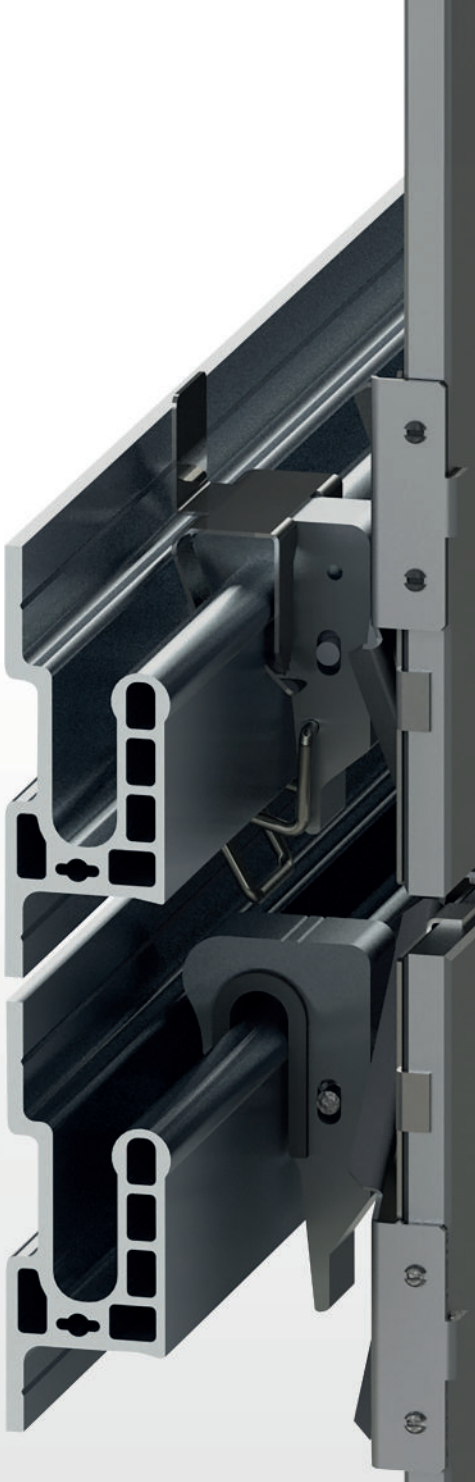
VARIANCE® C

GLASS CLADDING **SYSTEM**

SADEV

We Build the Invisible

Member of
SIMONSWERK GROUP



VARIANCE® C

VARIANCE®C is a glass cladding system designed for covering simple or complex facades, whether for new buildings or renovations.

INNOVATION PATENT

Variance is a patented system : patent n°FR3133870 and n°FR3128725 emphasizes the installation of photovoltaic glass, offering a very simple and efficient implementation on all types of new construction or renovated buildings.

SADEV is a **system designer** that applies a philosophy welcoming glass industry players aiming for **progress** and **ecological excellence**. The VARIANCE®C system is compatible with major players involved in low-carbon glass solutions (such as AGC with their low-carbon glass, GLASS PARTNERS SOLUTION with their new photovoltaic glass ColorBlast, or SAINT GOBAIN with their low-carbon solution ORAÉ®). Our **engineering team** is also available to support market players in their designs.

PROJECT ORIGIN

This product was designed to meet the requirements of the new RE2020 standards.

Since the facade of a building accounts for **25% of its carbon footprint**, Variance®C provides an appropriate response to these new challenges.

To reduce energy consumption

Variance®C combines energy performance (ensured by the selected insulation pannels) with the benefits of glass. This solution is a perfect answer to **external thermal insulation (ETI)** for both **new projects and renovations**.

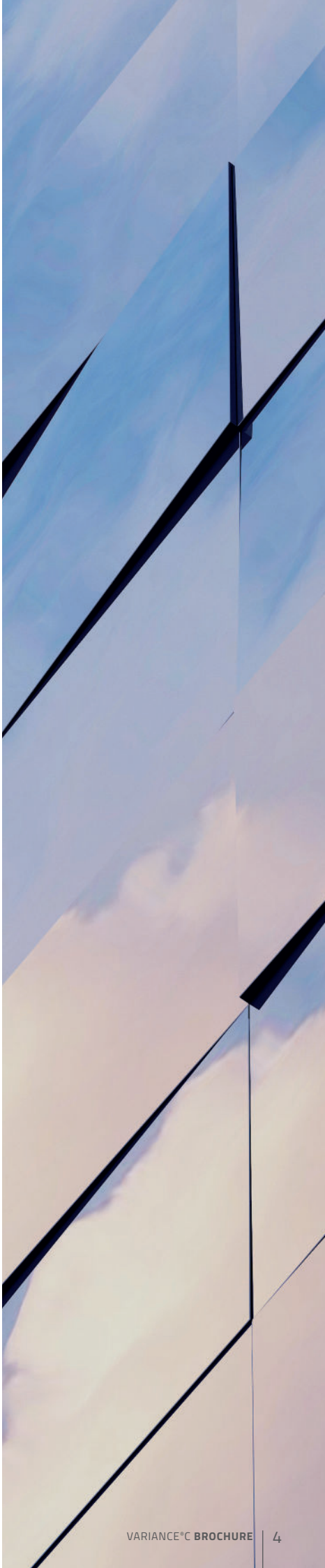
To improve hermal comfort, it guarantees air circulation (retaining heat in winter and insulating against high temperatures in summer).

Variance®C also ensures a **ventilated air gap** between the insulation and the facade, protecting against solar radiation and reducing the risk of thermal bridge.

To reduce building's carbon impact (thanks to more durable, recyclable, low-carbon materials and also with a longer life cycle).

Variance®C is made following des **low-carbon processes with 100% recyclable materials** (aluminum and stainless steel).

The ventilated air gap of the system allows an installation without damaging the insulation panels and offers protection against the elements, reducing sealing issues and extending the facade's lifespan**.**



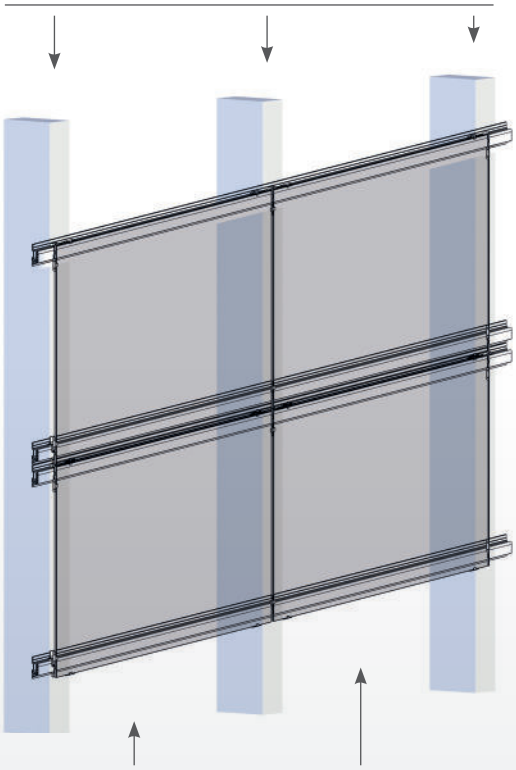
TECHNICAL INNOVATIONS

BUILDING LOW-CARBON

also means **installation time optimzation !**

Variance®C system conconsists of hooks fastened on rails, enabling a simple and efficient implementation:

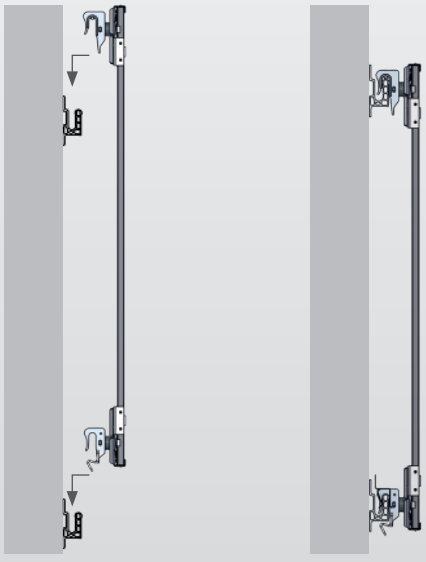
Primary verticale framework (or wall)
Non supplied by SADEV



Secondary horizontal structure
Specific profile called «rail»

TECHNICAL ADVANTAGES

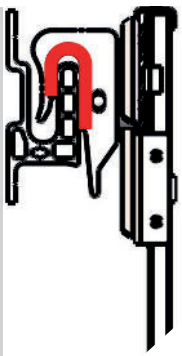
- **On-site time saving :** thanks to the possibility of pre-assembling the fasteners in the workshop allowing an otpimization of installation (no gluing or drying time) and crane usage.
- **An easy installation** without thermal insulation damamage with a real complementatity
- **An easy maintenance** for cleaning and replacement
- **An easy dismantling** thanks to a clip
- **A fire protection** ensured by a capping system



Hook fastenig system on railings

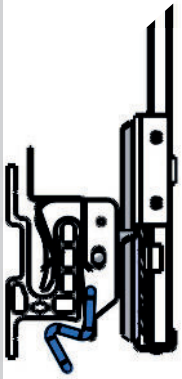
ANTI-LIFT HOOK SYSTEM

with a noise-reducing solution to avoid any noise pollution.



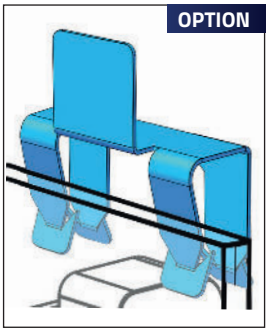
WIND HOOK

Aiming at absorbing glass and building movements combined with a noice reduicing solution.



WEIGHT HOOK

Ensuring system security with the anti-lift functionnality.



ANTI-TRANSLATION DEVICE

(to fix on weight hook)

The system's safety is ensured with the **anti-lift clip. An anti-translation device** can be added in seismic zones, areas with extreme wind pressure, or for negative inclinations. The upper hooks limit stress on the glass and absorb building movements, ensuring optimal performance. A **noise-reducing solution** is attached under these wind hooks to prevent any sound disturbances caused by the movements of the glass and the building.

As **durability** and **safety** are linked, Sadev is the only company that has led testing of its Variance product according to **CSTB standards 3574V2 and 3194**. These **mechanical tests** were carried out on both the components and the glass, ensuring the product's **optimal performance**.

TECHNICAL ADVANTAGES

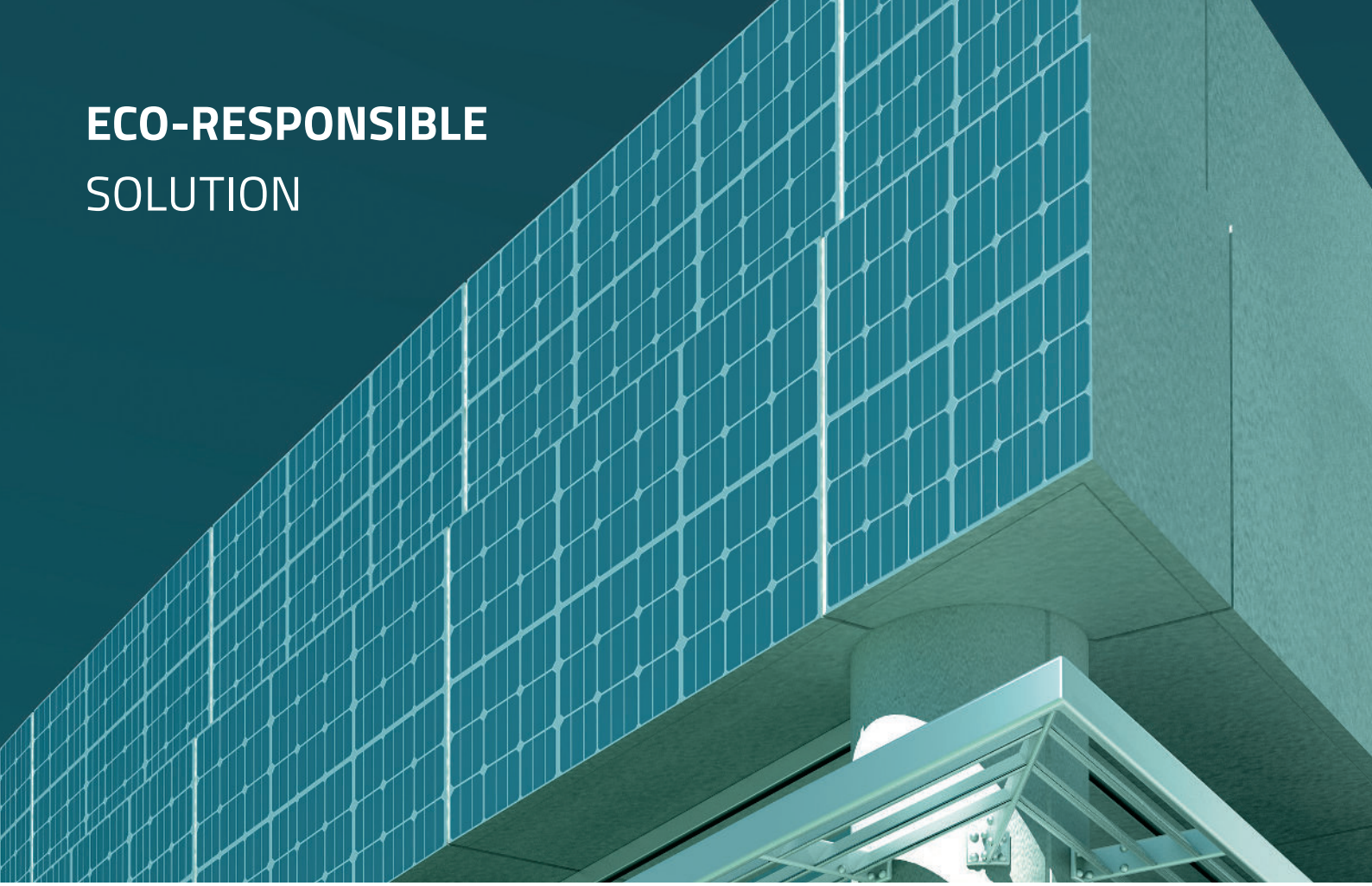
Clamp system avoiding drilling the glass and offering a more **cost-effective solution**.

Variance®C enables a compatibility with thinner glass:

- Tempered monolithic in 8 mm and 10 mm
- Tempered laminated in 6/6 mm and 8/6 mm (often used for photovoltaic glass)

Our rail installation system is compatible with all types of primary frameworks and standard thicknesses of insulation panels.

ECO-RESPONSIBLE SOLUTION



Durabilty and safety are complementary.

Eco-design is at the heart of SADEV's processes to offer increasingly efficient solutions from both a technical and environmental perspective.

We are also developing **European production line** with **low-carbon extrusion** process for these products.

Variance®C is a 100% recyclable product, from the glass to the fastening elements offering one of the most efficient environmental product declaration (EPD) on the market.

SUSTAINABILITY ADVANTAGES

- **High energetic performance** depending on the glass and insulation chosen (heat retention in winter and insulation against high temperatures in summer).
- Compatible with **new regulations** such as **RE2020**
- Perfectly **suited** for n**ew construction and renovation projects**.
- Complementary to **External Thermal Insulation (ETI) solutions**.
- A **100% recyclable** product made from **recycled materials**

FDES available sadev.com

UN DESIGN DISCRET **ET OPTIMAL**

ARCHITECTURAL ADVANTAGES

- **Multiple design and architectural possibilities** thanks to the benefits of glass (shapes, dimensions, finishes...)
- **Ability to combine sizes and shapes** on the same facade.
- **Thinner glass without drilling,** for more design and cost-effective projects
- **A fastening system placed in the corner** for an invisible fixing soluion
- **Compatible with photovoltaic glass,** coated glass, silk-screen glass...
- **Minimalist expansion joints** for a greater discretion

With its invisible clamp system, Variance®C is fastened in the corner of the glass, ensuring perfect compatibility with photovoltaic glass, for example..
The **discretion of this solution** provides great aesthetic freedom and lots of creative possibilities for future facades design.

The use of glass allows significant architectural flexibility, whether in shapes (symmetrical, asymmetrical, vertical, horizontal) or finishes (patterns, colors, prints, serigraphy, photovoltaic, etc.).

Variance®C can be installed on **any type of support (wood, metal, concrete...)**.

This solution is also **compatible with other materials besides glass**, such as UHPC (Ultra High-Performance Concrete) or composite.

SADEV

We Build the Invisible

CLASSIC DECOR CONSTRUCT SABCO SWIMSIDE

ROMEO CARE VARIANCE

Member of
SIMONSWERK GROUP

Tél. +33(0) 4 50 08 39 00 | info@sadev.com
76, chemin des Poses - 74330 Poisy (France)

sadev.com
suivez-nous sur