

Nano Perforation: An invisible solution for high acoustic absorption

PRODUCT SPECIFICATIONS:

- Nano perforated wood veneer hides the sound-absorbing core material
- Acoustic properties till α_w 0.95, NRC 0.90 and SAA 0,90
- Available for ceiling and wall panels
- Maximum size nano perforation is 2780 mm x 1200 mm
- Different ceiling types - concealed, semi-concealed and visible system
- 16 mm fire-retardant MDF
- High-grade veneer or HPL melamine top layer

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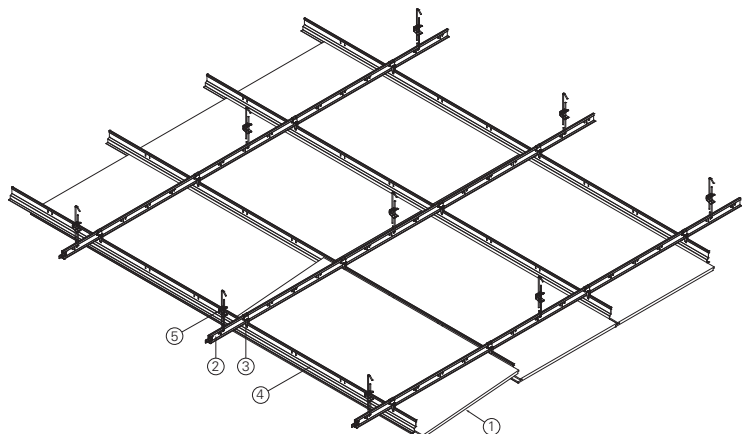
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Project : Amity University, Dubai, United Arab Emirates
Product : Veneered Wood Ceiling and Wall panels, Cherry veneer
Architect: IR Design

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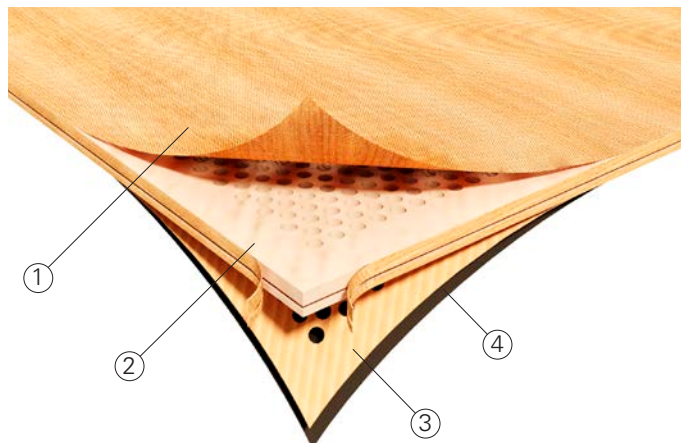
SYSTEM OVERVIEW CEILINGS

- 1 = Wood veneered ceiling panel type Prestige
- 2 = T24 main profile
- 3 = Cross Lock bracket
- 4 = Stepped profile
- 5 = Quick hanger



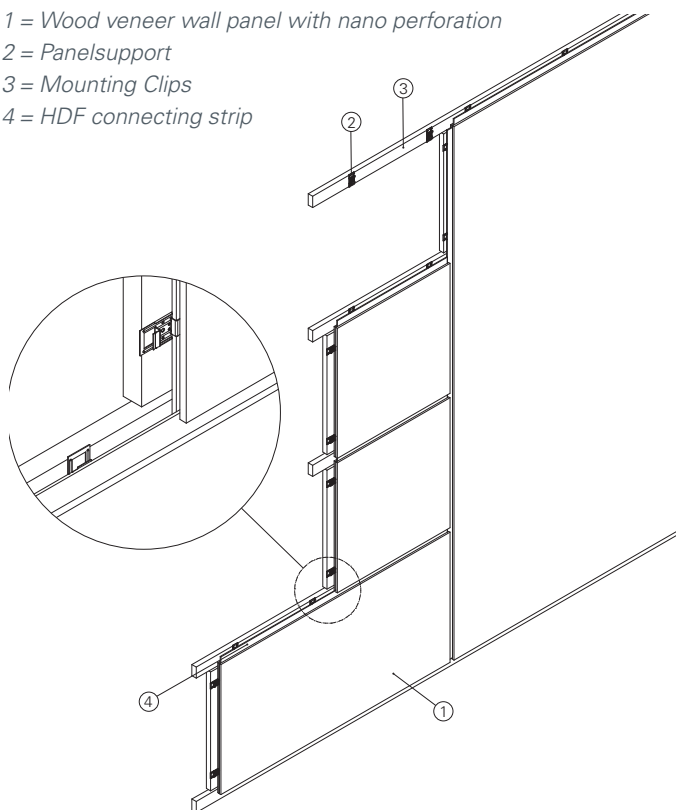
PANEL STRUCTURE

- 1 = Wood veneer with nano perforation
- 2 = MDF core material
- 3 = Wood veneer
- 4 = Acoustic cloth



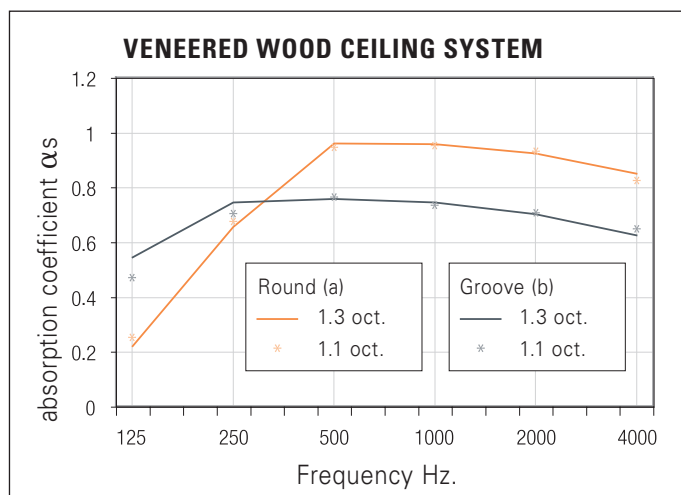
SYSTEM OVERVIEW WALL

- 1 = Wood veneer wall panel with nano perforation
- 2 = Panelsupport
- 3 = Mounting Clips
- 4 = HDF connecting strip



MATERIAL PROPERTIES

- Material: Medium Density Fiberboard (MDF)
- Fire class: B-s2, d0 according to EN 13501-1
- Weight: +/- 12 kg / m²



ROUND NANO-PERFORATION (a) α_w : 0.95 - NRC: 0.90

FREQUENCY (HZ)	125	250	500	1000	2000	4000
1/3 octave	0.14	0.47	0.90	1.00	0.96	1.00
	0.21	0.67	0.97	0.98	0.96	0.85
	0.35	0.89	1.00	0.96	0.98	0.62
1/1 octave	0.23	0.68	0.96	0.98	0.97	0.82

CERTIFICERINGEN

- FSC certified – C020011



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