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ENVIROTECH MUTE

Facade Systems

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ABOUT US

About Envirotech Mute (Facades)

Envirotech Mute (Facades) is a premium solution designed to enhance building performance by combining aesthetics, durability, and acoustic efficiency. Our facade systems not only improve the visual appeal of modern architecture but also play a vital role in reducing external noise, enhancing energy efficiency, and ensuring long-term protection against environmental factors.

At Envirotech, we understand that building facades are more than just exterior coverings—they are an integral part of structural design, comfort, and sustainability. That's why our Mute Facade Systems are engineered with cutting-edge materials and innovative technology to deliver.

Whether for residential complexes, commercial buildings, corporate spaces, or institutional projects, Envirotech Mute (Facades) delivers a perfect balance of style, performance, and sustainability.

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ALUMINIUM COMPOSITE PANEL CLADDING

As the popularity of modern contemporary building structures continue to grow, materials like aluminium panel cladding often find their way into building design options. An evolutionary siding composite material, it opens the door to all kinds of innovation in minimalist and contemporary architectural design. In this two sheets of aluminium combine together to a non aluminium core so as to form a Composite Aluminium Panel.

The infill layer could be polyethylene and the outer layer could further be coated with PVDF (Polyvinylidene Fluoride). Aluminium composite panels are lightweight, durable, flexible, and strong. They are also fire and weather-resistant and are available in a variety of textures, colours and metallic coatings.

Major applications:-

- High-rise commercial buildings
- Modern residential projects
- Storefronts and signages
- Column cladding and beam coverings
- Interior cladding and partitions
- Interior false ceilings
- Unconventional structural shapes

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HPL SHEET

HPL Panels/ Sheet– High Pressure Laminate: For a long time, traditional wood, with its pristine looks, has been used in various ways to suffice for our dwelling needs. Our buildings have always used the beauty and usefulness of wood. However, in spite of its advantages, wood had some serious shortcomings. HPL sheets are used all over the world because of their flexibility and longevity.

When compared to wood, it is more robust and graceful in appearance. It is, therefore, very immune to the elements. HPL sheet has solved the disadvantages of wood when it is made from aluminium coil with a double-layered dust-resistant Lumiflon coating. It has a polyethene backbone that is water, fungi, and termite resistant.

HPL Panels come in various colours, textures and sizes. All this at a very competitive price, coupled with an unmatched quality.

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STRUCTURAL GLAZING

Structural glazing is a system of bonding glass to a building's structural framing members using a high strength, high-performance silicone sealant. Because of its high durability and load bearing capacity, it is the first choice of architects who wish to create visually stunning buildings with transparent walls, floors, and ceilings, with ample natural light.

Through the years, we have been recognised for our integrity and high quality. Moreover, our team of skilled glaziers exceeds customer expectations and defies engineering challenges to complete the industry's most demanding projects for commercial, retail, and residential sectors. Our services include glazings for:

- Stick Glazing System
- Cap Glazing System
- Semi-Unitised Glazing System
- Unitised Glazing System
- Spider Glazing System

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STICK GLAZING SYSTEM

Stick-type curtain wall glazing system is a type of Structural Glazing where the frame verticals or the mullions and the glass panels are erected and connected piece by piece. It is one of the oldest curtain wall types. The vertical mullions are attached first to the floor slabs and then the horizontal mullions are attached to the vertical ones. The glass panel between the vertical and the horizontal mullions along with the spandrel which can be either glass or aluminium are then installed into the erected grid work.

The visual effect of stick framing is often taken into account since there will be more vertical mullions taking the wind load than other glazing systems. Generally, stick-type glazing is preferred for buildings that are not that tall, usually less than 3-4 floors. Air, wind, and heat can play a vital role the stability and the stick glazing method takes these factors while they are built. This factor is taken into consideration and provisioned when the glazing is done.

Advantages of Stick Glazing

- It is simpler a glazing system when compared to other curtain wall glazing systems.
- The glazing can be fabricated off-site. This allows for less erection time than other curtain wall glazing system.

Limitations of Stick Glazing

- Stick glazing usually has lower load-bearing capacity than other curtain wall glazing systems.
- Generally, stick glazing type of curtain wall glazing system requires more time to assemble and hence is more time consuming when compared .

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CAP GLAZING SYSTEM

Curtain Wall Glazing System provides an option for a changeability of different size profiles and fittings with high weather and wind resistance. The reduced number of profiles and other elements with tested properties make the system preferred by many fabricators, direct users and developers. The mating units like top hung ventilators OGU or SGU incorporation fit in harmoniously.

Flexible design option with multiple choice of mullion and transom and the decorative capping visible in elevation can be in various depths, both vertically and horizontally, as per architect's intent. Single or double glazing can be used with various combinations of mullions and transoms from vide range of curtain wall systems. Glass area to frame ratio is high that results in maximum clear view.

The curtain glazing systems are of different types based on end use and design criteria. In this system the glass panels are held mechanically with pressure plate, snap on cover and EPDM gaskets. Structural sealants and weather sealants are used for adherence of the glass to the frame members as per technical requirement. The rigorous quality tests done for mechanical properties of alloy and excellent surfacefinish, etc. makes the product outstanding and durable.

Features:

- Ruggedly constructed
- Rust resistant
- Accurate fittings

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SEMI-UNITIZED GLAZING SYSTEM

A semi-unitized curtain wall glazing system is a type of structural glazing where the primary structural framing components are erected individually as an erector set. In this set, the vertical mullions are attached first to the floor slabs and the horizontals are attached to the vertical mullions to resemble a grid.

The glass panel and the spandrel, which can be either glass or aluminium are shop glazed and installed into the assembled grid work. The joineries and perimeter sealants are fields installed. The semi unitized systems largely anchored to the face of the slab as embedded plates or inserts.

Advantages of Semi-Unitized Glazing

- The vertical mullions in most semi-unitized glazing systems can span two floors with ease and as a result, provide greater structural efficiency.
- Most semi-unitized glazing systems have shop-assembled or off-site assembled frames. This reduces the time and cost.

Limitations of Semi-Unitized Glazing

- The flip-side of having off-site assembled frames is the increased transport cost and storage cost at the manufacturer’s place.

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UNITIZED GLAZING SYSTEM

Unitized Glazing are composed of large glass units that are created and glazed within a factory and then sent to the construction site. Since there is no on-site glazing, another major benefit of using a unitized system is the speed of installation The unitised panels can use any combination of profiles, infill's, external feature caps and glazing to give building designers complete aesthetic flexibility

Advantages of Unitized Glazing

- Shorter programme times. Unitised solutions will help contractors and architects meet the increasing demand for shorter programme times, and can achieve impressive reductions in time on site of up to 70 per cent.
- Improved quality control. Because the façade panels are completed off site, and the external envelope is less affected by inclement weather, quality control is much easier with unitised façades, giving greater peace of mind for the contractor and developer.

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SPIDER GLAZING SYSTEM

Developments in the field of architecture have enabled curtain wall systems with glasses that are bolted with plush stainless steel fixtures that provide for an uninterrupted view of the exterior and the interior. The stainless steel fixtures resemble a spider with legs and hence the name. These high-quality and high-grade stainless steel fixtures absorb almost all loads like weight of the glass installed, wind loading, impact of rain, the temperature induced expansions due to fluctuation in weather conditions, etc.

Spider glazing system encompasses the fasteners, the glass panes employed, spider brackets apart from the fixtures. The glasses used for spider glazing are high-quality toughened glasses that can withstand any weather conditions in the exterior of the building.

Advantages of Spider Glazing Systems

- The offer unhindered interior view due to the presence of non-interfering spider fixtures that are minimal in design principle.
- Since they offer maximum transparency, they provide maximum natural light penetration inside the building. This results in huge energy saving as the need for lighting in the day is markedly reduced.
- They can be seamlessly incorporated and integrated into canopies and other curtain walls. Hence the spider glazing can be termed as the most flexible glazing system.
- Spider glazed surfaces are easy to install and maintain.
- Doors and windows can be inserted at ease on any spider glazed surface.

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ALUMINIUM FINS

The Aluminum fins system utilizes vertical or horizontal Aluminum fins as a key architectural feature on building facades. These fins are installed as shading elements, providing aesthetic appeal while enhancing the building's energy efficiency. They can be designed in various lengths, widths, and spacing configurations, allowing for customization.

ADVANTAGES

- Solar Control
- Aesthetic Versatility
- Lightweight
- Durability
- Low Maintenance
- Energy Efficiency
- Acoustic Benefits
- Sustainability
- Fire Resistance
- Customizable Design

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PERFORATED ALUMINIUM SCREEN

Transform your architectural vision into reality with innovative Perforated Aluminium Screens. This versatile and aesthetically pleasing product offers a multitude of benefits for both interior and exterior applications across India.

Unveiling the Potential:

Perforated Aluminium Screens are crafted from high-quality aluminium sheets precisely punched with a variety of patterns, shapes, and sizes. This allows for:

Key Features & Benefits:

- Enhanced Aesthetics: Elevate the visual appeal of your building facade or interior space with a touch of modern elegance and customized design.
- Sun Control & Shading: Effectively manage solar heat gain and create comfortable outdoor or indoor spaces by controlling direct sunlight.
- Privacy & Security: Perforated Aluminium Screens offer a balance between visual connection and privacy, allowing for a sense of enclosure while maintaining some level of transparency.
- Improved Ventilation: The perforations facilitate natural air circulation, promoting a healthier and more comfortable environment.
- Durability & Weather Resistance: Aluminium is a naturally corrosion-resistant material, ensuring the longevity and low maintenance of the screens even in harsh weather conditions like those in Mumbai.
- Lightweight Construction: Perforated Aluminium Screens are lightweight and easy to install, reducing project costs and complexity.
- Versatility & Customization: With a vast array of perforation patterns, sizes, and finishes available, you can create a screen that seamlessly integrates with your design vision and complements the surrounding architecture.

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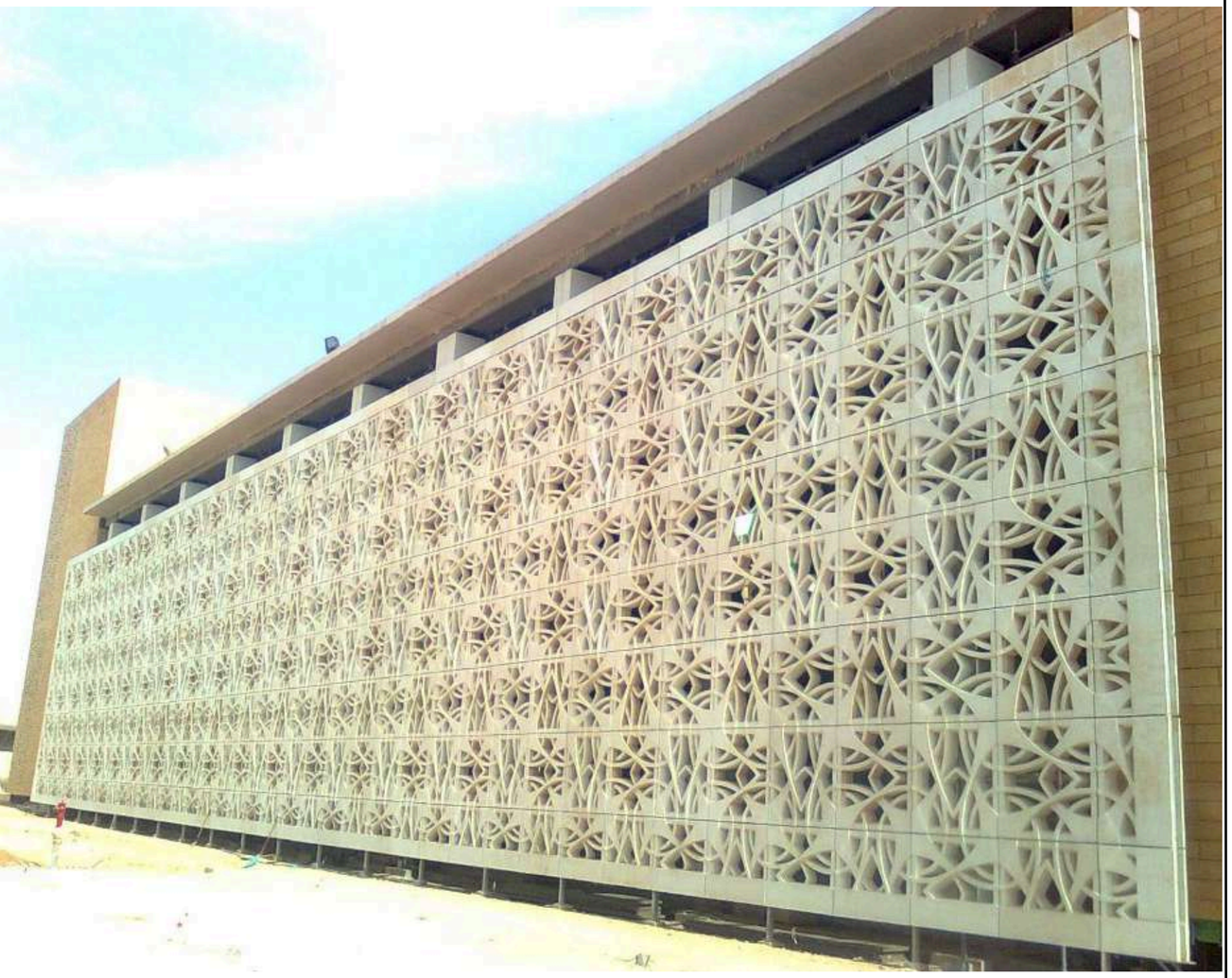

GRC PANELS

GRC is used to produce architectural features like columns, capitals, brackets, moldings, cornices, pedestals, handrails, balusters, window & door surroundings, arches and a lot more. GRC's ability to be molded in complex shapes and contours and replicate fine details makes this material an ideal choice for architects and engineers. Whilst often cast with thickness in excess of 25mm, these products remain easy to handle and erect, and permit the architect or engineer an unrivaled freedom for creative design.

Features/Advantages:-

- Cement Based composite material reinforced with Alkali Resistant Glass Fibers.
- White Portland Cement, A.R.G Fiber with Zirconium dioxide – ZrO2 content of at least 16%, Fine graded sieved aggregates, clean water, UV-resistant exterior grade synthetic iron oxide pigments, Polymers & Plasticizers
- GRC being Solid material, carried a higher weight i.e., between 3.5 Kg – 4.5 Kg per Sq. Ft for screens, depending on design, void and desired thickness. The above considered weight is for GRC screens having 50% void, Border thickness –50mm and design membrane 30mm.
- Casted in FRP Molds or rubber moulds, customized as per requirement in terms of size, thickness, levels shade and design. 3D option possibility as it is casted from molds
- All natural shades can be made as it is pigmented with UV Resistant Synthetic inorganic exterior grade pigments, other than Blue and Green, which are not U.V stabilized
- Closest to Natural stone finish, one side finished product i.e., design can be achieved on front only, due to constraints of mold.
- Resistant to weather, Corrosion, Fire, Abrasion, and Termites
- Customized Finishes

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ACP LOUVERS

We offers two distinctive louver categories, each catering to unique needs and design preferences.

I.Ventilated Fin Louvers:

We design our louvers to maximize ventilation, creating a refreshing and comfortable living space. Ventilated Fin louvers are perfect for congested spaces in your home. They block direct sunlight, promote natural airflow, and withstand rain and high winds.

Benefits:

- Enhanced Natural Ventilation: Maximize airflow and create a comfortable environment.
- Sun Shading and Privacy: Block direct sunlight and maintain privacy without sacrificing natural light.
- Durable and Weather-Resistant: Withstand harsh weather conditions, ideal for various climates.
- Unique Aesthetic Appeal: Available in multiple colors and designs to complement your home's style.
- Architectural Focal Point: Create eye-catching accents and enhance your home's exterior.
- Versatile Application: Ideal for windows, doors, facades, and more.
- Low Maintenance: Enjoy long-lasting performance with minimal upkeep.

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II.STANDARD (FIXED) LOUVERS

A standard or fixed louver is a permanent fixture that enhances a building's aesthetics and functionality. It is a stylish and practical solution with angled slats or fixed blades. Their non-adjustable nature ensures consistent ventilation, light control, and privacy.

Benefits ACP Louvers

- Maintenance-free: With no moving parts, fixed louvers require minimal upkeep and are resistant to wear and tear.
- Weather Protection: The angled blades effectively deflect rain and snow, shielding the interior of the building.
- Energy Efficiency: Standard louvers can help regulate temperature by controlling the amount of sunlight entering a space.
- Ventilation: They let fresh air flow through rooms and wall panels, keeping moisture, bugs, and other debris out.
- Privacy: Fixed louvers provide a barrier against prying eyes while allowing light and air to pass through.
- Noise Reduction: Louvers can help dampen external sounds, creating a quieter indoor atmosphere.
- Ready to use
- Water & Termite Proof
- Wide Range of Colours
- Noise Reduction
- Fire Resistance
- Recyclability
- Lightweight

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ALUMINIUM LOUVERS

Aluminium fluted panels are decorative aluminum sheets with vertical or horizontal grooves, featuring continuous concave and convex textures. This unique design makes them both functional and stylish, widely used in architectural decoration, wall cladding, ceilings, and furniture. Made from durable aluminum alloy, they offer excellent corrosion resistance and a sleek, modern look, perfect for creating high-end designs.

These panels are produced through the aluminum extrusion process and finished with various surface treatments. Popular options include powder coating for a colorful, durable finish and wood grain transfer for a natural wood-like look.

Features of Aluminium Louvers:-

- Aesthetic Appeal:- The striped surface design is sleek and modern, offering a high-end visual texture suitable for both indoor and outdoor premium decoration.
- High Strength and Lightweight:- Aluminium combines low density with high strength, making the panels sturdy yet easy to transport and install.
- Excellent Weather Resistance:- Aluminium is naturally corrosion-resistant, rust-free, and can withstand UV exposure, making it ideal for outdoor use.
- Sound and Heat Insulation:- The grooved design helps reduce sound diffusion and absorb heat, making it suitable for soundproof walls or thermal insulation applications.
- Customization Flexibility:- The panels can be tailored with various groove patterns, spacing, thickness, and colors to match different architectural styles.
- Environmental Sustainability:- Aluminium is 100% recyclable, aligning with green building standards and sustainable development goals.

FAQ’S

Q1. How to design the front of a home?

Designing a home’s front begins with choosing the right facade system. The process includes considering climate, architectural style, and material durability. Homeowners often consult architects or facade solutions manufacturers to select materials like aluminium, stone, or glass that balance aesthetics and functionality.

Q2. Which material is best for the front elevation?

The best material depends on your lifestyle, climate, and design goals. Aluminium glass facade systems are highly popular for modern homes due to their sleek look and durability. Stone or brick works better for a traditional appearance. Porcelain slabs are ideal for homeowners seeking a balance of elegance and easy maintenance.

Q3. What to consider when designing a home facade?

Key considerations include durability, maintenance needs, heat absorption, energy efficiency, cost, and local availability. It’s also important to align the facade design with your home’s architecture. For example, minimalist designs benefit from aluminium and glass, while rustic designs thrive with stone and brick.

Q4. Which type of house design is best?

The best house design is personal and depends on what suits you. In urban India, many premium homes opt for aluminum and glass facades to achieve a sleek, modern look. On the other hand, natural stone or brick facades are popular if you prefer a classic and timeless feel. There’s no single best design, but it’s on you to find the perfect design that fits your lifestyle, needs, and environment.

Q5. Are aluminium facades a good choice for Indian homes?

Aluminium facades are widely adopted in Indian Homes due to their rust-resistant, low-maintenance, and versatile qualities, perfect for urban climates. The top facade solutions manufacturer provides advanced aluminium facade solutions that blend strength, modern design, and sustainability, ensuring long-lasting value.

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CONTACT US

Have a query or need expert assistance? Get in touch with Envirotech Mute, your trusted partner in innovative acoustic and noise control solutions. Our team is here to guide you with the right products and services tailored to your needs.

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