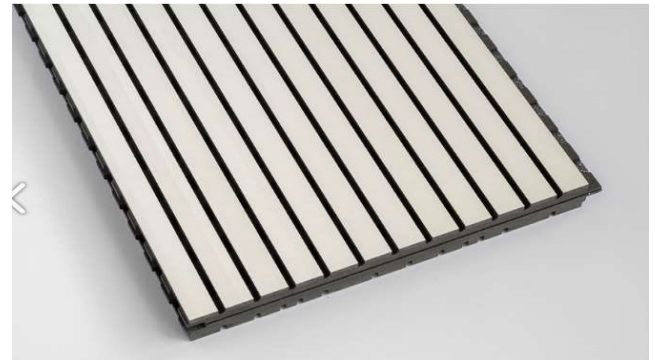
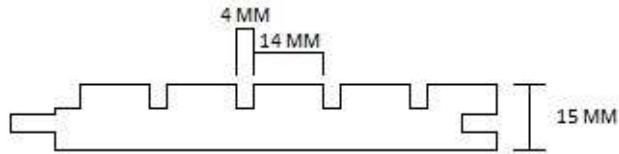


Features - Grooved Acoustic Wooden Slats (G-14/4)

Slotted - 14/4

Hole Diameter - 10 Ø MM

Spacing - 28 mm

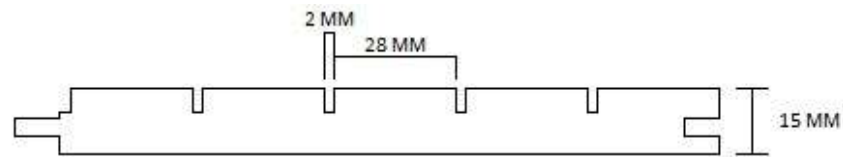


Features - Grooved Acoustic Wooden Slats (G-28/2)

Slotted - 28/2

Hole Diameter - 10 Ø MM

Spacing - 28 mm

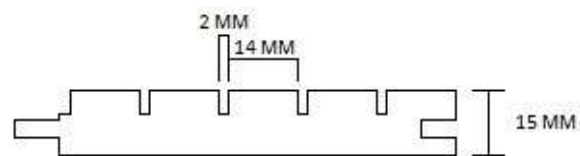


Features - Grooved Acoustic Wooden Slats (G-14/2)

Slotted - 14/2

Hole Diameter - 10 Ø MM

Spacing - 28 mm



Features - Grooved Acoustic Wooden Slats (Random)

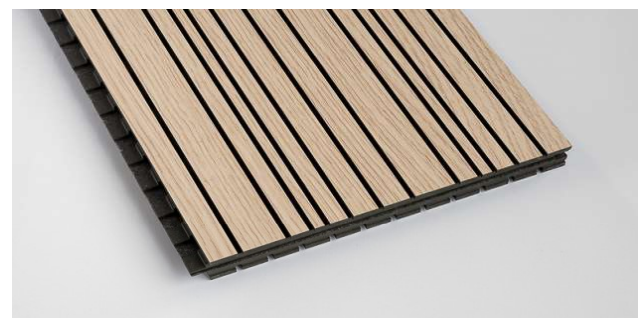
Slotted - Random

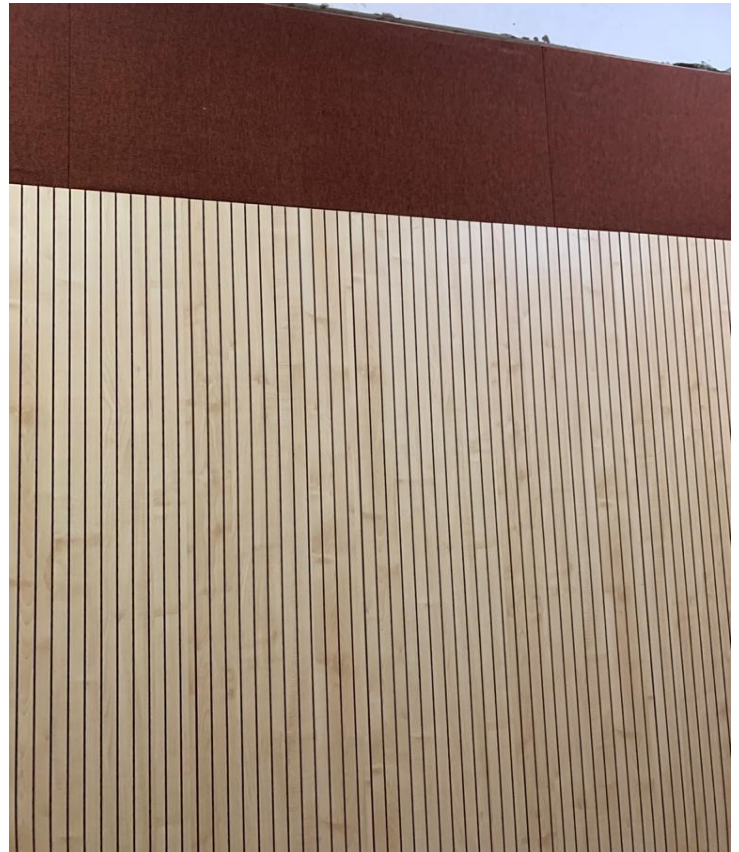
Hole Diameter - 10 Ø MM

Spacing - 28 mm

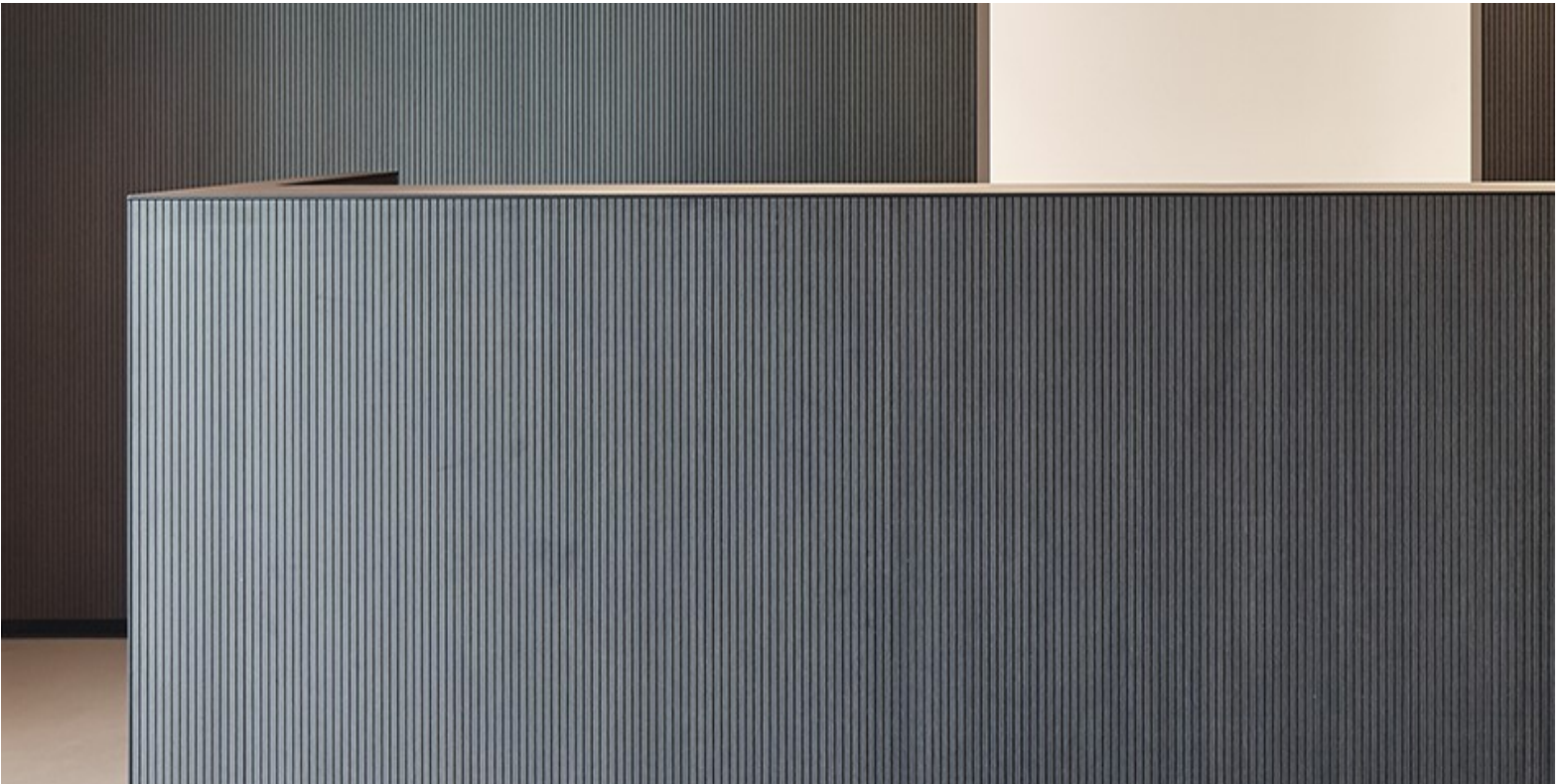
Groove 2 MM or 4 MM

Pitch 28 MM / 14 MM Mix











ABOUT US

HV Acoustic design and manufacturing Company has been leading the way in Noise control, Acoustics, Insulation and Green Building Products. We design, manufacture and test performance of our noise control / acoustic products for a wide variety of applications and delivering the solutions to our customers need, where they need them and we “HV Acoustic” is a leading professional Acoustic Treatment & design services provider in India with acoustical expert consultants advice on lowest cost in Delhi India



**If you have any
kind of query,
please don't
hesitate to
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