



**ANAKON**  
CEILING, ACOUSTICS & FACADE



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## WHERE CREATIVITY MEETS TECHNOLOGY

We founded on Anakon that Acoustics is the science of sound and a branch of physics. The scope of acoustics is not limited to phenomena that can be heard by humans and animals, it also includes phenomena with frequencies so low (infrasound) or so high (ultrasound) that cannot be heard by a normal person. Acoustics are fundamentally important to learning environments. Learning is intrinsically linked with communication, and aural (sound) communication is acoustics. Similarly, learning is about concentration, and external noise is a major distracting factor in education. Anakon belief that ceiling and acoustics should be sustainable, surprisingly functional and remarkably beautiful. Anakon designs, produces and markets functional ceiling and acoustical panels that meet the contemporary expectations of architects, engineers and builders – without compromising tomorrow's safety and environmental standards. For us, the Anakon brand is our perception of what we do, what we stand for, and what makes us relevant. Our mission is to change the world for the better. A conversation between two students excels into brilliance, a business meeting gone right leads to new potential or leaders of nations coming to an agreement that matters to the world – all thanks to restful acoustics in residential buildings, industrial premises and public spaces.

All Anakon products are high quality, patented, eco friendly and comes at an affordable price.



## Our Motive :

Anakon – the choice for your work space solutions.

Objective: To become the leading construction firm, while delivering projects that consistently exceed international standards and provide exceptional customer satisfaction. To continually deliver excellent value & innovative construction solutions to meet our clients' requirements.

## Advantage :

We provide solutions for all kind of Acoustic wall panel and ceiling solutions and we understand the requirements of the clients better than any one else

## Scope :

Guided by the Anakon, we have developed processes, analytic tools and management philosophies to make our business sustainable. We know that transparency and knowledge sharing are essential to this goal. To this end, we work with third- party certifies to approve our practices and then share those results with the public.

## Mision:

Our Mission is to be the World's number one **ACOUSTIC AND WALL PANEL** manufacturers , with the base set up in India, we also want to make our country progress at an exceptional rate

## AUTHENTIC, EXAMINED AND TRIED ACOUSTIC AND CEILING AS PER THE STANDARDS



## METAL CEILING LAY IN

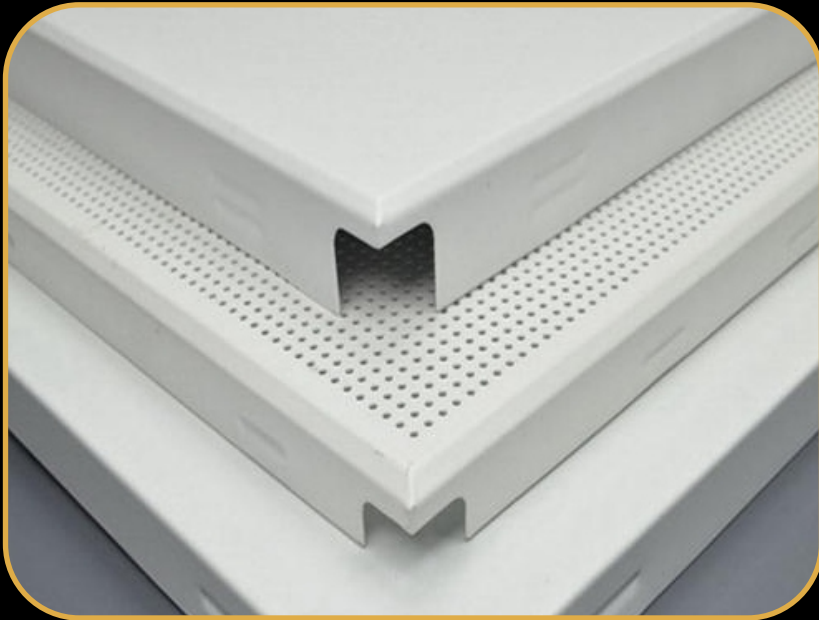
False ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 8 mm dia fully threaded hanger rod spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5 with special Anti-rust and Bio Guard Antimicrobial Coating used to prevent the tile from bacteria and fungi, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.



### Product Data

Finish	Metal Lay-in
Core	Al/GI
Thickness (mm)	0.5, 0.6, 0.7
Size (mm)	Lay in: 595x595/1195 600x600/1200 X300
Density (kg/m <sup>3</sup> )	785
Weight (kg/m <sup>2</sup> )	1-4
Fire (Class)	A
NRC	0.7 TO 0.9
Dia	0.8, 1.2, 1.5, 1.8, 2.5
Climate (C,RH)	50, 95
Light (%)	78
Green (VoC, RC%)	Low, 25
Warranty ( Years)	5
Maintenance	Brush, wipe, Vacuum

## METAL CEILING CLIP IN



### Product Data

Finish	Metal Clip-in
Core	Al/GI
Thickness (mm)	0.5, 0.6, 0.7
Size (mm)	Clip in: 600x600/1200x300
Density (kg/m <sup>3</sup> )	785
Weight (kg/m <sup>2</sup> )	1-4
Fire (Class)	A
NRC	0.7 TO 0.9
Dia	0.8, 1.2, 1.5, 1.8, 2.5
Climate (C,RH)	50, 95
Light (%)	78
Green (VoC, RC%)	Low, 25
Warranty (Years)	5
Maintenance	Brush, wipe, Vacuum

Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.7 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring 'T' with Metal Ceiling Clip in backed with rock wool and 20% perforation area with 1.8 mm dia holes controlling the NRC of 0.8 with size 600x600 and 0.5 mm thick with 25 mm height, and having electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.

## CALCIUM SILICATE CEILING

False ceiling at all heights with integral densified calcium silicate perforated tile with fibre and natural filler false ceiling of Size given below of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.90 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non-combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity <0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on interlocking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main T runners of size 24x38 mm of length 3000 mm, cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod . Wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge. With 8 -10 mm thick tegular edged light weight calcium silicate perforated false ceiling tiles



### Product Data

Finish	Plaster
Core	Calcium silicate
Thickness (mm)	8, 10, 12, 15
Size (mm)	Tile: 595x595
Grid / Colour	15/24 - Black / White
Density (kg/m3)	800
Weight (kg/m2)	2, 6, 9, 10
Fire (Class)	1 & P
NRC	Upto 0.9
Dia	3, 6, 8, 10, 12
Climate (C,RH)	50, 70
Light (%)	75
Green (VoC, RC%)	Low, 25
Warranty ( Years)	5
Maintenance	Brush. Wipe, Vacuum

## MINERAL FIBER CEILING



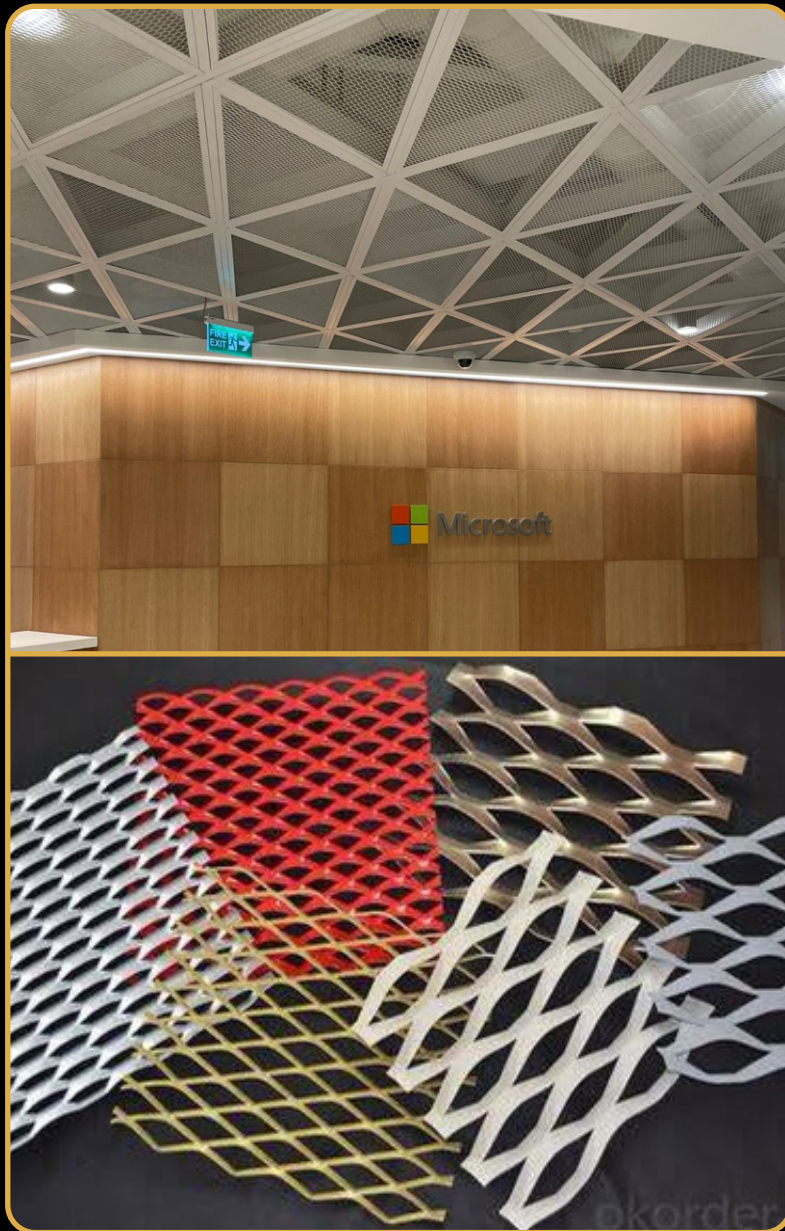
Mineral Fiber Acoustical Suspended Ceiling System Micro look/Square edge tile with 12 -15 - 16 - 20 mm grid. The tiles should have Humidity Resistance (RH) of 90 - 99%, NRC 0.65, Light Reflectance >84% with Fire Resistance as per BS476 (Part 6 & 7) in module size of 595 X 595 X 15 mm. The grid should be 15 mm wide T sections i.e. the Main Runner 3000mm in web height of 38 mm, 1200 mm & 600 mm Cross Tees in web height of 26mm, to comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using suspension system at 1200mm maximum centre. The First/Last suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall. Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600 x 600mm module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200 mm cross tees. Perimeter trim to be wall angles of size 3000x19x19mm, secured to walls at 450 mm maximum centres and as per the drawing and the work complete in all respects to the satisfaction of Engineer in-charge. Accessories supplied by Hilti consisting of HLC Sleeve Anchor Fasteners of thread size 6.5mm x 25/5 with Soffit Cleat made of Galvanised steel of size 27 x 37 x 25 x 1.6mm and Level Clip in dimensions of 85x30x0.8mm with 4.00 mm GI wire.

### Product Data

Finish	Texture
Core	Mineral Content
Thickness (mm)	15, 16, 20, 25
Size (mm)	595x595, 595x1195
Density (kg/m <sup>3</sup> )	120
Weight (kg/m <sup>2</sup> )	1.8, 2.4, 3.0
Fire (Class)	1 & P
NRC (15mm)	upto 0.7
Thermal (W/mk)	0.066
Climate (C,RH)	40, 99
Light (%)	White 85, (Black: Low light reflectivity)
Green (VoC, RC%)	Low, 35
Warranty ( Years)	5
Maintenance	Brush, wipe, Vacuum



## OREO METAL MESH



Specified for many iconic building around the world, Expanded oreo Metal Facade Mesh/Sunscreen Mesh has become a critical tool for the architect and designers, not only practical but eye-catching and kinder on environment too.

The structure of Expanded Oreo Metal Facade Mesh/Sunscreen Mesh aides the disruption of sound waves, deadening noise and reduction of echo. These practical features of the material in conjunction with its already proven architectural features make it perfect both for decorative ceiling tiles and acoustic panels and are chosen by designers and architects for their beauty and striking appearance.

### FEATURES AND BENEFITS

- Innovative and decorative patterns
- Aesthetic appeal
- Prevents glare of Suns
- Reduces solar gain by blocking sun rays
- Allows passage of air
- Reduces noise
- Attractive look
- Resistance to high wind load
- Semi transparent

### USAGE & ARCHITECTURAL APPLICATIONS

- Cladding to exterior walls
- Building facade
- External and internal ceiling
- Decorative and acoustic panels
- Sunscreen over window and door frames
- Signage and advertising
- Partition walls
- Staircase railing

## OPEN CELL CEILING

Aluminium, open cell ceiling in approved color comprising of main and auxiliary profiles of size 9x38x2000mm, made up of 0.05 - 0.07mm thick aluminum sheet, having 100% humidity resistance and fire performance Incombustible as per BS 476, part 4, with the male slots in main & female slots in auxiliary profiles at every 100mm distance, fixed with each other, in such a manner that it will make a module of 2M x 2M having cells of size 100x100mm, hanged to the roof with the help of hanging part connected at every 2M in module, dash fastener fixed in roof and 6mm threaded rod attached with fastener at one end and hanging part at another. Required nos. modules will be made and attached to each other by the means of locking system provided at the end of each profiles to complete the required area. Edges should be covered by wall angles of same finish as tiles, of size 19x19x3000mm.

### Product Data

Finish	Metal
Core	AL/GI
Thickness (mm)	0.5, 0.6, 0.7
Density (kg/m <sup>3</sup> )	2600-2800
Weight (kg/m <sup>2</sup> )	11.5
Fire (Class)	1 & P
Climate (C,RH)	40, 70
Light (%)	Shade dependant
Green (VoC, RC%)	Low, 25
Warranty ( Years)	5
Maintenance	Vacuum, Brush, Wipe



## SOUND ABSORB CEILING

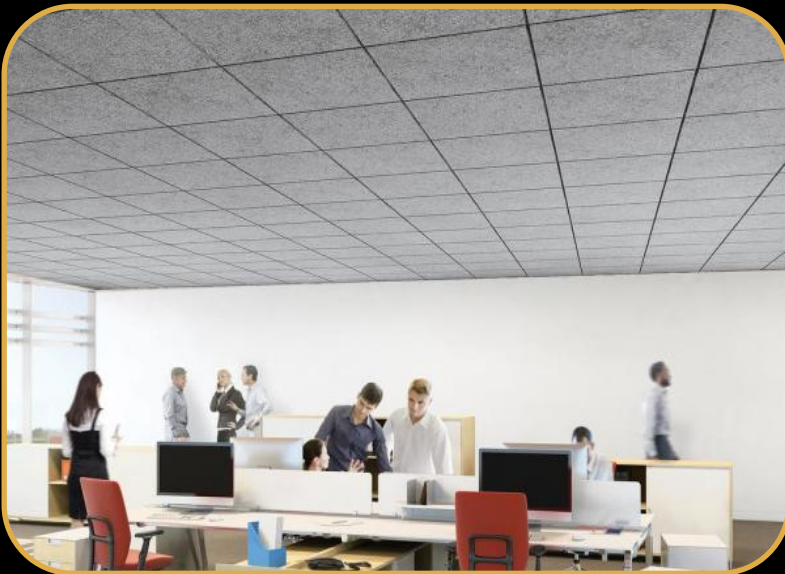


Sound Absorb Acoustical Suspended Ceiling System with (Bevelled Tegular) Edge Tiles With 15mm Exposed Grid. The tiles should have Humidity Resistance (RH) of 95%, NRC 0.9 - 1.0, Light Reflectance  $\geq 85\%$ , Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 & 7) in module size of 600 x 600 x 20mm, suitable for Green Building application, with Recycled content of 66% GW & 74% RW. The tile shall be laid on Silhouette profile grid system with 15mm white flanges incorporating a 6mm central reveal in white/black colour and with a web height of 45mm and a load carrying capacity of minimum 15.68 Kgs/m<sup>2</sup> with a minimum pull out strength of 100 kgs. Silhouette, Main Runners & Cross Tees to have mitred ends & "bird's mouth" notches to provide mitred cruciform junctions. The T Sections have a Galvanizing of 90 grams per M2 and need to be installed with Suspension system of approved make. The Tile & Grid system used together should carry a 10 year warranty. INSTALLATION: To comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using suspension system (specifications below) at 1200mm maximum centre.

### Product Data

Finish	Texture
Core	Glassfibre
Thickness (mm)	12, 15, 20
Size (mm)	595x595, 595x1195
Density (kg/m <sup>3</sup> )	120
Weight (kg/m <sup>2</sup> )	1.8, 2.4, 3.0
Fire (Class)	1 & P
NRC (15mm)	upto 0.9
Thermal (W/mk)	0.066
Climate (C, RH)	40, 95
Light (%)	White 85, (Black: Low light reflectivity)
Green (VoC, RC%)	Low, 35
Warranty (Years)	5
Maintenance	Brush, wipe, Vacuum

## AKOUS CEILING



Acoustical Ceiling with AKOUS Polyester fibre acoustic mat finish panel 9 -10 - 12mm thick @ 180kg/m<sup>3</sup> density with Class A fire rating as per ASTM E 84 & thermal conductivity 0.034w/mk with desired acoustic management polyester wadding giving 0.85-0.90 NRC ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long drywall screws @ 230 mm interval and perimeter channel with the help of drywall screws of size 3.5 x 25 mm at 230 mm c/c, on outer side one layer of 9mm perforated water proof composite floor board is screwed .These boards are joined using "type S" Self tapping SS W 25 / 3.5 x 25mm corrosion resistant drywall steel screws spaced at 200mm centres on all joints and 300mm centres in the field of boards. Screw fixing is done mechanically. These boards are perforated ensuring min. 50% area is perforated. Finally 10mm thick AKOUS Polyester fibre acoustic panels are pasted on top of board (using any acrylic adhesive such as fevicol SR998 or hot melt adhesive) of the board as per design of the architect. The entire system should eco-friendly, 100% recyclable & toxic free.

## SOUND ABSORB WALL PANELLING

Sound Absorb Acoustical Wall Panelling system with square edges made of fibre glass substrate 25mm thick which is wrapped on the front side with an acoustically transparent and fire-resistant fabric with an option of colours with the available size 1200X600/600x600 mm providing a minimum sound absorption level of 0.90 NRC to be affixed to wall using Wall panel impalers supplied by the manufacturer. Sound Absorb wall panel impalers of adequate quantity as specified by the manufacturer shall be fixed to the wall surface using self-tapping screws. Silica based construction adhesive shall be dabbed on to the projecting elements (spikes) of the impalers. Wall panels shall be pierced through the spikes of the impalers ensuring the line and level of the panels are maintained. Fiberglass panel with resin – hardened edges Surface, fully recycled, Fire Reaction Textile Fabric Class A Facing fabric can be custom – ordered Thermal Insulation:  $\geq 0.5$  ( $m^2 k / w$ ) Humidity: Max 90% RH at 40° C Moisture Rate:  $\leq 1\%$  (JC/T670 – 2005)

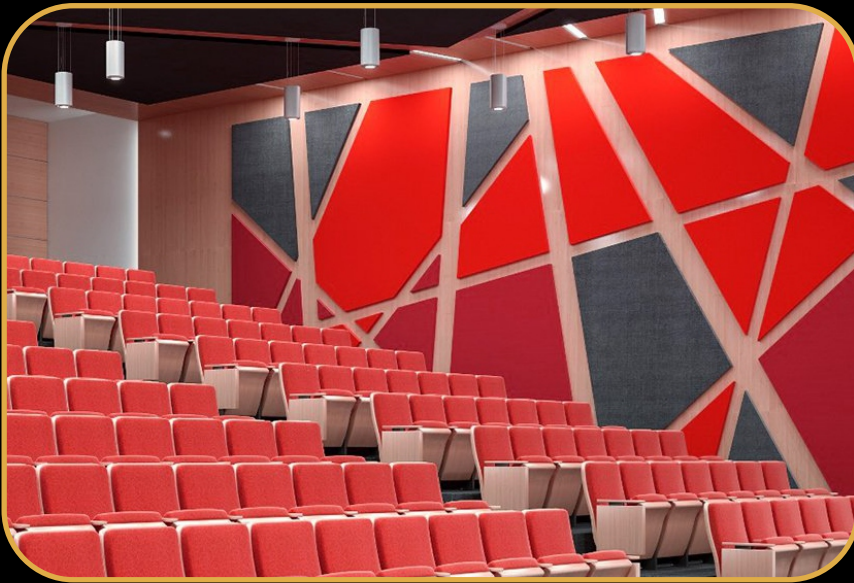


### Product Data

Finish	Vinyl/Fabric/Texture
Core	Glass Fibre And Polyester Fabric.
Thickness (mm)	25/40/50
Size (mm)	595x595/1195, 600x600/1200
Density (kg/m <sup>3</sup> )	120
Weight (kg/m <sup>2</sup> )	3
Fire (Class)	1 & P
NRC (15mm)	Upto 0.90
Thermal (W/mk)	0.07
Climate (C,RH)	40, 90
Light (%)	Colour dependant
Green (VoC, RC%)	Low, 25
Warranty ( Years)	5
Maintenance	Vacuum, Brush, Wipe



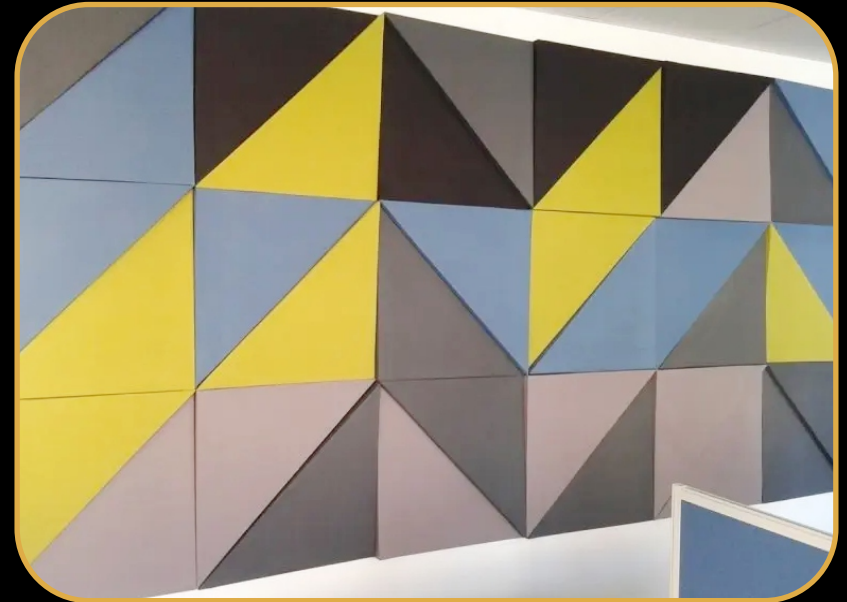
## SPANDEX PANELLING



Spandex System is a unique product developed in fabric, vinyl and custom graphic finish options. The spandex system has multiple applications because of its high acoustic performance in a choice of fabric and vinyl shades with custom graphics for exceptional walls and ceilings. Four variants of Spandex systems are available PS 15, PS 25, PS 38 and PS 50 which can be selected based on the acoustic performance desired and the limitation of the finished levels available at the site. Magnesite Pine Wool is used as an infill material and for higher acoustics requirements are also used as backer boards. Spandex is an highly versatile scalable design option to form various shapes and designs while meeting the functional performance criteria, at a cost-effective value proposition. Fabric and Vinyl's are available in a range of attractive colours. Spandex System on G.I studs 2400mm X 50mm web flanges 15 & 50mm fully knurled giving it high strength, hot dipped galvanized steel with 120GSM zinc coating specially designed for Acoustic vibration management and long life with a backing 50mm thick Rock wool @48kg density insulation intact with chicken mess wires. 600x1200x15mm Magnesite pine wool tile with NRC 0.9-1 to be mechanically fastened on the G.I Studs. Then 12mm clip rail system are screw fixed on to the 12 mm MDF waterproof and Acoustics panel's .Then the Spandex is stretched over the clip rail system. The installed system should provide NRC OF 1.00. Spandex colour as per Architect choice-Ref attached specifications for more details.

## AKOUS WALL PANELLING

Acoustical wall Panelling 69mm thick system using **AKOUS** Polyester fibre acoustic mat finish panel 10mm thick @ 200kg/m<sup>3</sup> density with Class A fire rating as per ASTM E 84 & thermal conductivity 0.034w/mk with desired acoustic management 0.80 NRC. The G.I. frame of thickness 0.50 consists of GI metal stud frame of size 50mm having one flange of 41mm and other of 44mm placed @ every 600 mm c/c in vertical direction .These studs are placed at floor and ceiling channels of 76 mm width and 0.50 mm thick and having equal flanges of 32 mm. The floor and ceiling channels are fixed to floor and soffit using fasteners at every 600mm c/c. A horizontal frame section is placed at every 600 or 1200mm c/c .The Polyester Wadding of thickness 50mm and density 48Kg/m<sup>3</sup> is fixed in between the studs enact with chicken mess .On outer side one layer of 9mm perforated water proof composite flour board is screwed .These boards are joined using "type S" Self tapping SS W 25 / 3.5 x 25mm corrosion resistant drywall steel screws spaced at 200mm centres on all joints and 300mm centres in the field of boards. Screw fixing is done mechanically. These boards are perforated ensuring min. 50% area is perforated. Finally 9mm thick Polyester fibre acoustic panels are pasted on top of MDF/WPC board (using any acrylic adhesive such as fevicol SR998 or hot melt adhesive) of the board as per design of the architect. The entire system should eco-friendly, 100% recyclable & toxic free.



## MAGNESITE CEILING



Acoustic Magnesite pine Wool tile is an environment-friendly, recyclable material. The natural components magnesite wood together provide many functional characteristics moisture-resistant material which evens out air humidity by absorbing and then emitting moisture into the ambient air which contributes to a pleasant indoor climate which is good for both comfort and health, high pH value also discourages mould and the material is not affected by rot. The open material structure reduces sound reflections and makes it a good sound absorber.

Acoustical Magnesite Pine Wool tile made of mineral wood fibers magnesite bonded having thickness of 15 - 20- 25mm tile Suspended on 24 mm strong Grid. The tiles should have Humidity Resistance (RH) of 90%, NRC 1.00, with Fire Rating as per BS476 (Part 6 & 7) in module size of 595 X 595 X 15 mm@ 400kg/m<sup>3</sup> density. The tile should have color option as per architect/person in charge. Tile would be backed with 50mm insulation@48kg density to achieve desired level of acoustic. The grid should be 24 mm wide T sections i.e. the Main Runner 3000mm in web height of 38 mm, 1200 mm & 600 mm Cross Tees in web height of 26mm. Installation to comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using suspension system at 1200mm maximum centre. The First/Last suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall. Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600 x 600mm module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200 mm cross tees. Perimeter trim to be wall angles of size 3000x19x19mm, secured to walls at 450 mm maximum centres and as per the drawing and the work complete in all respects to the satisfaction of Engineer in-charge. All accessories consisting of HLC Sleeve Fasteners of thread size 6.5mm x 25/5 with Soffit Cleat made of Galvanized steel of size 27 x 37 x 25 x 1.6mm and Level Clip in dimensions of 85x30x0.8mm with 4.00 mm GI wire.

### Product Data

Finish	Natural woodparticle
Core	Wood particle
Thickness (mm)	15, 20, 25
Size (mm)	595x595/1195, 600x600/1200
Density (kg/m <sup>3</sup> )	600
Weight (kg/m <sup>2</sup> )	9, 12
Fire (Class)	1 & P
NRC (15mm)	Upto 0.90
Thermal (W/mk)	0.1
Climate (C,RH)	50, 95
Light (%)	White: 80, Black: Low Light reflectivity & colour dependant
Green (VoC, RC%)	Low, 35
Warranty ( Years)	5
Maintenance	Vacuum, Brush, Wipe



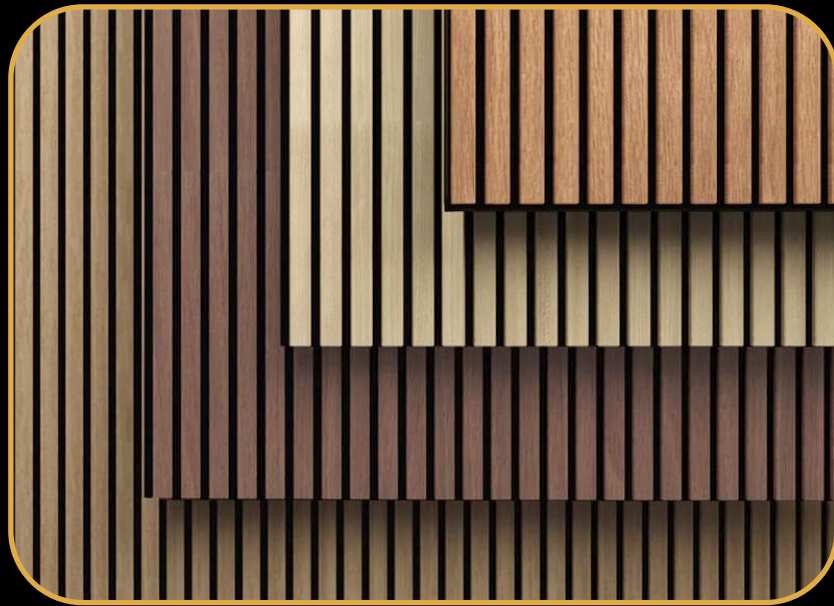
## MAGNESITE WALLS

Acoustic Magnesite pine Wool tile is an environment-friendly, recyclable material. The natural components magnesite wood together provide many functional characteristics moisture-resistant material which evens out air humidity by absorbing and then emitting moisture into the ambient air which contributes to a pleasant indoor climate which is good for both comfort and health, high pH value also discourages mould and the material is not affected by rot. These Acoustic products stores heat from the ambient air and emits it when the air temperature falls which contributes to lower energy costs, reduced environmental impact and a stable and comfortable climate indoors. The open material structure reduces sound reflections and makes it a good sound absorber. The material dampens noise and contributes to restful acoustics in residential buildings, industrial premises and public spaces. Acoustic Magnesite Wood is fire resistant and is type-approved as protective cladding with a class 1 coating. 15 - 20 - 25mm thick Magnesite Pine Wool Acoustic Panels in size 1220 x 610mm colored panel as per desired finish, Premium Square Edge. Panels are made of Pine Wood fibers containing cellulose bonded with Magnesite. The panels will be screw fixed @ 200mm on GI metal frame of 50 x 50mm making a grid of 610 x 610mm c/c. The frame is to be made in proper line after levelling. The panels will be backed with 50mm Rockwool of 48 kg/cum inserted inside the grid of 610 x 610mm which will comprise of minimum NRC 0.90 to 1.00, as per IS: 8225/ISO: 354/ ASTM: 423 – 90 a. The panel meets the stringent fire test required having Class 'P' rating for Ignitability test as per BS 476 part 5 and Class '1' rating as per BS 476 part 7 for Surface Spread of Flame test. Class 'P' and Class '1' are the highest rating. BS 476 part 6 Fire Propagation index, I = not greater than 4.11. Panels shall be spray painted with choice color for final finish.



### Product Data

Finish	Wood wool
Core	Wood fibre
Thickness (mm)	10, 15, 20, 25
Size (mm)	595x595/1195, 600x600/1200
Density (kg/m <sup>3</sup> )	400
Weight (kg/m <sup>2</sup> )	4, 6, 8, 10
Fire (Class)	1 & P
NRC (15mm)	Upto 0.90
Thermal (W/mk)	0.07
Climate (C,RH)	50, 95
Light (%)	White: 80, Black: Low Light reflectivity & colour dependant
Green (VoC, RC%)	Low, 35
Warranty ( Years)	10
Maintenance	Vacuum, Brush, Wipe



Wooden grooved panels is a range of wood finish wall panels. Wood is the most beautiful and natural element used in interior decoration world over. Wood enables designers to create rich and warm interiors. Wood range with its premium looks and exquisite shades provides an opportunity to create breath taking interiors.

In order to obtain the best decorative effect, we advise you to follow the points below: 1. Display all the panels before fitting. 2. Arrange them aesthetically with regard to their shade and grain. 3. Install the planks/ wall panels accordingly. With each order, it is recommended to allow for some extra panels to accommodate for visual variations.

- ⑩ Choice of Veneers, Laminate and Paint finish with multiple groove options
- ⑩ Rear side 10mm perforation with black acoustic fleece

### SPECIFICATION

Acoustical wooden grooved panel having system NRC up to 0.88 with lineal perforation. The high grade MDF panels shall be melamine laminate of size 2440mm x128mm x 18mm with 2mm groove at 14mm pitch, Tongue and Groove edges for seamless mounting having density of 800kg/m<sup>3</sup>(base panel confirming to IS 12406 and laminated panel confirming to IS 14587). The back of the panels are perforated with a nonwoven fabric covering of 0.2mm for providing Sound absorption via the acoustic impedance method. Panel is fixed by using GI Framework 2400mmx50mmx0.50mm spaced at 600mmx600 c/c & 12 mm MDF framework spaced at 400mm centers with suitable brackets and the system is backline with 50 mm Rockwool insulation@48kg density and along with all accessories example: chicken mesh and all.

### Product Data

Finish	Melamine/Veener/Paint RAL Shades
Core	Fibreboard
Thickness (mm)	12-15-17-18
Size (mm)	132x2440
Density (kg/m <sup>3</sup> )	600-800
Weight (kg/m <sup>2</sup> )	F-16, F-32, F-64, F-128
Fire (Class)	1 & P
NRC (15mm)	Upto 0.90
Climate (C,RH)	50, 70
Light (%)	Shade dependant
Green (VoC, RC%)	Low, 25
Warranty ( Years)	5
Maintenance	Vacuum, Brush, Wipe

## PERFORATED WOOD TILES FOR CEILING



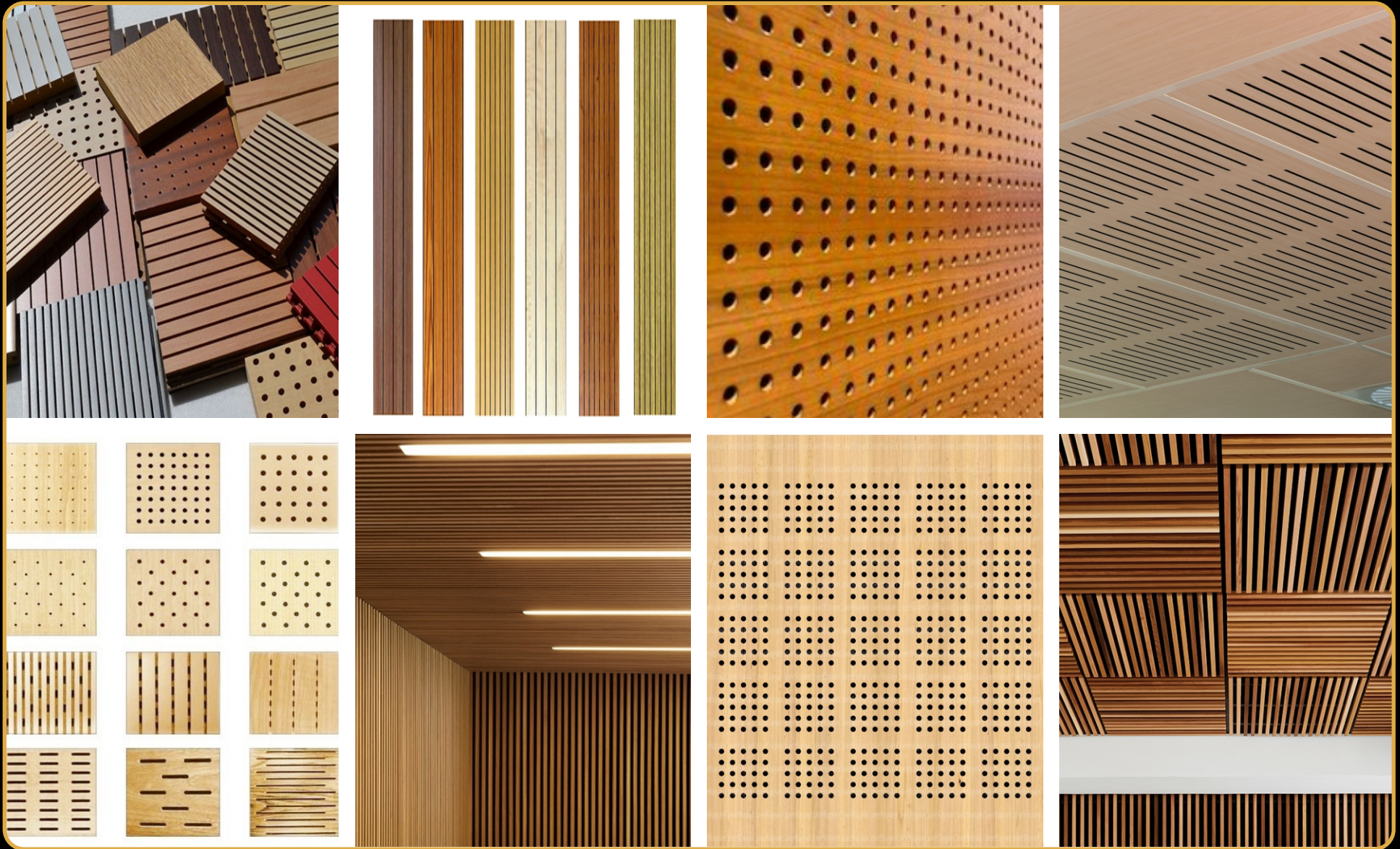
### Product Data

Finish	Melamine/Veener/Paint RAL Shades
Core	Fibreboard
Thickness (mm)	12, 15
Size (mm)	595x595/1195, 600x600/1200
Density (kg/m <sup>3</sup> )	600-800
Weight (kg/m <sup>2</sup> )	11.5
Fire (Class)	1 & P
NRC (15mm)	Upto 0.90
Climate (C,RH)	40, 70
Light (%)	Shade dependant
Green (VoC, RC%)	Low, 25
Warranty ( Years)	5
Maintenance	Vacuum, Brush, Wipe

Wooden Acoustical Suspended Ceiling Panels are high performance acoustic products with an exceptional visual appearance. Acoustic wood tiles come in a variety of configurations to meet all internal and acoustic requirements, providing sound reflection and absorption through grooves and vents. Acoustic insulation pads can be used to increase NRC values.

Acoustical Suspended Ceiling System – Tegular edge tile Lay in on 24 mm exposed Grid. The high Grade MDF panels having melamine laminated faced with hole or Slot system backed with a nonwoven fabric covering of 0.2mm for providing sound absorption via acoustic impedance method. The tiles should have Humidity Resistance (RH) of 99%, NRC 0.75, Light Reflectance >84% with Fire Resistance as per BS476 (Part 6 & 7) in module size of 595 X 595 X 12 mm@ 400kg/m<sup>3</sup> density. The Grid should be 24 mm wide T sections i.e. the Main Runner 3000mm in web height of 32 mm, 1200 mm & 600 mm Cross Tees in web height of 26mm to comprise main runner spaced at 1200mm centers securely fixed to the structural soffit using suspension system at 1200mm maximum centre. The First/Last suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall. Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600 x 600mm module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200 mm cross tees. Perimeter trim to be wall angles of size 3000x19x19mm, secured to walls at 450 mm maximum centers and as per the drawing and the work complete in all respects to the satisfaction of Engineer in-charge.

## WOODEN PATTERNS FOR CEILING & WALL



## AKOUS BAFFLES

**AKOUS** Acoustic Baffles are a kind of hanging ceiling acoustic material, with both sides sound absorbing features. The panel is mostly hung on ceiling horizontally or vertically depending upon the design requirement. The baffles are most effective used to reduce noise levels in industrial, offices and recreational and other high traffic and noisy areas, baffles can help reduce the actual room noise by 10-15 dB depending on the configuration of the baffles installed. They have good sound absorbing properties with optimum NRC 0.9. The Baffle range is designed in such a way contribute to a peaceful environment and to reduce sound because of its high functioning. These baffles are wrapped with either textured scrim matte surface and also available in soft fabrics and vinyl finish options.

Their high sound absorbing performance, durability and eye pleasing appearance are an unmistakable element in interior spaces. AKOUS baffle products are Class 1 fire rated. Damping of impact noise caused by rain on metal dock roofs. Combined with sound absorbent materials, it offers products with high acoustic performance. Ideally suited for open ceiling designs and acoustic corrections in places where it is not possible to install a false ceiling. The application of baffles is the ideal option for reducing reverberation due to the wide sound absorbing surface provided. The various colors and finish can satisfy the acoustic and decorative requirements for all the clients



### Product Data

Finish	Woodwool/woodmicro
Core	Glass Fibre And Polyester Fabric.
Thickness (mm)	50
Size (mm)	600/1200
Density (kg/m <sup>3</sup> )	400
Weight (kg/m <sup>2</sup> )	15
Fire (Class)	1 & P
NRC	Upto 0.75
Thermal (W/mk)	0.07
Climate (C,RH)	49, 95
Light (%)	Colour D
Green (VoC, RC%)	Low, 40
Warranty (Years)	5
Maintenance	Vacuum, Paintable

## METAL BAFFLES



The baffle ceiling system introduces unique design element to any space and is a striking addition whether it is installed throughout an entire room or just serves as an accent. Both the style and spacing is customisable and the system can also be installed on either vertical or curved surfaces. The Baffle ceiling panels can be easily installed and uninstalled for accessibility. The features and benefits of an open ceiling design with bolt on panels provides a unique seamless look to any indoor space. Can be installed on vertical and curved surfaces. Panel spacing and ends can be varied to suit ceiling and wall curvatures. Bolted bracket holds panels safely in place and can be easily removed for accessibility. A wide range of colors and wood tones to achieve a customised effect. Individually replaceable panels. It is widely used in Entertainment venues, Foyers, Galleries, Corridors, Lounges, Commercial spaces of Vertical Linear Baffle Box Curtain Closed Ceiling made out of pine wood. The baffle blade shall be in size of 100 x 30 x 3600mm/100 x 50-75 x 3600mm in PU polish of approved shade or wooden texture. The baffle blade shall be suspended using Slotted U-profile powder coated to black colour at an on-centre spacing of 150/200/250 mm. Installation. The C-Channel/U profile shall be suspended at every 1200mm on-centre using 6mm threaded rod/4mm rod/12 gauge hanger wire from the structural soffit at every 1200mm intervals using U-profile hanger/C-channel hanger. Multiple lengths of U-profile/C-channel shall be connected using U-profile connector/ C-channel connector. The baffle blades shall be suspended from the C-channel/U-profile carrier bars at the required intervals (150/200/250mm) using baffle hangers. Spacing between blades shall be adjusted using the slots in carrier.

## ACOUSTICAL CLOUDS



### Product Data

Finish	Fabric/Vinyl/Texture
Core	Glass Fibre And Polyester Fabric.
Thickness (mm)	20-30-40mm
Size (mm)	600/1200
Density (kg/m <sup>3</sup> )	100-120
Weight (kg/m <sup>2</sup> )	3
Fire (Class)	1 & P
NRC	Upto 0.85
Thermal (W/mk)	0.04
Climate (C,RH)	49, 90
Light (%)	Colour dependant
Green (VoC, RC%)	Low, 25
Warranty ( Years)	5
Maintenance	Vacuum, Brush

### Product Data

Finish	Woodwool/woodmicro
Core	Glass Fibre And Polyester Fabric.
Thickness (mm)	40-50mm
Size (mm)	600/1200
Density (kg/m <sup>3</sup> )	400
Weight (kg/m <sup>2</sup> )	10
Fire (Class)	1 & P
NRC	Upto 0.85
Thermal (W/mk)	0.07
Climate (C,RH)	49, 90
Light (%)	Colour dependant
Green (VoC, RC%)	Low, 35
Warranty ( Years)	5
Maintenance	Vacuum, Paintable

## ACOUSTICAL MOVABLE PARTITION

Soundproof partitions can instantly transform a space and make it more comfortable, a lot less noisy and more visually appealing and organized. You can make an office, restaurant or any room look more clean and modern, all while reducing noise distractions and improving privacy. The benefits of noise partitions, and reasons to consider adding them to your business, workplace or home, Imagine a call centre in a building without partitions. Noise would bounce off hard surfaces everywhere, and it would be tough to concentrate. According to the study, sound and temperature were the top factors affecting office productivity. Workers reported conversations, ringing phones and machines as the most annoying noises, and these noises had a significant impact on all survey participants. Acoustic partitions in office spaces reduce background noise, which, in turn, improves productivity. Noise partitions improve sound and speech intelligibility within a space. With less noise, you can hear better and therefore communicate better to reach your goals. It can be hard to focus when employees hear and see co-workers goofing off nearby. Acoustic partitions create a private, self-controlled space where employees can comfortably work distraction-free. A sense of independence is a benefit for employees. Acoustic partitions can also increase privacy in restaurants to create an enjoyable and intimate dining experience for customers.

### FEATURES

1. Top hung system without the need for a floor track
2. Retractable top and bottom seals ensure effortless movement of panels
3. Combines elegance with robust construction
4. Concealed or exposed panel edge profiles
5. Numerous panel stacking options for complete flexibility
6. Sealed for life roller assemblies provide smooth and silent movement
7. The system offers various levels of sound reduction
8. Extensive range of surface finishes available





## ACOUSTIC DOORS



Providing and fixing Fully Insulated Non Metallic Wooden Fire door at all levels. Wooden fire door should carry 120 minutes Insulation properties. Main Door frame shall be Single rebate profile of section 120 x 70 mm made out of Hard wood - Red meranti / Ivory Coast (2nd class ) as per requirement with factory made groove of suitable size so as to accommodate Fire & smoke seal of size 20x4mm . The frame must be primed with Fire retardant primer. Wooden shutter must be of minimum 52mm of thickness finished with commercial ply on both faces. The commercial ply must be finished with Fire retardant primer. The Commercial ply may also be pasted with Laminate in desired shade (payable in extra item). The composite thickness of the core insulation will be 44mm consists of Calcium Silicate boards of approved make and treated wool Insulation material. The shutter should be provided with heat activated intumescent fire seal strip of size 20mm x 4 mm mounted in the suitable grooves all three sides except bottom provided on Exposed OR concealed wooden lipping . Vision panels wherever required should be of 120 minutes fire rated clear non-wired type. All hardware's, Fasteners and FR Glass shall be payable in Extra item. Door shutter provided with commercial ply on both faces with 1mm Thick Regular SF grade Factory pasted Laminate on both faces and Main frame made out of hardwood frame. Frame primed with Fire retardant primer.



**FIXTURES OF DOORS:** (A) Supply & fixing of SS Ball Bearing Hinges of size 100 x 75 x 3mm complete with SS Screws of BB1953 (4 No's per panel).

(B) Supply & fixing of anchor fasteners of HILTI/ FISHER/ Equivalent of M10X120mm length.

(C) Supply & fixing of door closers of (Except shaft door).

(D) Supply & fixing of Stainless Tower Bolt 300mm Long for Double leaf door of height up to 2100mm with necessary screws as required.

(E) Supply & fixing of Stainless Tower Bolt 600mm Long for Double leaf door of height up to 2400mm with necessary screws as required.

(F) Supply and Filling the gap between wall & Door frame by using silicone sealant and Wool insulation on both side of the door.

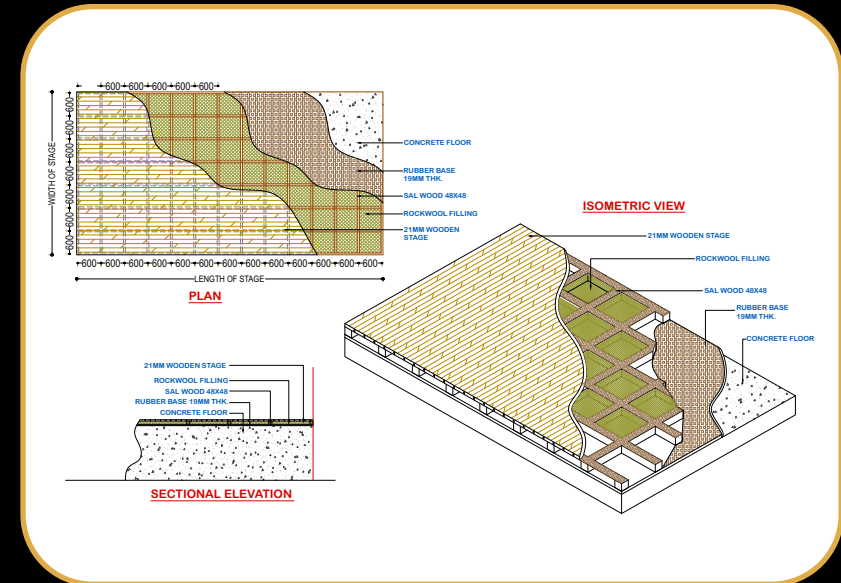
## WOODEN FIRE RATED DOORS

**DOOR FRAME:** Wooden Door Frame of hard wood/teak wood section 150mm x 95mm with heat activated in tumescent fire seal strip of size 15mm x 4mm and finished with one coat of anti-termite fire retardant primer or paint and fitted with acoustic seal on all three sides.

**DOOR SHUTTER:** 65mm thick acoustic cum fire/smoke check Shutter of 38 db acoustic cum of 120 minutes rating confirming to BS 476 Part-22 & IS: 3614 part-2 comprising of sandwiching 29mm thick fire resistance insulation material between two 12mm thick calcium silicate board faced with 6mm thick commercial/teak ply with heat activated in tumescent fire seal strip of size 15mm x 4mm mounted in the grooves of hardwood lipping on all three sides except bottom along with acoustic seal.

## STAGE FLOORING

Providing and Fixing Acoustical Wooden Stage Flooring Compatible with Under-ground signal cabling and Pop-Up Boxes: Providing and fixing 65/75 X 18 thick in random length, 2nd class teak wood planks flooring with tongue and groove joints on a layer of 19 mm thick BWP grade ply of approved make and manufac-ture, fixed to hardwood joint 50 X 50 mm at 600 mm c/c in one direction and 60 X 50 mm Sal battens 600mm c/c on other direction, Hardwood joint resiliently supported on 100 X 100 mm Rubber Pads, the framework to be filled with 50mm thick Insulation Wool resin bonded insulation of density 24kg/cum. PU polishing of teakwood on the exposed surface: In horizontal/vertical plane (rate for floor-ing shall include providing additional framework required for housing microphone and power outlet junction - signal & Popup Stage boxes, If required providing and fixing hinged 18mm thick teakwood cover for the junction boxes. Work complete in all Respect. The Work shall be executed as per drawings, Specifications & Instruction of engineer in charge.





Natural stone, aluminum panel, glass are very common material in application of architectural facade cladding projects. However, terracotta facade panel, is just like a rising star the comparable strengths of terracotta panel.

### **Green and Environment-friendly**

Terracotta panels raw material is natural clay, and the terracotta panel is colored by making use of the clay's natural color and luster, with very little or no dyeing chemicals added. Mono color before, but colorful after the kiln firing, the terracotta panels are with diverse colors, the color and luster are natural and in rich texture, and it will never fade, which well meets the modern architecture's design demands for mainstream colors. Meanwhile, the products are without any radiation and can be 100% recycled, which are indeed green construction materials friendly to the environment.

### **Excellent Building Performance Index**

Terracotta panel products are produced through processes of strict raw material processing, high pressure extrusion forming, and 1,200C high temperature burning, with very stable and even physicochemical properties. As curtain wall materials, terracotta panels have features of fire safety, acid and alkali resistance, scratch and wear resistance, and high compressive strength. Even placed in environments of ultra-high temperature or of low temperature and frost, the terracotta panels can keep great stability performance.

### **Waterproof and Anti-collision Design, Pressure-proof and Anti-seismic**

Terracotta panels are with splicing design for installation based on the Rain Screen Principle, and a special design using EPDM gaskets connecting the parting between interfaces on both ends, can effectively reduce rainwater invasion, prevent terracotta panels lateral movement, and prevent the collision between adjacent terracotta panels.



## TERACOTTA

Extruded Hollow Clay / Terracotta Ventilated Rainscreen Façade Tiles of grid dimensions 300 x 600mm/1200mm (c/c) in a horizontal direction on the building facade. The extruded hollow clay tile cladding material shall be rigid and of adequate strength and shall have a minimum total thickness of 16 mm ( $\pm 10\%$ ). The tiles shall be installed using the ventilated rainscreen principle, with provision for natural ventilation of the space between the façade tiles and the structural wall. The clay tiles shall be of the hollow type, fixed to a supporting aluminium framework consisting of vertical 'T' / 'L' / Tube sections measuring 80x60x2mm/ 40x60x2mm/ 40x40x2mm respectively, spaced at maximum 600mm/1200mm c/c intervals matching to the tile vertical grid, and horizontal aluminium 'C'-clamps measuring 56x25mm x 150mm/ 75mm length fixed on top of the vertical sections at maximum 300mm c/c matching to the tile horizontal grid.

The vertical 'T'/'L'/Tube' sections shall be fixed to the wall using Steel L-brackets (Galvanized thickness minimum 80 microns) and Hilti/Wurth/ Fischer AISI 304 stainless steel anchor fasteners for MS framework/ brickwork/ concrete as applicable, spacing to be based on a structural/ static calculation. The brackets shall be fixed to the vertical aluminium T / L / Tube profiles using two AISI 304 stainless-steel self-drilling/ self-tapping screws of dimensions 5.5 x 25mm.

The horizontal aluminium 'C'-clamps shall be fixed on top of the vertical aluminium 'T'/'L'/Tube' sections from front using two AISI 304 stainless steel self-drilling/ self-tapping screws. The tiles shall be mounted on the C-clamps such that the tiles are supported at top and bottom at both ends. The tiles shall be additionally secured to the horizontal C-clamps using special stainless steel clips which shall be inserted and pressed into position on the C-clamps holding the tiles. In certain cases, instead of securing the tiles with clips, the tiles shall be glued at points to the horizontal C-clamps using an MS Polymer Sealant adhesive. The vertical joint between adjacent tiles to be a 6mm open groove.



### Product Data

<b>Mechanical Properties: As per ISO 10545-2, Dimension Tolerances are:</b>	
Length (Extrusion Direction)	+/- 1 mm
Height	+/- 0.5%
Thickness	+/- 10%
Straightness (Extrusion Direction)	+/- 0.35% of length
Rectangularity	+/- 1% of height
Surface flatness	+/- 0.7% of length or height
Weight	27 Kg / Sqmt. (+/-10%)
As per ISO 10545-3, Water Absorption (via Boiling Method) is < 8%	
As per ISO 10545-4, Flexural/ Bending Strength is > 14 N/mm <sup>2</sup>	





# ANAKON

CEILING & ACOUSTICS

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