

L I G H T   A N D  
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C O M F O R T



VITRUM&GLASS

SINE VITRUM TENEBRÆ



# VITRUM & GLASS

Incorporated in 1983, Vitrum & Glass benefits from its long experience in the production of high quality insulated glazing units.

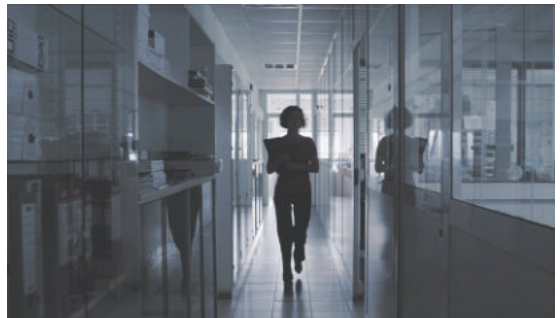
The company has gained a reputation for constant updating of its quality standards and the level of services offered.

Automated and technologically advanced plants guarantee high production capacity and unsurpassed quality levels.

The first manufacturer in Italy to install a production line for TPS® insulated glazing units, Vitrum & Glass invests in R&D to experiment with new technological solutions to offer products and services of the highest standards.

Vitrum & Glass is specialised in the following IGU types:

- structural
- stepped structural
- with integral blinds
- large sizes



Vitrum & Glass in numbers:

- more than 150 sheet glass types available
- 3 automatic cutting lines for monolithic and laminated glass
- 2 IGU assembly lines
- 3000 tons of glass processed every year
- more than 50 daily shipments



Creating a synergic network with partners and suppliers and joining forces with GLASS GROUP have allowed us to develop and expand our know-how, enabling us to keep improving the services offered to customers.





## PRODUCTION

### INSULATED GLAZING ASSEMBLY LINE WITH TPS® APPLICATOR

Vitrum & Glass boasts an IGU production line that incorporates the latest technological advances for the production of large-size, structural, stepped and safety glazing units. The plant is also equipped with a TPS® applicator.

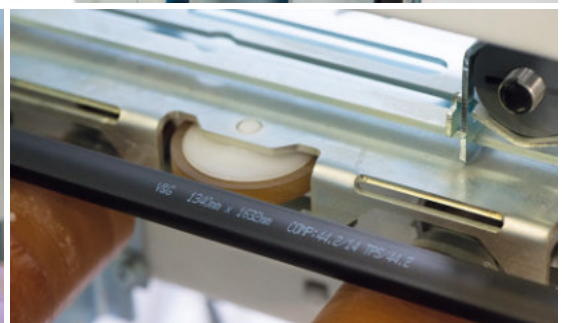
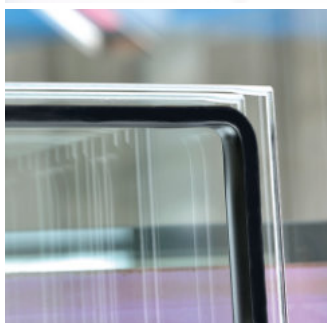
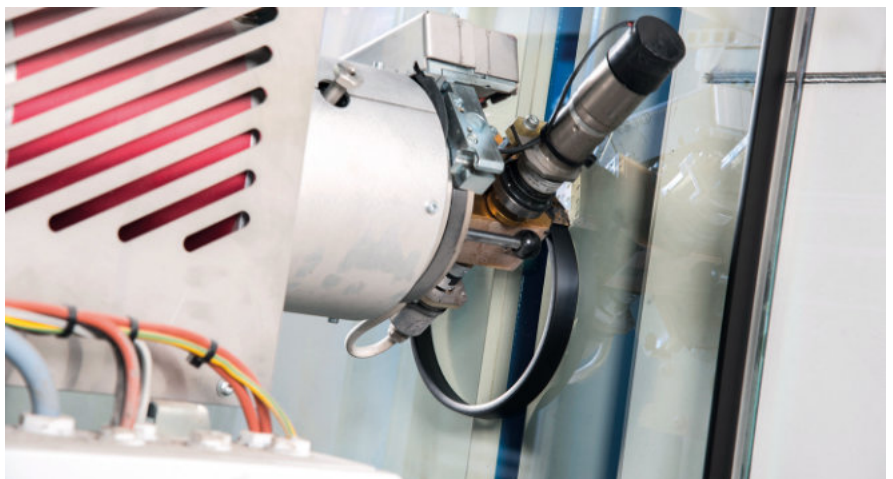
TPS® is today's most advanced solution for the latest generation of insulated glazing units.

The TPS® or "thermal plastic spacer" is composed of a single polyisobutylene-based component with integrated desiccant. The TPS® thus replaces conventional metal profiles, offering a significant increase in insulating performance.

All the main certification institutes, including Ift Rosenheim and TÜV Rheinland, confirm the following characteristics:

- improved linear thermal transmittance (Psi value) by up to 57%
- improved temperature distribution on glass
- reduction of edge condensation effect
- marked reduction of structural tensions acting on the glass
- efficient sealing that guarantees humidity protection and perfect gas tightness

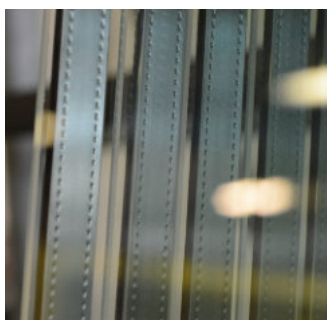
TPS® is currently used in millions of glazing units installed in the most technologically sensitive European countries, including Germany, Austria, and Switzerland, and is suitable for residential and commercial applications.



### TRADITIONAL INSULATED GLAZING ASSEMBLY LINE

Vitrum & Glass constructs all types of insulated glazing with metal spacers, including large size units.

Top performing configurations use special glass to improve their thermal and acoustic insulation characteristics.



## STRUCTURAL INSULATED GLAZING

Some applications require insulated glazing units assembled with special structural UV resistant silicone sealants.

These silicone adhesives are specifically formulated for applications requiring high strength, in which the use of normal polysulphide sealants would result in an unacceptable increase in joint dimensions.

For the construction of curtain walls, structural glazing units can be made with the stepped assembly system.

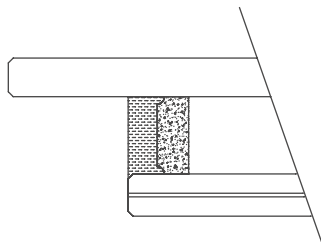
For aesthetic reasons, glazing with printed borders that mask the facade frame is becoming increasingly popular thanks to the associated appearance of visual continuity.

Holes can be drilled into the stepped edge of the units to install handles or accessories.

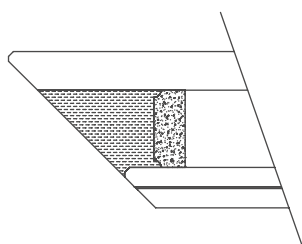
Each stage of the production process is performed internally, with exceptional technical mastery and flexibility.



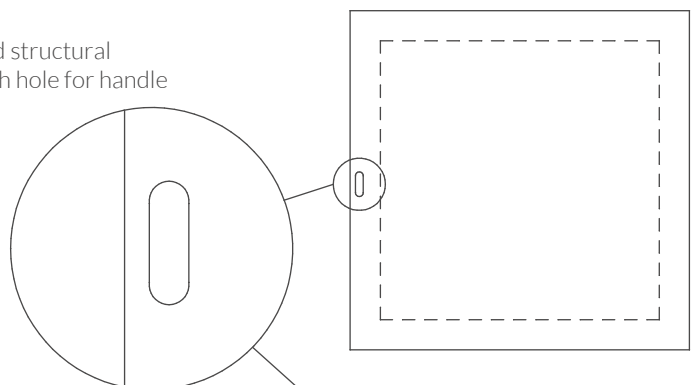
Stepped structural unit



Stepped structural unit with ground mitre edge



Stepped structural unit with hole for handle





## PRODUCTION

### GLAZING UNITS WITH INTEGRAL BLINDS

Vitrum & Glass specialises in the manufacture of insulated glazing units with the ScreenLine® system, in which the blind is assembled inside the cavity between the two panes.

Operation of the blind, whether manual or electrical, has no effect on the insulating properties of the unit and takes place in a completely sealed space.

Architects can select the most suitable glazing composition and ScreenLine® system for each project, whether residential or commercial.

ScreenLine® blinds are available in three versions:

- Venetian
- roller
- pleated

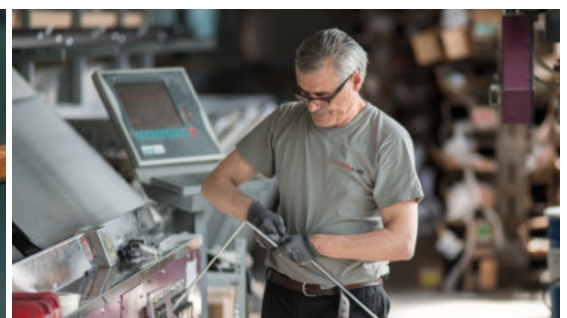
Main strengths of the ScreenLine® system:

- since it is housed in the glazing unit cavity, the blind never needs cleaning, never gets damaged, and never requires maintenance
- protects from light and heat, offering privacy with a minimalist style that respects and enhances a wide range of architectural settings



### HAND-MADE INSULATED UNITS WITH SASH-STYLE WINDOW PROFILES

Vitrum & glass combines its technological expertise with the artisanal skills of former times to create profiles for the production of classic style insulated glazing.



## AUTOMATED GLASS STORAGE SYSTEM

Our automated warehouse allows the storage and handling of more than 150 types of monolithic and laminated glass.



## CUTTING LINES

The cutting lines connected to the automated warehouse allow us to process monolithic and laminated sheets including very large sizes.



## LOGISTICS

High production volumes call for a flexible and rapid logistics system that guarantees total customer satisfaction.

Collaboration with specialised haulage companies is the gateway to building a logistics structure of modern conception.

The service is characterised by:

- care devoted to packing and transport
- logistical efficiency
- ample protected storage facilities

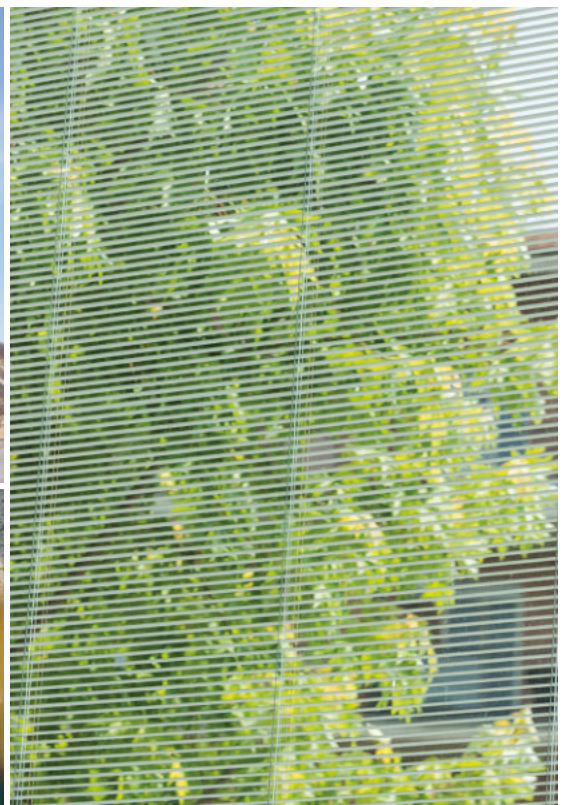






  
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## QUALITY CONTROL AND CERTIFICATIONS

Thanks to the complete in-house control of each stage of the production cycle, Vitrum & Glass can guarantee constant product performance and quality levels in compliance with European standards.

The quality of Vitrum & Glass products is guaranteed by the **ISO 9001:2015** quality certification issued by Istituto Giordano and also by the insulated glazing units certificate of conformity to **UNI EN 1279:2004**, issued by CSI.

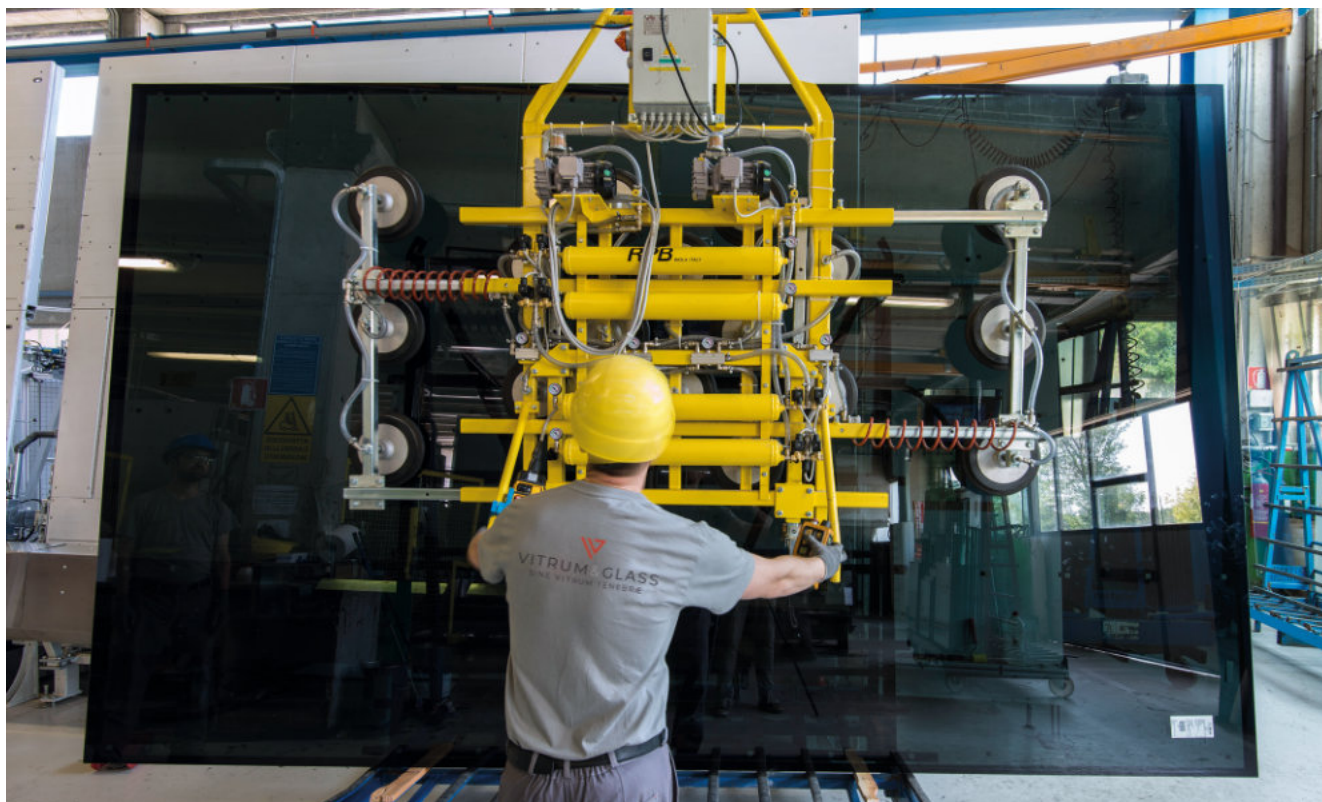


Vitrum & Glass is equipped with a Sparklike® instrument for non-destructive and calibrated measurement of the insulating gas concentration in the unit.

With this system, the tests can be performed immediately after sealing of the unit and not only near the edges accessible by conventional gas concentration testers.







## PARTNERS





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