



**DATA  
CENTRE  
SOLUTIONS**



**SAINT-GOBAIN**

# DATA CENTRE SOLUTIONS BY SAINT-GOBAIN

At Saint-Gobain, we understand that data centre require uncompromising safety, reliability, energy efficiency and precise environmental control. We offer fully integrated building solutions – including low-carbon concrete solutions, envelope solutions, interior fit-out solutions and complimentary product offering of insulation, fire-resistant systems and many more to help you meet your operational and environmental demands with confidence.

By combining our expertise across multiple systems including structures, façades, walls, ceilings, and glazing, we help you achieve optimal thermal performance, acoustic comfort and regulatory compliance all while delivering on your sustainability goals.

Supported by our global manufacturing and distribution network and deep technical expertise, Saint-Gobain can support your data centre projects from planning to execution. Whether you are expanding capacity or building new facilities, we can deliver sustainable, high-performance solutions that keep your operations running safely and efficiently.

As data demands grow, so does the opportunity to build smarter, more resilient infrastructure. At Saint-Gobain, we are fully committed to helping you meet the future of data centre construction - reliably and successfully.

## Our Brands

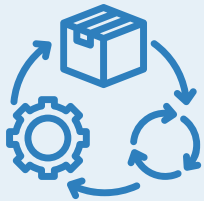


# ENABLING GREEN DATA INFRASTRUCTURE

The data centre industry is under pressure to use less energy, cool more efficiently, lower both operational and embodied carbon, and build with materials that last—even as digital demand grows. Saint-Gobain helps meet these challenges with low-carbon materials, energy-efficient designs, and circular solutions.

Through advanced manufacturing and lifecycle assessments, we deliver durable, high-performance, and recyclable products that enhance thermal management, fire safety, and overall resilience—supporting greener, net-zero-ready data centre worldwide.

With our local-for-local approach, we source and manufacture close to where projects are built, reducing carbon footprint, strengthening local economies, and ensuring faster, reliable delivery. Our goal is to be the trusted partner for data centre stakeholders, helping bring sustainable, efficient projects from design to jobsite execution.



## LCAs/EPDs for all products

Saint-Gobain products and systems are backed by over 3,000 Life Cycle Assessments (LCAs), with all published results, such as Environmental Product Declarations (EPDs), verified by independent third parties.



## Customer Centric Innovation Priorities

- Solutions and processes for a zero-carbon future
- Lightweight construction systems for performance and well being
- Solutions with high recycled content to reduce use of non-renewable resources
- Materials and solutions to develop new markets



## Net Zero Carbon Targets

Roadmap and targets aligned with a 1.5°C scenario.

- 1st Zero Carbon pilot production of glass (2022) and with > 30% hydrogen (2023)
- 1st Zero Carbon production sites for plasterboard (2023 & 2024)
- Lowest carbon glasswool insulation plant in the world (2025)

# 2030

Saint-Gobain is acting on Scope 1, 2, and 3 direct and indirect emissions in close collaboration with our upstream and downstream supply chain and is on track to achieve our 2030 targets in compliance with SBTi\*. In addition to our 2050 ambitions, we are also focusing on 2035 targets to better align our medium-term objectives.

\* Science Based Targets Initiative

# SOLUTIONS OVERVIEW

Your projects deserve solutions that can be seamlessly integrated from the earliest stages of your projects, ensuring efficient data center construction for everyone involved.

Working hand-in-hand with hyperscale and co-location developers, operators, design teams, and contractors, we help turn your vision into reality smoothly and efficiently.

From design calculations and renderings to technical guidance and on-site support, our global network of experts is with you at every step.

To co-create innovative, tailored solutions for large-scale developments, we mobilize our world-class development teams and draw on a network of eight R&D Excellence Centre worldwide.

By integrating Saint-Gobain's solutions into your data center projects, our customers can:



Deliver projects quicker by leveraging our modular, high-quality construction systems for speed and repeatability.



Lower the embodied and operational carbon of the building envelope and services.



Improve thermal stability and fire resilience of critical infrastructure spaces.



Achieve LEED and BREEAM global building standards through our extensive verified product documentation (e.g., EPDs)



Achieve sustainability goals with our recycling services for C&D waste and end of life.

-  Façades
-  Flat Roofing
-  Compartmentation Walls
-  Ceilings
-  Concrete Works
-  Foundations
-  Flooring
-  Pipes & Pipe Insulation
-  Smoke Extraction & Ventilation
-  Fire-proofing solutions



Every area matters in Data Centres, from the heart of your operations to the spaces that keep them running.

## Servers & Data Banks

We provide complete construction and infrastructure solutions tailored for the unique demands of data centres.

Our expertise and product portfolio encompass every critical element of the building fabric, from low carbon concrete works, precise foundations, and durable flooring to flat roofing, and specialised ceilings.

We offer critical safety systems, including fire-proofing, smoke extraction, and resilience systems to help create secure and efficient environments for your servers and data banks.

## Administration Buildings

We deliver high-performance fit-out solutions for data centre administration buildings, supporting daily operations with precision and reliability.

Solutions include architectural facades, high-spec ceilings, durable flooring, and fire-safe walling systems that ensure both functionality and aesthetic quality. We also provide energy-efficient ductwork solutions to enhance comfort and sustainability. Focused on compliance and long-term performance, we create efficient, dependable workspaces across your data center campus.

# SOLUTION SNAPSHOT



## Façades



### Low Carbon Glass

Saint-Gobain Glass ORAÉ® substrate, combined with COOL-LITE® XTREME/SKN coatings, delivers up to -40-42% lower embodied carbon ( $\approx 6.64 \text{ kg CO}_2 \text{ eq./m}^2$ ) for façades without compromising performance or aesthetics.



### Sandwich Panels

Metal sandwich façade panels with a stonewool insulation core, from European sister companies, offer wide range of architectural designs, high thermal and acoustic insulation, hidden fixings, strong fire-resistance, and rapid installation.



### Light Weight Facade

Saint-Gobain Enveo system with mineral wool insulation offers an ultra-light, thermally efficient, fire resistant, breathable and weather-resistant facade system that accelerates installation while delivering premium performance.



## Compartmentation Walls



### Sandwich Panels

European sister companies, metal sandwich wall panels offer fire-resistant, sound-insulating, and robust partition solutions, ensuring safety, durability, and efficient space separation in industrial or commercial buildings



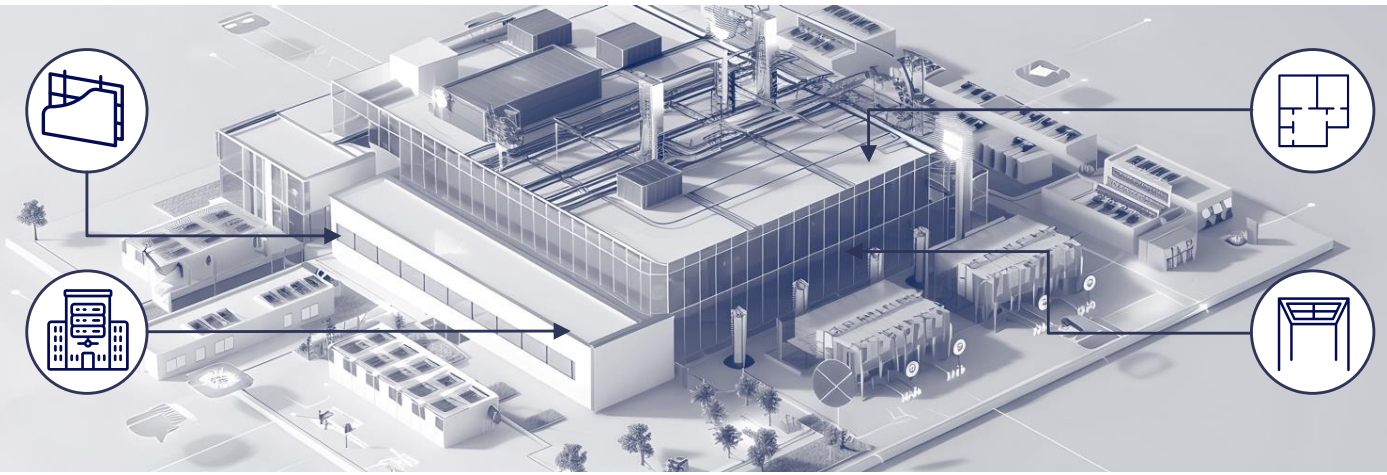
### Panelised Walls

Saint-Gobain panelised walls provide fire-rated, acoustically insulated, and durable internal walls, ensuring safety, efficiency, and controlled environments in data center administrative buildings.



### Drylining

Saint-Gobain plasterboard drylining solutions offer high-performance, fire-rated, acoustic, and moisture-resistant partitions, ensuring safety, durability, and efficiency in data center environments.



## Roofing



### Cool Roof Solutions

Saint-Gobain "Cool Roof" systems reflect solar radiation, lower roof surface temperature by up to  $-40^{\circ}\text{C}$ , cut cooling energy use, and enhance indoor comfort and building sustainability



### Sandwich Panels

Saint-Gobain European sister companies, metal sandwich roofing panels provide excellent thermal insulation, fire resistance, and quick installation for durable industrial and commercial roofing.



### Bitumen and Flat Roof Insulation

Saint-Gobain liquid and bitumen membranes ensure durable waterproofing, while Saint-Gobain flat roof insulation provides thermal efficiency fire protection and mechanical resistance for data center roofs requiring long lifetime warranty.



## Ceilings



### Structural Grids

Ecophon provides structural ceiling grids delivering exceptional load-bearing capacity and full flexibility for overhead cabling, containment and utilities in data center environments.



### Ceiling tiles

Ecophon ceiling tiles provide clean-room rated, low-emission acoustic ceilings with excellent reflectance and maintenance ease—ideal for data-center environments.



### Ceilings

Saint-Gobain ceiling solutions offers aesthetic and noise separation performances in admin, corridor and security areas of the data center buildings



## Pipes & Pipe Insulation



### Foam insulations

Kaimann Kaiflex HFplus: Flexible, closed-cell rubber insulation with built-in vapor barrier, halogen-free, designed for data center pipework to prevent corrosion and energy loss.



### Below Ground Pipes

PAM provides durable, corrosion-resistant ductile iron piping systems ensuring reliability, safety, and efficiency for critical data center infrastructure and cooling networks.

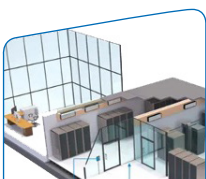


## Fire-proofing Solutions



### Structural Fire Protection

GCP MONOKOTE® structural protection is a spray-applied cementitious fireproofing for steel and concrete, delivering up to 4 hours fire resistance and excellent durability. Fire resistant drylining solutions offer passive fire protection with acoustic properties for critical elements in the building. Isover Stonewool panels offers passive fire protection for steel and concrete structures.



### Fire-Rated Glazing

Vetrotech fire-rated glazing delivers critical compartmentalization of fire, smoke, and heat in data center zones, enabling visibility and safeguarding uptime.



## Smoke Extraction & Ventilation



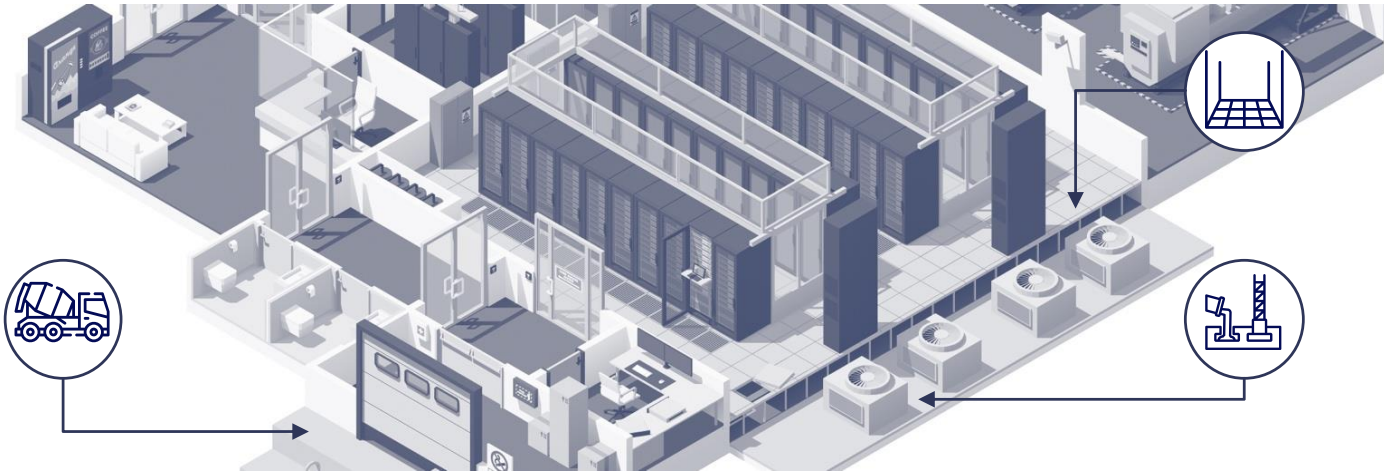
### Smoke Extraction and Ventilation Ducts

Isover CLIMAVER® duct system offers lightweight, airtight, pre-insulated ventilation ducts with excellent thermal, acoustic and fire performance for efficient building services integration. U Protect Fire rated duct solutions ensure fire safety of ventilation and smoke extraction ducts for up to 2 hours.



### Fire Resistant Sealant and Mortars

Saint-Gobain sealants and Isover Protect Fire Stopping and Sealing solutions protect data centre by sealing cable and pipe penetrations, preventing fire spread, ensuring safety, and regulatory compliance.



## Concrete Works



### Solutions for Low Carbon Concrete

Chryso EnviroMix® admixture and digital solutions enable the concrete for data center to reduce embodied CO<sub>2</sub> by up to ~50% while maintaining high performance and durability.



### Concrete Service Offer

Chryso MATURIX combined with GCP VERIFI® brings real-time concrete quality control to data-center construction, enabling consistent mixes, fewer defects and faster project delivery.



## Foundations



### Waterproofing Structures

GCP BITUTHENE® waterproofing membrane delivers critical moisture, gas and structural protection—ideal for safeguarding data-center sub-structures and floors.



### Barrier Solutions

GCP PREPRUFE® membranes offer pre-applied, fully bonded waterproofing that prevents water/gas ingress and migration — ideal for data-center sub-structures' integrity



## Flooring



### Screed Solutions

Weberfloor pumpable screed ensures ultra-flat, rapid-drying floor surfaces, ideal for heavy-load, vibration-sensitive data-center infrastructure zones. Also available with Anti-static fiber mix.



### Anti-Static Coatings

Fosroc anti-static coatings, such as Nitoflor Dissipative and Nitoflor Conductive, are epoxy-based floor coatings designed to provide a path for static electricity to dissipate into the ground ideal for Data centre.

# DRIVING DATA CENTRE INNOVATION

Saint-Gobain's R&D centres are at the forefront of developing sustainable, high-performance materials for the rapidly growing global data center industry. Their innovations focus on reducing energy consumption, lowering carbon emissions, and improving operational efficiency across a data center's lifecycle.

Key solutions include advanced insulation for optimized cooling and ventilation, high-performance glazing and wall systems for environmental control, durable and recyclable ductile iron piping, and fire-resistant sealants, mortars, and drywall systems.

By leveraging digital modeling, life-cycle assessments, and circular economy principles, Saint-Gobain designs materials with reduced embodied carbon and improved recyclability, aligning with net-zero and global sustainability standards. Collaboration with developers, engineers, and architects ensures customized solutions that balance performance, safety, and sustainability, supporting more efficient, resilient, and low-carbon data centres.



**Strong transversal R&D centre with a global footprint combined with local R&D teams close to business/country**

**3600** Researchers worldwide

- |          |           |
|----------|-----------|
| 1 USA    | 4 Brazil  |
| 2 France | 5 Germany |
| 3 China  | 6 India   |

## Processes and solutions for a zero-carbon transition

- Electrification & H2
- Net-zero low carbon production
- Low CO<sub>2</sub> cement & concrete

## Materials and solutions to develop new markets

- Battery solutions
- Hydrogen platform
- Integrated solar solutions



## Lightweight construction systems for performance and well-being

- Resilient products
- Façade systems
- Offsite solutions

## Solutions to minimize the use of planetary resources

- Increased cullet recycling
- High-recycled content
- PVC recycling

# CONTACTS

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