AIRCOUSTICS

ENGINEERED FOR SILENCE

Architectural Acoustics Products

ABOUT US

- Aircoustics, since 2006, is a U.A.E based company with a team of diverse backgrounds, whose combined education and experience covers the fields of architectural, engineering, and environmental acoustics with dedicated offices and in U.A.E. and India.

- Aircoustics Engineering and Consultancy pvt ltd. Established in Noida for Indian region in 2011.

- Aircoustics experience, expertise and technical development are complemented by practicality and sensitivity to budgets and building processes. By integrating with other disciplines at Aircoustics, the firm's acoustics specialists develop and apply innovative, practical techniques for sound and vibration control.

NOISE CONTROL

ENGINEERING SOLUTIONS- SCOPE

- Noise calculations with the recommendations for all HVAC Equipment and any noise source i.e. (Generator room/ MEP room/ Chiller/ cooling towers/ PUs/ CUs/VRF outdoor/indoor/ FCUs/ pipes/ sewage/ pumps/ fans/ swimming pool/ drain pipe etc…

- Calculation for Architectural and Civil Acoustic solutions

- Industrial Noise source

- Highway/ Railway/ transport etc…

- Reports by professional/ certified staff in Acoustics.

- ACOUSTIC/ HVAC PRODUCTS – SUPPLY/ INSTALLATION

- Environmental noise and vibration surveys for planning applications and appeals.

- Architectural acoustic study and design

- Acoustic design: of residential, commercial, educational & industrial buildings in accordance to building regulation,
  bulletins and relevant guidelines.
- Acoustic evaluation: of proposed building, mechanical services design and providing specifications for noise control measures.
- Investigation: of noise complaints and providing specification of remedial measures
- Expert witness in cases involving noise and vibration
- Acoustic Contracting: Turnkey Solutions

Aircoustics

PRODUCTS LINE UP- ARCHITECTURE

ACOUSTIC WALL/ CEILING PANELS
(METAL, FABRIC & WOODEN)

ACOUSTIC SPRAY

ACOUSTIC BAFFLES

ACOUSTIC SPRAY

**ACOUSTIC SPRAY
(ENVIRO- E300- AUSTRALIA)**

**ACOUSTIC & THERMAL SPRAY
(THERMOCOUSTIC TC-417-CANADA)**

SPECIFICATIONS

- 25 to 50 mm Thickness
- NRC 0.75 to 1.00
- Any color
- Textured finish
- Material in stock

E-300 ENVIRO SPRAY

FEATURES

- AS 5637.1 – COMPLIANT
- AS 3837 - GROUP 1
- ASTM E84 - CLASS A
- BS 476. PART 7 - CLASS 1
- AS 1530.3 - SMOKE INDEX 3
- K= 0.0384 W /MT.°K
- NRC = 0.75 @ 25MM
- 80% RECYCLED CONTENT
- VOC - 15.0 G/L

E-300 ENVIRO SPRAY

ADDITIONAL FEATURES:

- DYE TINTED/ OVER PAINTED TO ACHIEVE A PREFERRED COLOR
- ODORLESS, NON TOXIC
- VERY LOW VOC & ZERO ODP
- EASILY INSTALLED AROUND EXISTING SERVICES
- VERY LOW EMBODIED ENERGY
- FIRE TESTED TO AS /NZ /BS /US STANDARDS
- EXCELLENT THERMALRESISTIVITY
- MONOLITHIC -NO THERMAL BRIDGING
- NABERS/LEEDS GREEN CREDITS AVAILABLE
- ONCE APPLIED – NO MAINTENANCE REQUIRED.

TC-417 — PRODUCT PERFORMANCE

Test Standard	Test	Requirement	Result
Thermal Conductance	ASTM C-518	Report Value	l= 0.0346 W / (m2•°C) K = 0.24 Btu in / (hr•ft2•°F)
Thermal Resistance	ASTM C-518	Report Value	SI = 29.32m °C / W R = 4.17 (hr•ft2•°F) / Btu
Non-Combustibility	ASTM E-136 CAN/ULC S-114	Non-Combustible Non-combustible	Non-Combustible Non-combustible
Surface Burning Characteristics	ASTM E-84 CAN/ULC S-102	Flame Spread <25 Smoke Developed < 50	Flame Spread < 25 Smoke Developed < 50
Adhesion/Cohesion	ASTM E-736	>1.7 kPa	Passed
Noise Reduction	ASTM C-423 ISO 354	Report Value	50mm / 2" = 1.00
Fungal Resistance	MIL-STD 810E Method 508.4	Report Value	No Growth

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PRODUCTS

3D ACOUSTIC PANELS

FEATURES

- Excellent Aesthetic Value
- Excellent Sound Absorption
- Fire Rated
- Can be used with acoustic filler to enhance absorption
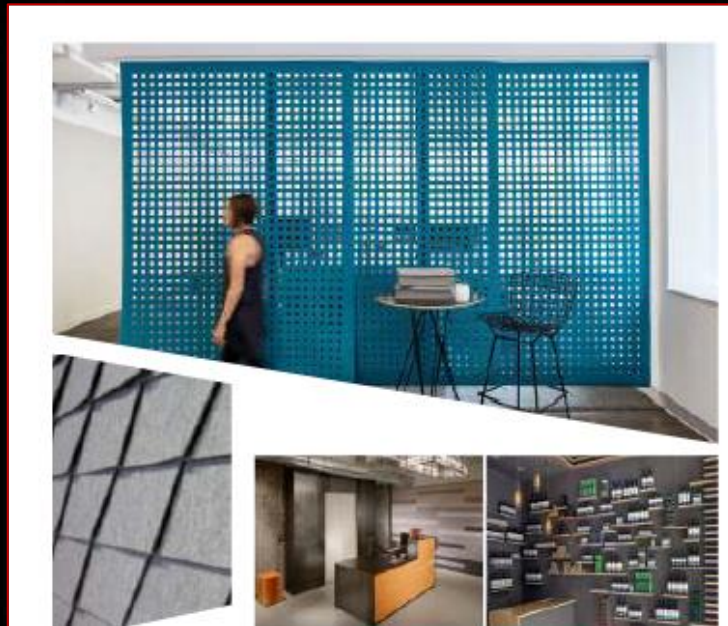- Comes in Multiple Colors

SPECIFICATIONS

Size(standard)	600*600*74mm / 500*500*60mm
Surface Finish	Matt
Weight	0.45-0.65 kg /piece
NRC	0.60 to 0.95
Indoor/Outdoor	Indoor only
Fire Rating	Euro class B and ASTM E84-08
Refinish able	No
Care Instructions	Remove spills immediately using damp & clean cloth. Carpet & Fabric Cleaners can be used. Always test a sample before applying on total surface.
ENV Information	Oeko-Tex 100 acquired
Flame Spread	25
Smoke Density	300
Fire Class	A

DESIGNS

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PRODUCTS

WOOLEN ACOUSTIC PANELS

COLORS

FEATURES

- The widths can be up to 180 cm (70 3/4 in)
- Highly saturated colors that are lightfast
- Naturally repels soiling and moisture
- Since it's a nonwoven , it can be cut with the edges left raw. No fraying!
- The thickness and density also give it a structural quality that allow for hanging installations that do not require any additional support
- Self-extinguishing and inherently flame retardant
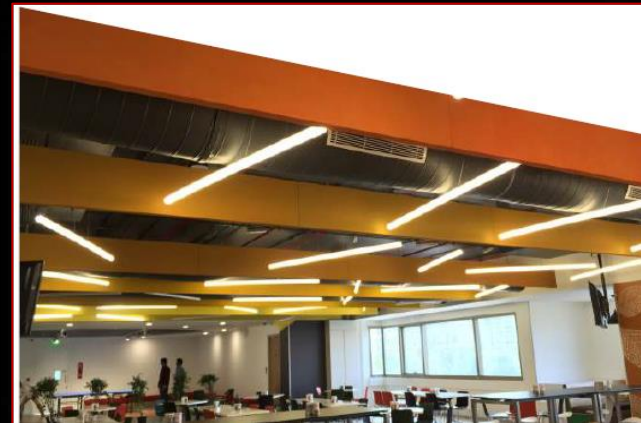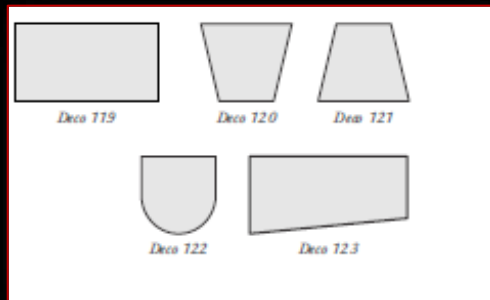- Thermal and acoustic insulating properties
- Eco-friendly

PRODUCTS

SPECIFICATIONS

- Thickness: 1" to 2.25"
- Edges: Square
- NRC: Up to 1.05
- Colors: Almost 60 different colors of perforated vinyl
- Weight Kg/M2 (+/- 10%): Up to 7.65
- Warranty: Warrantied against workmanship & and manufacturing defects for 2 years from date of purchase.
- Fire Rating: Class "A" as per ASTM E-84 Tunnel Test
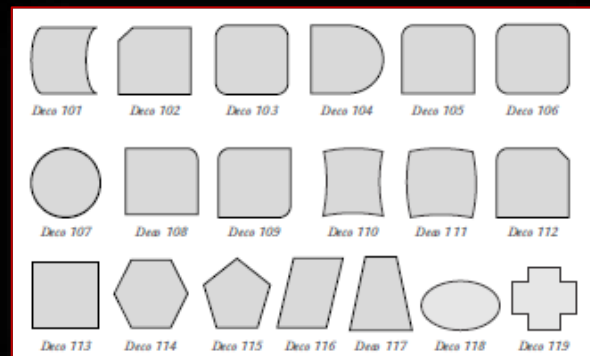- Dimensions: Any size within L-2.44m & W-1.22m.

PATTERN

Deco 119   Deco 120   Deco 121

Deco 122   Deco 123

PRODUCTS

FIBER GLASS ACOUSTIC CLOUDS

PATTERN

SPECIFICATIONS

- Thickness- 28 / 30 / 53 / 55 mm
- Core: Compressed Fiberglass Core
- Clouds Size: 1200 / 900 / 600 X 1200 / 900 / 600 mm
- Baffles Size: L-600 to 2400 mm , H-150 to 1200 mm
- Weight Kg/ m2 (+/- 10%): 2.98 to 7.65
- Core: Compressed Fiber glass core
- Edges: Square
- Warranty: Warranty against workmanship p and
- manufacturing defects for 2 years from date of purchase
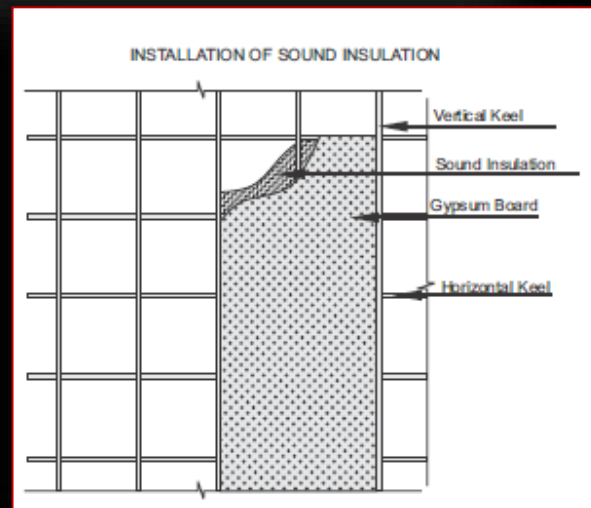- Fire Rating: Class 'A' as per ASTM E-84 Tunnel Test
- NRC: Up to 1.05

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PRODUCTS

FIBER GLASS ACOUSTIC CEILING

Black Ceiling

White Ceiling

SPECIFICATIONS

- Material: Compressed high density fiberglass wool
- Face: Special painting laminated with decorative fiberglass tissue
- Color: White , black and others to order
- Fire-resistant: Class A , non-combustible.
- Thermal-Resistant: 0.4
- Humidity: Dimensionally stable with RH up to 95% at 40℃.
- Moisture rate: 1% (JC/ T670-2005)
- Environmental impact: Tiles and packings are fully recyclable.
- Thickness: 12mm, 15mm, 20mm, 25mm
- Size: 600 x 600mm , 600 x 1200mm.
- Customized sizes are available.
- Density: 80 - 150 Kg/ m3
- NRC: Up to 1.05

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PRODUCTS

FLEXIBLE MASS VINYL

INSTALLATION OF SOUND INSULATION

- Vertical Keel
- Sound Insulation
- Gypsum Board
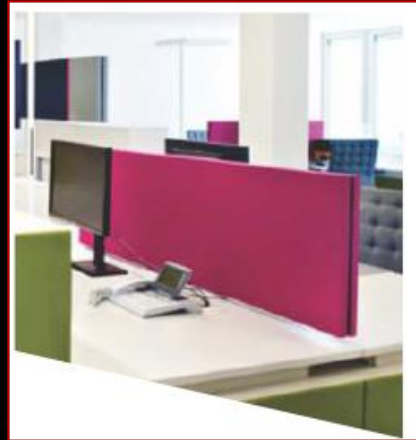- Horizontal Keel

SPECIFICATIONS

- Material: Mass Loaded Vinyl
- Finish: Smooth Finish
- Max dimensions: Length-10/15 / 20 m ,
- Thickness -1 /1.5/2/3mm
- Width- 1/1. 22/2mm
- Density: 1900 kgs / m3
- Dimension Stability: < 0.4%
- Flexibility 10mm Mandrel Test: Pass
- Flame Spread: Class 1
- Installation: Material can be glued , nailed ,
- stapled , screwed and can be reinforced and
- hung like a curtain.
- Installation
- Max dimensions: L-10m , W-1m ,
- Thickness-3mm , Area-10 M2
- Sound Block: 27 to 30 db

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PRODUCTS

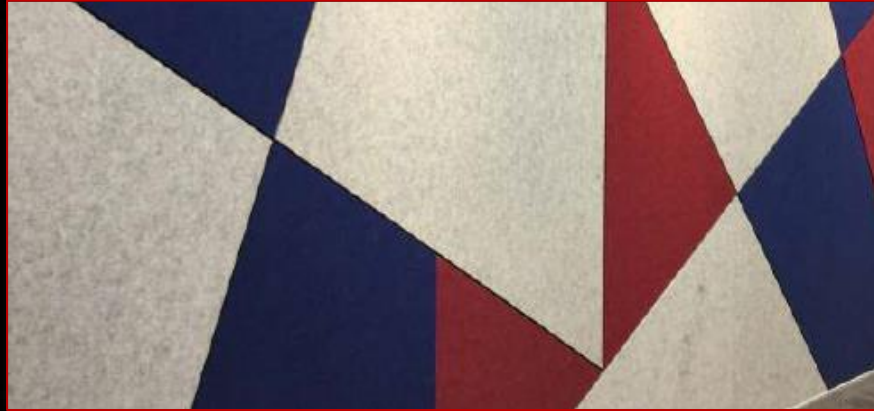**FIBER GLASS ACOUSTIC SEPARATORS & SCREEN**

SPECIFICATIONS

- Thickness: 25mm ,30mm ,50mm ,56mm or customized to requirement
- Weight Kg/ m 2 (+/- 10%) = 2.95 to 4.60
- Core: Compressed Fiber glass core
- Size: Custom Size can be manufactured.
- Edges: Chemically hardened or Aluminum Profile
- Warranty: Against workmanship & mfg defects or 2 years from the date of purchase
- Fire Rating: Class 'A' as per ASTM E-84 Tunnel Test
- NRC: Up to 1.05

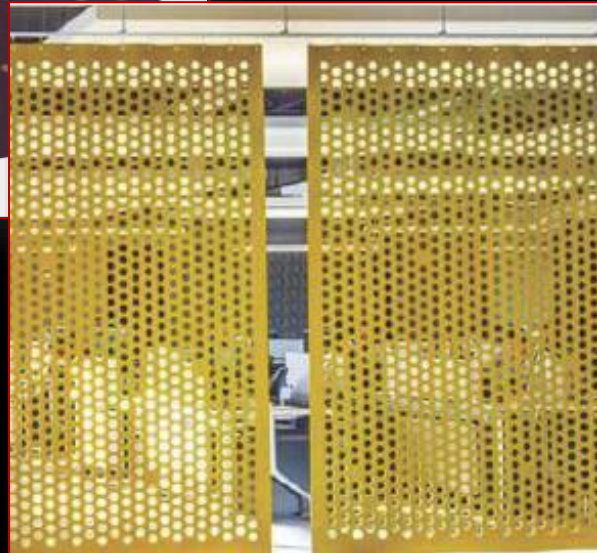# PRODUCTS

POLYESTER FIBER ACOUSTIC PANELS

COLORS

SPECIFICATIONS

- Thickness: 9mm , 12mm and 25mm
- Maximum dimensions : L-2.44m W-1.22m
- Density Kg / m3 (+/- 10%): 9mm- 150-240 , 12mm- 150-230 and 25mm-120
- 100% Polyester Core
- Edges : Square / Beveled/ Mitre
- Warranty: Warranted against workmanship & and manufacturing defects for 2 years
- from date of purchase.
- Fire Rating: Class "A" as per ASTM E - 84 Tunnel Test
- Mounting Method: Glued to the wall with or without air gap using adhesive.
- Performance : at Mid Frequency: 0.12 to 0.99 (without and with Gap 9 mm to 25 mm)

PRODUCTS

COMPOSITE FIBER HANGING PANEL

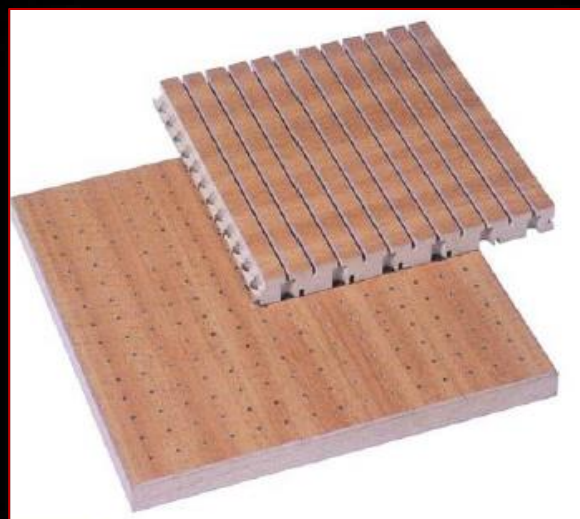### SPECIFICATIONS

- Width: 1000mm to 1220mm.
- Material: Composite Fibers.
- Thickness: 5mm , 7mm , & Customized Thickness.
- Colors: Wide choice of colors.
- Height: Can be customized to requirement.
- Naturally repels Soiling and Moisture
- Thermal and Acoustic insulating properties

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PRODUCTS

WOODEN PANEL

COLORS

SPECIFICATIONS

- Wide range of perforated & grooved Wooden Acoustic Panel with black felt backing.
- Fire Rated & Low Formaldehyde
- High Impact & Durable
- Excellent Sound Absorption & Reverberation Control
- Invisible Interlocking & Concealed Fixing System
- Linear Groove 13-3: NRC of 0.86 with Acoustic backing & Gap of 100mm.

CONTACT US:

AIRCOUSTICS FZE

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