SAINT-GOBAIN

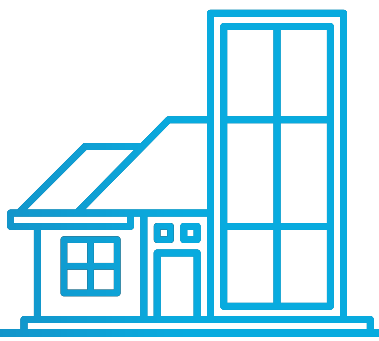
LIGHT & SUSTAINABLE RESIDENCES.

BUILT FOR THE FUTURE.

LIVING SPACES THAT ENSURE WELLBEING

India's residential landscape is evolving at a fast pace to meet the needs of a growing population and rising expectations for quality living. With increasing demand for better housing, homeowners, architects, and designers today have the opportunity to create **living spaces that ensure wellbeing, while being aesthetic and energy-efficient.**

THE NEEDS OF THE RESIDENTIAL SEGMENT



Every stakeholder today looks for the same three outcomes:

01

Efficiency
Materials used should not only be appealing but also durable and energy-efficient, making them cost-effective both in the pre and post-construction stage.

02

Wellbeing
A home is more than four walls — it is a sanctuary of comfort, safety, and belonging, where peace prevails and families thrive.

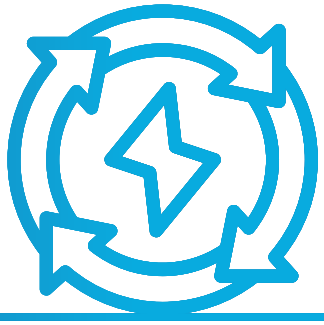
03

Aesthetics
First impressions are often the last, and a home's aesthetic appearance can potentially reveal the personality of its residents.

The future of residential design lies in achieving this balance where efficiency, wellbeing and aesthetics are achieved together seamlessly through the power of **light, sustainable and durable construction.**

01

BUILDING HOMES THAT PERFORM



Beyond visual appeal, the materials used in a home must deliver high and consistent performance over time. High-quality, energy-efficient solutions help minimise heat gain, optimise daylight, and improve insulation — reducing overall energy consumption and lowering utility bills. Homeowners look for cost-effectiveness, value for money and construction made possible in less time, Hence, high-performing materials ensure this, enabling both durable and energy-efficient homes with lower consumption and lasting savings.

Responsible energy usage not just makes it cost-effective in the long term but also contributes to the environment with a lower carbon footprint.

LIGHT CONSTRUCTION

Light Construction brings a gentler, smarter way of building homes — using advanced materials and efficient methods that create spaces with less cost, less resources, less waste, and at a faster pace.

With Saint-Gobain solutions, homes benefit from lighter structural loads, thoughtful resource use, dry construction and faster installation. Applications are designed to marry aesthetics with functionality — giving families room to live, grow, and breathe more freely. Think windows, lightweight plasterboards, drywall systems that enable more usable area and lesser water consumption, solar insulation, cabinets, shower cubicles, mirrors, acoustic ceilings, among others.

SUSTAINABLE CONSTRUCTION

Sustainability is no longer a choice — it's a responsibility, especially when it comes to our homes. Families today seek spaces that are energy-efficient, comfortable, and kinder to the environment.

With solutions from Saint-Gobain that are non-toxic and come with low VOCs — including high-performance glazing, insulation, acoustic systems, plasterboards, and construction chemicals — homes can stay naturally brighter, quieter, safer and more temperature-efficient. Lower energy consumption means reduced utility bills, while improved indoor air quality creates a healthier environment for everyday living.

DURABLE CONSTRUCTION

Residential spaces are used every day and must withstand regular wear, cleaning, and changing lifestyle needs. This makes durability a key factor in home design — ensuring materials can handle moisture, impact, and routine maintenance while retaining performance over time.

Saint-Gobain's Construction Chemicals ensures structural strength of the building across different seasons and climatic conditions, as well as formidable flooring solutions. When it comes to matching aesthetics and functional benefits, lacquered toughened glass does the perfect balancing act. These solutions contribute to spaces that are resilient, easy to maintain, and built for everyday living.

Saint-Gobain's light, sustainable and durable offerings are designed not just for efficiency, but for comfort and everyday wellbeing. It's about building homes that care for both the people inside and the world outside. Together, light and sustainable construction help in reducing upfront costs, speeding up completion, while lowering energy and maintenance expenses for enduring comfort and value. Because, a home is built to last a lifetime.

02

CREATING HEALTHIER HOMES THAT NURTURE

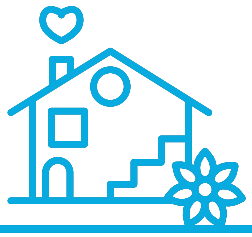
Homes need to prioritise comfort and wellbeing, as everyday environments directly impact how people feel and live. A home designed with wellbeing at its core goes beyond functionality to support physical health, mental calmness, and emotional comfort. Elements such as abundant natural light, good indoor air quality, acoustic comfort, and optimal solar & thermal conditions contribute to a more relaxing and restorative living environment. Carefully chosen materials that minimise pollutants and enhance comfort help reduce stress while promoting healthier lifestyles for occupants across all age groups.

By prioritising wellbeing in design and material selection, homes can become spaces that truly support healthier, happier, and more fulfilling everyday living, regardless of changing seasons and vagaries of climate.

Solutions from Saint-Gobain — including high-performance glazing for daylight and solar control, insulation for temperature efficiency, and gypsum plasterboard systems, acoustic windows and hardware for acoustic comfort — work together to enable quieter, healthier, and more comfortable homes. Additionally, with safety being top priority for homes, fire-rated glazing systems & plasterboards, along with vandalism and burglary-resistant glass system solutions, prove to be the much-needed solutions.

03

DESIGNING HOMES THAT INSPIRE



First impressions often shape lasting perceptions, and a home's aesthetic appeal reflects the personality, taste, and lifestyle of its residents. Thoughtful use of design elements, materials, colours, textures, and natural light can transform spaces into warm, inviting environments while enhancing architectural character and emotional connection to the home.

Thoughtfully crafted aesthetics elevate everyday living, creating spaces that reflect individuality while enhancing comfort and pride of ownership.

Saint-Gobain's extensive customisation possibilities and thoughtfully curated aesthetic products for the home – from windows to ceilings, from cabinets to cubicles, from wall panels to wall coverings, partitions to railings are designed to leave one spoilt for choice.

BUILDING CODES AND REGULATORY LANDSCAPE

DESIGNING FOR COMPLIANCE AND DELIVERING HIGHER PERFORMANCE.

India's building codes define the critical requirements for safety, efficiency, and operational reliability in homes. Saint-Gobain solutions are designed not only to meet these standards but to exceed them—helping homes achieve enhanced energy efficiency, durability, safety, and performance stability for mission-critical operations.

7/10

7 out of 10 Green buildings in India use Saint-Gobain products.

LCAs/EPDs

All Saint-Gobain products and systems are supported by more than 3,000 Life Cycle Assessments (LCAs). The outcomes of these assessments, including Environmental Product Declarations (EPDs), are transparently published and independently verified by third parties.

Regulatory codes and green-rating frameworks establish baseline expectations for performance in homes. Saint-Gobain solutions are **engineered to exceed** these requirements.

The National Building Code (NBC 2016) sets standards for fire safety, ventilation, daylight, and indoor environmental quality.

Saint-Gobain solutions exceed benchmarks

- Vandal, attack, bullet, and blast-resistant glass systems for **protection against physical threats.**
- Through drywall assemblies, fire-rated glass systems, and fire curtains **tested from 30 minutes up to 240 minutes.**
- Acoustic Insulation with drywall systems, glass partitions, and window systems, achieving up to **80 dB reduction.**
- **Low-VOC coatings and flooring systems** support healthier indoor environmental conditions.
- Specialty ceilings and wall panel can help achieve **Reverberation time < 1.5 sec and low background noise (45-50 dBA)**
- Fire-resistant mortars and coatings **enhance passive fire protection** of critical structural elements.
- Non-combustible insulation exceeding the requirements of **NBC Part 4**

Green frameworks such as **IGBC** and **GRIHA** assess daylight, IAQ, material impact, and acoustics.

Saint-Gobain solutions support stronger outcomes

- Delivering **daylight factors above 2%**
- **Achieved NC 30-35** acoustic conditions
- Lower embodied carbon with **certified, low-impact materials**: glass, plasterboard, and concrete admixtures
- Specialty acoustic ceilings, glass partitions, drywall systems and wall panels help reduce background **noise levels < 35 dBA and reverberation time < 0.4 sec**
- Insulated building envelope helps to maintain thermal comfort by **reducing heat load up to 80%**
- Compressed insulation packaging **reduces site waste and logistics cost**
- Over-deck insulation and waterproofing systems enhance thermal efficiency, contributing to **reduced energy consumption** within buildings.

Energy Conservation and Sustainable Building Code (ECSBC 2024) defines limits for thermal performance and solar heat gain.

Saint-Gobain drywall, glazing, insulation, construction chemicals, and window solutions outperform the code mandates

- Exterior drywall systems offering **30–40% better thermal efficiency**
- **U-values** as low as **0.20–1.6 W/m2K** **SHGC** values reaching **0.23**
- Reduced HVAC load with Insulation solutions with **R-value 25%** better than ECSBC 2024 requirements for improved occupant comfort
- Spray-applied insulation systems and high solar reflective coatings improve **building thermal performance** and reduce **energy consumption**

LEED further measures EUI and envelope performance

Saint-Gobain drywall, glazing, insulation, construction chemicals, and window solutions contribute to 8–12 LEED EA points by reducing HVAC loads and improving EUI

- **U-values 0.6 to 0.8 W/m2K** with exterior drywall system and **1.0-1.6 W/m2K & SHGC down to 0.23** with high-performance glazing
- High-efficiency insulation and verified disclosures such as **EPDs and low-VOC certifications**
- Help projects document performance gains across **Energy, IEQ, and Materials credits with greater reliability**
- Lower embodied carbon with **certified, low-impact materials**: glass, plasterboard, and concrete admixtures
- Credits In Material, Sustainability, and **IAQ – up to 20 Points**
- Low Thermal Conductivity and Recyclable materials **contribute to sustainable material credits**
- PU spray-applied foam insulation over roofs **(K-value ~0.028 W/m·K),** along with **high solar reflective coatings (SRI >100)** enhances **thermal efficiency** and supports improved **energy performance**

High-efficiency glazing, windows, hardware, insulation, drywalls, specialty ceilings & wall panels, gypsum plasters, fire and acoustic-rated systems, and construction chemicals collectively strengthen every dimension of multi comfort, enabling workplaces that deliver higher efficiency, enhanced occupant **comfort** and **wellbeing**, and **long-term performance** beyond mandated standards.

LIGHT & SUSTAINABLE SOLUTIONS FOR GREEN HOMES

36 POINTS

HIGHEST CONTRIBUTION OF GREEN RATING POINTS

indian green building council

SAINT-GOBAIN | vetrotech SAINT-GOBAIN | gyproc SAINT-GOBAIN

FOSROC | chryso SAINT-GOBAIN | ecophon SAINT-GOBAIN

weber SAINT-GOBAIN | Rockinsul™ | Twigainsul®

NORTON SAINT-GOBAIN | ADFORS SAINT-GOBAIN | SolarGard SAINT-GOBAIN | CLIMAVER®

2 POINTS

PASSIVE ARCHITECTURE

HIGH PERFORMANCE GLASS |
FIRE RATED GLASS SYSTEMS |
HIGH SECURITY GLASS SYSTEMS

10 POINTS

ENHANCED ENERGY PERFORMANCE

HIGH PERFORMANCE GLASS |
FIRE RATED GLASS |
HIGH SECURITY GLASS |
PLASTERBOARDS | INSULATION

5 POINTS

GREENPRO CERTIFICATION

HIGH PERFORMANCE GLASS | FIRE RATED GLASS |
HIGH SECURITY GLASS |
PLASTERBOARDS | PLASTERS |
SPECIALTY CEILINGS AND WALL PANELS |
INSULATION | CONSTRUCTION CHEMICALS

2 POINTS

CONNECTIVITY TO EXTERIORS

HIGH PERFORMANCE GLASS |
FIRE RATED GLASS |
HIGH SECURITY GLASS

2 POINTS

LOCAL MATERIALS

HIGH PERFORMANCE GLASS |
FIRE RATED GLASS | HIGH SECURITY GLASS |
LACQUERED GLASS |
PLASTERBOARDS | PLASTERS |
SPECIALTY CEILINGS AND WALL PANELS |
INSULATION | CONSTRUCTION CHEMICALS

2 POINTS

HANDLING OF WASTE DURING CONSTRUCTION

HIGH PERFORMANCE GLASS | LACQUERED GLASS |
FIRE RATED GLASS | HIGH SECURITY GLASS |
PLASTERBOARDS | PLASTERS |
SPECIALTY CEILINGS AND WALL PANELS |
INSULATION

2 POINTS

INNOVATION WITH LOW CARBON MATERIALS

LOW CARBON GLASS |
LOW CARBON PLASTERBOARD |
LOW CARBON PLASTERS

2 POINTS

DAYLIGHTING & OUTDOOR VIEWS

HIGH PERFORMANCE GLASS |
FIRE RATED GLASS |
HIGH SECURITY GLASS

2 POINTS

LOW EMITTING MATERIALS

HIGH-PERFORMANCE GLASS |
LACQUERED GLASS |
PLASTERBOARDS | PLASTERS |
SPECIALTY CEILINGS AND WALL PANELS |
INSULATION | CONSTRUCTION CHEMICALS

2 POINTS

OCCUPANT WELL BEING FACILITIES

HIGH PERFORMANCE GLASS | LACQUERED GLASS |
FIRE RATED GLASS | HIGH SECURITY GLASS |
PLASTERBOARDS | PLASTERS |
SPECIALTY CEILINGS AND WALL PANELS |
INSULATION

1 POINT

OPTIMIZATION IN STRUCTURAL DESIGN

HIGH PERFORMANCE GLASS | LACQUERED GLASS |
FIRE RATED GLASS | HIGH SECURITY GLASS |
PLASTERBOARDS | PLASTERS |
CONSTRUCTION CHEMICALS

2 POINTS

ALTERNATIVE CONSTRUCTION MATERIALS

PLASTERBOARDS |
PLASTERS |
CONSTRUCTION CHEMICALS

2 POINTS

EXEMPLARY PERFORMANCE

HIGH PERFORMANCE GLASS | LACQUERED GLASS |
FIRE RATED GLASS | HIGH SECURITY GLASS |
PLASTERBOARDS | PLASTERS |
SPECIALTY CEILINGS AND WALL PANELS |
INSULATION | CONSTRUCTION CHEMICALS

THE BUILDING - A **360º** VIEW

SOLUTIONS FOR EVERY SURFACE AND SYSTEM

ENVELOPE

- High Security Glass Solutions
- Fire-rated Glass Solutions
- Electrochromic Glazing
- External Plasterboard
- uPVC Windows
- Sealants
- Tile Adhesives
- Railings
- Glass Cutting Wheels

PRE-CONSTRUCTION

- Waterproofing Solutions
- Concrete Repair Systems
- Innovative Concrete Solutions
- Industrial Flooring Solutions
- Concrete Admixtures
- Joint Sealants
- Abrasive Wheels and Discs
- Surface Treatments
- Grouts
- Anchors

INTERIORS

Decorative Gypsum Ceilings

Gypsum Plasters

Internal Tile Adhesives and Tile Grouts

Wall Coverings

Lacquered Glass

Mirrors

Privacy Glass

Acoustic Wall Panels

Shower Cubicles

Gyproc Habito Drywall with load bearing capacity

Gyproc Hydro Drywall with moisture & mold resistance

Gyproc Exterior Drywall with Glasroc X

Gyproc Gypsum Ceilings

Gyproc Drywall Quiet

Gyproc Gypsum Plaster with bonding agent

SOLUTION SNAPSHOT

FOUNDATION

Advanced waterproofing systems and construction chemical solutions provide critical protection against moisture ingress and subsoil exposure - ensuring long-term durability and structural stability of foundations in residential spaces. Polypropylene Geo Grid - Soil Stabilisation.

SUPERSTRUCTURE

Abrasives like - Cutting Wheels and Surface Finishing Discs for Metal, Wood, Concrete, Tile, and Wall, Sheets and Cloth Rolls, Core Bits, Drill Bits and Screw Bits, Additives, Cement Adhesives, Concrete Admixtures, Low Carbon Concrete, advanced concrete admixtures and low-carbon technologies improve density, reduce permeability, and enhance durability - supporting high-load structural performance and long-term reliability and contribute to the Structural Strengthening of residential spaces.

FACADES

High-performance Low Carbon Glass (also in jumbo sizes), Vetrotech high-security glass system solutions, Weatherproof Exterior Drywall using Glasroc X, and High Performance Façade sealants and Surface treatments combine to deliver durable, weather-resistant, physically secure and energy-efficient façades for reliable Residential Spaces' performance. Automatic Sliding Doors & Spider Fittings support façade performance and structural durability. Glass Wool and Stone Wool for Curtain Wall, Stone Wool for Fire and Smoke Seal Applications. Glass Fiber Mesh for Plaster crack prevention.

FLOORING

High-performance floor screeds, tile adhesives, and waterproofing solutions provide level, durable, and moisture-resistant surfaces - designed to withstand everyday use, high abrasion, and continuous usage while ensuring slip safety and ease of maintenance. Glass Fiber Mesh for Screed Reinforcement.

ROOFING

Integrated roofing systems, including waterproofing membranes, protective coatings, sealants, shingles and insulation solutions, deliver weather-tight and thermally efficient performance - ensuring long-term protection against environmental exposure on terraces. Glass Wool and Stone Wool insulation for underdeck/ overdeck applications.

CEILINGS

Ecophon designer and acoustic ceilings for homes and home theatres. Fade® One Acoustic Plaster; Ecophon® Solo Acoustic Free Hanging Panels; Perforated Gypsum Boards ; Metlance™ Metal Architectural Ceilings; Ecophon® Glasswool Acoustic Wall ceiling panels; SG Anutone® Strand® Woodwool/ Salon® wooden perforated acoustic Ceilings and Wall Panels offer indoor acoustic comfort and design. Gyproc Fire Rated Plasterboard ceiling upto 120mins fire rating.

INTERNAL WALLS & PARTITIONS

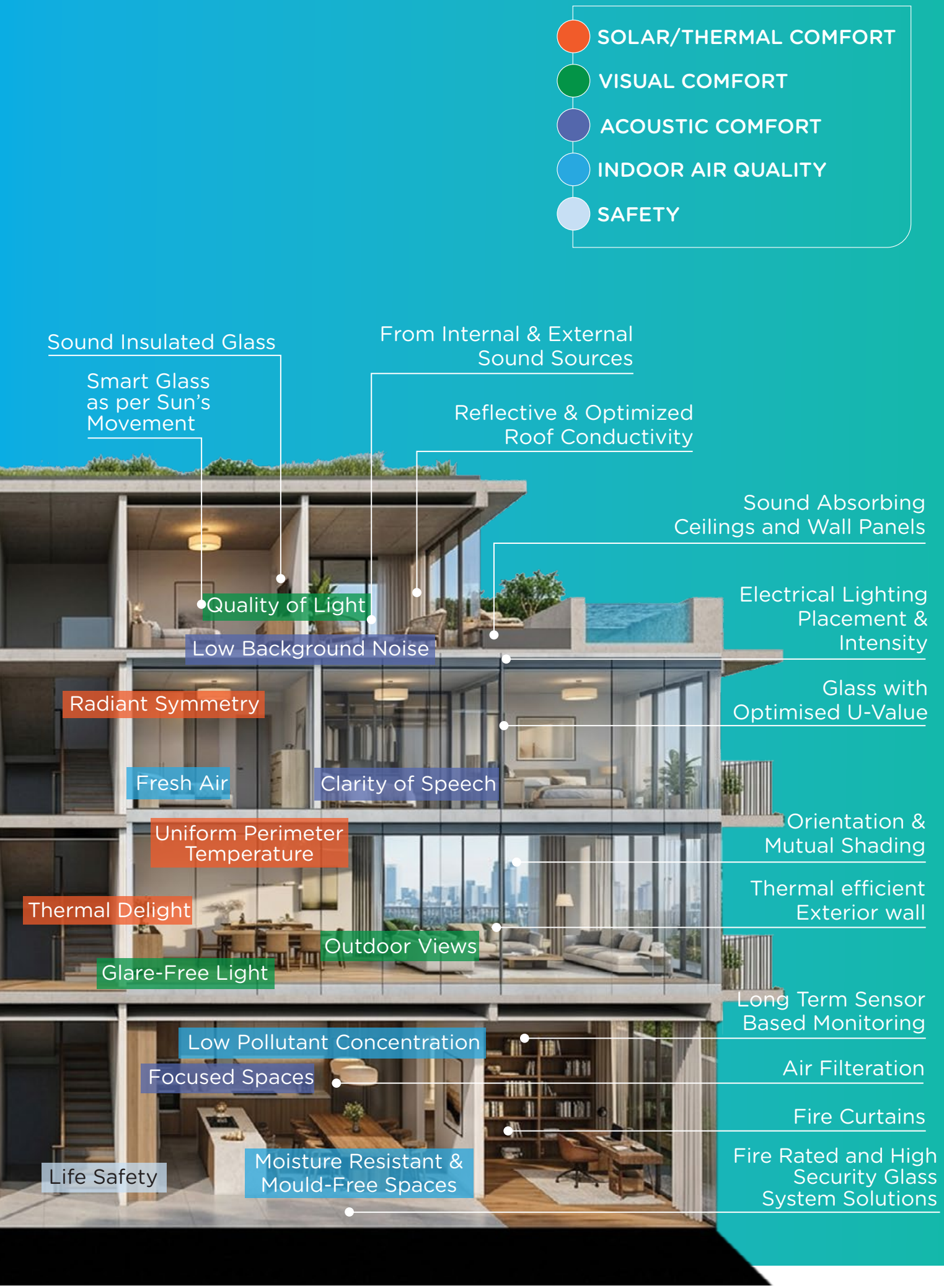
Gypsum Drywalls & Partitions for Dry & Wet Areas, Glass Partitions, Automatic Sliding Doors, Windows and Lacquered Walls, Modular Acoustic Pods, Glassfibre Wallcoverings, Plasters and Ceilings, and Fire-rated Plasterboards from Saint-Gobain Gyproc fortify the internal walls & partition systems of Homes. Glass shutter systems for modular kitchen solutions, Wardrobes, and storage. Shower enclosures ensure hygiene, durability, and moisture resistance. Mirror systems for lighting and functional performance. Sound and Fire Insulation for Drywall Partitions.

VENTILATION

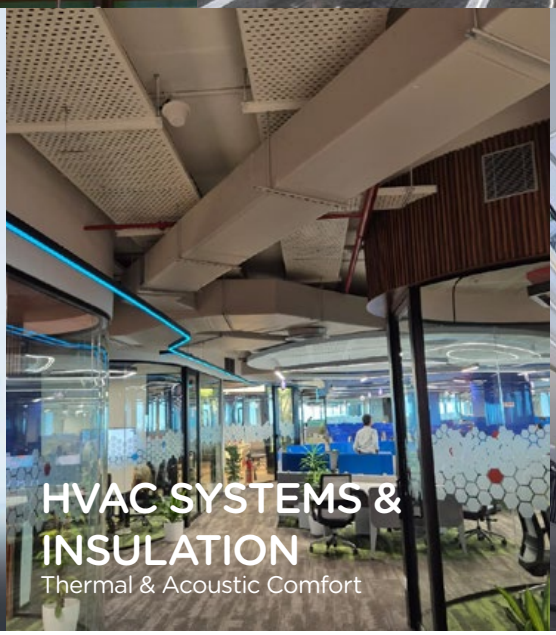
Saint-Gobain CLIMAVER® duct systems offer lightweight, airtight, pre-insulated ducts with excellent thermal and acoustic performance for efficient ventilation of Homes. For added safety, fire-rated duct solutions can be installed. In addition, Tekbond Fire Rated PU Foam and Tekbond High Performance PU Foam are recommended for sealing duct penetrations effectively.Glass Fiber Insect Screens in Doors & Windows. Glass Fiber Technical Textiles for Passive Fire Protection.

ENABLING MULTI COMFORT AND OCCUPANT WELLBEING

A space is a living environment that directly influences occupant multi comfort and wellbeing — a blend of Visual, Solar, Thermal, Acoustic, Indoor Air Quality and Safety. Explore Saint-Gobain solutions for multi-comfort.


SOLAR/THERMAL COMFORT
VISUAL COMFORT
ACOUSTIC COMFORT
INDOOR AIR QUALITY
SAFETY
Sound Insulated Glass
Smart Glass as per Sun's Movement
From Internal & External Sound Sources
Reflective & Optimized Roof Conductivity
Sound Absorbing Ceilings and Wall Panels
Quality of Light
Low Background Noise
Electrical Lighting Placement & Intensity
Glass with Optimised U-Value
Radiant Symmetry
Fresh Air
Clarity of Speech
Uniform Perimeter Temperature
Orientation & Mutual Shading
Thermal efficient Exterior wall
Thermal Delight
Outdoor Views
Glare-Free Light
Long Term Sensor Based Monitoring
Low Pollutant Concentration
Air Filteration
Focused Spaces
Fire Curtains
Moisture Resistant & Mould-Free Spaces
Life Safety
Fire Rated and High Security Glass System Solutions

LIGHT AND SUSTAINABLE SOLUTIONS FROM SAINT-GOBAIN



COMPREHENSIVE PORTFOLIO OF CONSTRUCTION SOLUTIONS

- Clear Glass
- Tinted Glass
- Mirrors
- Solar Control Glass
- Thermal Insulation Glass
- Toughened Lacquered Glass
- Fire Safety Glass System Solutions
- Fire Curtains
- UPVC & Aluminium Doors/Shower Cubicles
- Electrochromic Glass
- Privacy Glass
- Railings
- Hardware, Partitions, Pods
- Wall Coverings
- High Security Glass System Solutions

SAINT-GOBAIN

Plaster Board Drywalls & Dry Lining Systems:

- Dry Area Applications
- Wet Area Applications
- Shaft walls
- Fire Rated Walls
- Acoustic Walls
- Exterior Walls
- Heavy Impact Walls

Ceiling System & Tiles

- Architectural Metal ceilings
- Ceiling Tiles & Board (Gypsum)

Metal Framing & Accessories

Jointing and Finishing Products

Gypsum Plasters

Gyproc Systems & Solutions

gyproc SAINT-GOBAIN

Acoustic Modular Ceiling

Acoustic Free Hanging Panels

Acoustic Wall Panels

Acoustic Plaster

ecophon SAINT-GOBAIN

Drywall Insulation

Façade Insulation

Underdeck Insulation

Flexible Duct

Pre-Formed Pipe Sections

Acoustic Panels

Twigainsul®

Drywall Insulation

Overdeck Insulation

Façade Insulation (Smoke Seal)

Rockinsul™

Pre-Insulated Duct System

CLIMAVER®

Sealants

Aerosols

Adhesives

Accessories

TEK BOND SAINT-GOBAIN

Waterproofing Systems (basement to roof)

Concrete Admixtures

Concrete Repair Systems

Protective Coatings

Industrial Flooring Solutions

Joint Sealants

Structural Adhesives

Cement Grinding Aids

Surface Treatments:

- Wide range of curing compounds
- Shutter release agents

Anchors:

- Chemical anchors for challenging construction needs

Grouts (cement and resin-based anchoring systems)

FOSROC

Concrete Solutions:

- Ready-Mix Concrete
- High Flow Concrete
- Low Carbon Concrete
- Integral Waterproofing
- Challenging Aggregate Solutions
- Self-Compacting Concrete (SCC)
- Underground Construction
- Curing Agents
- Precast (Wet/Dry)
- Demoulding Agents
- Lightweight Concrete

Cement Additives:

- Next Generation Activators
- Performance Activators
- Grinding Aids for Cement
- Masonry Additives
- Grinding Aids for Minerals

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Abrasive Solutions for Surface Preparation & Finishing

- Metal, Wood, Concrete Cutting and Wheels and Discs
- Wall and wood surface finishing discs, sheets and cloth rolls
- Core bits, Drill bits and screw bits

NORTON SAINT-GOBAIN

Tile & Stone Adhesives:

- Cementitious, Polymer Modified, Epoxy/PU Adhesives

Tile & Stone Grouts:

- Cementitious, Epoxy Grouts

Tile & Stone Care:

- Cleaners, Impregnators and Sealers

Waterproofing:

- Cementitious, primers, acrylic, Polyurethane waterproofing

Wall Construction Solutions:

- Adhesives for fixing AAC Blocks

weber SAINT-GOBAIN

WHY PARTNER WITH SAINT-GOBAIN?

Modern buildings demand solutions that minimise environmental impact while enhancing comfort, safety and efficiency.

Saint-Gobain delivers this through a sustainability-led innovation, manufacturing, and specification ecosystem. This is powered by continuous R&D tailored to hot and humid climates. As one of India's largest green, energy-efficient plant networks, Saint-Gobain provides end-to-end specification support and a fully digitalised approach that drives efficiency, accuracy, and low-carbon outcomes.

Continuous innovation is driven by the Saint-Gobain Research India (SGRI), where deep insights fuel advanced material science and rigorous application testing; powering **next-generation, science-backed solutions** for the built environment.

Regional manufacturing ensures consistent availability, reduced logistics emissions and reliable timelines. This is strengthened by Saint-Gobain Research India (SGRI), advanced digital tools and expert technical teams that convert science and innovation into better-performing buildings.

Expert-led advice from a specialised technological group - Design Core, delivers end-to-end specification support, reinforced by accurate modelling and compliance guidance for safe, sustainable designs.

01

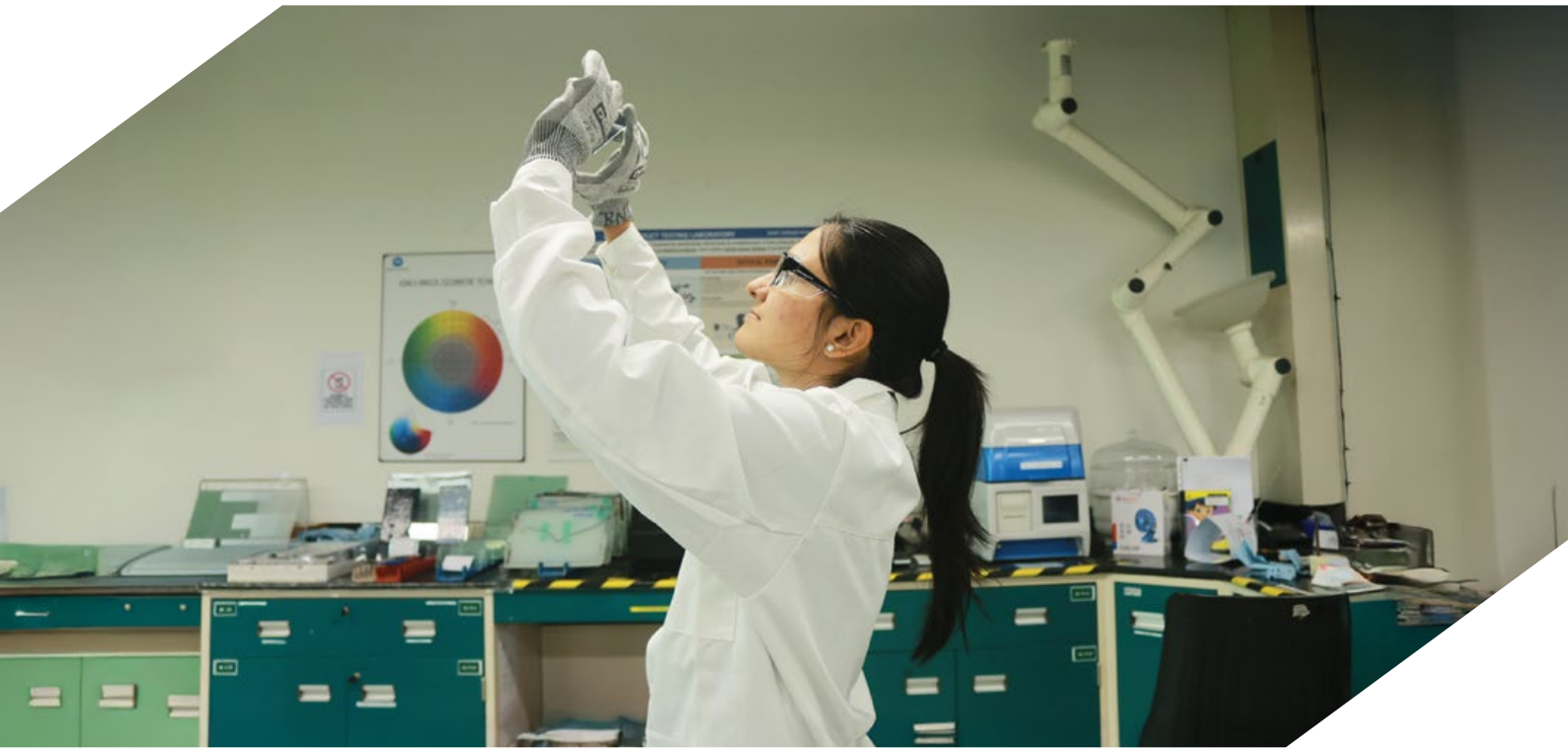
INSIGHTS > SCIENCE > SOLUTIONS
END-TO-END DELIVERANCE

INDIA'S EPICENTER FOR MAKING INSIGHTS A REALITY

Saint-Gobain Research India (SGRI) – India's largest private R&D centre for construction materials and solutions is located at **IIT-Madras Research Park**. SGRI brings together materials scientists, simulation experts and building physicists working on **thermal behaviour**, **acoustics**, **daylight**, **solar control**, **lifecycle impact** and **material safety**.

Insights from this research ecosystem feed directly into the design of **glass**, **insulation**, **gypsum systems**, **ceilings** and **construction chemicals**.

At SGRI, evidence becomes prototypes, **prototypes become validated assemblies**, and these lead to project specifications — ensuring every system not only meets regulatory thresholds but consistently exceeds them.



Lab testing for visual, solar, thermal, acoustic, fire etc.

Prototyping and pilot lines for Indian climatic conditions

Simulation-led development producing validated assemblies

25+ LABS | 200+ PRODUCT LAUNCHES | 250+ SCIENTISTS | 280+ PATENTS

1 OUT OF 4 PRODUCTS SOLD TODAY IN INDIA DID NOT EXIST 5 YEARS AGO

01A

FROM INSIGHTS TO MEASURABLE BUILDING PERFORMANCE

A comparative simulation of a Base Case vs. a Design Case using Saint-Gobain systems demonstrates the impact of material science on building outcomes.

ENVELOPE PERFORMANCE

- Walls improved from **0.695> 0.420** W/m²K glazing from **5.70>1.60** W/m²K
- SHGC reduced from **0.85> 0.22** W/m²K
- Cutting heat gain without compromising daylight

COMFORT PERFORMANCE

- Thermal comfort area increased **21%** Operative temperatures dropped **2°C**
- Glare reduced **34%** With **<2%** daylight variation
- Acoustic performance strengthened with **46%** STC improvement

CARBON, ENERGY & EFFICIENCY

- **17** million kg CO_2e reduction **12%** energy savings
- **34%** lower HVAC capacity **454** tonnes concrete and **21** tonnes steel savedy
- **27%** faster installation

The Design Case consistently surpasses compliance across thermal, solar, visual, acoustic and environmental metrics, delivering better comfort, lower energy demand, reduced embodied impact, faster construction and stronger lifecycle value.

WHY THIS MATTERS

01 Direct access to research-backed products and validated assemblies reduces specification risk.

02 Regional manufacturing shortens supply chains and improves predictability.

03 Solutions are developed with decarbonisation targets in mind, helping projects meet regulatory and voluntary sustainability goals.

02

MANUFACTURING EXCELLENCE: GREEN, REGIONAL AND RESPONSIBLE

Saint-Gobain's India operations are built on the principles of combining scale, sustainability and localisation.

GREEN MANUFACTURING FOOTPRINT

Saint-Gobain operates an extensive network of plants across India, strategically located to reduce transport emissions and ensure material availability for regional markets. These facilities integrate renewable energy, waste heat recovery, water circularity and advanced monitoring systems to minimise environmental impact. These initiatives have led to a **34% reduction** in **Scope 1** and **2 emissions** from earlier baselines, amplified by sustained investments in electrification, fuel switching and process optimisation.

LOCAL MATERIAL AVAILABILITY

Regional manufacturing ensures that high-performance glass, specialty ceiling tile, insulation, construction chemicals, waterproofing systems, gypsum boards and adhesives are available consistently across the country. This reduces lead times, stabilises project schedules and limits the carbon footprint associated with long-distance logistics.

SUSTAINABLE MANUFACTURING PRACTICES

Across plants, waste reduction and circularity principles drive production. Glass cullet is recycled back into the float process; gypsum waste is reintroduced into plasterboard manufacturing; rainwater and treated wastewater increase water circularity.

WHY THIS MATTERS

01 Sustainable, regionally distributed manufacturing lowers embodied impacts while ensuring predictable supply.

02 This translates to reduced logistics emissions, consistent quality and dependable timelines, strengthening project certainty and supporting green-building objectives.

03 In large projects with compressed timelines, this alignment between production and proximity becomes a decisive advantage. Saint-Gobain's integrated model strengthens the sustainability credentials of every delivered product.

03

DIGITAL TOOLS FOR PERFORMANCE DRIVEN DESIGN

Saint-Gobain's digital layer accelerates decision-making and reduces design risk. The company provides simulation and specification tools—Calumen/Calumen Live for glazing and performance evaluation is available to design teams for comparative glazing selection and performance modelling.

Calumen supports multi-parameter tradeoffs (U-value, SHGC, VLT, acoustic inputs) and produces outputs suitable for early design and final specification. Saint-Gobain also provides Tech Calc, a versatile engineering and technical calculation tool that simplifies complex mathematical and performance computations.

Tech Calc supports built-in thermal and energy-saving calculations for insulation systems, enabling accurate assessment of material efficiency. The platform automates complex formulas into clear, simplified outputs, reducing manual effort and improving reliability.

Beyond tools, Saint-Gobain offers BIM-ready content and technical integration pathways: from BIM objects to visualisers and specification packages. The firm's BIM capability has been developed over years to deliver interoperable models and data for use in collaborative project environments.

WHY THIS MATTERS

01 Rapid glazing and envelope comparisons with project-specific data (via Calumen) reduce iteration time.

02 Built-in performance calculations with technical validation.

03 BIM objects and digital specs simplify handover and integration into design workflows.

04 Expert simulations (daylight, thermal, acoustic, wind) de-risk design choices and speed approvals.

04

DESIGN CORE: EXPERT-LED TECHNICAL AND SPECIFICATION SUPPORT

Design Core is a specialised technical group that works with architects, façade consultants, acoustic consultants and developers to refine design intent and specification.

The team supports:

1. Daylight & glare analysis
2. Thermal performance and thickness optimisation
3. Wind load checks for façades
4. System Testing, BIM-Revit Modeling/ Families
5. Acoustic modelling for partitions and ceilings
6. Fire and code compliance guidance
7. Concrete Technology (CT) Support

Inputs from Design Core allow projects to validate decisions early, ensure compliance with NBC, ECBC and green frameworks, and document data for IGBC, GRIHA and LEED evidence packages.

DIGITAL ASSURANCE ACROSS THE LIFECYCLE

From concept modelling to final specification and site validation, digitalisation ensures that performance assumptions are not lost through the construction process.

The integration of BIM, software tools, analytics and on-ground technical support creates continuity from design to delivery.

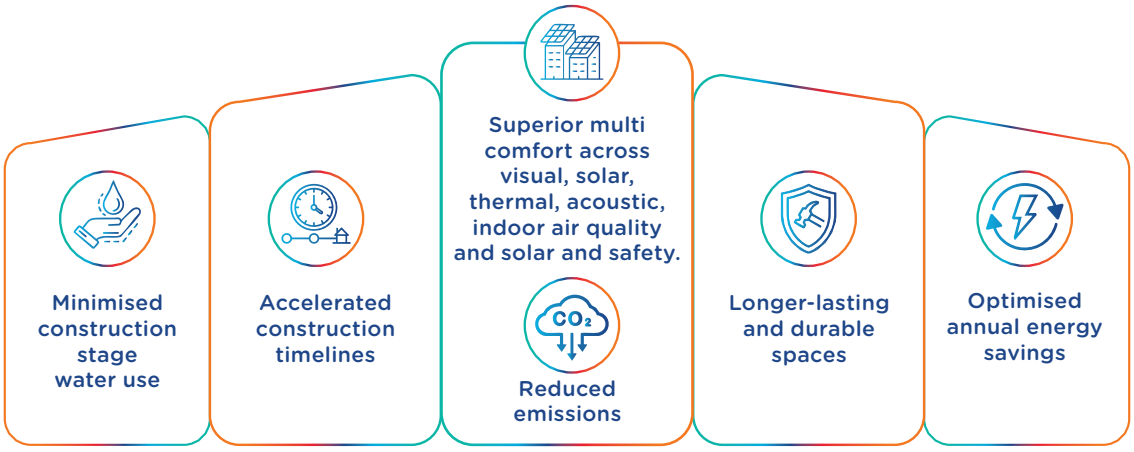
WHY THIS MATTERS

01 Early-stage concept modelling (daylight, thermal, acoustic).

02 Advanced simulation, reliable manufacturing and precise specification support give projects a partner that understands performance not as a claim but as a measurable, science-backed outcome — helping create offices that are efficient, comfortable and ready for the future.

MULTI COMFORT AND OCCUPANT WELLBEING, DELIVERED IN A LIGHT AND SUSTAINABLE WAY.

Saint-Gobain's light and sustainable construction systems deliver tangible value across the entire building lifecycle — reducing impact, enhancing comfort and improving performance where it matters most.



A smarter way to build — lighter on resources, stronger in performance and ready for the future.

Saint-Gobain: Delivering multi comfort and occupant well-being in a light and sustainable way.

DR.PRADIP UPPAL
MUMBAI
WINDOWS SOLUTIONS

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DRYWALL & CEILING SOLUTIONS

CHAITANYA SAMARTH
BANGALORE
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EDUCATIONAL

HEALTH CARE

HOSPITALITY

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