



MAGVEE®
ACOUSTIC PANELS

ACOUSTICA

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MAGVEE®

ACOUSTIC PANELS

Noise and echo can be incredibly disruptive in any work or home environment. MAGVEE ACOUSTIC PANELS are created with unique sound-absorbing felt and sustainable materials to create the perfect balance and harmony to any home or office.



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ADVANTAGES



1) Effective noise reduction

Sound-absorbing felt mitigates noise and reduced unwanted reverberations.



2) Rich in color and shape

Versatile woodgrain colors and finishes that appeal to any style of home or office.



3) Flame retardant

The black acoustic felt can achieve B1 grade flame retardancy.



4) Customization

Designer can play with the colour of PET board and can vary distance between the slats.

ZURICH

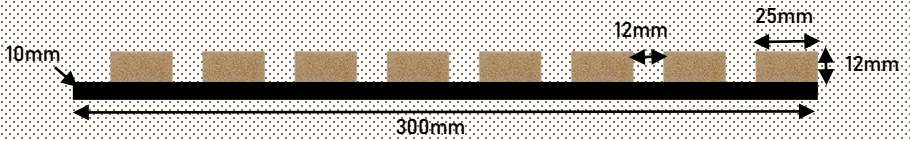
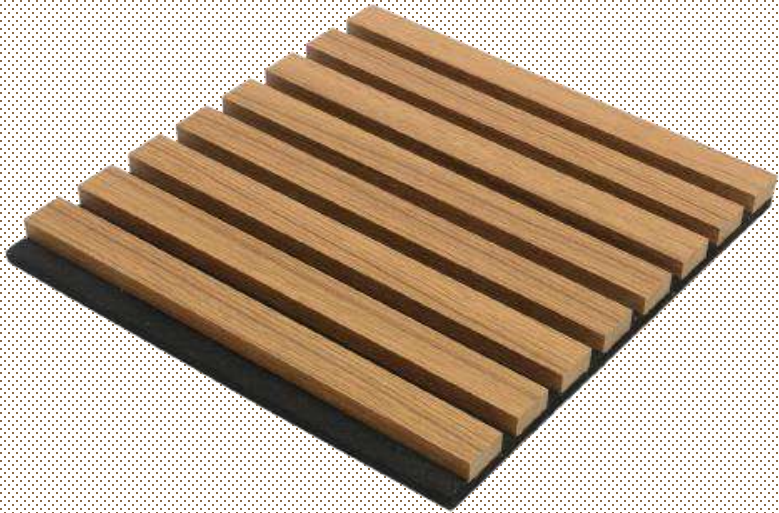
OSLO

VIENNA

MUNICH

HAMBURG

STOCKHOLM



ZURICH

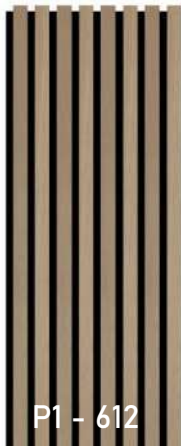
Total Size	2400mm x 300mm x 22mm
Weight	8.8kg
No. of Slats	8 pcs
Size of MDF Slat	25x12mm
Distance between MDF Slat	12mm



P1 - 578



P1 - 579

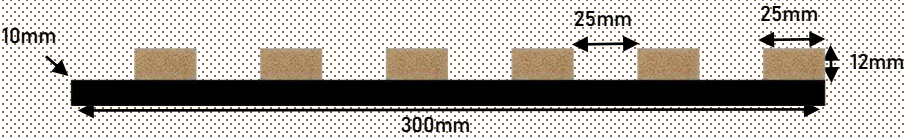
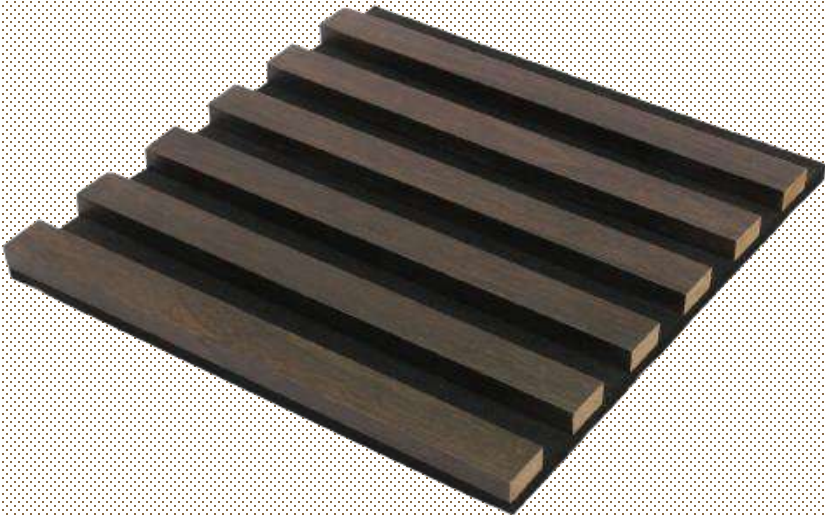


P1 - 612



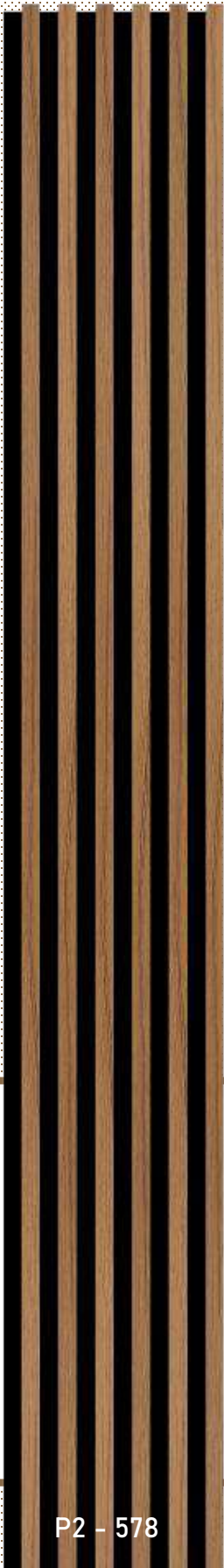
P1 - 938

P1 - 163



OSLO

Total Size	2400mm x 300mm x 22mm
Weight	8.8kg
No. of Slats	6 pcs
Size of MDF Slat	25x12mm
Distance between MDF Slat	25 mm



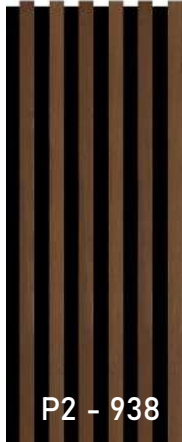
P2 - 163



P2 - 579




P2 - 612



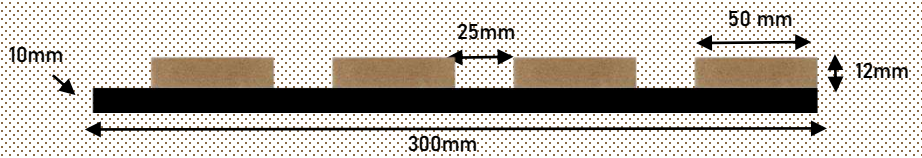
P2 - 938

P2 - 578



Our clean, modern fluted pattern features a minimalistic appeal that plays homage to traditional classical architecture and design. This timeless look brings a comforting contrast and unique focal point to any room. From accent walls to acoustic ceilings, this timeless pattern comes in a variety of modern finishes.





VIENNA

Total Size	2400mm x 300mm x 22mm
Weight	8.8kg
No. of Slats	4 pcs
Size of MDF Slat	50x12mm
Distance between MDF Slat	25 mm



P3 - 163



P3 - 578



P3 - 612

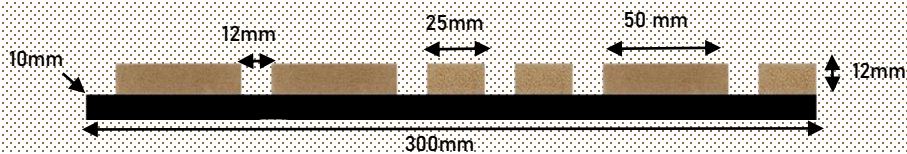


P3 - 938

P3 - 579



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MUNICH

Total Size	2400mm x 300mm x 22mm
Weight	8.8kg
No. of Slats	6 pcs
Size of MDF Slat	50x12mm 25x12mm
Distance between MDF Slat	12 mm



P4 - 163



P4 - 578



P4 - 579



P4 - 938

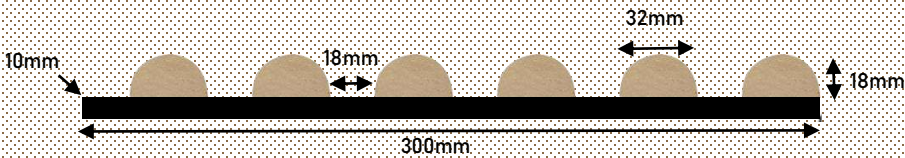
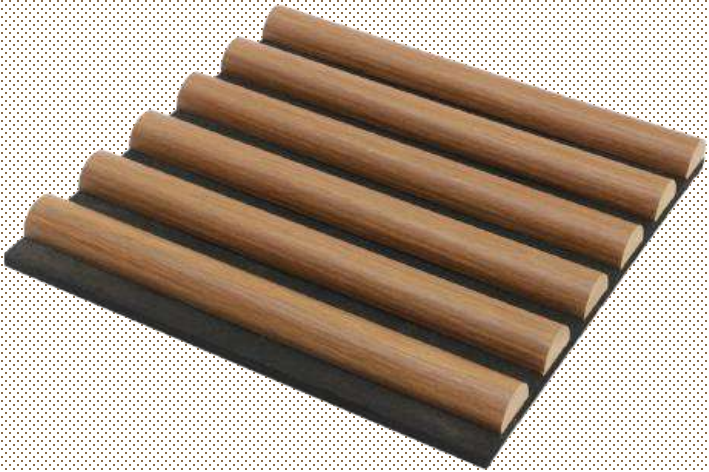
P4 - 612



The collection is an eclectic-yet-chic look that brings trend-forward personality to any space. Adorned with unique contrasting finishes, this cohesive collection boasts artisan appeal and visual interest for any office space.



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HAMBURG

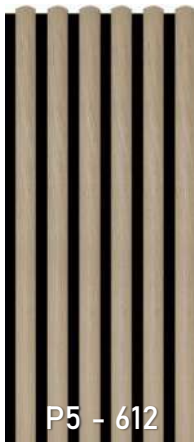
Total Size	2400mm x 300mm x 28mm
Weight	8.8kg
No. of Slats	6 pcs
Size of MDF Slat	32x18mm
Distance between MDF Slat	18 mm



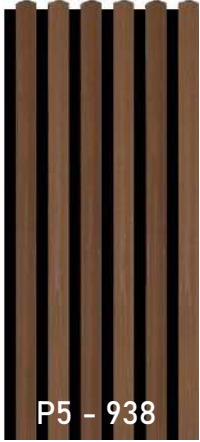
P5 - 163



P4 - 579



P5 - 612



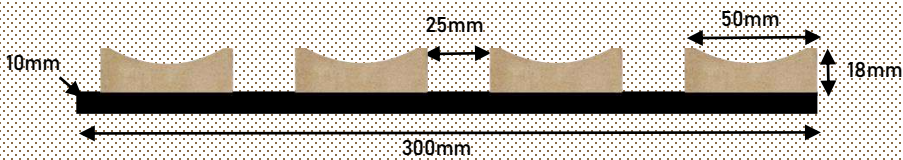
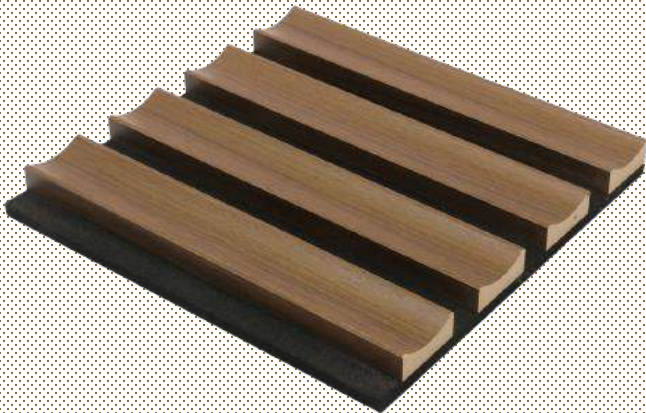
P5 - 938



P5 - 578



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STOCKHOLM

Total Size	2400mm x 300mm x 28mm
Weight	8.8kg
No. of Slats	4 pcs
Size of MDF Slat	50mm x 18mm
Distance between MDF Slat	25 mm



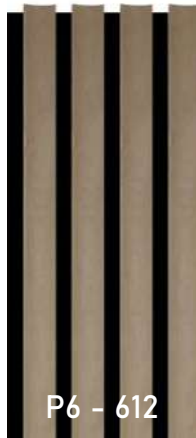
P6 - 163



P6 - 578



P6 - 579



P6 - 612

P6 - 938

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Stunningly textural, our collection features a narrow slatted pattern with varying color and details. Inspired by the architectural details of the Arts and Crafts movement, this modern collection brings one-of-a-kind character to any room creating a high-end transitional look.



TEST REPORTS



The Automotive Research Association of India
(Research Institute of the Automotive Industry with Ministry of Heavy Industries, Govt. of India)

CONFIDENTIAL

TEST REPORT ON MEASUREMENT OF RANDOM INCIDENCE SOUND ABSORPTION COEFFICIENT OF MAGVEE ACOUSTICA MDF PANEL

ULR-TC508522050000032F
NVH/3100012272/2021-22/0032

3rd March 2022

- 1.0 CUSTOMER NAME :** MAG VENEER
32k, Shree Laxmi Vijay Industrial, Premises
Coop Society Ltd, New Link Road
Andheri West, Mumbai – 400 053, Maharashtra
- 2.0 LETTER REF. :** E-mail dated 18th February 2022
- 3.0 TEST COMPONENT DETAILS :** Test component details given by customer are as follows:
- Product Name : MAGVEE Acoustica
Size of one board : 2440 mm X 300 mm x 21 mm,
total 8 boards used for mounting
Layer 1 : MDF Panel
Base Material : Medium Density Fibreboard
Top Layer : Textured PVC Membrane
Density and Thickness : 760 kg/m³ (+/- 5%) and 12 mm
Size and Pitch : 2440mm (Length) X 25mm (Width) and
25 mm Pitch (gap between two MDF strip)
Layer 2 : Acoustic Board
Base Material : 100% Polyester fibre. (80% recycled content from
PET plastic Bottles)
Density and Thickness : 1650 GSM (+/- 5%) and 9 mm
Insulation material : Rockwool of 60 kg/m³ density and 50 mm thick

4.0 TEST REQUIREMENTS :

Measurement of random incidence sound absorption coefficient on above mentioned test sample as per ASTM C-423 / ISO 354 in reverberation chamber.

5.0 TEST PROCEDURE :

The random incidence sound absorption coefficient measurement was carried out on above mentioned test sample as per ASTM C-423 / ISO 354 in reverberation chamber. The test sample of size 2.440 m x 2.440 m was mounted on the floor with type E-50 mounting (50mm air gap filled with 50 mm rockwool). Please refer figure 1 for test set up and mounting of system. The measurement was carried out at temperature 25°C ±1°C, humidity 54% and barometric pressure 936 mbar

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AN ISO 9001, ISO 14001, ISO 45001 and ISO/IEC 27001 Certified Organization
Regd. Office : C-5, No-102, Vihar II, Old Post Road,
Gurgaon, Haryana - 122 002 (India)
E-mail : arai@arai.org, info@arai.org
Website : www.arai.org

ARAI Investigation & Technology Centre (ARAI-ITC), Chhatrapati
Shri Chhatrapati Shivaji Maharaj Vastu Sangrahalaya, Mumbai
ARAI Research & Development Centre, Sector 14, Gurgaon, Haryana



ULR-TC508522050000032F
NVH/3100012272/2021-22/0032

3rd March 2022

6.0 DATE OF EVALUATION :

The Random incidence sound absorption coefficient measurement was carried out on above mentioned test sample on 3rd March 2022.

7.0 INSTRUMENTATION :

Sr. No.	Instrument Name	Type / Model No	Make	Calibrated on	Calibration due on
1	Multi-channel Data Acquisition System	3560 D	Brüel & Kjær, Denmark	3-Aug-21	3-Aug-22
2	1/2" Random Incidence Microphone	378C20	PCB, USA	3-Aug-21	3-Aug-22
3	Power Amplifier	2716	Brüel & Kjær, Denmark		
4	Omni directional sound source	Omni power 4296	Brüel & Kjær, Denmark		
5	Reverberation Chambers	80 m ³ and 110 m ³	-	-	-

8.0 TEST RESULTS :

Table 1 and figure 2 shows the average values and plot for random incidence sound absorption coefficient of MAGVEE Acoustica panel consist of Medium Density Fibreboard panel with Textured PVC Membrane of 760 kg/m³ density, 12 mm thickness, 25 mm width X 2440 mm length and 25 mm pitch + 100% Polyester fibre Acoustic Board of 1650 GSM and 9 mm thickness along with 50 mm air gap filled with rockwool of 60 kg/m³ density and 50 mm thickness in the frequency range of 100 Hz to 5000 Hz.

9.0 CONCLUSIONS :

- 9.1 The Noise Reduction Coefficient (NRC) is given by the average value of sound absorption coefficient at 250 Hz, 500 Hz, 1000 Hz and 2000 Hz is calculated as per ASTM C- 423.
- 9.2 The weighted sound absorption coefficient (α_w) and sound absorption class are calculated as per ISO 11654 are given below.

MAGVEE Acoustica panel consist of Medium Density Fibreboard panel with Textured PVC Membrane of 760 kg/m ³ density, 12 mm thickness, 25 mm width X 2440 mm length and 25 mm pitch + 100% Polyester fibre Acoustic Board of 1650 GSM and 9 mm thickness along with 50 mm air gap filled with rockwool of 60 kg/m ³ density and 50 mm thickness	
Noise Reduction Coefficient (NRC)	0.95
Weighted sound absorption coefficient α_w	0.95
Sound Absorption Class	Class A

Tested and Report

Prepared By:

P.P. Kamble

Engineer

Reviewed By:

M. E. Joshi

Dy. General Manager

Reviewed By:

S. K. Jain

General Manager

Approved By:

Dr. N. H. Walke

Deputy Director

This test report pertains only to the samples actually tested at ARAI in the presented condition. The issuing of this test report does not indicate any measure of approval, certification, supervision, control of quality or otherwise by ARAI of any product. No contract, statement or attestation from this test report for a product or used to advertise the product without the written consent of the Director, ARAI, who reserves the absolute right to agree or reject all or any of the details of any form of publicity for which consent may be sought.

Sachin Kumar Jain
Digitally signed by Sachin Kumar Jain
Date: 2022.03.03 13:08:05 +05'30'



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NVH/3100012272/2021-22/0032



3rd March 2022

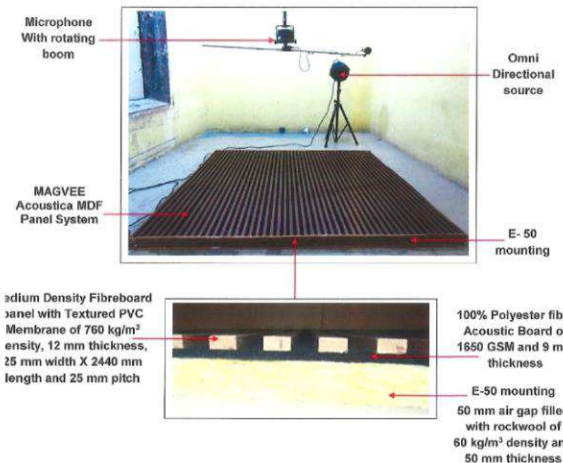
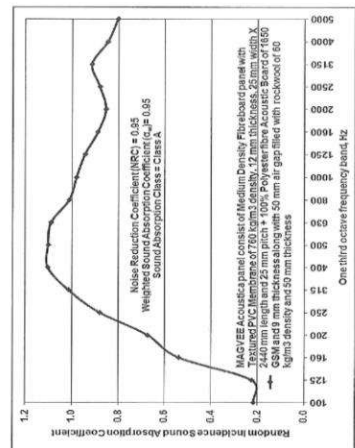


Figure 1: Test set up for mounting and testing of MAGVEE Acoustica MDF Panel System in reverberation chamber

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3rd March 2022

Table 1 and Figure 2 shows the average values and plot for random incidence sound absorption coefficient of MAGVEE Acoustica panel consist of Medium Density Fibreboard panel with Textured PVC Membrane of 760 kg/m³ density, 12 mm thickness, 25 mm width X 2440 mm length and 25 mm pitch + 100% Polyester fibre Acoustic Board of 1650 GSM and 9 mm thickness along with 50 mm air gap filled with rockwool of 60 kg/m³ density and 50 mm thickness at one third octave frequencies



One third octave frequency, Hz	Random Incidence Sound Absorption Coefficient	Standard Deviation
100	0.22	0.02
125	0.22	0.01
160	0.54	0.02
200	0.67	0.03
250	0.88	0.03
315	1.01	0.01
400	1.10	0.03
500	1.10	0.03
630	1.09	0.00
800	1.01	0.03
1000	0.98	0.03
1250	0.94	0.01
1600	0.94	0.01
2000	0.95	0.01
2500	0.88	0.03
3150	0.91	0.01
4000	0.85	0.01
5000	0.80	0.02

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