



ARCHITECTURE  
STUDENT  
CONTEST

# Innovative Saint-Gobain products, system and solutions

Belgrade, Serbia

Last modified: 11<sup>th</sup> September 2025



# Introduction

Dear Students,

Welcome to a Sustainable Design Journey with Saint-Gobain!

This publication presents a selection of Saint-Gobain's innovative products, systems, and solutions available on the Serbian market—carefully chosen to support your creative and technical process in the 2026 edition of the [Saint-Gobain Architecture Student Contest](#). While this book is **an optional resource**, it aims to inspire and inform your approach to sustainable architecture through practical examples of materials that combine performance, aesthetics, and environmental responsibility.

The Contest Task, set in the vibrant city of Belgrade, offers a unique opportunity to explore real-world design challenges through the lens of sustainable urban living. With a strong focus on thermal comfort, energy efficiency, acoustics, durability, and visual quality, the solutions featured here respond to key aspects of architectural sustainability—allowing you to create spaces that are not only functional and beautiful, but also responsible toward people and the planet.

The use of the solutions in this document is not mandatory. It remains at the discretion of competing teams, depending on their project and what they consider necessary to answer the Contest Task's requirements. Market availability in Serbia of the solutions used in the students' projects is not a requirement that will be evaluated by the jury at the National and International Stage.

However, we remind students that correct usage and mention of Saint-Gobain products and solutions in their project is evaluated during the National Stage. Solutions presented in this document are part of a broader Saint-Gobain portfolio, and students are allowed to use other Saint-Gobain solutions, if their usage in answer to the requirements of the Architecture Student Contest 2026 Contest Task is adequate.

By participating in this Contest, you are not only designing for today, but for the future. Take this opportunity to expand your understanding of sustainable construction and discover how innovative materials can help shape a more resilient and inspiring built environment. Together, we are **Making the World a Better Home**.

**MAKING  
THE WORLD  
A BETTER  
HOME**

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## Green roof solutions

Isover Green Roof Solutions offer an innovative approach to modern roofing by integrating thermal insulation with living vegetation layers. These systems go **beyond aesthetics**—while their visual appeal enhances the architectural character of a building, their real strength lies in their contribution to **sustainability, energy efficiency, and indoor thermal comfort**. Acting as a **passive design measure**, green roofs significantly reduce heat gain in summer and heat loss in winter, helping to lower energy consumption throughout the year.

Ideal for both residential and commercial buildings, Isover Green Roof Solutions support **biodiversity**, improve **rainwater management**, and extend the **lifespan of the roof structure**. For architects, they provide a multifunctional layer that combines technical performance with environmental responsibility and striking **design potential**. This chapter explores the key components, benefits, and applications of green roof systems, with a focus on how they align with energy-conscious and future-ready architecture.

# BLUE-GREEN INFRASTRUCTURE

Isover thinks about the environment

Blue-green infrastructure is a network of water and green features built in harmony with nature in developed areas. These elements are used in architecture and urban planning to address climate issues, retain water in cities and improve the climate. Their impact on the quality of the environment, the city and people's health is highly significant. Blue-green infrastructure includes water features for rainwater capture, management and treatment. Together with green elements, i.e. flora, it increases the diversity of animal and plant species, soil quality and groundwater status, reduces air pollution, improves the microclimate, reduces overheating and mitigates the risk of floods and extreme drought.

## Elements of blue-green infrastructure:

- Water areas – ponds, lakes, reservoirs, wetlands.
- Watercourses – rivers, streams, water canals.
- Retention basins, soakage areas.
- Green spaces – parks, trees, alleys, grass strips.
- Green roofs - extensive, intensive, biodiverse, etc.
- Blue Roofs.



## GREENERY IN ARCHITECTURE

Bosco Verticale (Vertical Gardens) is a residential project of two high-rise buildings in Milan, Italy. These are towers 110 and 80 metres tall that are meant to attract attention, but also to solve the problem of the lack of green spaces in cities.

The basic idea of the project is to replace the developed area with a much larger area of vegetation. Featuring 700 trees, 5,000 shrubs and over 10,000 smaller plants, it is the largest green wall project in the world. The buildings cool the surrounding environment, trap smog and create a suitable environment for many animals. This project has been acclaimed around the world and has inspired many other projects, such as the Wonderwoods in the Netherlands and the green skyscrapers in Nanjing, China.



# GREEN AND BLUE ISOVER ROOFS

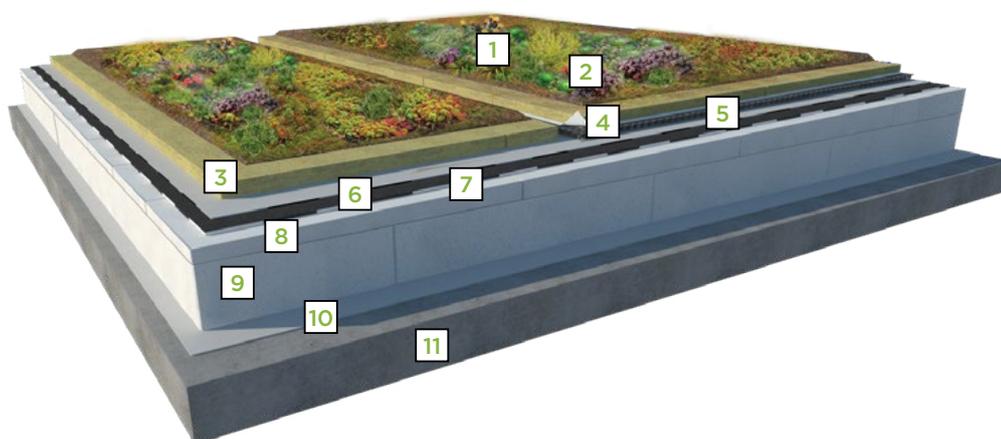
Basic division

## ISOVER ENERGY-EFFICIENT ROOF EXTENSIVE GREEN ROOF

1. Extensive vegetation - sedums, sempervivums, succulents
2. Extensive mineral substrate, 30 mm thick
3. Isover Flora hydrophilic panels, thickness 50 mm
4. Filter fabric, 120 g/m<sup>2</sup>  
(only used with dimpled membrane)
5. Drainage dimpled membrane (use depends on drainage capacity calculation)
6. Protective geotextiles, 300 g/m<sup>2</sup>
7. Waterproofing resistant to root penetration
8. Isover EPS 150 thermal insulation gradient wedges
9. Isover EPS 100 thermal insulation
10. Vapour barrier
11. Supporting roof structure

- + Rainwater retention
- + Most affordable
- + Easy implementation
- + Low maintenance
- + Low weight
- Limited choice of vegetation
- Can't be walked on at all times

The most common type of green roofs are compositions with low xerophytic vegetation. They are low maintenance and also the most affordable. Recommended plants include sedums, sempervivums and other plants that can tolerate extreme roof conditions. The appearance and colour of sedums changes throughout the year. This type of green roof retains more water than a roof without plants. It is also lightweight and suitable for the reconstruction of houses, pergolas, etc.



### ISOVER ROOF MEADOW SEMI-INTENSIVE GREEN ROOF

- + More diverse plant mix (grasses, herbs)
- + Can be regularly walked on
- + Can be combined with utility function (growing vegetables, herbs)
- More demanding maintenance
- Greater weight of vegetation layer



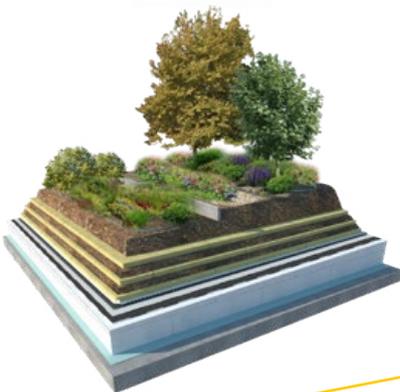
### ISOVER PITCHED ROOF EXTENSIVE GREEN PITCHED ROOF

- + Low maintenance
- + Low weight
- + For pitches up to 80°
- Anti-slide stabilisation required
- Drainage retarders required



### ISOVER ROOF GARDEN INTENSIVE GREEN ROOF

- + High plant diversity (lawn, shrubs, trees)
- + Significant aesthetic and architectural value
- + Space for relaxation and gathering
- Very demanding maintenance
- High demands on the load-bearing elements of the structure
- The most financially demanding



### ISOVER BLUE ROOF BLUE ROOF

- + Ability to retain rainwater
- + Affordable solution
- + Almost maintenance-free solution
- No aesthetic and ecological function
- Without some of the benefits of green roofs



# GREEN AND BLUE ISOVER ROOFS

Specific solutions

## PHOTOVOLTAIC PANELS ON A GREEN ROOF

- + Green roof reduces ambient temperature and dust
- + Photovoltaic panels have a significantly higher efficiency at lower temperatures
- + Different habitats have a positive impact on biodiversity
- Implementation costs
- Higher requirements for the load-bearing capacity of thermal insulation



## BIODIVERSE GREEN ROOF

- + Close connection with nature
- + Diverse environment suitable for many plants and animals
- + Low maintenance
- + Low implementation costs
- Locally higher loads on the structure
- Can be walked on only partially



## ISOVER ROOF POND

- + Distinctive architectural element
- + Water retention
- + Biodiversity - plant and animal species diversity
- High demands on implementation
- Demanding maintenance



# ISOVER HYDROPHILIC WOOL

Natural origin and connection with nature

The basic raw materials for the production of mineral wool are basalt and diabase, some of the most abundant rocks on Earth, which are formed by volcanic activity (past and present).

These rocks are melted in a furnace during the production process and the resulting lava is then pulped into a structure of fine fibres with diameters finer than a human hair. Nature offers an analogy to this production process, which is a precursor to soil formation.

At the sites of active volcanoes, one can encounter natural filamentous lava, e.g. in Hawaii, Pele's hair, where tufts of strands of igneous rock can reach up to two metres in length. However, the fibres formed in this way are without a binder, so the tufts do not hold their shape.

Thanks to the industrial addition of a binder, the fibres become a solid board that can be used in vegetation layers for green applications.



#### **Advantages of mineral wool over substrate:**

- + Higher hydroaccumulation capacity
- + Lower weight in dry state
- + Lower weight in wet state
- + Better thermal insulation properties

# ISOVER HYDROPHILIC WOOL

Natural origin and connection with nature

## ISOVER INTENSE



## ISOVER FLORA



### REINFORCED HYDROACCUMULATION PANELS

Reinforced hydroaccumulation panels used in applications with a greater vegetation layer thickness. Especially for intensive green roofs, where it is advantageous to layer these panels with mineral roofing substrates. They are also applied to places with higher traffic. Thanks to their greater hydroaccumulation, they are more suitable for pitched green roofs. It is delivered in bundles, bundles on pallets, but also the panels themselves on pallets.

| Thickness (mm) | Dimensions (mm) | Packaging (m <sup>2</sup> ) | Pallet (m <sup>2</sup> ) | Pallet (m <sup>2</sup> ) |
|----------------|-----------------|-----------------------------|--------------------------|--------------------------|
| 25             | 1200 × 1000     | -                           | 60                       | 1,50 <small>NEW</small>  |
| 50             | 600 × 1000      | 3,0                         | 30,00                    | 1,50                     |
| 100            | 600 × 1000      | 1,8                         | 14,40                    | 1.44                     |

### HYDROACCUMULATION PANELS

They are used for extensive and semi-intensive compositions of flat and pitched roofs as a partial substrate replacement. They are light and airy, which makes them easier to handle and transport than substrates. They are used in green roof compositions on new buildings, but are also suitable for renovations and hall buildings. They have a balanced ratio between hydroaccumulation and water permeability. This ensures that water drains away in the event of a large amount of water in the volume of the panels and prevents waterlogging of the composition. It is delivered in bundles, bundles on pallets, but also the panels themselves on pallets.

| Thickness (mm) | Dimensions (mm) | Packaging (m <sup>2</sup> ) | Pallet (m <sup>2</sup> ) | Pallet (m <sup>2</sup> ) |
|----------------|-----------------|-----------------------------|--------------------------|--------------------------|
| 30             | 600 × 1000      | 6.0                         | 48.0                     | 1.44 <small>NEW</small>  |
| 50             | 600 × 1000      | 4.8                         | 28.8                     | 1.44                     |
| 50             | 1000 × 1200     | -                           | 28.8                     | 1.44 <small>NEW</small>  |
| 100*           | 600 × 1000      | 2.4                         | 14.4                     | 1.44                     |
| 100*           | 1000 × 1200     | -                           | 14.4                     | 1.44 <small>NEW</small>  |

\* Non-standard product, delivery terms on request.

# REASONS TO CHOOSE ISOVER GREEN ROOF SOLUTIONS

## INCREASED AESTHETIC AND ARCHITECTURAL VALUE



View of greenery, higher property value, connection with nature

## HEAT ISLAND REDUCTION



Significant reduction in surface temperatures and less heat accumulation

## SOCIAL INTERACTION



Roof gardens as a space for meeting and relaxation

## RAINWATER MANAGEMENT



Local water retention, subsequent evaporation

## LOCAL ENVIRONMENT IMPROVEMENT



Diverse plant composition, smog trapping, photosynthesis

## IMPROVING INDOOR MICROCLIMATE



Increases thermal comfort indoors, prevents overheating of buildings

# REASONS TO CHOOSE ISOVER GREEN ROOF SOLUTIONS

## IMPROVED ACOUSTICS



Reduces environmental noise and contributes to acoustic comfort

## 4 TIMES BETTER INSULATION IN SUMMER AND WINTER



"Cool in summer, warm in winter."

## REDUCES OPERATING EXPENCES



Reduces air conditioning costs, increases the efficiency of photovoltaic panels, extends the life of the waterproofing

## 25% LIGHTER WHEN WET



Save on the supporting structure.

## 3 TIMES LIGHTER IN DRY STATE



You save on shipping and handling.

## RETAINS 35% MORE WATER



It does not require frequent irrigation and leaves more water in the landscape.

# REFERENCES



Production hall Brno  
real. 2020 | photo 2023



Preschool Prague  
real. 2019 | photo 2022



"Naše střecha", Jakub Cígler Architects, Prague  
real. 2019 | photo 2022



Warehouse Lithuania  
real. 2016 | photo 2018



Family house Prague  
real. 2016 | photo 2020



The oldest green roof ISOVER Brno  
real. 1995 | photo 2020



**Saint-Gobain CZ**  
<https://www.saint-gobain.cz/>

## NEED TO KNOW MORE?

**Have a question on the Architecture Student Contest 2026 Contest Task?**  
<https://architecture-student-contest.saint-gobain.com/faq-2026>

**Technical documents**  
[www.isover.cz/konstrukcni-detaily](http://www.isover.cz/konstrukcni-detaily)



SAINT-GOBAIN

## Ventilated facade systems and solutions for wet areas

Rigips Glasroc X is a high-performance, glass-reinforced plasterboard designed to meet the demanding requirements of **both interior and exterior applications**. Its core strength lies in its **moisture, mold and UV resistance**, making it an ideal solution for wet and humid environments such as **showers, pools, changing rooms, and laundry facilities**. Thanks to its durable construction and water-repellent properties, it maintains structural integrity and surface quality even in challenging conditions.

Although commonly used in interior wet areas, Glasroc X was primarily developed for use in **ETICS, ventilated facade systems and external ceiling constructions**. Its robust weather resistance and ease of installation make it an essential component in modern **facade** design, offering architects a reliable substrate that meets both performance and aesthetic standards. This chapter explores the properties, benefits, and typical applications of Glasroc X, highlighting its role in creating durable and resilient building envelopes.

# BOARD PROPERTIES



## GYPSUM BOARD FOR EXTERIOR APPLICATIONS

Rigips Glasroc® X is a high performance building board with a gypsum core containing special additives for moisture and mold resistance. Rigips Glasroc® X is reinforced with a glass-mat on both surfaces and finished with a UV resistant coating, providing outstanding performance in harsh and humid environments. This non-paper faced board is free from cellulose content, therefore has a strong inherent resistance to mold growth which is perfect for wet areas and high-humidity environments including exterior applications. Glass-mat liners are embedded within the gypsum core ensuring a strong bond with gypsum that creates a monolithic board of high strength and exceptional integrity.

Rigips Glasroc® X is an ideal substrate for ETICS (External Thermal Insulation Systems) or Direct Render application (also known as Direct Apply Systems). This high performance board can be used for areas requiring high protection against water penetration and it has been designed for external and internal applications. This board is a perfect solution for exterior ceilings, external walls systems, façade cladding systems and internal wet area partitions.

Glasroc® X has been tested with ETAG verification procedures drawn up by EOTA (European Organisation for Technical Assessment) and harmonised UNE standards for facade and exterior cladding and sheathing applications, while covering the requirements of the EN 15283-1 standard for CE marking, as summarised in the relevant declaration of performance.

| Specifications                    |                               | Value                  | Unit                  |
|-----------------------------------|-------------------------------|------------------------|-----------------------|
| Board classification (EN 15283-1) |                               | GM-H1                  |                       |
| Thickness                         |                               | 12,5                   | mm                    |
| Width                             |                               | 1200                   | mm                    |
| Standard length                   |                               | 2400, 3000             | mm                    |
| Weight                            |                               | 10,9                   | kg/m <sup>2</sup>     |
| Total water absorption (EN 520)   |                               | ≤ 5 (H1)               | %                     |
| Surface water absorption (EN 520) |                               | < 45                   | g/m <sup>2</sup>      |
| Mould resistant (ASTM D3273)      |                               | 10 (No mould)          | -                     |
| UV resistant                      |                               | 12                     | months                |
| Dimensional stability             | Thermal expansion (EN 14581)  | 0,8 x 10 <sup>-5</sup> | OC <sup>-1</sup>      |
|                                   | Moisture expansion (EN 12467) | 0,005                  | mm/m·1%RH (30-90 %RH) |
| Flexural strength                 | Longitudinal                  | ≥ 540                  | N                     |
|                                   | Transversal                   | ≥ 210                  | N                     |
| Minimum bending radius            |                               | 1,5                    | m                     |
| Thermal conductivity λ            |                               | 0,1865                 | W/mK                  |
| Vapour diffusion μ                |                               | 18,2                   | -                     |
| Fire reaction (EN 13501-1)        |                               | A1                     | -                     |

# EXTERIOR APPLICATIONS



## EXTERNAL CEILINGS

Semi-exposed ceiling  
areas above balconies



## BALCONIES

Wall linings for balconies  
and terraces



## FACADE

Wall linings for ventilated  
or non-ventilated facades



# EXTERIOR APPLICATIONS



## EAVES

Linings for eaves and soffits



## FASCIAS

Façade fronts



## ARCHES

Linings for curved surfaces such as arches and columns with minimum bending radius 1,5m

# REASONS TO CHOOSE RIGIPS GLASROC X

## EASY TO HANDLE



Higher labor productivity

- Faster installation
- Transport optimization
- Jobsite optimization

## LOW ENVIRONMENTAL IMPACT



Improving comfort

- Better acoustic insulation
- Better thermal insulation
- ... both with less thickness and weight

## WATER AND MOULD RESISTANCE



Surface absorption <math>< 45\text{g}/\text{m}^2</math>;  
Total absorption <math>< 5\%</math>

## HYGROTHERMAL



Hygrothermal behavior  
-20°C to +70°C

## FLEXIBILITY



## HIGH LABOUR PRODUCTIVITY



## WEATHER BEHAVIOR / EXTERIOR APPLICATION



Watertightness: 1400 Pa;  
Airtightness: Class A4

## FIRE RESISTANCE



Reaction to fire: A1

## IMPACT RESISTANCE



ETAG 034 facades:  
Category I

## BETTER FOR THE PLANET



## DIMENSIONAL STABILITY



## ENERGY EFFICIENCY



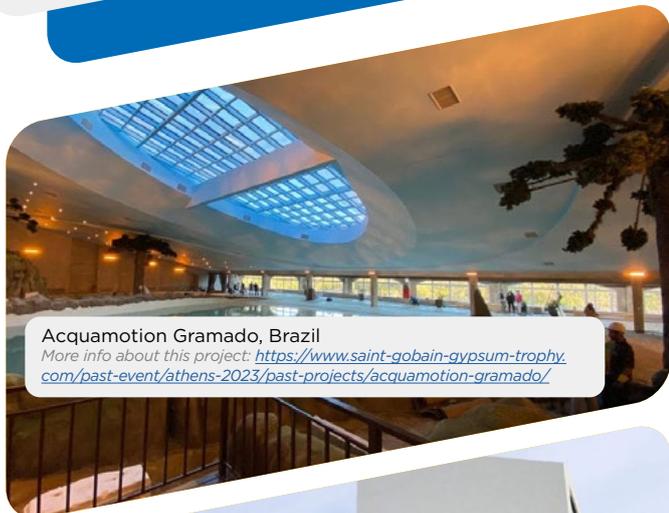
## EASY TO SCORE AND SNAP



## EASY TO SCREW FIX

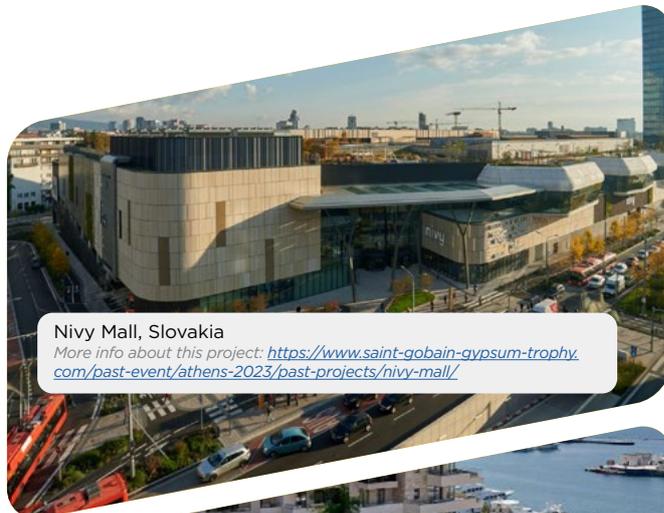


# REFERENCES



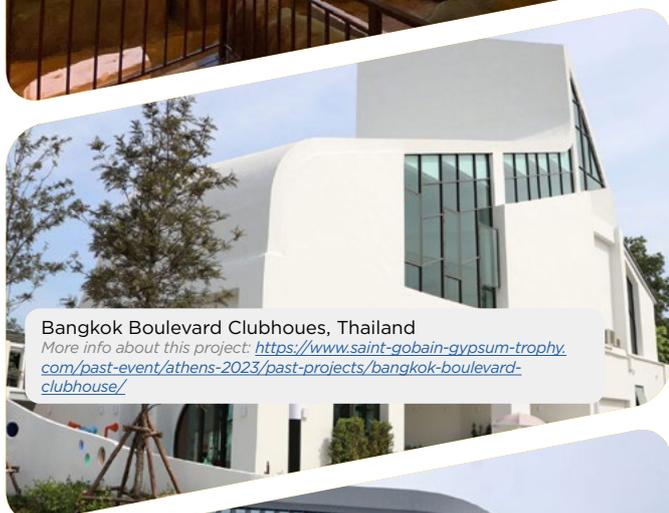
Acquamotion Gramado, Brazil

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/acquamotion-gramado/>



Nivy Mall, Slovakia

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/nivy-mall/>



Bangkok Boulevard Clubhouses, Thailand

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/bangkok-boulevard-clubhouse/>



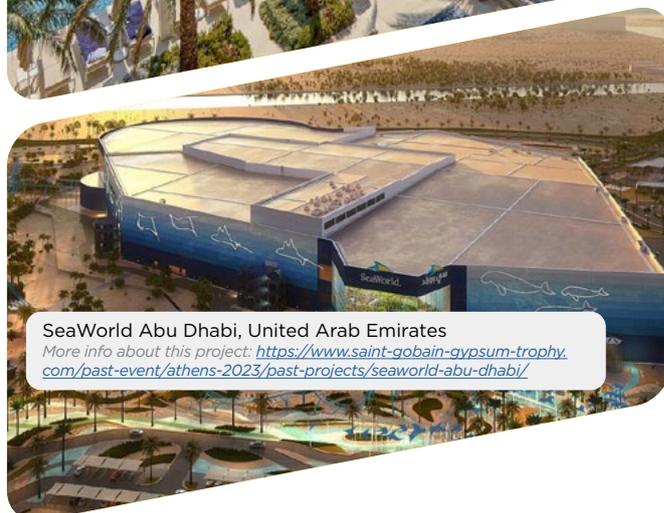
Regent Pool Club Residences (BAIA), Montenegro

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/digital-edition-2021/past-projects/regent-pool-club-residences-baia/>



Cardiff Interchange, United Kingdom

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/cardiff-interchange/>



SeaWorld Abu Dhabi, United Arab Emirates

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/seaworld-abu-dhabi/>



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## NEED TO KNOW MORE?



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<https://architecture-student-contest.saint-gobain.com/faq-2026>



**Technical documents**

<https://www.rigips.cz/produkty/glasroc-x/>



## ETICS systems

EnveoTherm ETICS (External Thermal Insulation Composite System) is a **high-performance facade insulation system** designed to significantly improve the **thermal efficiency** of buildings. As one of the key **passive measures** for enhancing **indoor comfort**, it **reduces energy demand** for heating and cooling while supporting **long-term sustainability goals**. **ETA-certified** and built to meet strict European quality standards, EnveoTherm contributes to both energy efficiency and occupant well-being in residential, commercial, and public buildings.

Beyond its technical benefits, EnveoTherm also offers remarkable **design flexibility**. With a wide range of **color nuances** and **surface finishes**, architects can explore creative facade expressions without compromising on performance. Whether aiming for minimalism or bold visual identity, the system allows for tailored aesthetic outcomes alongside robust thermal protection. This chapter introduces the principles, advantages, and creative potential of the EnveoTherm ETICS system as an essential tool in modern architecture.

# INNOVATION BACKED BY EXPERTISE



EnveoTherm builds on Saint-Gobain's decades of global experience and continuous innovation. Materials proven in countless projects, combined with advanced technologies, create a unique system designed to meet even the most demanding requirements.

EnveoTherm is a unique insulation system, composed of the highest quality formulas, which has stood up to the toughest tests. Its variability, durability and wide range of colours will immediately win your attention.



## Enveo Therm

### Recommended system components

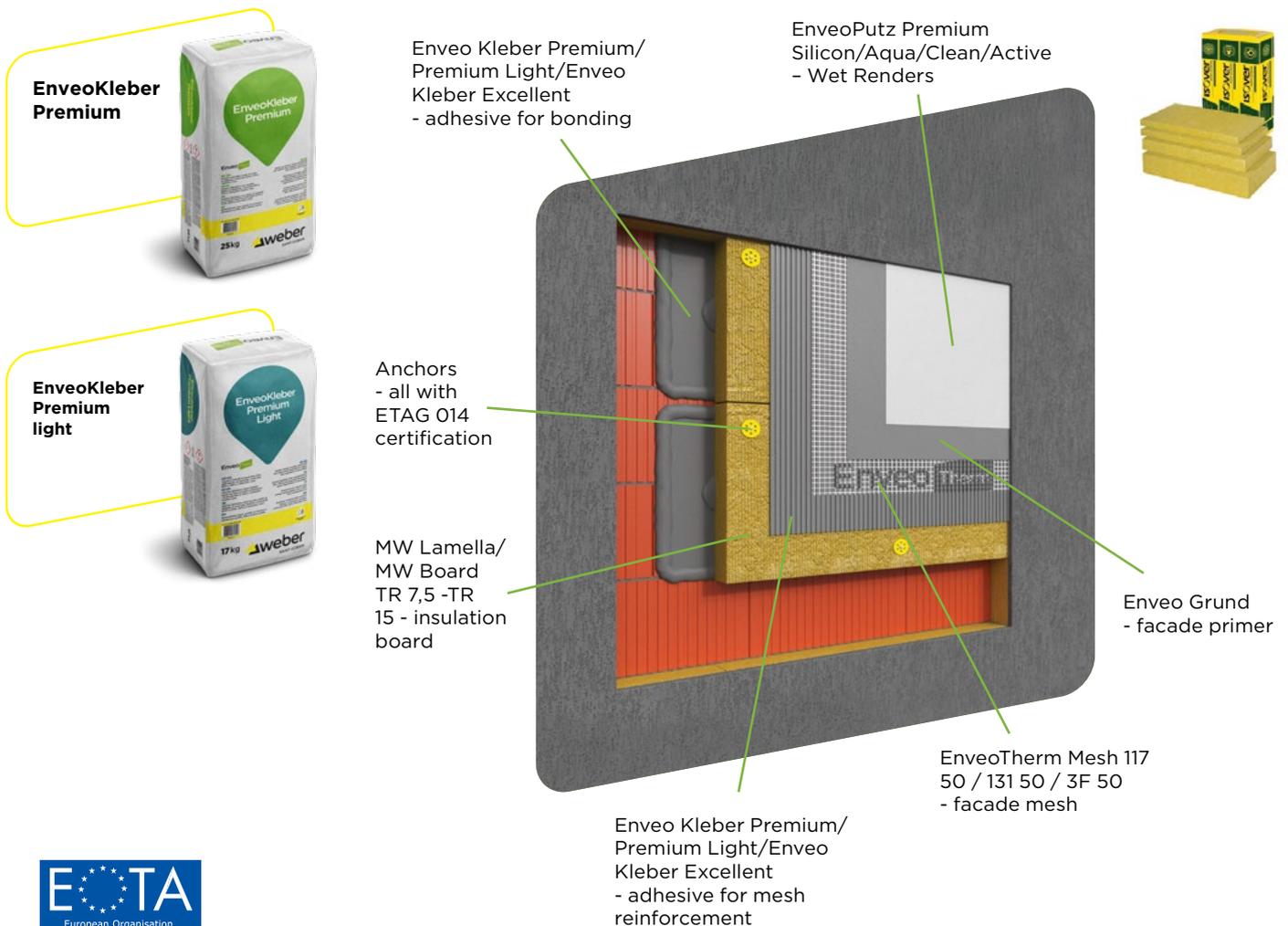
|         |                          | EnveoGrund | EnveoKleber<br>Excellent | EnveoKleber<br>Premium Light | EnveoKleber<br>Premium | EnveoPutz<br>Silicat | EnveoPutz<br>Silicon | EnveoPutz<br>Premium Silicon | EnveoPutz<br>Premium Clean | EnveoPutz<br>Premium Active | EnveoPutz<br>Premium Aqua |
|---------|--------------------------|------------|--------------------------|------------------------------|------------------------|----------------------|----------------------|------------------------------|----------------------------|-----------------------------|---------------------------|
| 24/0941 | Enveo therm Excellent    | ●          | ●                        |                              |                        | ●                    | ●                    |                              |                            |                             |                           |
| 24/0976 | Enveo therm Excellent MW | ●          | ●                        |                              |                        | ●                    | ●                    |                              |                            |                             |                           |
| 24/0978 | Enveo therm Premium      | ●          | ◐                        | ●                            | ●                      |                      |                      | ●                            | ●                          | ●                           | ●                         |
| 24/0979 | Enveo therm Premium MW   | ●          | ◐                        | ●                            | ●                      |                      |                      | ●                            | ●                          | ●                           | ●                         |



# ENVEOTHERM PREMIUM

Designed for demanding projects. The Premium system combines advanced technologies such as 3D Force mesh with improved workability, ensuring superior functionality and ease of application. Its wider range of product components enhances versatility, while the extended warranty of up to 15 years gives further assurance of its long-lasting performance.

## RECOMMENDED SYSTEM COMPONENTS



# ENVEOTHERM EXCELLENT

Built for **long-lasting durability** and **low maintenance costs**, it provides an economical solution with a warranty of up to 10 years (depending on project needs). The system's **wide range of color options** offers great design flexibility, while its innovative materials ensure exceptional reliability for years to come.

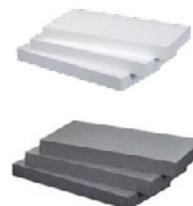
## RECOMMENDED SYSTEM COMPONENTS



**EnveoKleber  
Excellent**

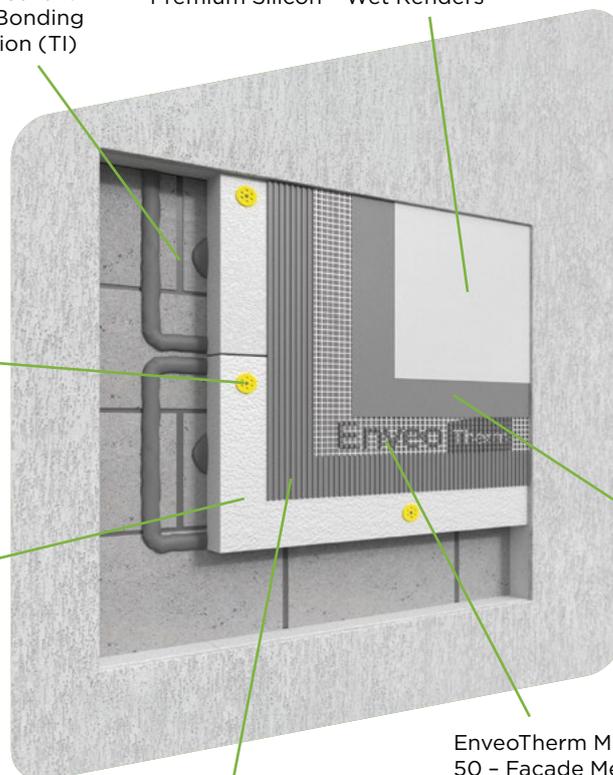
EnveoKleber Excellent  
- Adhesive for Bonding  
Thermal Insulation (TI)  
Boards

EnveoPutz Silicate/Silicon/Premium  
Clean/Premium Aqua / Premium Active /  
Premium Silicon - Wet Renders



ETAG 014  
- Anchor/  
Dowel

Type: EPS  
White /  
Graphite



Enveo Grund  
- Facade Primer

EnveoTherm Mesh 131  
50 - Facade Mesh

EnveoKleber Excellent  
- Adhesive for Reinforcing Mesh



# REASONS TO CHOOSE WEBER ENVEOTHERM ETICS SYSTEM

## DESIGN FREEDOM

Nearly 400 color shades and two plaster textures to match any architectural vision.

## TWO VARIANTS, ONE STANDARD OF QUALITY

Choose between Excellent and Premium. Each solution is designed to fulfill the unique demands of your project while upholding the highest standards.

## FOR BOTH NEW BUILDINGS AND RENOVATIONS

## LONG-LASTING PERFORMANCE WITH LOW MAINTENANCE

## ETA CERTIFIED FOR PERFORMANCE AND RELIABILITY

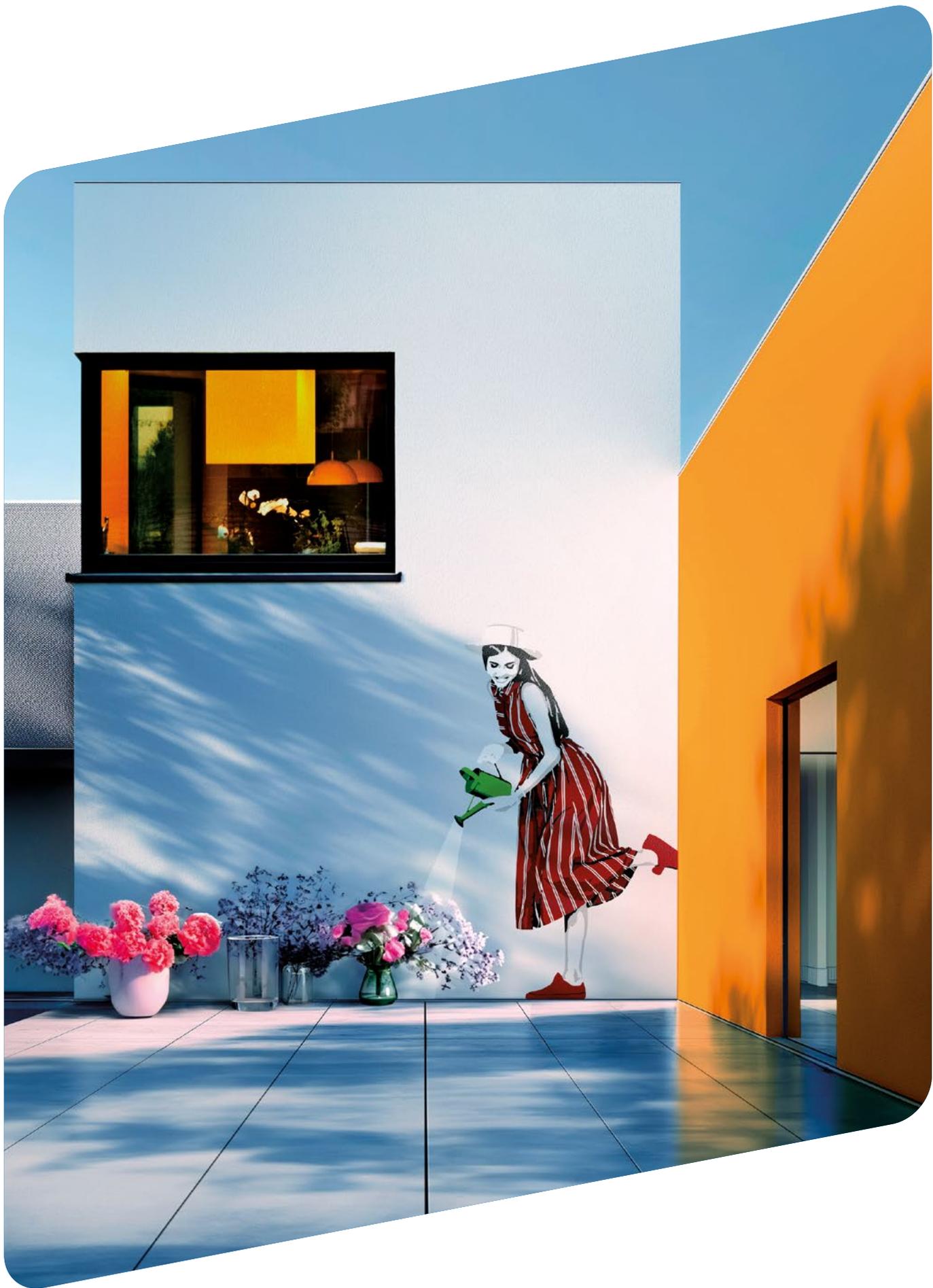


**Saint-Gobain SRB**  
<https://www.saint-gobain.rs/>

## NEED TO KNOW MORE?

 **Have a question on the Architecture Student Contest 2026 Contest Task?**  
<https://architecture-student-contest.saint-gobain.com/faq-2026>

 **Technical documents**  
<https://www.saint-gobain.rs/enveotherm>





## Technical Insulation

Climaver stands at the forefront of Isover's Technical Insulation portfolio as a groundbreaking solution for modern **HVAC systems**. As an **active measure** for ensuring **thermal comfort** and improving **indoor air quality**, Climaver combines **thermal insulation, air distribution, and acoustic performance** in a single, integrated duct system. It supports the creation of healthier indoor environments while significantly reducing energy losses—making it a smart choice for **sustainable** and energy-conscious building design.

Lightweight, easy to install, and highly efficient, Climaver replaces traditional sheet metal ducts with a more sustainable alternative that meets the highest standards of comfort and performance. Whether in commercial, public, or residential buildings, this innovative system helps architects and engineers design HVAC networks that are not only effective but also aligned with broader goals of energy efficiency and environmental responsibility. This chapter highlights Climaver's role in future-ready HVAC design and its contribution to the overall comfort and functionality of interior spaces.

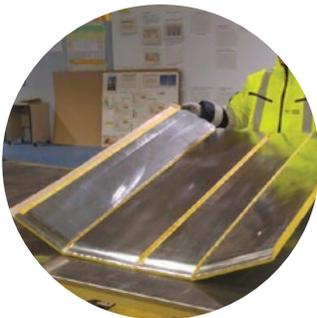
# OPTIMIZING VENTILATION & AIR-CONDITIONING SYSTEMS

Do you want to optimize your project by using the most efficient solutions for their ventilation and air conditioning systems?

- Increase the energy efficiency of buildings by offering best in class duct systems
- Reduce installation, operating and maintenance costs
- Provide the right amount of fresh air and ensure thermal and acoustic comfort for the occupants

## CHOOSE CLIMAVER®, YOUR ALL-INCLUSIVE DUCT SYSTEM

Made from dense and rigid glass wool boards, CLIMAVER® self-supporting air ducts are a cost-effective, easy-to-install alternative to traditional insulated metal ducts:



An all-in-one metal-free system, delivered flat on a pallet, and assembled in a single operation.



Duct sections are assembled easily, without the need for expensive machinery usually used on-site.



A shiplap on the edges ensures tight closure of the duct.

A unique product to replace metal ducts, providing state-of-the-art insulation and comfort.

Read more to find out how CLIMAVER® ductwork can make your buildings more cost-efficient, greener and safer...

# A COMPREHENSIVE RANGE TO MEET ALL YOUR NEEDS

Whether you are looking for maximum energy efficiency, enhanced noise reduction or extra fire protection, you'll find a pre-insulated duct solution tailored to your project.

| Product           | Specifically designed for            | Acoustic absorption | Thermal savings | Air-tightness | Thickness  |
|-------------------|--------------------------------------|---------------------|-----------------|---------------|------------|
| CLIMAVÉR® PLUS R  |                                      | *                   | **              | ***           | 25mm       |
| CLIMAVÉR® NETO    | Acoustics                            | **                  | **              | ***           | 25mm       |
| CLIMAVÉR® A2 PLUS |                                      | *                   | **              | ***           | 25mm       |
| CLIMAVÉR® A2 NETO | Acoustics                            | **                  | **              | ***           | 25mm       |
| CLIMAVÉR® A2 DECO | Aesthetics + acoustics               | **                  | **              | ***           | 25mm       |
| CLIMAVÉR® APTA    | Top class acoustics + energy savings | ***                 | ***             | ***           | 40/(50) mm |
| CLIMAVÉR® A2 APTA | Top class acoustics + energy savings | ***                 | ***             | ***           | 40mm       |
| CLIMAVÉR® A1 APTA | Top class acoustics + energy savings | ***                 | ***             | ***           | 40mm       |
| CLIMAVÉR® STAR    | Outdoor use + acoustics              | ***                 | ***             | ***           | 40mm       |

\* good \*\*better \*\*\*best



CLIMAVÉR® PLUS R  
CLIMAVÉR® A2 PLUS



CLIMAVÉR® NETO  
CLIMAVÉR® A2 NETO  
CLIMAVÉR® APTA  
CLIMAVÉR® A2 APTA  
CLIMAVÉR® A1 APTA



CLIMAVÉR® A2 DECO

## CLIMAVÉR® and BIM:

We provide BIM objects of different CLIMAVÉR® configurations, to facilitate the work of designers and specifiers on projects involving Building Information Modelling. The BIM objects are available for download in the [“Documentation” section of our website](#).

# REASONS TO CHOOSE CLIMAVER®



## REDUCE YOUR ENERGY BILL

To make your duct system as energy efficient as possible, you must take into consideration the thermal performance of your insulation material, potential thermal bridges and the airtightness of the duct system.

The all-inclusive CLIMAVER® solution

**Highest classification of airtightness (exceeding the most stringent airtightness classification)**



**Excellent thermal resistance**



**Reduced thermal bridges**

Reducing leakage means:

- Less heat loss.
- Less power for air handling unit (AHU) or ventilation machine needed to compensate for the effect of the leaks.
- Lower total airflow rates to and from unconditioned spaces.
- Optimized energy efficiency measures, including demand-control and heat recovery.
- The air needed to maintain the indoor environment at the desired temperature flows exactly where it is needed.
- The whole system can be precisely dimensioned.

**Energy used for heating & cooling is reduced by ~15%.**



## GET GREENER

CLIMAVER® provides various benefits to the environment across its entire lifecycle, lessening the impact from sourcing to manufacture, from distribution to end-of-life:

- CLIMAVER® helps save materials & resources
- CLIMAVER® drives energy efficiency
- CLIMAVER® limits waste generation
- CLIMAVER® reduces transport emissions

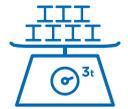
For a typical office building, the use of 1000m2 of CLIMAVER® instead of insulated metal duct would save the equivalent of:



**More than 36 years of driving 20km a day to work\***  
180,000 km travelled by car or 30 tons of CO2 emissions



**The electricity usage of 4,000 inhabitants for 24h\*\***  
215,000 MJ of electricity consumed over 25 years



**More than 3 tons of steel to install, insulate and dismantle**



At ISOVER, we assess the environmental impacts of our products over their entire lifecycle (LCA - Life Cycle Assessment).

We also offer transparent information on their environmental performance to our customers by providing third-party verified Environmental Product Declarations. EPDs for CLIMAVER® are available [on our website](#).



CLIMAVER® contributes significantly to many aspects of LEED and other sustainability labels.

# REASONS TO CHOOSE CLIMAVER®



## ENGAGE FOR SAFER AND HEALTHIER MATERIALS

The health and safety of our customers is a top priority for us, not only for the building's occupants, but also during installation.

- **Providing fresh, clean air**

The indoor climate of the buildings is important for the wellbeing of its occupants. The best way to improve indoor air quality is to reduce pollution at source while improving ventilation and purifying the air. With CLIMAVER®, you can effortlessly carry fresh air inside **without having to worry about mould or bacteria** (EN 13403 for non-metallic ducts). CLIMAVER® also fulfills low emission requirements for buildings (according to EN ISO 16000-10:2006).



- **Working with a safe material**

CLIMAVER® ensures safe and comfortable installation. All ISOVER glass wool fibres are bio-soluble and exonerated from any classifications on carcinogenic, mutagenic, or toxic for reproduction criteria. CLIMAVER® is certified according to EUCEB and therefore complies with all EU regulatory requirements. CLIMAVER® is easy to handle thanks to its ergonomic product dimensions and **weight 50% lower** than a metal duct + insulation solution. The aluminium foil with its unique guiding lines improves installation productivity.



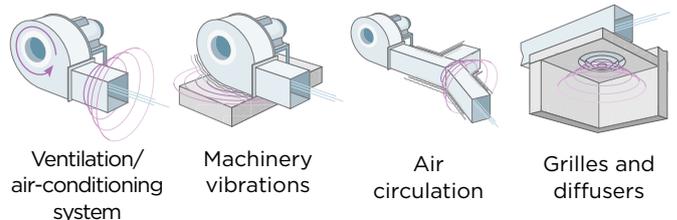
More than 2500 scientific publications have demonstrated that mineral wool fibres are safe to manufacture, install and live with. This has been recognised by health authorities at an international level e.g. REACH regulation.



## KEEP THE NOISE DOWN

Noise is recognised as an environmental pollutant that has a significant impact on our health and wellbeing. Ventilation and air-conditioning systems can be a source of noise and vibrations, either from the equipment itself or from the air flow circulating through the system.

Main sources of noise in a ventilation and/or air-conditioning system:



# REASONS TO CHOOSE CLIMAVER®



## ENSURE RELIABLE, LONG-TERM PERFORMANCE

As CLIMAVER® is made of glass wool, it could be perceived as fragile. However, CLIMAVER® is both robust and flexible, which means that it can withstand all kinds of mechanical stress.

- **Withstanding high pressure**

Be assured that your CLIMAVER® duct can withstand constant static pressure of up to 800 Pa and air-circulation up to 18m/s.

- **A robust system**

CLIMAVER® has been tested for the minimum required rigidity according to the EN 13403 method. It attains board stiffness Class R2 (Flexural rigidity  $Nmm^2 \geq 90,000$ ). Contrary to metal ducts, CLIMAVER® is not at risk of dents or damage on building sites.



## INCREASE YOUR SITE PRODUCTIVITY

Do you want to optimize your work, increase productivity and reduce installation times?

Choose CLIMAVER®, a single product that replaces the two traditional trades of metal ductwork and their insulation. Assembled in a single operation, it offers numerous installation benefits:

- Improves site productivity
- Greater flexibility
- Comfortable to install
- Optimizes logistics
- Limits waste generation
- Reduces noise disturbance on building sites.

With our exclusive leaning shiplap, you can further optimize the performance of your ductwork:

- Improve airtightness & reduce pressure loss
- Enhance aesthetics
- Obtain stronger, more precise jointing
- Choose your configuration, including complex shapes
- Connect to any HVAC standard equipment

# REASONS TO CHOOSE CLIMAVER®



## MINIMISE MAINTENANCE

We know that it is important for your ventilation to work efficiently over time. Our design teams have therefore worked hard to ensure all CLIMAVER® products are easy to clean without compromising their original properties.

The internal coatings of the CLIMAVER® range provide the mechanical resistance needed to clean air conditioning systems, even with nylon brushes, without causing damage or requiring post-cleaning treatments. This durability also reduces the frequency of cleaning access. This has been certified by AELSA, the Spanish association of duct cleaning companies.

**CLIMAVER® ducts retain all their acoustic, thermal and fire protection properties over the whole lifetime of the system.**



## ENSURE FIRE SAFETY

The consequences of fire breaking out and spreading are of serious concern for property owners and occupants everywhere.

| Product CLIMAVER®                  | Class     | Reaction to fire                             | Flashover           | Smoke and droplets   |
|------------------------------------|-----------|--|---------------------|--|
| A1 APTA                            | A1        | No contribution to a fire                    | No                  | None   |
| A2 PLUS, A2 NETO, A2 DECO, A2 APTA | A2, s1-d0 | No significant contribution to fire growth   | No                  | Insignificant smoke release with no flaming droplets or particles expected                       |
| PLUS R, NETO, APTA, STAR           | B, s1-d0  | No significant contribution to fire growth   | No                  | Insignificant smoke release with no flaming droplets or particles expected                       |
| -                                  | C         | Limited contribution to flashover            | Flashover >10 min   | Production of smoke & flaming droplets & particles   |
| -                                  | D         | Contribution to flashover                    | Flashover 2<>10 min | Production of smoke & flaming droplets & particles   |
| -                                  | E         | Significant contribution to flashover        | Flashover <2 min    | Production of smoke & flaming droplets & particles (smoke release is expected to be substantial) |
| -                                  | F         | Not tested or incapable of achieving Class E | NPD                 | NPD  |

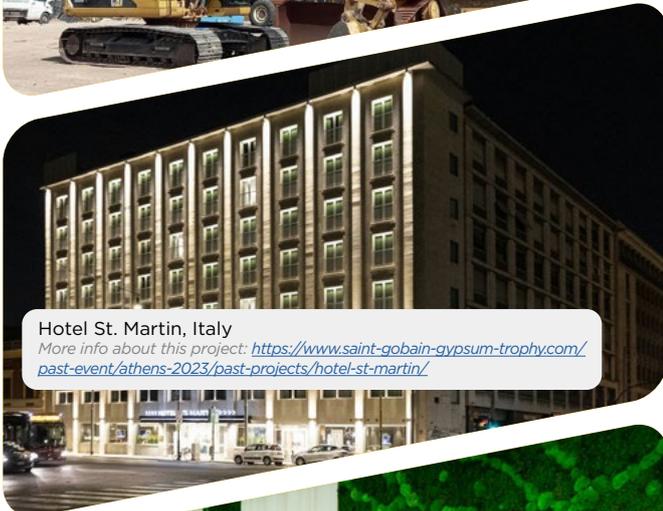
# REFERENCES



**Avatar, Argentina**  
More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/avatar/>



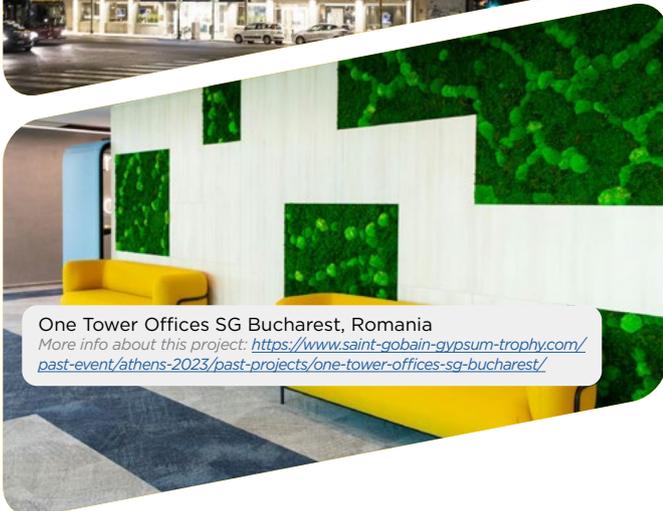
**Wangjing SOHO, China**  
More info about this project: <https://www.isover-technical-insulation.com/Reference-Projects/wangjing-soho>



**Hotel St. Martin, Italy**  
More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/hotel-st-martin/>



**National Grand Theater of China in Beijing, China**  
More info about this project: <https://www.isover-technical-insulation.com/Reference-Projects/national-grand-theater-china-beijing>



**One Tower Offices SG Bucharest, Romania**  
More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/one-tower-offices-sg-bucharest/>



**Hotel Carrasco, Uruguay**  
More info about this project: <https://www.isover-technical-insulation.com/Reference-Projects/hotel-carrasco>



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**i Technical documents**  
<https://www.isover-technical-insulation.com/>



# Impact-resistant and superior load-bearing drywall solutions

Rigips Habito is a next-generation plasterboard designed to combine **exceptional impact resistance with superior load-bearing capacity**. Its solid, reinforced core allows for the secure and **easy mounting of heavy items** directly onto the board without the need for special anchors or reinforcements. This makes it **the ideal choice for interiors where shelves, cabinets, gym equipment, or other wall-mounted elements are frequently installed or repositioned**.

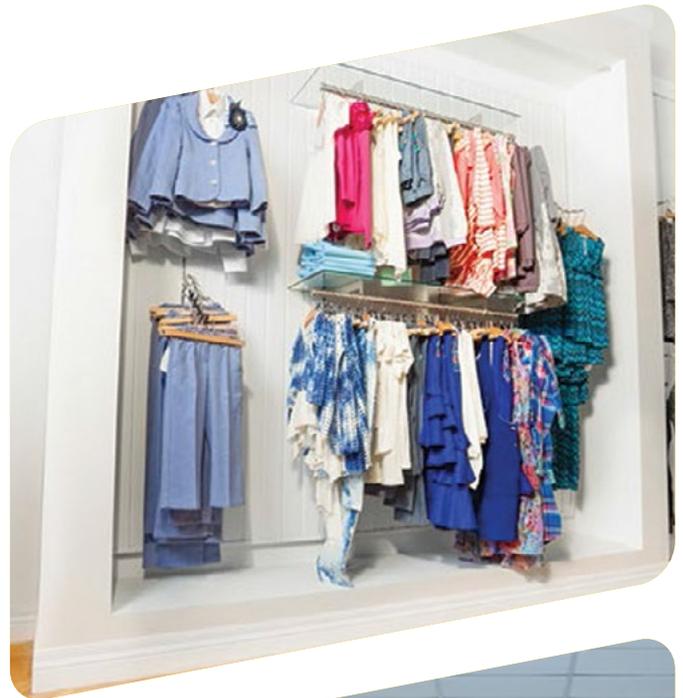
Thanks to its durability and flexibility, Habito is particularly **well-suited for rooms that undergo frequent functional changes** or are subject to high physical demands—such as **kitchens, storage areas, pantries, gyms, fitness centers, dining halls, and cafeterias**. In these environments, Habito not only supports the practical needs of the space but also contributes to **long-term performance and reduced maintenance**. This chapter explores how Rigips Habito helps architects design interiors that are both robust and adaptable to change.



Rigips Habito board is a next generation plasterboard suited to all kinds of project requirements. It looks and handles like regular plasterboard, and has all of the speed and performance benefits expected from Rigips boards - but that's where the similarity ends. New patented technology and an exceptionally strong solid gypsum core has produced a board that not only has improved fixing strength but has a robust high strength, low maintenance surface that will take the knocks and bangs of everyday life - even in challenging environments. With Rigips Habito plasterboard you can fix and move shelves, cupboards, cabinets, medical equipment - so updating and restyling interior layouts as needs or fashions change is quick and easy.

## FIXABILITY

You can now fix heavy items directly into the board without using any specialist fixings or support. Rigips Habito makes fixing cupboards, TVs, hospital screens, equipment and everyday objects like fire extinguishers, frames, curtain poles etc, very simple and secure.



# REASONS TO CHOOSE RIGIPS HABITO

## EASY INSTALLATION



### DRYWALL SYSTEM BENEFITS

Rigips Habito boards can be handled just like standard boards. Despite their special gypsum core, they are easy to cut using a plasterboard saw or by double scoring with a sharp knife and snapping the board over a straight edge. To fix Habito boards directly into metal section, use Habito screws, specially designed for these board.

## BETTER ACOUSTICS



### DUE TO ITS IMPROVED CORE DENSITY

Habito's dense gypsum core and robust construction means it's great at cutting down unwanted sound from noisy activities or equipment in adjacent rooms or corridors - creating a relaxing environment for guests; helping patients to recover more quickly or simply making homes more comfortable.

## GREENER BUILDING



### CONTRIBUTING TOWARDS ACCREDITATION

Habito® has a number of EPD's (Environmental Product Declaration) available from various plants and these reports will continue to be created in order to meeting the demands of green building accreditation. Saint-Gobain completes these reports from "Cradle to Grave", which is more comprehensive than "Cradle to Gate".



## IMPROVED SAFETY



### BECAUSE OF BETTER FIRE RESISTANCE

The additional fire protection properties above standard board products enable the plasterboard to be used in partition, ceiling and steel encasement systems.

# REASONS TO CHOOSE RIGIPS HABITO

## INCREDIBLY STRONG



### DUE TO IMPROVED IMPACT RESISTANCE

Habito's patented technology and high strength solid core means it's very strong and much more resistant to damage from knocks and scrapes. Everyday impacts from children playing, wheelchairs and trolleys, guests suitcases and even general wear and tear - can take it all in its stride. Rigips Habito boards require less maintenance and repair, saving time and money and keeping prestige interiors looking good for longer, creating healthier and more comfortable interiors, for its building occupants.

Habito has an outstanding impact-resistant properties, making it ideal to use a number of high traffic environments. Boards are tested for impact resistance in every production plant to ensure product quality remains the same globally, using severe duty classification based on BS 5234 and EN520 manufacturing standard.

## ROBUSTNESS



### DUE TO IMPROVED IMPACT RESISTANCE

The relevant standard for the testing and specification of partitions is BS 5234.

This standard covers the design, installation and performance of partitions, and allows the building designer to define the durability required. Duty ratings are a method of determining the robustness (or durability) of a non-loadbearing partition system and its suitability within a building. Racking resistance complies with EN 520 & EN 1380.

## BENDING RADIUS



### DUE TO DESIGN FLEXIBILITY

The achievable bend radius for Habito is 6 m, which is in line with other robust boards.

# REASONS TO CHOOSE RIGIPS HABITO

## ATTACK RESISTANCE



DUE TO IMPROVED IMPACT RESISTANCE

Habito can achieve Class 2 (RC2) Burglar Resistance.

The conformity has been established based on the assessment of the tests performed according to the basis in comparison with the NEN 5096: 2012.

It should be noted that the conformity assessment is a one-off assessment of the product described. Only when this conformity assessment is included in a SKG-IKOB KOMO certificate is the validity and compliance with laws and regulations monitored for standard and / or product changes.

Habito® systems are tough enough to have been approved by Secured By Design, a UK body which makes it a preferred system for party walls by Metropolitan police.

Habito® has achieved similar certifications in other regions. This now allows Habito® to be used throughout a construction and is more time and cost effective than alternative solutions for dividing wall construction. For areas of high security.

## USE IN WET AREAS



BECAUSE OF MOISTURE RESISTANCE

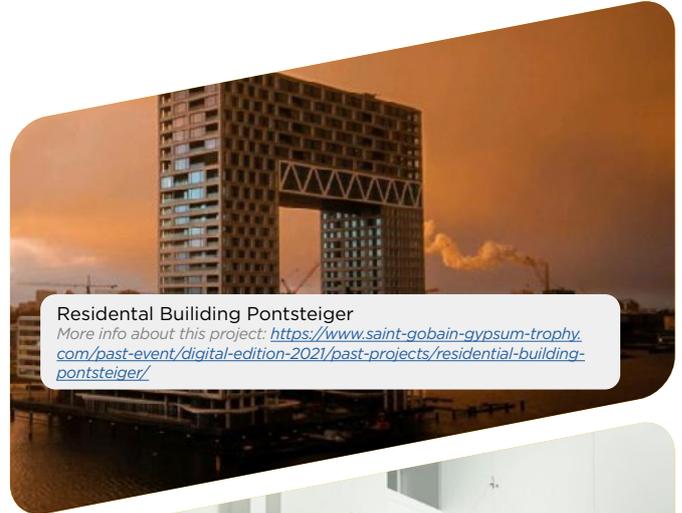
Enhanced plasterboard with water repellent additives in the core.

Recommended for use in intermittent moisture applications where additional performance is required such as in kitchen and bathroom walls and ceiling installations. It is also suitable for use in external soffits that are in sheltered positions.



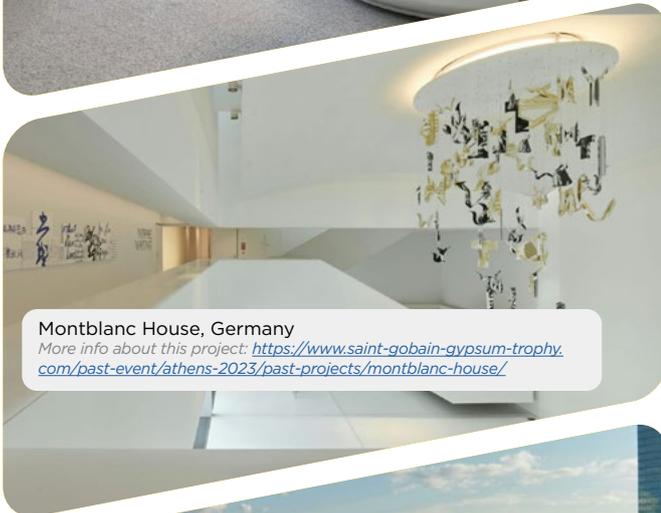
CBS International HQ, Serbia

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/cbs-international-hq/>



Residential Building Pontsteiger

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/digital-edition-2021/past-projects/residential-building-pontsteiger/>



Montblanc House, Germany

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/montblanc-house/>



La Rochelle Town Hall, France

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/la-rochelle-town-hall/>



Nivy Mall, Slovakia

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/nivy-mall/>



UAE Pavilion (Pearl Dome) EXPO 2020, United Arab Emirates

More info about this project: <https://www.saint-gobain-gypsum-trophy.com/past-event/athens-2023/past-projects/uae-pavilion-pearl-dome-expo-2020/>



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<https://architecture-student-contest.saint-gobain.com/faq-2026>



**Technical documents**

<https://www.rigips.hu/termekek/gipszkartonok-es-epitolemezek/habito-terhelheto-utesallo-tuzgatlo-epitolemez>



# Sound protection drywall systems

Rigips Duraline Blue is a specially engineered plasterboard that delivers outstanding **sound insulation and acoustic comfort**, making it an ideal solution **for spaces where peace and privacy are essential, keeping the low structural thickness**. With its high-density core, it effectively **reduces airborne noise**, creating a more comfortable environment in **sleeping areas, study rooms, medical spaces**, and other settings where focus and rest are key.

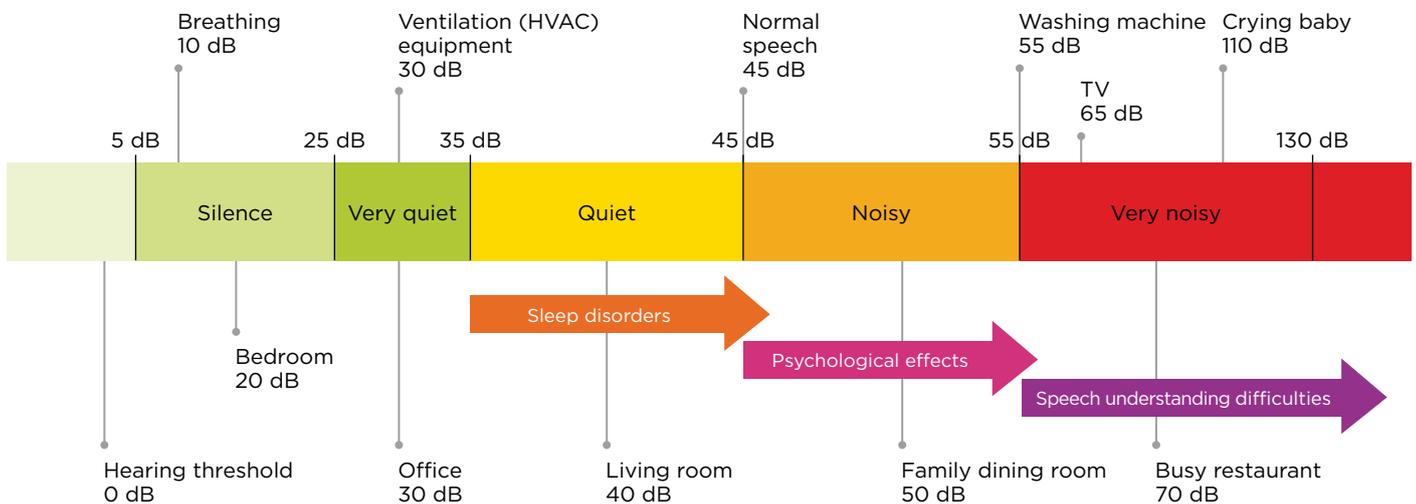
In addition to its acoustic performance, Duraline Blue is designed for **enhanced impact resistance**, allowing it to withstand the wear and tear of high-traffic areas. This makes it a reliable choice not only for quiet interiors but also for **corridors, schools, hospitals**, and other public or semi-public spaces **where durability is just as important as sound control**. This chapter introduces the unique features of Duraline Blue and its wide range of architectural applications aimed at improving both comfort and resilience in modern buildings.

# ACOUSTIC COMFORT

Acoustic comfort means low levels of noise. Higher levels of noise are harmful to our bodies. The human pain threshold is 140 decibels, higher noise levels can cause hearing impairment.

It is not just one-off exposures to high levels that can cause injury, but long-term exposure to a noisy environment as well.

## SOUND VOLUMES OF HUMAN ACTIVITIES AND LOUDNESS ZONES



Low noise levels within a room can be ensured by selecting the right soundproofing structures to prevent the propagation of unwanted ambient noise:

1. Silence zone: noise exposure up to 20 dB
2. Quiet zone: noise exposure up to 35 dB
3. Adequate zone: noise exposure up to 45 dB

Rigips® soundproofing plasterboard structures offer solutions for building a living and working environment with appropriate acoustic comfort.

## DURALINE BLUE DB AND DBI PLASTERBOARDS

The Duraline Blue soundproofing plasterboard is a state-of-the-art development by Rigips. By using Duraline Blue plasterboards, partition wall structures can provide a higher sound insulation value while maintaining the same structural thicknesses.

The **Duraline Blue DB** board is an excellent solution for the constructions of delimiting structures in offices, hotel rooms and apartments with increased comfort levels.

The **Duraline Blue DBI** plasterboard has been developed to provide a solution for structures with increased soundproofing and fireproofing requirements, **also in rooms with periodically high humidity**. For partition walls built with Duraline Blue DBI plasterboard, it is also possible to install larger tiles than previously allowed.

By using Duraline Blue plasterboards, the fire resistance limit of the structures is the same as those built with fire-retardant plasterboards.

# DURALINE BLUE DB

## DURALINE BLUE DB SOUNDPROOFING AND FIRE-RETARDANT PLASTERBOARD

The Duraline Blue DB plasterboard is an excellent solution for building structures with low structural thickness that have high soundproofing and fire-retardant characteristics.



### RECOMMENDED FIELDS OF APPLICATION:

- ✓ suspended ceilings, wall linings, partition walls in new apartments
- ✓ partition walls, suspended ceilings in renovated apartments
- ✓ partitions separating rooms, suspended ceilings, wall linings of hotel rooms
- ✓ increased sound-insulating and impact resistant structures of cultural institutions and commercial buildings

### TECHNICAL CHARACTERISTICS

#### DURALINE BLUE

|                            |                              |
|----------------------------|------------------------------|
| Applicable standard:       | MSZ EN 520                   |
| Allowed relative humidity: | up to 70%                    |
| Thickness:                 | 12.5 mm                      |
| Weight:                    | 12.2 kg/m <sup>2</sup>       |
| Thermal conductivity:      | 0.25 W/m.K                   |
| Maximum temperature:       | +50 °C                       |
| Reaction to fire class:    | (MSZ EN 13501-2)<br>A2-s1,d0 |
| Vapour resistance factor:  | (μ) 10                       |
| Type according to EN 520:  | DFRI                         |

# DURALINE BLUE IMPREGNATED DBI

## DURALINE BLUE IMPREGNATED DBI SOUNDPROOFING, FIRE-RETARDANT AND IMPREGNATED PLASTERBOARD

The Duraline Blue DBI plasterboard has been developed to provide a solution for structures with increased soundproofing and fireproofing requirements, also in rooms with periodically high humidity.



### RECOMMENDED FIELDS OF APPLICATION:

- ✓ bathroom construction in apartments:  
suspended ceilings, wall linings, partitions
- ✓ bathroom renovation: wall linings,  
suspended ceilings
- ✓ hotel bathrooms: partition walls,  
suspended ceilings
- ✓ cultural institution and commercial  
building restrooms
- ✓ hospital restrooms and showers

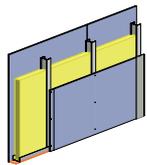
#### DURALINE BLUE DBI

|                            |                              |
|----------------------------|------------------------------|
| Applicable standard:       | MSZ EN 520                   |
| Allowed relative humidity: | up to 80%                    |
| Thickness:                 | 12.5 mm                      |
| Weight:                    | 12.2 kg/m <sup>2</sup>       |
| Thermal conductivity:      | 0.25 W/m.K                   |
| Maximum temperature:       | +50 °C                       |
| Reaction to fire class:    | (MSZ EN 13501-2)<br>A2-s1,d0 |
| Vapour resistance factor:  | (μ) 10                       |
| Surface water absorption:  | up to 180 g/m <sup>2</sup>   |
| Type according EN 520:     | DFRIH2                       |

## DURALINE PARTITIONS (SOUND INSULATION RESULTS ACCORDING TO THE STUDY)

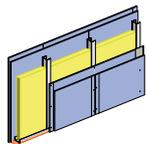
| Weighted sound reduction index: Rw | Short marking: Profile size/ wall thickness | Partition details: board type and thickness | Wall height if CW studs spacing: 60 cm field of application |        | Wall height in case of fire resistance [m]** | Reaction to fire class and fire resistance (in ETA) EI [min] | Insulation: thickness/type |      | System certificate according to ETA-17/0730 CODE | Sound insulation: Rw (Rw+C)*** according to MODO EXPERT STUDY [dB] | NR. in the study |
|------------------------------------|---|---|---|--------|--|--|----------------------------|------|--|--|------------------|
|                                    |   |   | I. m*   | II. m* |  |  | [mm]                       | type |  |  |                  |

### 46 - 56 dB PARTITIONS WITH ONE LAYER OF PLASTERBOARD ON A SIMPLE STUD. WALL WEIGHT APPROX. 26 KG/M<sup>2</sup>.



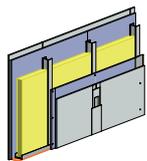
|            |                       |     |      |   |          |     |               |     |         |    |
|------------|-----------------------|-----|------|---|----------|-----|---------------|-----|---------|----|
| CW 50/75   | 2x Duraline Blue 12,5 | 3   | 2,75 | 3 | A2 EI 30 | 50  | Isover Akusto | A6  | 46 (41) | 1. |
| CW 75/100  | 2x Duraline Blue 12,5 | 4,5 | 3,75 | 3 | A2 EI 30 | 50  | Isover Akusto | A22 | 54 (49) | 2. |
| CW 100/125 | 2x Duraline Blue 12,5 | 5   | 4,25 | 3 | A2 EI 30 | 100 | Isover Akusto | A41 | 56 (52) | 3. |

### 59 - 68 dB PARTITIONS WITH TWO LAYERS OF BLUE ACOUSTIC PLASTERBOARD ON A SIMPLE STUD. WALL WEIGHT APPROX. 60 KG/M<sup>2</sup>.



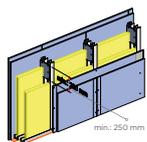
|            |                        |     |      |   |          |     |               |     |         |    |
|------------|------------------------|-----|------|---|----------|-----|---------------|-----|---------|----|
| CW 50/100  | 2x2 Duraline Blue 12,5 | 4   | 3,5  | 4 | A2 EI 90 | 50  | Isover Akusto | B6  | 59 (55) | 4. |
| CW 75/125  | 2x2 Duraline Blue 12,6 | 5,5 | 5    | 4 | A2 EI 90 | 75  | Isover Akusto | B26 | 64 (61) | 5. |
| CW 100/150 | 2x2 Duraline Blue 12,7 | 6,5 | 5,75 | 4 | A2 EI 90 | 100 | Isover Akusto | B47 | 68 (65) | 6. |

### 56 - 62 dB PARTITIONS WITH TWO LAYERS OF PLASTERBOARD (NORMAL + BLUE ACOUSTIC) ON A SIMPLE STUD. WALL WEIGHT APPROX. 60 KG/M<sup>2</sup>.



|            |                                    |     |      |   |          |     |               |     |         |    |
|------------|------------------------------------|-----|------|---|----------|-----|---------------|-----|---------|----|
| CW 50/100  | 2x (RB 12,5 + Duraline Blue 12,5)" | 4   | 3,5  |   |          | 50  | Isover Akusto |     | 56 (52) | 7. |
| CW 75/125  | 2x (RB 12,5 + Duraline Blue 12,5)  | 5,5 | 5    | 3 | A2 EI 60 | 75  | Isover Akusto | B25 | 59 (56) | 8. |
| CW 100/150 | 2x (RB 12,5 + Duraline Blue 12,5)  | 6,5 | 5,75 |   |          | 100 | Isover Akusto |     | 62 (60) | 9. |

### 68 - 76 dB PARTITIONS WITH TWO LAYERS OF BLUE ACOUSTIC PLASTERBOARD ON A DOUBLE STUD. WALL WEIGHT APPROX. 60 KG/M<sup>2</sup>. THE DOUBLE STUD FRAME IS FASTENED WITH PLASTERBOARD FIXING STRAPS.



|              |                        |     |     |   |          |       |               |     |         |     |
|--------------|------------------------|-----|-----|---|----------|-------|---------------|-----|---------|-----|
| CW 50+50/-   | 2x2 Duraline Blue 12,5 | 4,5 | 4   | 3 | A2 EI 90 | 2x50  | Isover Akusto | E7  | 68 (65) | 10. |
| CW 75+75/-   | 2x2 Duraline Blue 12,5 | 6   | 5,5 | 3 | A2 EI 90 | 2x75  | Isover Akusto | E13 | 74 (71) | 11. |
| CW 100+100/- | 2x2 Duraline Blue 12,5 | 6,5 | 6   |   |          | 2x100 | Isover Akusto |     | 76 (74) | 12. |

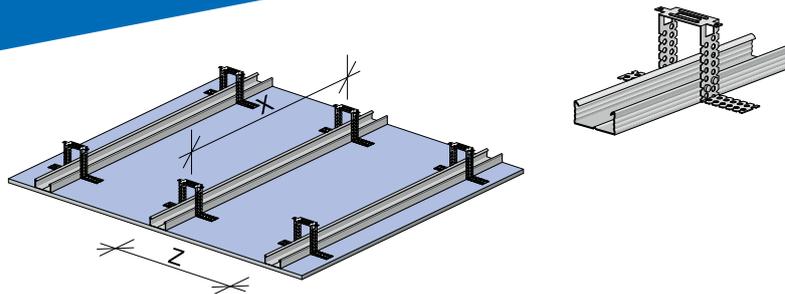
\* Field of application I: Low occupancy spaces, e.g. apartments, offices, hospitals, including corridors.

Field of application II: Higher occupancy spaces, e.g. meeting rooms, school rooms, auditoriums, exhibition and conference venues. Also where the floor level difference between adjacent rooms is greater than 1 metre.

\*\* The wall height allowed for the specified fire resistance is based on European Technical Assessment ETA -17/0730.

\*\*\* C - spectrum adjustment factor - to be applied for the following noises and noise sources: normal residential use of apartment (speech, listening to music, children playing, etc.); medium and high speed rail traffic; road traffic on motorways.

# SUSPENDED CEILINGS WITH DURALINE BLUE BOARDS



The construction of suspended ceilings in bathrooms is becoming increasingly common. Our buildings are expected to meet higher standards than before.

The suspended ceiling space can be used to route cables, concealed lighting and has high quality acoustic performance to provide quiet environment.

## RIGIPS® SUSPENDED CEILINGS ON SINGLE PROFILE

- ✓ can be installed with small suspension depth
- ✓ electrical wiring can be routed in the space above the suspended ceiling
- ✓ improves the sound insulation values of the ceiling
- ✓ suitable for installing concealed lighting
- ✓ can also be installed as decorative ceiling element

| Partition details:<br>board type and thickness | Profile type/size | Distance of CD studs:<br>Z | Spacing of supporting stud frame:<br>Y | Hanger type | Hanger spacing:<br>X | Mineral wool used – Isover Akusto: thickness | Reaction to fire class and fire resistance | Sound reduction index: Rw | Feasible max. suspension depth |
|--|-------------------|----------------------------|--|-------------|----------------------|--|--|---------------------------|--------------------------------|
| [mm]   | [mm]              | [mm]                       | [mm]                                   |             | [mm]                 | [mm]   | EI [min]                                   | [dB]                      | [mm]                           |

### RIGIPS® SUSPENDED CEILING MOUNTED ON SIMPLE STUD FRAME WITH STEEL BEAM OR REINFORCED CONCRETE CEILING

|                                 |          |     |   |               |      |    |           |                           |               |
|---------------------------------|----------|-----|---|---------------|------|----|-----------|---------------------------|---------------|
| Duraline Blue 12.5 <sup>a</sup> | CD 27/60 | 400 | - | direct hanger | 1000 | 50 | A2 REI 30 | 5 - 10 dB reduction value | <b>50-230</b> |
|---------------------------------|----------|-----|---|---------------|------|----|-----------|---------------------------|---------------|

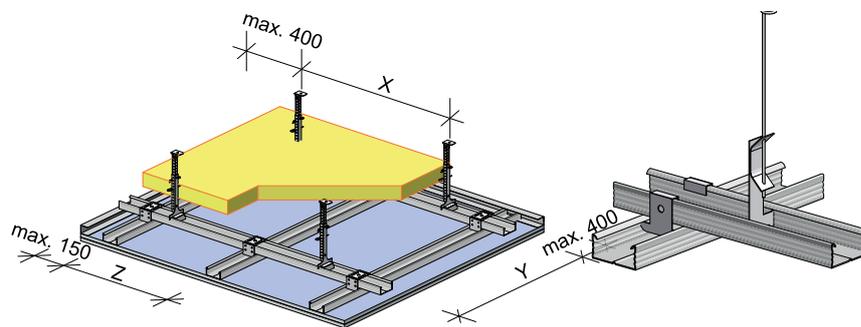
### RIGIPS® SUSPENDED CEILING MOUNTED ON SIMPLE STUD FRAME WITH WOOD, STEEL BEAM OR REINFORCED CONCRETE CEILING

|                    |          |     |   |               |      |      |           |                           |               |
|--------------------|----------|-----|---|---------------|------|------|-----------|---------------------------|---------------|
| Duraline Blue 12.5 | CD 27/60 | 400 | - | direct hanger | 1000 | 2x50 | A2 REI 30 | 5 - 10 dB reduction value | <b>50-230</b> |
|--------------------|----------|-----|---|---------------|------|------|-----------|---------------------------|---------------|

## dB TEST RESULTS

- a 59** ✓ Suspended ceiling on simple CD stud using direct hangers with **1 layer Duraline Blue 12.5** board and 50 mm Isover Akusto insulation, under 12 cm thick reinforced concrete ceiling has **Rw (Rw + C) = 59(57) dB** sound reduction value.
- b 60** ✓ Suspended ceiling on double CD stud using vernier hangers with **2 layer Duraline Blue 12.5** board and 50 mm Isover Akusto insulation, under 12 cm thick reinforced concrete ceiling has **Rw (Rw + C) = 60(59) dB** sound reduction value.

# SUSPENDED CEILINGS WITH DURALINE BLUE BOARDS



## RIGIPS® SUSPENDED CEILINGS ON DOUBLE PROFILE

- ✓ can be installed with high suspension depth
- ✓ the space above the suspended ceiling can be used for larger diameter cables, HVAC and mechanical equipment
- ✓ improves the sound insulation values of the ceiling
- ✓ suitable for installing concealed lighting
- ✓ can also be installed as decorative ceiling element

| Partition details:<br>board type and<br>thickness | Profile<br>type/size | Distance<br>of CD studs:<br>Z | Spacing of<br>supporting<br>stud frame:<br>Y | Hanger<br>type | Hanger<br>spacing:<br>X | Mineral<br>wool used –<br>Isover<br>Akusto:<br>thickness | Reaction to<br>fire class<br>and fire<br>resistance | Sound<br>reduction<br>index:<br>Rw | Feasible<br>max.<br>suspension<br>depth |
|---|----------------------|-------------------------------|--|----------------|-------------------------|--|---|------------------------------------|---|
| [mm]  | [mm]                 | [mm]                          | [mm]   |                | [mm]                    | [mm]   | EI [min]  | [dB]                               | [mm]                                    |

### RIGIPS® SUSPENDED CEILING MOUNTED ON DOUBLE STUD FRAME WITH STEEL BEAM OR REINFORCED CONCRETE CEILING

|                                     |          |     |      |         |     |    |           |                            |                 |
|-------------------------------------|----------|-----|------|---------|-----|----|-----------|----------------------------|-----------------|
| Duraline Blue 12.5                  | CD 27/60 | 400 | 1000 | vernier | 850 | 50 | A2 REI 30 | 12 - 15 dB reduction value | <b>150-3000</b> |
| 2 x Duraline Blue 12.5 <sup>P</sup> | CD 27/60 | 400 | 1000 | vernier | 750 | 50 | A2 REI 60 | 12 - 15 dB reduction value | <b>150-3000</b> |

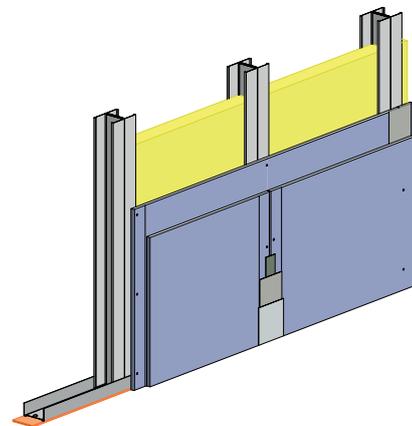
## **dB** TEST RESULTS

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- b 60** ✓ Suspended ceiling on double CD stud using vernier hangers with **2 layer Duraline Blue 12.5** board and 50 mm Isover Akusto insulation, under 12 cm thick reinforced concrete ceiling has **Rw (Rw + C) = 60(59) dB** sound reduction value.

# SHAFT WALLS AND WALL LININGS WITH DURALINE BLUE BOARDS

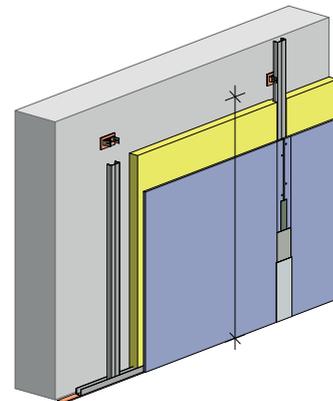
## SHAFT WALL

- ✓ single-sided installation, mainly for fire protection purposes of machinery shafts
- ✓ has independent sound insulation value
- ✓ can be installed up to a height of 6 metres
- ✓ the vertical CW profiles are bolted together for installation
- ✓ suitable for cladding/tiling



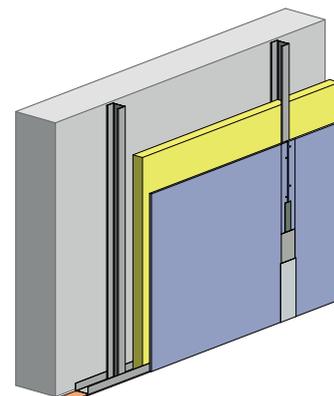
## WALL LINING WITH ADJUSTABLE BRACKETS AND CD PROFILE

- ✓ dependant structure
- ✓ the application enables good sound insulation improvement with low structural thickness (12-15 dB)
- ✓ the adjustable brackets are fastened to the wall structure with 900 mm spacing



## INDEPENDENT WALL LINING

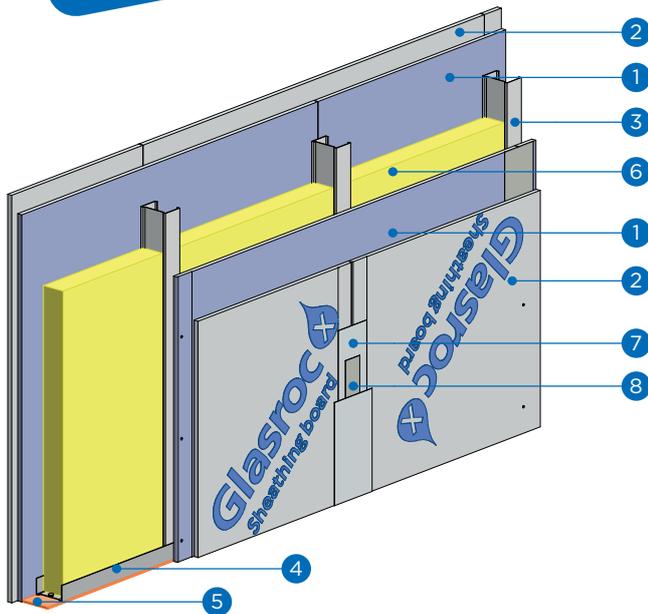
- ✓ the application enables good sound insulation improvement (12-15 dB)
- ✓ versatile application in renovations
- ✓ storage space can be built when constructed till half-height



# DURALINE BLUE AND GLASROC X PARTITION WALLS

REACTION TO FIRE:  
A1

FIRE RESISTANCE:  
EI 120



**A1 EI 120**  
FEASIBLE WALL HEIGHT 4 METRES

### Legend

1. Duraline Blue DB plasterboard
2. Glasroc® X sheathing board
3. R-CW 75 Rigiprofil
4. R-UW 75 Rigiprofil
5. Acoustic tape for profile
6. Mineral wool insulation
7. Vario joint filler
8. Jointing reinforcement glass tape

## PARTITION INSTALLED ON SIMPLE PROFILE WITH DURALINE BLUE DB PLASTERBOARD AND GLASROC® X SHEATHING BOARD / REACTION TO FIRE: A1

| Short marking:<br>Profile size/wall<br>thickness | Partition details:<br>board type and thickness | Distance of<br>CW studs | Wall<br>height | Fire<br>resistance | Insulation:<br>thickness/type |               | Sound<br>insulation: |
|--|--|-------------------------|----------------|--------------------|-------------------------------|---------------|----------------------|
|  |  |                         |                |                    | [mm]                          | típus         |                      |
| [mm]   | [mm]   | [mm]                    | [m]            | EI [min]           | [mm]                          |               | Rw(Rw+C)             |
| <b>CW 75/125</b>                                 | 2 x (Duraline Blue DB 12.5 + Glasroc® X 12.5)  | 300                     | 7              | EI 30              | 75                            | Isover Akusto | -                    |
| <b>CW 75/125</b>                                 | 2 x (Duraline Blue DB 12.5 + Glasroc® X 12.5)  | 600                     | 5              | EI 90              | 75                            | Isover Akusto | 56 (52)              |
| <b>CW 75/125</b>                                 | 2 x (Duraline Blue DB 12.5 + Glasroc® X 12.5)  | 600                     | 4              | EI 120             | 75                            | Isover Akusto | 56 (52)              |

## DURALINE BLUE DB AND GLASROC® X COMPONENTS



Duraline Blue DB  
plasterboard

Glasroc® X  
sheathing board

Rigiprofil  
stud frame:  
R-UW and R-CW

Vario  
joint filler

Jointing  
reinforcement  
glass tape

Acoustic tape  
for profile

HartFix  
screws

Nail  
dowel

# REASONS TO CHOOSE RIGIPS DURALINE BLUE PLASTERBOARDS

## SOUND PROTECTION



Excellent acoustic performance with low structural thickness, reducing noise transmission between rooms - ideal for offices, homes and hotels.

## MOISTURE RESISTANCE



Special additives provide limited water resistance, allowing use in areas with occasional humidity like kitchens and utility rooms.

## EASY TO WORK WITH



Despite its enhanced performance, Rigips Duraline Blue can be cut, screwed, and installed using standard drywall techniques.

## ENVIRONMENTALLY FRIENDLY



Made with sustainable processes and materials, meeting environmental certification standards.

## ENHANCED FIRE RESISTANCE



Certified as a fire-resistant board, helping to slow the spread of fire in buildings.



**Saint-Gobain HU**

<https://www.saint-gobain.hu/>

## NEED TO KNOW MORE?



**Have a question on the Architecture Student Contest 2026 Contest Task?**

<https://architecture-student-contest.saint-gobain.com/faq-2026>



**Technical documents**

<https://www.rigips.hu/>

GATE: 01 Frösundavik, Stockholm, Sweden

Photo by: ©Lasse Olsson Foto

More info about this project: <https://www.saint-gobain-glass.com/GATE-FROSUNDAVIK>



# Saint-Gobain Glass

Saint-Gobain Glass solutions are designed to elevate both the **functional and aesthetic quality** of interior spaces. By ensuring optimal **thermal balance and abundant natural daylight**, these glazing systems play a vital role in creating comfortable, **energy-efficient environments**. They help maintain stable indoor temperatures throughout the year, **reducing the need for artificial heating or cooling** and thus contributing to **lower energy consumption**.

At the same time, Saint-Gobain Glass enhances **visual comfort**—flooding interiors with soft, natural light while preserving clear, **beautiful views of the surroundings**. With a wide range of coatings, finishes, and performance options, these glass solutions combine technical excellence with high aesthetic value. Whether used in residential, commercial, or public buildings, they allow architects to design bright, open, and sustainable spaces without compromise. This chapter explores how Saint-Gobain Glass supports both thermal performance and architectural vision.

# SAINT-GOBAIN GLASS

## OPTION 1



|   |  |
|---|--|
|    | <b>Glazing 1</b><br>PLANICLEAR (5mm) - Annealed<br>PVB SILENCE (0.76mm)<br>PLANICLEAR (5mm) - Annealed<br>COOL-LITE XTREME 61-29 |
|    | <b>Cavity 1</b><br>Argon 90% 16 mm<br>Swisspacer Ultimate Pro  |
|  | <b>Glazing 2</b><br>PLANICLEAR (6mm) - Annealed  |
|  | <b>Cavity 2</b><br>Argon 90% 16 mm<br>Swisspacer Ultimate Pro  |
|  | <b>Glazing 3</b><br>PLANITHERM XN<br>PLANICLEAR (4mm) - Annealed<br>PVB SILENCE (0.76mm)<br>PLANICLEAR (4mm) - Annealed          |

|      |         |       |    |     |
|------|---------|-------|----|-----|
| 53   | 0.25    | 12    | 49 | 0.5 |
| TL % | g-value | RL2 % | Rw | Ug  |

## OPTION 2



|   |  |
|---|--|
|    | <b>Glazing 1</b><br>DIAMANT (5mm) - Annealed<br>PVB SILENCE (0.76mm)<br>DIAMANT (5mm) - Annealed<br>COOL-LITE XTREME 70-33 |
|    | <b>Cavity 1</b><br>Argon 90% 16 mm<br>Swisspacer Ultimate Pro  |
|  | <b>Glazing 2</b><br>DIAMANT (6mm) - Annealed   |
|  | <b>Cavity 2</b><br>Argon 90% 16 mm<br>Swisspacer Ultimate Pro  |
|  | <b>Glazing 3</b><br>PLANITHERM XN<br>DIAMANT (4mm) - Annealed<br>PVB SILENCE (0.76mm)<br>DIAMANT (4mm) - Annealed          |

|      |         |       |    |     |
|------|---------|-------|----|-----|
| 64   | 0.30    | 13    | 49 | 0.5 |
| TL % | g-value | RL2 % | Rw | Ug  |

## OPTION 1

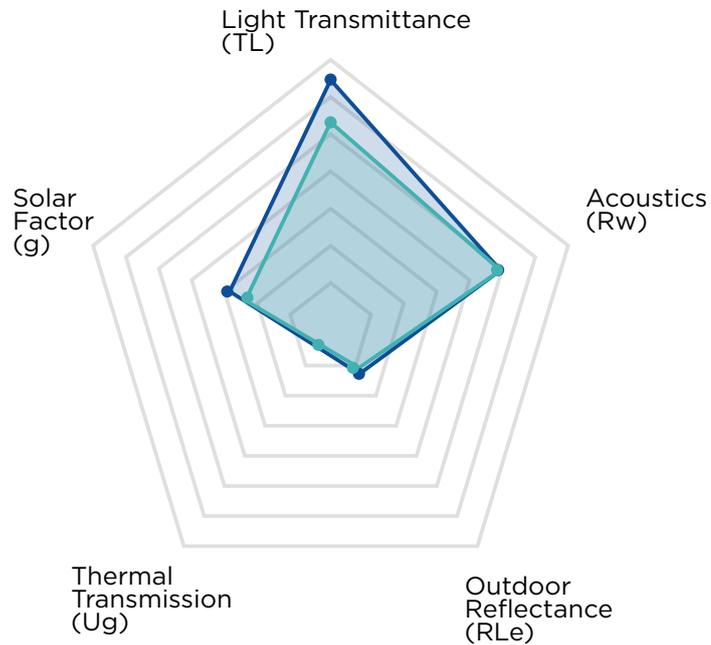
**55.2 SI (16 Argon 90) 6 (16 Argon 90) 44.2 SI [Swisspacer Ultimate Pro]**  
COOL-LITE XTREME 61-29 #4 / PLANITHERM XN #7

## OPTION 2

**55.2 DIAMANT SI (16 Argon 90) 6 DIAMANT (16 Argon 90)**  
**44.2 DIAMANT SI [Swisspacer Ultimate Pro]**  
COOL-LITE XTREME 70-33 #4 / PLANITHERM XN #7

# PERFORMANCES COMPARISON

Option 1 Option 2



 **Thermal Transmission - Ug** [W/(m2.K)]



 **Solar Factor - g-value**



 **Light Transmittance - TL** [%]



 **Acoustics - Rw** [dB]



# FULL PERFORMANCES REPORT

## OPTION 1

**55.2 SI (16 Argon 90) 6 (16 Argon 90)**  
**44.2 SI [Swisspacer Ultimate Pro]**

COOL-LITE XTREME 61-29 #4 /  
 PLANITHERM XN #7

## OPTION 2

**55.2 DIAMANT SI (16 Argon 90) 6**  
**DIAMANT (16 Argon 90) 44.2**  
**DIAMANT SI [Swisspacer Ultimate Pro]**

COOL-LITE XTREME 70-33 #4 /  
 PLANITHERM XN #7

|  | CIE015:2018   | CIE015:2018   |
|--|---|---|
| <b>LUMINOUS FACTORS</b>  |   |   |
| Light Transmittance (TL)   | 53 %  | 64 %  |
| Outdoor Reflectance (RLe)  | 12 %  | 13%   |
| Indoor Reflectance (RLi)   | 16 %  | 16 %  |
| <b>ENERGY FACTORS</b>  | <b>EN410:2011</b>   | <b>EN410:2011</b>   |
| Transmittance (TE)   | 22 %  | 26 %  |
| Outdoor Reflectance (Ree)  | 30 %  | 36 %  |
| Indoor Reflectance (Rei)   | 30 %  | 35 %  |
| Absorptance A1 (AE1)   | 45 %  | 35 %  |
| Absorptance A2 (AE2)   | 1 %   | 0 %   |
| Absorptance A3 (AE3)   | 3 %   | 3 %   |
| Absorptance A4 (AE4)   | %   | %   |
| <b>SOLAR FACTORS</b>   | <b>EN410:2011</b>   | <b>EN410:2011</b>   |
| Solar Factor (g)   | 0.25  | 0.30  |
| Shading Coefficient (SC)   | 0.29  | 0.34  |
| <b>THERMAL TRANSMISSION</b>  | <b>EN673:2011</b>   | <b>EN673:2011</b>   |
| Ug   | 0.5 W/(m2.K)  | 0.5 W/(m2.K)  |
| Angle relative to the vertical   | 0°  | 0°  |
| <b>ACOUSTICS</b>   | <b>EN 12758</b>   | <b>EN 12758</b>   |
| Rw   | Acoustic simulated values   | Acoustic simulated values   |
| Ra   | 49 (-2; -7) dB  | 49 (-2; -7) dB  |
| Ra, tr   | 47 dB   | 47 dB   |
| STC (ASTM E413)  | 42 dB   | 42 dB   |
| OITC (ASTM1332)  | 49  | 49  |
|  | 42  | 42  |
| <b>COLOR RENDERING</b>   | <b>CIE015:2018</b>  | <b>CIE015:2018</b>  |
| Transmission (Ra)  | 88.6  | 94.4  |
| Reflection (Ra)  | 87.8  | 89  |
| <b>SAFETY CLASS</b>  | <b>EN12600</b>  | <b>0.25</b>   |
| Pendulum Body Resistance   | 1B1/NPD/1B1   | 1B1/NPD/1B1   |
| <b>ANTI-BURGLARY</b>   | <b>EN356</b>  | <b>EN356</b>  |
| Burglar Resistance   | P2A/NPD/P2A   | P2A/NPD/P2A   |
| <b>MANUFACTURING SIZES</b>   |   |   |
| Nominal Thickness  | 57.5 mm   | 57.5 mm   |
| Weight   | 62 kg/m <sup>2</sup>  | 62 kg/m <sup>2</sup>  |
| <b>SUSTAINABILITY CARBON FOOTPRINT</b>   | The value is calculated regarding the composition computed based on the standard EN 15804+A2 (2019) | The value is calculated regarding the composition computed based on the standard EN 15804+A2 (2019) |
| Global Warming Potential (GWP) - A1-A3 (kg, CO <sub>2</sub> eq./m <sup>2</sup> ) | 105   | 109   |

# REASONS TO CHOOSE SAINT-GOBAIN GLASS

## EXCEPTIONAL COLOR NEUTRALITY

These premium glazings offer minimal color distortion, ensuring true-to-life views and design consistency.

## LOW SOLAR FACTOR FOR SOLAR CONTROL

It minimizes heat gain through glazing, reducing cooling loads while maintaining transparency and comfort.

## SUPERIOR DAYLIGHT ENHANCEMENT

High light transmittance maximizes natural daylight, reducing the need for artificial lighting and improving occupant well-being.

## OPTICAL AND AESTHETIC BRILLIANCE

Ultra-clear, low-iron Diamant glass ensures high visual clarity and a premium aesthetic finish for facades and interiors.

## OUTSTANDING THERMAL INSULATION

Cool-Lite Xtreme delivers ultra-low U-values, significantly improving energy efficiency in both summer and winter.

## HIGH LIGHT TRANSMITTANCE

Combining clarity with performance, these glazings allow high levels of daylight without compromising energy efficiency.

# REASONS TO CHOOSE SAINT-GOBAIN GLASS

## ENHANCED ACOUSTIC PERFORMANCE

Paired with acoustic interlayers, these glass types contribute to quieter indoor environments in urban settings.

## DESIGN VERSATILITY AND VISUAL UNIFORMITY

Their neutral appearance and high performance make them suitable for both modern and classic architectural styles.

## SUSTAINABILITY AND ENVIRONMENTAL CONTRIBUTION

Saint-Gobain glass supports green building certifications with high performance and low environmental impact.

## TRUSTED INNOVATION FROM A GLOBAL LEADER

Backed by Saint-Gobain's proven expertise and R&D, architects gain access to cutting-edge glazing technology.



**Saint-Gobain DE**

<https://www.saint-gobain.de/>

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**Technical documents**

<https://www.saint-gobain-glass.de/de>

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CONTEST