

Gypsonite Product specification

Baffle Ceiling System

Acoustic sound baffle, popularly known as **baffle ceiling system**, is an open-kind of ceiling construction that provides an aesthetic view and easy to install in the plenum area. It is a kind of drop out or suspended ceiling system that makes an ideal choice for large places with limited wall spaces. Available in various combinations and materials, it supports construction from wood, aluminum and such materials that reduce the noise level of airborne sound and even ease the task of installation of lighting, sprinklers, PA systems, etc. At Gypsonite, industrial customers will get the best quality of the baffle ceiling systems at rock-bottom prices.

Advantages with Baffle Acoustic Ceiling System

The baffle ceiling holds a unique position in the acoustical market. Easily accessible with countless possibilities in design and execution, its high-quality suspension system ensures efficient functioning. Creating an unusual room's atmosphere, baffle ceiling is ideal for reducing reverberating sound and mitigating the level of noise pollution. It is highly fire-resistant, light-weight and easy to install. This is the main reason that commercial places like concert halls, conference rooms and theatres seem to prefer installing **baffle acoustic ceiling systems** where high sound quality is of paramount importance. Besides, it gives aesthetic look to the space where it installed. This is the main reason that the baffle ceiling is rated as a highly acoustic ceiling system for commercial setups.

Attractive Ceiling Variations

We at Gypsonite offer baffle ceiling in various designs and sizes. Some of the most common available sizes are 25*50/75/100/150/200mm, 30*100mm and so on. We maintain an extensive variety of **baffle acoustic ceiling systems** for outdoor and indoor applications. Available in aluminum and galvanized iron material, we have been offering the premium quality of baffle ceiling that fits seamlessly on curved and vertical surfaces. Though available in various uni-colours, industrial spaces look remarkably beautiful with wood tones, chrome finishing and special metallic colours. We are ready to fulfil every customized colour requirements of customers upon request.

Gypsonite – A One Stop Provider for High-Quality Baffle Acoustic Ceiling System

We have been offering top-of-the-line ceiling systems to our customers worldwide. We give utmost importance to quality standards, therefore import baffle ceiling from those manufacturers that never compromise on material and machinery. It is a known fact that superior quality ceilings demand a one-time investment and their durable nature lowers the cost of the product during its life cycle. Thus, we strive to offer premium quality of ceiling solutions that outweigh the cost of purchasing and installation in the long run.

Our **baffle acoustic ceiling systems** have been receiving high appreciation from commercial and industrial clients due to their excellent sound reverberation quality. We feel the pride to announce that our clients

value our products and pricing structure, and even give us references as a goodwill gesture to help us expand our footprint in the competitive business landscape.

Gypsonite™ Industries Pvt Ltd

Add:13, First Floor, Centrium Shopping Center, Lokhandwala Complex, Kandivali(East), Mumbai-400101.

Contact no: 022 42959707 **Email:** info@gypsonite.com **Website:** www.gypsonite.com

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So, just have a look at our extensive stock of baffle ceilings and choose the finishing, size and style as per your industrial requirements.



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2. Open Cell Ceiling System

The suspended Open Cell ceiling is in great demand these days not only in the Indian market but globally. This ceiling system adds value to the overall interiors of a space where open as well as lightweight constructions are preferred. It is one of those ceiling systems that is available in 7 modular cell dimensions and in 2 profile heights. The ceiling scores extremely well in functionality, aesthetical appearance, environmental friendliness and durability. Capable of creating attractive lighting and shadow effects, this kind of ceiling acts as a ceiling mask to the plenum and becomes the center point of attraction. We, at Gypsonite, have been offering stylish ranges of **open cell ceiling systems** to worldwide customers at an affordable price range.

What is “Open Cell Ceiling”?

It is a mesh panel in the form of metal cells, a frame that is attached to the wall. Such panels are made of stainless steel, aluminum and galvanized iron, and commonly available in U-shaped. Customers have vast choices when it comes to colors, which are otherwise vary from matt and glossy finishes. The base consists of intermediate and bearing guides and is mounted using 600 x 600 mm grilles. By creating such repetitions of individual grids – a picture of a uniform canvas is created and visually distinguishes it by the transparency and lightness of the pattern, which is a popular trend of late. These ceiling systems support an integrated suspension system with cross and main runners.

Advantages with Open Cell Ceiling Systems

The key aspects of the **open cell ceiling systems** are they are capable to accommodate lay-in light systems, sprinklers, ventilation systems and air diffusers seamlessly and the suspended raster ceiling does not restrict access to communications while hiding them. Besides adding unmatched grace to any space, open cell ceiling has its series of other advantages also that are as follows:

- Cell elements are easy to install as well as removed without any special tool.
- Ceiling Plenum is quick to access
- This ceiling is also available as swing-down, tile, sliding and hook-in
- It is an ideal way to visually reduce the room height whilst making no compromise with original room volume
- It is a fireproof material with smooth edges and high durability
- It ensures optimum temperature control
- The powder-coated finishing imparts an attractive appearance
- It gives a stylish appearance when used with T-15 grids and modular cell element
- It is made from high-quality material that blends with cross and main runners seamlessly
- It is available in distinctive shades and patterns
- The common cell sizes are 50mm * 50mm, 100mm*100mm, 150mm*150mm and 200mm*200mm
- It is easy to customize with different colours and finishing

Because of all these features and benefits, the Open Cell Ceilings commonly installed in commercial areas where the open and lightweight ceiling is required. Office buildings, medical institutions, entertainment complexes, terminals of stations and airports, public catering establishments, concert halls, department stores, saunas, swimming pools, etc., are a few places that will turn aesthetic with acoustic **open cell ceiling system**.

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3) Lay In Metal Tiles

What motivates you to add excellence to your ceiling designs? Could it be a classic touch or the intricacy of creative patterns? No matter what sparks your imagination, Perforated Metal Ceiling Tiles can tell your design story.

Gypsonite brings your one-of-a-kind ideas to life. From conceptualization of initial design, to product selection, installation, customization, and specification to achieve the finished installation, we are your trusted metal ceiling tiles distributors. Although, you have myriads of options for metal ceiling tiles, but when it comes to durability, functionality and aesthetical appeal, perforated metal ceiling tiles exceed your expectation. They're not only strong, but also offer variety of design options to fit your taste. The metal ceiling tiles with decorative openings not only adds aesthetic effect to the architectures, also allows easy air flow. The perforated ceilings bring enhanced sound absorption and even magnetic qualities. There is no other variety more versatile for enclosures than perforated metal materials.

Not only will the metal ceiling tiles add excellent sound absorption, but the installation of our perforated metal ceiling tiles will also provide noise reduction from the spaces above and near the treated area as well. Our metal ceiling tiles are made to be stylish, elegant and performance oriented. We offer clip in tiles and lay in tiles.

Product Details:

Lay In False ceiling system with GI/ Aluminum tiles 595*595mm is manufactured out of 0.5 mm thick polyester coil coated Galvanized Steel 120/180 gms zinc coating or 0.70 mm aluminum powder coated with 50 microns polyester paint in AA5050, AA3105 or AA1050 alum. Alloy these tiles can have square or bevelled edges. Coil coated steel tiles has 20 micron polyester coated finish and back coat of 5-micron alkyd primer. The exposed metal grid comprise of main runner and cross tees, roll formed from galvanized steel of 120/180 gms zinc coating. The main and cross tee are provided with bayonet coupling for quick installation and have a height of 33/38 mm and 25 mm.

The grid is suspended from the roof with GI Wire rods for quick adjustment by suspension hangers at max. 1200 mm and is filled with 1200 mm /600mm cross tees. Hangers are fixed to roof by expansion fasteners. Wall angle are 24 mm *24 mm *0.35 mm thick coil coated steel matching the colour of the tiles.

Technical Specification

Features	Water Proof, Corrosion Resistant
Surface Treatment	Coated
Material	GI/ Aluminium
Size	595mm x 595mm
Perforation	2.5mm and 1.7mm
Body Structure	Perforated/Plain
NRC	0.45 to 0.60
CAC	< 20

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4) Clip - in - tiles

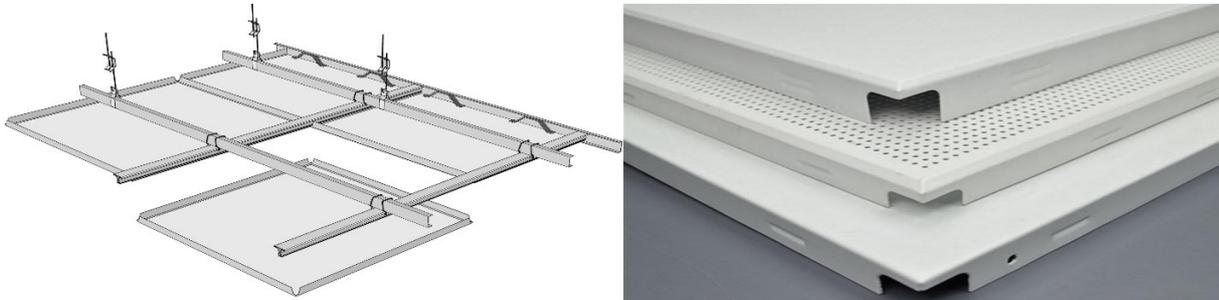
Manufactured using state of the art equipment, our clip in tiles are perfectly raised, piped and stopped to ensure secure clip engagement, in profile or spring tee, yet allows for hassle free demounting of individual tiles. The tiles are available in square and beveled edge types and made from 0.6/0.7mm thickness aluminum and 0.5mm thickness galvanized and coil. It is coated on a continuous paint line to give superior finish. We have a wide range of clip in tiles in alluring colors, finishes and perforations. Our Gypsonite planks are available in sizes 600x600mm and 600x1200mm.

Clip In Plain Tiles

Clip-in false ceiling system with GI/Aluminium tile (600 mm x 600 mm) is manufactured out of 0.50 mm thick regular modified polyester coated galvanized steel (z-120/180 gms total zinc coating mass of both sides, 240 mpa yield stress). These tiles can have square or beveled edges. It is available in matt finish on the exposed side and a primer coating on the back. Optionally, they can be coil coated on the both sides in different standard color shades. Then the tile has 20-micron polyester coated finish and back coat of 5-micron alkyd primer. Two sides of each tile are raised and piped and stopped to ensure positive engagement into the spring clip-in profile, yet allow for demounting of individual tiles. The rigid suspension system consists of rows of 0.5 mm galvanized steel clip-in profiles of size 38 mm x 20 mm, installed at 600 mm c/c spacing to support the tiles. Suspension angles are suspended from the roof structure by G.I. ceiling brackets. They are joined to the clip-in profiles by hold-on clamps. The tiles / planks are held in place by pressure clips. In the flexible system the hanger and butterfly clip replace the suspension angle. Wall angle are of size 24 mm x 24 mm and 0.4/0.5 mm thick. They are made of coil coated steel or aluminum matching the color of tiles. Perforation is of 2.5 mm dia. At 5.5 mm c/c.

Clip In Perforated Tiles

Clip-in false ceiling system with steel tile (600 mm x 600 mm) is manufactured out of 0.50 mm thick regular modified polyester coated galvanized steel (z-120/180 gms total zinc coating mass of both sides, 240 mpa yield stress). These tiles can have square or beveled edges. It is available in matt finish on the exposed side and a primer coating on the back. Optionally, they can be coil coated on the both sides in different standard color shades. Then the tile has 20-micron polyester coated finish and back coat of 5-micron alkyd primer. Two sides of each tile are raised and piped and stopped to ensure positive engagement into the spring clip-in profile, yet allow for demounting of individual tiles. The rigid suspension system consists of rows of 0.5 mm galvanized steel clip-in profiles of size 38 mm x 20 mm, installed at 600 mm c/c spacing to support the tiles. Suspension angles are suspended from the roof structure by G.I. ceiling brackets. They are joined to the clip-in profiles by hold-on clamps. The tiles / planks are held in place by pressure clips. In the flexible system the hanger and butterfly clip replace the suspension angle. Wall angle are of size 24 mm x 24 mm and 0.4/0.5 mm thick. They are made of coil coated steel or aluminum matching the color of tiles. Perforation is of 2.5 mm dia. At 5.5 mm c/c.



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5) Linear Ceiling System

Gypsonite presents quality architectural ceiling and linear metal ceiling systems. Our wide range of standard and custom ceiling systems makes us one of the best sources for linear metal ceiling. Considered as the contemporary panels, our linear metal ceiling system holds significance for developing dynamic ceilings.

Linear Metal Ceiling Well structured to meet the interior as well as exterior needs, our linear metal ceiling system allows exclusiveness and variability of designs. These panels have the excellence to create dynamic ceilings together with gentle rolling waves. Its functional design provides endless access with a trifling obligation. Each and every aspect of our linear ceiling system holds importance for effectively controlling sound system and enabling easy functioning of tasks without difficulty.

Besides optimizing acoustics, Gypsonite metal ceiling systems can contribute to the peace of mind by providing rigorous performance requirements for humidity, fire, wind loads, earthquakes and sustainability. Since linear ceilings are made of metal, they do not absorb water and do not support mold or microbial growth. These attribute guarantee indoor air quality and occupant health. We have coil coated as well as powder coated, galvanised iron and aluminium material, plain and perforated design.

The strength and durability of metal ceiling systems assists in reducing waste ending up in landfills. Metal ceiling systems are 100 percent recyclable at the end of their lifetime usage as a ceiling. With little or minimal maintenance, these systems have shown to give reliable performance for decades. Our metal ceilings are characterized by precise standards of make and finish, and by the fact that they can be used universally. We offer standardized ceilings as well as individual design ceilings and project solutions. With top-notch functionality and optional additional features, our linear metal ceilings can be adapted to meet even more specific needs.

Why Us?

Designers and architectural experts prefer to use our linear metal ceiling systems to create beautiful, comfortable spaces that add a touch of luxury to your living, support sustainability and provide peace of mind. Choosing from the exact sizes and breadth of panels, colours, curves and perforations, the entire system achieve that perfect look they want and the required performance they need. We are also appreciated for our cost-competitive ceiling systems and the ease of installation of panels, contributing to labour savings and on-time completion. This is why people approach Gypsonite for their architectural construction and linear metal ceiling systems.

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5.1 150F Decorative Ceiling

150F LINEAR CEILING SYSTEMS

150F ceiling system comprises of 150 mm X 17 mm. Panels are fixed on the roll formed out of metal coils galvanized coil coated steel or aluminium alloy. carriers 34.5 mm wide X 48 mm deep out of 0.7/0.9 mm Aluminium or 0.5/0.6 mm galvanised steel with cutouts to hold the panels in module of 150 mm at maximum 1.5 mm c/c without insulation and at maximum 1.2 mm c/c with insulation. Carriers are suspended from the roof or truss by 4 mm dia galvanized steel wire rod hanger with special height adjustment suspension clip at max. 1.2 mm c/c. Hangers are fixed to the roof by ceiling brackets. Panels are available in lengths up to maximum 6 m to suit site dimensions. Edge profiles or wall angles are 24 mm X 24 mm and match the colour of the panel.

Aluminium - Alloy AA5050, AA3105 or AA1050 is used to make the panels and carriers. Thickness is 0.5 mm for panels and 0.7/0.9 mm for carriers. Mild Steel - Galvanized with 180 / 120 gsm Zinc coating. Thickness is 0.5/0.6 mm for panels and 0.6/0.5 mm for carriers. Finish of the panels: Panels are available in plain and perforation 2.5 mm 2.2mm 1.5 mm and 1.8 mm.



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5.2) 84R Linear Ceiling System

84R ceiling system comprises of 84 mm x 16 mm panels without flush profile (for 100 mm module only) roll formed out of metal coils. Panels are fixed on to roll formed carriers 32 mm wide x 39 mm deep made out of 0.9/0.7 mm Aluminium or 0.5 mm galvanised steel sheet with cutouts to hold the panels in module of 100 mm at maximum 1.7 mm c/c without insulation and at maximum 1.5 mm c/c with insulation. Carriers are suspended from the roof or truss by 4 mm dia. galvanized steel wire rod hanger with special height adjustment suspension clip at max. 1.3 mm c/c. Hangers are fixed to the roof by ceiling bracket. Panels are available in max. Lengths up to maximum 6 m to suit site dimensions.. Edge profiles or wall angles are 24 mm X 24 mm X 0.5 mm thick and match the colour of the panel. Flush profile can be use in between 2 panels to fill gap of 16mm.

Metal used for construction of both panels and grid: Aluminium Alloy AA5050, AA3105 or AA1050 is used to make the panels carrier. Thickness is 0.5 mm for panels and 0.9/0.7 mm for carriers. Panel are made of Galvanised steel with 180/120 gsm Zinc coating and 20 microns polyester paint coil coating sheets. Panels can be available in 50 microns polyester powder coating galvanized steel with 120/180 gsm Zinc coating or in aluminium alloy in different colours. Finish of the panels : Panels are available in plain and perforation of 2.5 mm 2.2mm 1.5 mm and 1.8 mm.



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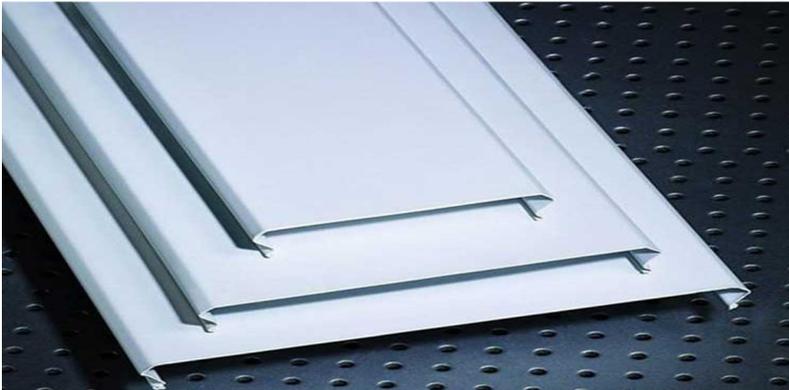
5.3) 84C/184C Linear Ceiling System

84C/184 C ceiling system comprises of 84/184 mm x 12.5 mm panels with 23.9 mm flange roll formed out of metal coils galvanized coil coated steel or aluminium alloy. Panels are fixed on to roll formed carriers 32 mm wide x 39 mm deep out of 0.7/0.9 mm Aluminium or 0.5 mm galvanized steel sheet with cutouts to hold the panels in module of 100/200 mm at maximum 1.6 mm c/c without insulation and at maximum 1.5 mm c/c with insulation. Carriers are suspended from the roof or truss by 4 mm dia. Galvanized steel wire rod hanger with special height adjustment suspension clip at max 1.3 mm c/c. Hangers are fixed to the roof by ceiling bracket. Panels are available in lengths up to maximum 6 mm to suit site dimensions. Edge profiles or wall angles are 24 mm X 24 mm X 0.5 mm thick and match the colour of the panel.

Metal used for construction of both panels and carrier:

Aluminium Alloy AA5050, AA3105 or AA1050 is used to make the panels and carrier. Thickness is 0.5 mm for panels and 0.9/0.7 mm for carriers. Panel are made of **Galvanized steel** with 180/120 gsm Zinc coating and 20 microns polyester paint coil coating sheets. Panels can be available in 50 microns polyester powder coating galvanized steel with 120/180 gsm Zinc coating or in aluminium alloy in different colours.

Finish of the panels : Panels are available in plain and perforation of 2.5 mm 2.2mm 1.5 mm and 1.8 mm.



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5.4) 200F Linear Ceiling Systems

200F ceiling system comprises of 200 mm X 17 mm. Panels are fixed on the roll formed out of metal coils galvanized coil coated steel or aluminium alloy. Carriers 34.5 mm wide X 48 mm deep out of 0.9 mm Aluminium or 0.5 mm galvanised steel with cutouts to hold the panels in module of 200 mm at maximum 1.7 mm c/c without insulation and at maximum 1.5 mm c/c with insulation. Carriers are suspended from the roof or truss by 4 mm dia galvanized steel wire rod hanger with special height adjustment suspension clip at max 1.2 mm c/c. Hangers are fixed to the roof by ceiling brackets. Panels are available in lengths up to maximum 6 mm to suit site dimensions. Edge profiles or wall angles are 24 mm X 24 mm and match the colour of the panel. Metal used for construction of both panels and carriers :Aluminium - Alloy AA5050, AA3105 or AA1050 is used to make the panels and carriers. Thickness is 0.6 mm for panels and 0.9 mm for carriers. Mild Steel - Galvanized with 180/120 gsm Zinc coating. Thickness is 0.5 mm for panels and 0.5 mm for carriers. Finish of the panels: Panels are available in plain and perforation of 2.5 mm 2.2mm 1.5 mm and 1.8 mm.



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6. Thermal Insulation Sheets

Most Modern Brand in the world of Sophisticated Manufacturing Technology with High Speed Production facility in India now. Thermal Insulation Sheets is a reflective insulation manufactured by Gypsonite™ Industries Pvt Ltd Thermal Insulation Sheets is an Eco-friendly, Energy Saving product, used regularly in Green Buildings. Thermal Insulation Sheets acts as a thermos works in both summer and winter conditions.

Heat Transfer

Radiation: Radiation heat (Blocks or reflects 97%)

Conduction: (Minimum because 97% blocked or reflected)

Convection: (Minimum because 97% blocked or reflected)

Thermal Insulation Sheets Insulation during summer can block 97% of radiation heat coming from sun which can enter into building and balance heat will enter by conduction and convection (which is negligible). During winter Thermal Insulation Sheets keeps heat escaping from building by reflecting 97% of the heat back in the building. In turn requiring less work by your heating systems. Thus Thermal Wrap™ is the only solution for both summers and winters to save energy and money.

Manufacturing

First of its kind in reflective insulation Extrusion High Speed plant in India, Latest Extrusion technology in line process machine, which meet all standards like American, European, British, Australian, Japanese, New Zealand, Indian etc.. Our aim is to export 60% of our manufacturing Capacity.

	<p>Thermal Insulation Sheets SINGLE PE 4 mm Bubble with one side High resistance anti corrosive Aluminum foil. Emissivity (ASTM 1371) 5% Reflectivity (ASTM 408) 95% Fire resistance (BS Part 7)</p>
	<p>Thermal Insulation Sheets DUBBLE PE 4 mm Bubble with both sides High resistance anti corrosive Aluminum foil. Emissivity (ASTM 1371) 3% Reflectivity (ASTM 408) 97% Fire resistance (BS Part 6,7)</p>

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	<p>Thermal Insulation Sheets LARGE PE 10 mm Bubble with both sides High resistance anti corrosive Aluminum foil. Emissivity (ASTM 1371) 3% Reflectivity (ASTM 408) 97% Fire resistance (BS Part 6,7)</p>
	<p>Thermal Insulation Sheets PREMIUM 6 mm PE Bubbles with one side Acid Resistant foil and other side anti corrosive high resistant Aluminum foil\net. Emissivity (ASTM 1371) 5% Reflectivity (ASTM 408) 95% Fire resistance (BS Part 6,7)</p>

Architects Specifications

Thermal Insulation Sheets Super (4mm) : The reflective insulation material shall be made up of high resistance anti corrosive both side pure Aluminum Foils with 4 mm closed cell non-toxic fiber free PE bubbles in between manufactured by Divine Thermal Wrap™ Pvt. Ltd., consists Low Emissivity 3% (ASTM1371), Reflectivity (ASTM 408) 97%, Fire Retardant (BS Part 6, Part 7), Aluminum foil thickness - 12 microns.

Thermal Insulation Sheets Single (4mm) : The reflective insulation material shall be made up of one side high resistance anti corrosive pure aluminum foil, other side white FR PE with 4 mm closed cell non-toxic fiber free PE bubbles manufactured by Divine Thermal Wrap™ Pvt. Ltd., consists Low Emissivity 5% (ASTM 1371), Reflectivity 95% (ASTM 408), Fire Retardant (BS 476 Part 7), Aluminum foil thickness -12 microns.

Thermal Insulation Sheets Premium / Net (6mm) : The reflective insulation material shall be made up of one side high resistance anti corrosive aluminum foil and other side Met Pet with 6 mm closed cell non toxic fiber free PE bubbles manufactured by Divine Thermal Wrap™ Pvt. Ltd, consists Low Emissivity 5% (ASTM 1371) Reflectivity 95% (ASTM 408), Fire Retardant (BS 476 Part 6,part 7), Aluminium foil thickness - 12 microns.

Thermal Insulation Sheets Big (10mm) : The reflective insulation material shall be made up of high resistance anti corrosive both side aluminum foils with 10 mm closed cell non-toxic fiber free PE bubbles manufactured by Divine Thermal Wrap™ Pvt. Ltd. Consists Low Emissivity 3% (ASTM 1371), Reflectivity 97% (ASTM 408), Fire Retardant (BS 476 Part 6, Part 7), Aluminum foil thickness – 12 microns.

Thermal Insulation Sheets Unique (20mm) Double Bubble : The reflective insulation material shall be made up of high resistance anti corrosive both side aluminum foils with 20 mm closed cell non-toxic fiber free bubbles manufactured by Divine Thermal Wrap™ Pvt. Ltd. Consists Low Emissivity 3% (ASTM 1371), Reflectivity 97% (ASTM 408), Fire Retardant (BS 476 Part 6, Part 7), Aluminum foil thickness – 12 microns.

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	Thermal WrapSingle	Thermal WrapSuper	Thermal WrapPremium	Thermal WrapBig	Thermal Wrap Unique
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THICKNESS	4 MM	4 MM	6 MM	10 MM	20 MM
SPECIFICATION	PE 4 MM Bubble with one side high resistance anti corrosive Aluminium foil	PE 4 MM Bubble with both side high resistance anti corrosive Aluminium foil	PE 6 MM Bubble with one side high resistance anti corrosive Aluminium foil/net and other side Acid resistance foil	10 MM Bubble with both side high resistance anti corrosive Aluminium foil	PE 10 MM Double Bubble with both side high resistance anti corrosive Aluminium foil
R VALUE	1.55 M ² °C/W	2.98 M ² °C/W	2.20 M ² °C/W	3.10 M ² °C/W	3.85 M ² °C/W
EMISSIVITY	5%	3%	5%	3%	3%
REFLECTIVITY	95%	97%	95%	97%	97%
FIRE RETARDANT BS 476 Part 6	N/A	Class 0	Class 0	Class 0	Class 0
FIRE RETARDANT BS 476 Part 7	N/A	Class 1	Class 1	Class 1	Class 1
Flame spread classification & smoke density development according to: UL 723,NFPA No. 255,UBC No.8-1	N/A	Class A	Class A	Class A	Class A
OPRATING TEMP	-40 to +85	-40 to +90	-40 to +90	-40 to +90	-40 to +90
TEMPRATURE DIFFERENCE	5°C to 6°C	6°C to 8°C	5°C to 8°C	7°C to 10°C	8°C to 10°C
Effective dBA reduction (Noise Reflection)	3 dBA	4 dBA	5 dBA	6 dBA	7 dBa
ROLL WEIGHT	16 KG	18 KG	20 KG	12 KG	22 KG
ROLL SIZE	1.2 M * 60 M	1.2 M * 60 M	1.2 M * 50 M/td>	1.2 M * 30 M	1.2 M * 20 M

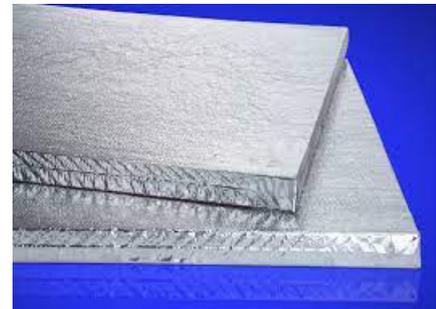
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Contact no: 022 42959707 **Email:**info@gypsonite.com **Website:**www.gypsonite.com

CIN: U26960MH2012PTC232596 /**GSTIN:** 27AAECG8167D1ZI

7. Heat Insulation Panel



Construction

UPS's consist of:

- Membrane walls, used to prevent air from entering the panel.
- A panel of a rigid, highly-porous material, such as fumed silica, aerogel, perlite, or glass fiber, to support the membrane walls against atmospheric pressure once the air is evacuated.
- Chemicals (known as getters) to collect gases leaked through the membrane or offgassed from the membrane materials. These are added to VIPs with glass-fiber or foam cores, because cores with bigger pore size require a higher vacuum (less than about 1 mbar) during the planned service life.

Thermal performance

Heat transfer occurs by three modes: convection, conduction and radiation. Creating a vacuum practically eliminates convection, since this relies on the presence of gas molecules able to transfer heat energy by bulk movement. A small decrease in pressure has no effect on the thermal conductivity of a gas, because the reduction in energy-carrying molecules is offset by a reduction in collisions between molecules. However, at sufficiently low pressure, the distance between collisions exceeds the size of the vessel, and then the conductivity does reduce with pressure.

Since the core material of a VIP is similar in thermal characteristics to materials used in conventional insulation, VIPs therefore achieve a much lower thermal conductivity (k-value) than conventional insulation, or in other words a higher thermal resistance per unit of thickness. Typically, commercially available VIPs achieve a thermal conductivity of 0.004 W/(m•K) across the centre of the panel, or an overall value of 0.006-0.008 W/(m•K) after allowing for thermal bridging (heat conduction across the panel edges) and the inevitable gradual loss of vacuum over time.

Comparison to conventional insulation

The thermal resistance of VIPs per unit thickness compares very favourably to conventional insulation.[5] For instance, standard mineral wool has a thermal conductivity of 0.044 W/(m•K),[6] and rigid polyurethane foam panels about 0.024 W/(m•K). This means that VIPs have about one-fifth the thermal conductivity of conventional insulation, and therefore about five times the thermal resistance (R-value) per unit thickness. Based on a typical k-value of 0.007 W/(m•K), the R-value of a typical 25-millimetre-thick (1 in) VIP would be 3.5 m²•K/W (20 h•ft²•°F/BTU). To provide the same R-value, 154 millimetres (6 in) of rockwool or 84 millimetres (3 in) of rigid polyurethane foam panel would be required.

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However, thermal resistance per unit price is much less than conventional materials. VIPs are more difficult to manufacture than polyurethane foams or mineral wools, and strict quality control of manufacture of the membranes and sealing joints is important if a panel is to maintain its vacuum over a long period of time. Air will gradually enter the panel, and as the pressure of the panel normalizes with its surrounding air its R-value deteriorates. Conventional insulation does not depend on the evacuation of air for its thermal performance, and is therefore not susceptible to this form of deterioration. However, materials like polyurethane foam are susceptible to water absorption and performance degradation as well.

In addition, VIP products cannot be cut to fit as with conventional insulation, as this would destroy the vacuum, and VIPs in non-standard sizes must be made to order, which also increases the cost. So far this high cost has generally kept VIPs out of traditional housing situations, However, their very low thermal conductivity makes them useful in situations where either strict insulation requirements or space constraints make traditional insulation impractical. VIP performance is also temperature dependent—with increasing temperature, conductive and radiative transfer increase. Furthermore, typical panels cannot operate much above 100 °C (212 °F) due to the adhesive used to seal the thin envelope.

Acoustic curtains

- High-Quality Construction
- Jute / Velvet Face Layer, Foam 13kg/cum density, Non woven tissue, Sound deadner with Lining Fabrics,
- Excellent Sound Absorption.
- Custom Designed For Any Application
- Variety of Fabric Options

The Acoustic i-Curtain is a revolutionary new product. Sound absorbing primarily designed to absorb more sound than standard decorative curtains. The seacoustic noise reduction curtains are made with sound-absorbing material and are ideally used where control of acoustic reflection off of glass and ambient light control is required. These acoustical curtains feature a core material of naturally fire-resistant wool fabric that is sandwiched between a decorative fabric and a blackout liner. These noise-reducing curtains' wool core material has also been shown to continuously filter harmful VOC (Volatile Organic Compounds) from the air. The Acoustic-Curtain product will also reflect thermal energy and block light when drawn across a window or doorway. The Acoustic-Curtain is custom designed to fit and match your interior design specifications. Please call for a quote.

Applications:

1. Home Theaters and Other Residential Spaces
2. Commercial Spaces
3. Restaurants
4. Schools
5. Churches
6. Retail Spaces & Office Spaces

Sizes & Options:

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1. Custom Designed for Your Application. Heights up to 180"; Custom Widths (Vertical Seams Every 60" Due to Fabric Dimensions
2. Standard Feature Large For Hanging

8. Fabric panel

Fabric absorb decorative fabric acoustic panels provide high-performance noise and reverberation reduction. Order these custom decorative panels here!

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Decorative Fabric Custom Acoustical Wall Panels

Acoustic decorative fabric wrapped acoustic panels provide high-performance noise and reverberation reduction. From movie theaters to home music production studios, Fabric absorb ceiling and wall panels help you create a space that is both visually and acoustically pleasing. Some features that Fabric absorb offers are:

1. High Performance
2. Architecturally Decorative
3. Custom Engineered & Manufactured
4. Reduced Noise & Reverberation
5. 100% Custom Colors and Sizes

Find out more about how Acoustic Fabric wall and ceiling panels can be utilized on your next project by visiting **Gypsonite's** website. Order these custom decorative panels here!

Product Specs

Material

6 lb. density foam fiber with woven fabric and micro-perforated vinyl facings.

Features

Fabric acoustic panels are custom designed and manufactured to meet every need. Soft or hard edges

Applications

These decorative sound absorbing panels are great for offices, schools, meeting rooms, music rooms, hotels, auditoriums, recording studios, broadcasting studios. These acoustic wall panels are perfect for any space where good speech privacy or speech intelligibility is important.

Thickness

25mm, 50mm & 75mm

Size

Custom Fabric Wall Panels Up to 4' × 10'

Edge Detail

Square, Radius, Bevel, Half-Bevel

Colors

Acoustical fabric and micro-perforated vinyl facings available in a wide range of standard and custom colors. For a full list of acoustical fabric options, visit our gypsonite.com!

Flammability

Class A Fire Rated

Installation

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Adhesive, Hook & Loop Fasteners, Mechanical Clips, Impaling Clips, magnetic clips.

Edge Details



Custom Acoustic Panels



Acoustic Panels in Custom Sizes and Shapes

We want your panels to be a perfect fit. Our skilled artisans create a wide variety of acoustic panels in custom sizes and custom shapes every day. Configure, price and order your Custom Size Acoustic Panels or Custom Size Hardened-Edge Acoustic Panels online now.

You can also order Custom Size Acoustic Eco-Panels, our environmentally friendly acoustic panel featuring the highest recycled content and best indoor air quality.

Acoustic Panels with Any Fabric You Want



We carry a few dozen stock fabric colors, but you are welcome to purchase any suitable fabric and have it shipped to us. We'll build your acoustic panels in our factory using your fabric. How is that for infinite design choices!

Contact us for information on width and yardage requirements and suggestions for suitable fabric types.

Acoustic Panels with Any Art or Image You Can Think Of



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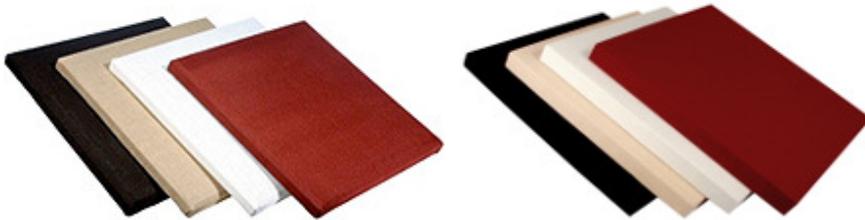
Send us an image file and we'll digitally print any art, text, graphic, or photo you can think of on our printable acoustical fabric, then build it right into your panel.

Contact us for information or click on the following links to get started.

[Art Acoustics Panels in Standard Sizes](#) | [Art Acoustic Panels in Custom Sizes](#)

Acoustic Panels

Acoustic Panels are used to eliminate sound problems and create great-looking, great-sounding rooms and auditoriums. Quality acoustic treatments ensure the sound in your room reaches your audience with clarity and impact.



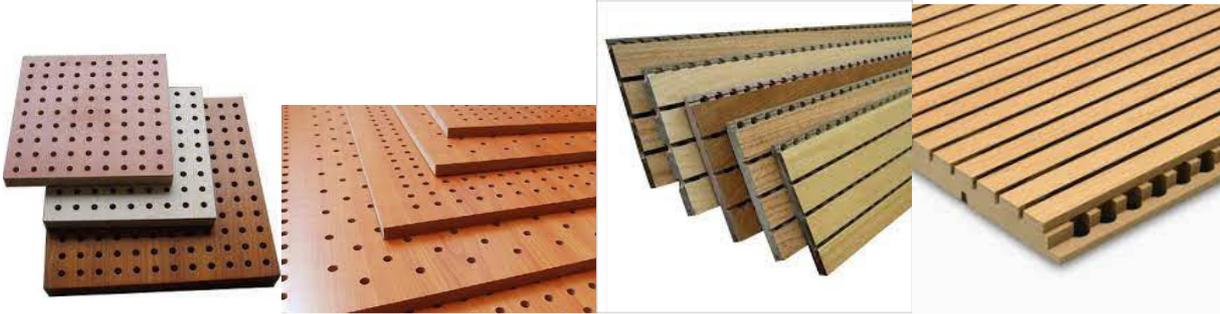
9. Wooden Laminated Panel

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Salient Features:

Perforated Acoustic Panels have circular holes machined over the face of the panel. These Panels are consist of a laminate finished surface, base core board and black acoustic felt attached on the back. The base core board is an 15mm or 18mm thick Medium Density Fiberboard (MDF) sheet with a finish laminated to its front face and black acoustic felt adhered to its rear face.

Applicatins:

Perforated Acoustic Panels are suitable for almost every application including use in auditorium, theatres, convention centers, conference rooms, hospitals, schools, studios, offices and commercial buildings or any area where acoustics and aesthetics are a consideration.

Specification:

Thickness	6mm,9mm,12 mm, 15 mm, 18 mm
Size	600/1200 x 600/1200 mm, 1200x2400 mm
Edge	Sqaure, Tounge& Groove
Density	750 Kg/m3
Weight	12 Kg/m2
Core	Medium Density Fibreboard
Fire	Class 1 & P
Acoustics	NRC Upto 0.75
Climate	OC 50, RH 70
Light (%)	75
Warranty	5 Yrs
Maintenance	Wet Wipe, Dry Wipe
Installation	T-24 Grid, 18 mm GI or Almn. Channel
Applications	Auditorium, Lecture Room, Multiplex, Conference Room, Hotel, Worship space, office, Airport, Studio and Home theatre.

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10. Bass Trap Panel



Superior low-frequency sound absorption.

Corner Bass trap can be used horizontally or vertically where two walls meet, or where a wall meets a ceiling or a floor. It is also possible to stack two bass traps together in order to reach from floor to ceiling. Corner Bass Traps feature highly effective low frequency absorption.

Studio Stackers

can be stacked together to deliver exceptional sound control. They function as a portable bass trap and a portable gobo panel in one and absorb stray sound and excessive bass waves.

4-Inch Panels

can also be used to absorb low frequency sound. These absorb across all audible frequency ranges, with an extra boost at the low end. They can be mounted flat on walls, or with the open-back option they can also be mounted across a corner. Corner mounting or other mounting with a space behind the panel will increase low frequency absorption.

11. Acoustic Fabric Baffle

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About Acoustic Baffles

- Instead of attaching to a wall, baffles are suspended from high ceilings.
- Baffles are often used in auditoriums, gyms, sports arenas, commercial/industrial buildings, and other large spaces.
- Baffles are more efficient than wall panels because both sides of the baffle absorb sound.

Built to Last

- Acoustic Baffles are built around an aluminum frame, just inside the fabric.
- This frame ensures crisp, square edge lines that last. Other baffle designs look like bags or pillows over time, that won't happen here.
- The frame also provides superior durability and resistance to damage during and after installation. Occasional high-flying basketballs? No problem.

Superior Core Material

- Core material is 6 lb. per cubic foot glass fiber board. Many other baffles are built around 1 or 2 lb material. This extra density provides superior sound absorption performance especially at low frequencies.
- Noise Reduction Coefficient (NRC) rating of 1.52. This high NRC rating means fewer baffles are required to achieve the desired sound in your space.

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