



ARTCOUSTIC PTE. LTD.

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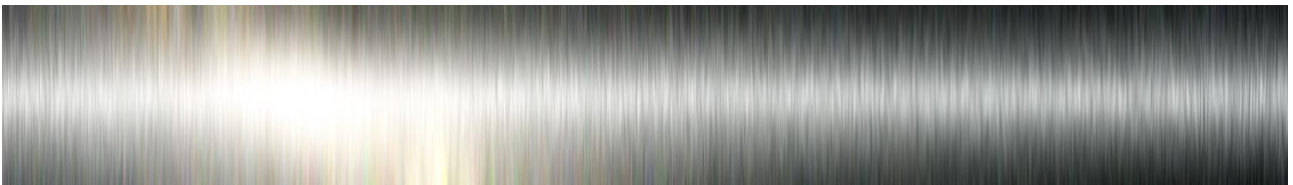
*1015 GEYLANG EAST AVENUE 3, #03-107, GEYLANG EAST INDUSTRIAL ESTATE,
SINGAPORE 389730*

Built for Performance. Designed for Impact.

Premium Aluminium Engineering & Architectural Solutions

Engineering Precision · Structural Strength · Acoustic Excellence

Singapore-Based · Compliance-Ready · International Building Standards
Custom Engineering Support for Architects & Consultants



ABOUT US



Who We Are

Artcoustic Pte Ltd is a Singapore-based specialist in advanced aluminium architectural systems. Backed by a leading aluminium material manufacturing partner, we operate as a principal manufacturer, delivering high-performance solutions for modern infrastructure and design.

We integrate engineering precision, structural strength, Sound Insulation Performance, and aesthetic excellence to serve a wide spectrum of industries — from commercial developments to large-scale public infrastructure.

Artcoustic operates across the full value chain, bridging engineering precision with design intelligence to create solutions that meet the increasing demands of architects, developers, consultants, and project owners seeking durability, functionality, sustainability, and aesthetic value.

Our Full-Service Capabilities

Engineering & Design

- Engineering design support
- Custom architectural system development
- Acoustic performance integration
- Technical consultation

Manufacturing & Delivery

- Manufacturing and precision fabrication
- Project implementation support
- Material science integration
- Structural engineering execution

FOUNDATION

Vision & Mission

Our Vision

To be Singapore's leading provider of innovative aluminium architectural solutions, transforming spaces through design excellence, performance, and sustainable materials.

Our Mission

To deliver high-quality aluminium systems backed by advanced manufacturing expertise, creating value for our clients across commercial, hospitality, entertainment, and infrastructure sectors.

We are committed to:

- Providing innovative and reliable aluminium solutions that meet modern architectural and engineering demands
- Enhancing aesthetic appeal and functional performance in every project
- Upholding the highest standards of safety, durability, and quality
- Supporting sustainable building practices through efficient and long-lasting materials
- Building strong partnerships with developers, architects, and contractors to achieve project excellence



EXPERTISE

Core Expertise

Advanced Aluminium Architectural Systems

High-performance aluminium systems engineered for modern architectural requirements, with precision fabrication and global compliance standards.

Acoustic Performance Engineering

Specialised systems designed for sound insulation, acoustic control, and enhanced environmental performance across diverse environments.

Custom Engineering Solutions

Tailored design development and technical customisation for architects, developers, and consultants — built around project-specific performance standards.

Structural Strength & Precision Manufacturing

Solutions built for long-term durability, dimensional reliability, and sustained performance under the most demanding structural and environmental conditions.

MATERIAL SCIENCE

Why Aluminium — 12 Key Strengths

Aluminium is not a commodity — it is an engineered advantage. Our systems leverage 12 material and performance properties that deliver measurable outcomes across every built environment.

01. Lightweight Efficiency High strength-to-weight ratio reduces dead load on structures, enabling faster installation and easier retrofitting. Application: MRT upgrades, commercial refurbishments, high-rise façades where weight constraints are critical.	02. High Strength & Rigidity Engineered panels maintain shape and structural integrity under continuous load and environmental stress, preventing warping or deformation. Application: Large lobbies, façade systems, and airport installations requiring precision and long-term durability.
03. Structural Stability Advanced fabrication ensures dimensional accuracy and long-term performance stability with minimal maintenance requirements. Application: Government infrastructure and high-traffic commercial environments with demanding performance standards.	04. Superior Wind Resistance Designed to withstand high wind loads and pressure differentials in exposed or elevated structures, meeting strict regulatory standards. Application: Skyscrapers, transport hubs, and coastal developments subject to extreme wind conditions.
05. Architectural Design Flexibility Precision fabrication into various shapes, perforations, and finishes enables custom branding, iconic design, and seamless integration with lighting. Application: Premium hotels, flagship commercial buildings, and lifestyle destinations requiring bespoke identity.	06. High-Performance Sound Insulation Multi-layer engineered panel systems reduce sound transmission between spaces, improving privacy and reducing external noise intrusion. Application: Office spaces, hospitality environments, and transit systems where acoustic comfort is essential.
07. Advanced Sound Absorption Perforated panels combined with acoustic backing materials absorb sound waves and reduce reverberation, enhancing speech clarity. Application: Auditoriums, transit stations, airports, and entertainment venues requiring superior acoustic quality.	08. Thermal Insulation Performance Integration with insulation layers reduces heat transfer, lowering energy consumption and supporting green building certifications. Application: Singapore's tropical climate across offices, retail malls, and hotels seeking energy efficiency.
09. Fire-Resistant Properties Non-combustible aluminium systems meet fire safety standards required in commercial and public infrastructure, reducing fire spread risk. Application: MRT systems, airports, hotels, and public buildings where fire compliance is mandatory.	10. Seismic & Vibration Resistance Flexible yet strong systems absorb vibration and movement without structural failure, extending system lifespan under dynamic loads. Application: Rail systems, highways, airports, and high-traffic environments subject to constant vibration.
11. Zero Formaldehyde & Zero VOC Emits no harmful compounds — supporting cleaner indoor air and healthier spaces. Application: Green buildings, wellness and eco-friendly developments.	12. Termite & Mould Resistant Non-organic composition resists biological deterioration in humid conditions. Application: Tropical climates needing hygienic, long-lasting materials.

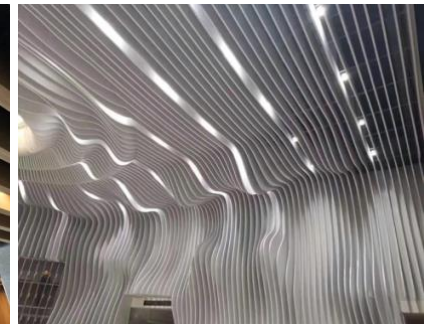
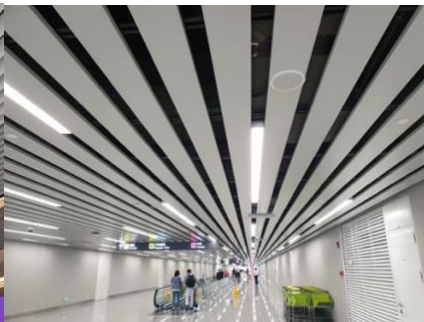
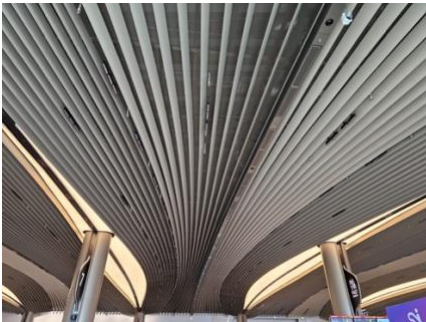
MARKET REACH

Industries We Serve

Artcoustic supports projects across a diverse range of sectors, bringing engineering precision and design intelligence to every environment.



Commercial Developments	Transportation & Infrastructure	Government & Public Facilities	Mixed-Use Developments
Institutional Buildings	Hospitality Projects	Education Environments	Industrial Applications



8 Core Pillars of Delivery

Our capabilities are structured around eight industry pillars — each one a complete solution ecosystem integrating acoustic science, structural engineering, and architectural design.

Pillar	Challenge We Solve	Our Approach	Impact
01 Commercial Offices	Challenge Modern offices require acoustic comfort, flexibility, and brand identity — most solutions address only one dimension.	Our Approach Acoustic wall and ceiling systems; lightweight aluminium structures for fast retrofitting; custom feature panels; smart office integration.	Impact Improves productivity, enhances employee wellbeing, and elevates corporate brand image.
02 Commercial Buildings	Challenge Developers need iconic frontage that attracts tenants and increases asset value while meeting strict engineering standards.	Our Approach Signature aluminium façades; high-durability systems for high-traffic environments; bespoke architectural finishes for building identity.	Impact Transforms buildings into landmarks and strengthens long-term asset value.
03 Hospitality & Hotels	Challenge Hospitality spaces require luxury aesthetics, acoustic comfort, and durability — simultaneously and without compromise.	Our Approach Decorative aluminium panels; acoustic ceiling and wall systems; fire-rated compliance systems; seamless integration with interior designers.	Impact Creates memorable first impressions and elevates brand positioning in the luxury market.
04 Entertainment & Lifestyle	Challenge Entertainment venues suffer from acoustic distortion, heavy wear, and inconsistent spatial identity under high usage.	Our Approach Advanced sound-absorbing systems; durable feature ceilings and walls; thematic architectural integration; high-capacity engineering.	Impact Enhances sound clarity, guest experience, and venue longevity — driving repeat visitation.
05 Infrastructure & Transit	Challenge Public infrastructure demands extreme durability, fire safety, and ultra-low maintenance at massive national scale.	Our Approach High-strength cladding and modular panel systems; vibration-resistant and fire-rated materials; rapid-install solutions for maintenance efficiency.	Impact Delivers future-ready infrastructure with optimised lifecycle cost and operational resilience.
06 Healthcare, Education & Public	Challenge These environments require strict hygiene, safety compliance, acoustic control, and long-term durability without compromise.	Our Approach Anti-bacterial aluminium surfaces; acoustic control panels; fire-rated systems; modular, low-maintenance interior and façade solutions.	Impact Improves healing environments, learning outcomes, and public service efficiency.
07 Smart Cities & Urban	Challenge Cities require durable, adaptive, and visually coherent materials for evolving urban ecosystems and civic identity.	Our Approach Smart-integrated façade and shading systems; climate-responsive structures; sustainable recyclable systems; urban wayfinding and canopy design.	Impact Shapes future-ready cities that are sustainable, connected, and visually iconic.
08 Industrial & Mission- Critical	Challenge Mission-critical facilities require heat management, fire safety, speed of construction, and zero-failure architectural systems.	Our Approach Fire-resistant and heat-dissipating panel systems; high-precision modular construction; acoustic and vibration control for sensitive operations.	Impact Enables stable, efficient, and scalable infrastructure for the digital and industrial economy.

VALUE ARCHITECTURE

4 Integrated Value Propositions

Our eight delivery pillars are unified by four powerful value layers — each one addressing a distinct dimension of what a built environment must achieve.

01 Performance-Driven Built Environment Systems

"We make spaces perform better — functionally, acoustically, and structurally."

We deliver integrated aluminium architectural systems that improve how buildings and infrastructure perform under real-world conditions — noise, heat, vibration, crowd load, and time. We engineer environments that are not just designed, but functionally optimised for human performance and operational efficiency.

Key Outcomes

- ✓ Acoustic comfort and measurable noise reduction
- ✓ Thermal and environmental stability
- ✓ High-traffic durability and safety compliance
- ✓ Improved user experience and productivity
- ✓ Reduced maintenance and lifecycle cost

We are a performance engineering company for built environments — not a materials supplier.

02 Architectural Identity & Brand Transformation Systems

"We turn buildings into brands and spaces into identity statements."

We transform architecture into a visual and emotional brand experience, where façades, interiors, and lobbies communicate identity, prestige, and value. We turn structural surfaces into high-impact identity systems that elevate perception and asset value.

Key Outcomes

- ✓ Iconic façade and frontage design solutions
- ✓ Strong corporate or venue branding expression
- ✓ Premium spatial experience for users and visitors
- ✓ Increased property and long-term asset valuation
- ✓ Differentiation in competitive real estate markets

We design buildings that communicate value before a word is spoken.

03 Infrastructure-Level Durability & Lifecycle Engineering

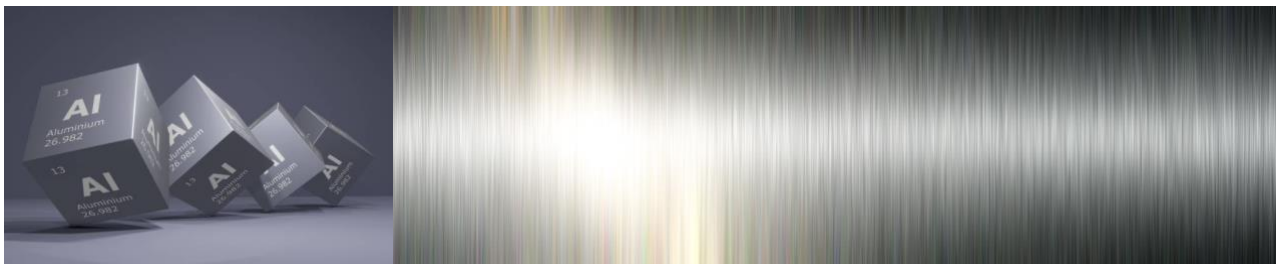
"We build for decades, not projects."

We deliver aluminium systems engineered for longevity, resilience, and lifecycle efficiency in demanding public and industrial environments. We prioritise lifecycle performance over initial construction cost, ensuring systems remain safe, stable, and efficient over decades.

Key Outcomes

- ✓ Fire, wind, vibration, and corrosion resistance
- ✓ Low maintenance and optimised operational cost
- ✓ Long lifecycle performance reliability and integrity
- ✓ Regulatory and safety compliance at scale
- ✓ High structural performance in extreme conditions

We engineer infrastructure-grade architecture for every environment.



04 Future-Ready Smart & Sustainable Urban Systems

"We enable the next generation of cities."

We integrate aluminium systems into future urban ecosystems, where sustainability, smart technology, and adaptive architecture converge. We design systems that are digitally adaptable, environmentally responsible, and future-scalable.

Key Outcomes

- ✓ ESG-compliant sustainable material systems
- ✓ Recyclable and circular economy alignment
- ✓ Smart integration with lighting, sensors, and digital systems
- ✓ Climate-responsive and adaptive architectural design
- ✓ Future-proof urban adaptability and scalability

We are building systems for cities that have not been fully imagined yet.

STRATEGIC POSITION

Our Strategic Differentiator

Most suppliers offer a material. We offer a system. Most contractors deliver a product. We deliver an outcome. The Artcoustic difference lies in our ability to integrate three disciplines that are typically fragmented across separate vendors.

Structural Engineering

Precision fabrication, load-bearing performance, wind resistance, and dimensional accuracy at every scale.

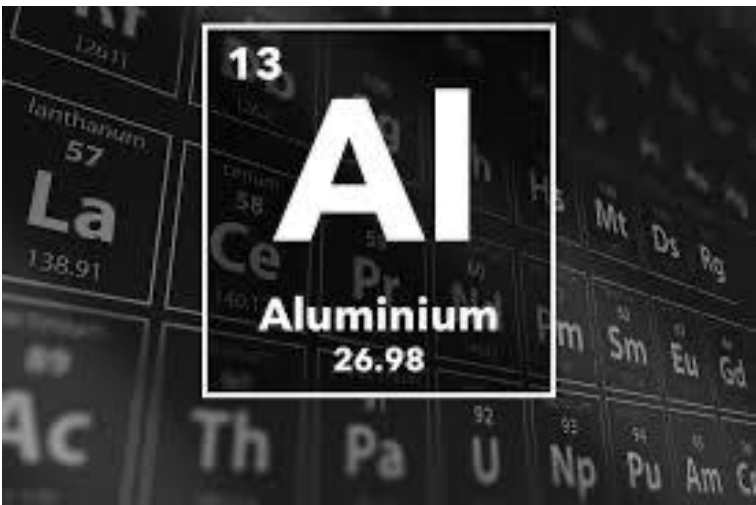
Acoustic Science

Sound insulation, absorption, and reverberation control integrated directly into the architectural system.

Architectural Design

Aesthetic excellence, identity expression, and spatial experience woven into every system we deliver.

*"We combine structural engineering, **acoustic science**, and architectural design into a single integrated solution."*



OUR VALUE FRAMEWORK

The Artcoustic Framework

Every project we undertake is aligned to a four-layer value framework that ensures our work delivers measurable impact — not just material.

PERFORMANCE

How spaces function

IDENTITY

How spaces are perceived

DURABILITY

How spaces survive time

FUTURE

How spaces evolve

Artcoustic Products

1. Aluminium Honeycomb Ceiling System

A premium ceiling solution designed for **large-span interiors requiring flatness and performance.**

Key Performance Metrics:

- Acoustic absorption coefficient optimization
- Fire-resistant core structure
- Anti-sagging over time

Ideal Environments:

- Airport terminals
- Convention halls
- High-end commercial lobbies

2. Aluminium Strip Ceiling (R-Type Open System)

A linear open ceiling system emphasizing **visual rhythm and acoustic balance.**

Technical Highlights:

- Open-gap design (approx. 15mm)
- Panel Width Options: 85mm / 185mm / 285mm
- Coating: Baked enamel (UV + moisture resistant)

Functional Benefits:

- Enhances airflow circulation
- Improves acoustic diffusion
- Reduces echo in large spaces

3. Aluminium Plank Ceiling System (Wide Panel)

A sealed, wide-panel ceiling system engineered for **hygiene, durability, and air control**.

Specifications:

- Width: 200mm – 600mm
- Height: 30mm – 50mm
- Length: Up to 2400mm modular panels

Performance Benefits:

- Reduces air-conditioning loss
- Anti-dust and easy-clean surface
- High structural rigidity

Target Sectors:

- Hospitals
- Laboratories
- Clean commercial environments

4. Aluminium Linear Plank Ceiling System

A high-performance system for **large-span architectural ceilings with integrated services**.

Design Integration:

- Compatible with lighting systems
- HVAC and ventilation integration
- Concealed keel system for clean finish

Advantages:

- Strong alignment and uniformity
- Flexible module customization
- Easy access for maintenance

5. Aluminium Baffle Ceiling System

A modern ceiling solution that introduces **depth, shadow, and acoustic control.**

Technical Features:

- Vertical suspended profiles
- Custom spacing and height variations
- Multi-angle installation capability

Performance Benefits:

- Improves sound absorption
- Enhances air circulation
- Creates dynamic architectural effects

6. Aluminium Tubular Ceiling System

A suspended open system ideal for **complex service zones requiring accessibility.**

System Design:

- Round tubes (30mm / 50mm diameter)
- Suspended via strong aluminium framework

Functional Value:

- Easy inspection of M&E systems
- Durable and lightweight
- Sound diffusion and absorption

7. Aluminium Expanded Mesh Ceiling System

A contemporary ceiling solution offering **transparency and industrial aesthetics.**

Technical Attributes:

- Expanded metal mesh panels
- Concealed or exposed suspension systems
- Lightweight with high tensile strength

Design Benefits:

- Creates visual openness
- Allows light and airflow penetration
- Suitable for large-scale environments

8. Aluminium Square Clip-in Ceiling System

A precision ceiling system designed for **clean, seamless, and modular layouts.**

Standard Sizes:

- 300×300mm, 600×600mm, 600×1200mm, etc.

System Benefits:

- Concealed suspension (monolithic look)
- Easy panel removal for maintenance
- Integration with lighting and HVAC

9. Aluminium Cell Ceiling (Open Grid System)

An open-cell ceiling system that balances **functionality, accessibility, and design**.

Technical Design:

- Grid-based aluminium structure
- Custom cell sizes available

Advantages:

- Conceals services while maintaining access
- Enhances airflow and lighting distribution
- Strong visual identity

10. Aluminium Strip Ceiling (Sealed System)

A high-performance closed ceiling system designed for **energy efficiency and controlled environments**.

Performance Features:

- Airtight design
- Reduces cooling loss
- Smooth and hygienic surface

Applications: Healthcare , Clean Room

11. Aluminium Modular Ceiling & Custom Systems

A fully customizable ceiling solution tailored for **signature architectural projects**.

Capabilities:

- Custom shapes, sizes, and finishes
- Integration with multiple ceiling systems
- Designed for feature ceilings and iconic spaces

Value Proposition:

- Enables architects' creative vision
- Adaptable to complex geometries
- Premium finishing quality

12. Aluminium Honeycomb Panel System

A high-performance composite panel system featuring an aluminium skin bonded to a honeycomb core, delivering **exceptional stiffness with minimal weight**.

Engineering Specifications:

- Core: Aluminium honeycomb (hexagonal structure)
- Skin Thickness: Typically 0.7mm – 1.5mm (customizable)
- Total Panel Thickness: 10mm – 25mm
- Weight Reduction: Up to 60–70% vs solid aluminium

Performance Advantages:

- High flexural strength and impact resistance
- Excellent flatness over large spans
- Superior wind-load resistance (ideal for high-rise façades)
- Anti-corrosion and weather durability

System Integration:

- Compatible with curtain wall systems
- Can be customized into curved or 3D façade designs

13. Aluminium Curtain Wall Panel System

A fully engineered façade cladding solution designed for **external envelope performance and architectural identity**.

Technical Capabilities:

- Aluminium Grade: 3003H / LF21 or equivalent
- Panel Thickness: 1.5mm – 4.0mm

Surface Finishes: PVDF coating , Powder coating , Anodized finish

Performance Criteria:

- High resistance to UV, rain, and environmental stress
- Thermal expansion tolerance
- Fire-rated options available
- Long lifecycle with minimal maintenance

Use Case Strength:

- Landmark buildings
- Airports & rail stations

14. Aluminium Sunbreaker Louvre System

A **dynamic façade shading solution** designed to reduce solar heat gain and enhance energy efficiency.

System Design:

- Fixed or motorized adjustable blades
- Blade Materials: Aluminium / Glass / Polymer
- Control System: Manual or automated (BMS integration ready)

Environmental Benefits:

- Reduces indoor cooling load
- Improves daylight control
- Enhances building sustainability ratings (e.g., Green Mark)

Architectural Value:

- Adds depth and texture to façade
- Custom angles and spacing for design flexibility

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SINGAPORE 389730*

DAVE TAY
Sales & Marketing

*HP: +65 8592 5056
tayth80@gmail.com*