



Profile systems

Individuality thanks to profile systems
in steel and stainless steel

JANSEN

METALFORM™

Profile systems

Individuality thanks to profile systems in steel and stainless steel

We are inspired
by your ideas.
Allow our solutions
to inspire you.
We design individual
solutions for you.
Create unique buildings
with us.



Systems in steel and stainless steel

Doors, windows and façades

The development and production of well-conceived profile systems made from steel and stainless steel for windows, doors and façades represents a core competence of Jansen. Finding sophisticated solutions for challenging projects likewise.

Robust and resistant to mechanical damage, steel has the highest modulus of elasticity of the materials most widely used in the construction sector at around 210 kN/mm². Steel is the front runner in matters of statics as well as service life, yet it can be perfectly shaped and bent. With strikingly slender profile face widths, steel is able to bear enormous loads. Thanks to its load-bearing capacity, large spans can be bridged, which enables more open areas in the building, for example, and thus permits more creative solutions.

Whether for renovations, luxury homes, industrial buildings or buildings highly frequented by the public – Jansen profile systems fully exploit the numerous benefits of steel in structural dimensioning, fire-protection applications, burglar and bullet-resistant constructions or sound reduction. Prefabrication in the workshop removes the need for

time-consuming steps when installing our systems on site. In addition, profile systems from Jansen can be easily combined with other materials and, thanks to their modular construction, can also be used flexibly for structural adaptations at short notice.

With a product range that includes thermally insulated and non-insulated door and window systems as well as façade and fire protection systems, Jansen profile systems offer sophisticated standard solutions and equally cover complex special requirements. Finally, an extensive selection of fittings and accessories, technical documentation and Janisoft planning software as well as specialist, professional training courses and consultancy mean that architects, developers and fabricators receive products and services from a single source.



New exhibition hall (Kielce Trade Fairs), Kielce/PL
(VISS TVS vertical and sloping, Janisol 2 E130, Folding doors)



Systems full of individual possibilities

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Thermally insulated profile systems

- Janisol – doors and windows
- Janisol stainless steel – doors and windows
- Janisol HI – doors and windows
- Janisol folding wall
- Janisol lift-and-sliding door
- Janisol Arte 2.0
- Janisol Arte sliding door

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Thermally insulated façades

- VISS Vertical and roof glazing
- VISS Basic Vertical and roof glazing
- VISS Delta and VISS Linea
- VISS SG All-glass façade
- VISS Fire Fire-resistant façade
- VISS RC Burglar resistance
- VISS Façade swing door

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Fire doors and glazing

- Jansen-Economy E30
- Jansen-Economy RS
- Janisol 2 EI30
- Janisol 2 EI30
- Fire-resistant sliding doors
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Non-insulated profile systems

- Jansen-Economy – doors and windows
- Jansen-Economy 50 stainless steel
- Jansen-Economy 60 folding wall
- Folding and sliding doors
- Standard profiles



Château de Rentilly, Bussy-Saint-Martin/FR
(Janisol SG doors)



Thermally insulated profile systems.

Minimal heat loss

Maximum stability.

Doors and windows symbolise openness and provide a way in for people, light and air. But they also protect from external influences. The individual requirements for thermal insulation and sound reduction or burglar and bullet resistance determine how doors and windows are to be constructed.

The thermally insulated door and window systems of the Janisol series in steel or stainless steel impress with excellent U values (thermal transmittance) and feature narrow face widths.

The Janisol series is suitable for dry and wet glazing, while the door systems are also available with easy-access thresholds. Whether in public buildings, residential construction or renovation projects, the wide Janisol range with its differentiated, combinable profile series will meet the most demanding of requirements for thermal insulation. The Janisol systems are also at the forefront in terms of security, mechanical strength and durability.

The range includes the following profile series:

- Janisol doors (steel and stainless steel): with a basic depth of just 60 mm, suitable for complex single and double-leaf doors.
- Janisol windows (steel and stainless steel): for generous window surfaces with slimline frame profiles. Turn/tilt, bottom-hung, horizontal pivot and double-vent windows are all possible.
- Janisol Primo (steel): highly thermally insulated window system with a basic depth of 60 mm.
- Janisol HI (steel): high insulation – the first Minergie-certified steel window and door system in Switzerland with a basic depth of 80 mm.
- Janisol Arte (steel, stainless steel and Corten): slender thermally insulated windows with face widths of 25 and 40 mm; ideal for the faithful renovation of industrial and loft glazing as well as the windows of listed buildings.
- Janisol lift-and-slide doors for large-scale glazing in residential and commercial projects.

The Janisol systems have successfully passed the tests laid down in the residential and commercial projects.

On this basis, manufacturers can label windows and external doors with the CE mark which is obligatory throughout the EU.



Palmkernölspeicher am Phönix, Berlin/DE
Janisol / Janisol-Primo

Janisol steel systems

Doors and windows



Janisol doors – Proven technology in perfect harmony

The flush-fitted profile series is ideally suited for creating visually attractive and structurally sophisticated single and double-leaf doors. The use of high-quality insulating bars and mechanically undercut rolling means that a high degree of rigidity is achieved despite a minimal basic depth of 60 mm. Structural reinforcements can also be easily added. The glass fibre reinforced insulating bars are heat-resistant. As a result, no special precautions are

required before welding the frames. The range of colours available is virtually unlimited; powder coating and wet coating are both possible. The appearance is coordinated to match the other Jansen door systems for fire and smoke protection. The sight lines are practically identical. For the developer, this guarantees that sight lines are identical even where requirements are different.

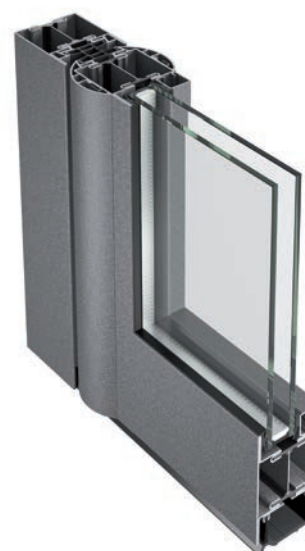


Janisol anti-finger-trap doors – Safety and design perfectly combined

The rounded half profiles minimise the risk of injury at the secondary closing edge. This then prevents crushing and shearing points as per DIN 18650. With maintenance-free, high-performance hinge bushes, Janisol anti-finger-trap doors are particularly suitable for buildings with high frequency use by the public, e.g. shopping centres, schools

or hospitals. The Janisol anti-finger-trap door meets the product standard EN 14351-1 for external doors and is CE certified.

The anti-finger-trap doors are compatible with the Janisol and Jansen-Economy 60 range of profiles. Integrated door closers and automatic side-hung door drives can also be installed.



Janisol windows – Modern technology with a classical appearance

Torsionally rigid, welded frames allow large windows with extremely slender profiles. Arched windows, structural reinforcement and aesthetic adaptations of standard steel profiles can also be produced cost-effectively in individual units and small quantities. As a result, the Janisol system is very much in demand, not only for newbuilds, but also for renovation projects.

Our range of products is completed by a system-compatible and easy-to-install range of fittings (surface-mounted or concealed). Side-hung, turn/tilt, bottom-hung, horizontal pivot and double-vent windows, fixed glazing or combinations of these are all possible.



Janisol Primo – High-quality insulation in the smallest of spaces

This thermally insulated profile system with a construction height of only 60 mm (64 mm vent) enables efficient fabrication of fixed glazing and windows (side-hung, turn/tilt, double-vent and bottom-hung). All window vents have a centre gasket and a rebate gasket on the room side. We stock a range of system-tested fittings with single-handed operation and multi-point locking for all possible opening types.

Identical profile cross-sections greatly simplify the fabrication of Janisol Primo, and also allow them to be combined with tried-and-tested Janisol profiles.

As a holistic approach to buildings is adopted, energy saving measures and thermal insulation are playing an ever-greater role. For both economic and ecological reasons, the window should be accorded greater importance.





Perchtoldsdorf castle, Perchtoldsdorf/AT
(Janisol stainless steel doors)

Janisol stainless steel Doors and windows



Janisol stainless steel doors

The thermally insulated stainless steel profiles are based on tried and tested Janisol technology. Profiles and sizes are the same as those in the Janisol range. This makes it possible for the designer to combine both types of steel easily and for the fabricator to use identical accessories and fabrication tools. The range is complemented by a comprehensive range of stainless steel fittings. The profile surface is available from stock in a mill finish or polished.

Janisol stainless steel windows

Whether you are considering using stainless steel for functional or aesthetic reasons, Janisol windows meet both requirements. A comprehensive range of fittings enables the construction of side-hung, turn/tilt, double-vent and bottom-hung windows.

These slimline, thermally insulated stainless steel profiles complement the tried-and-tested Janisol range, adding variants made from stainless steel of grade 1.4401 (AISI 316) and 1.4301 (AISI 304).



Janisol HI

For powerful insulation

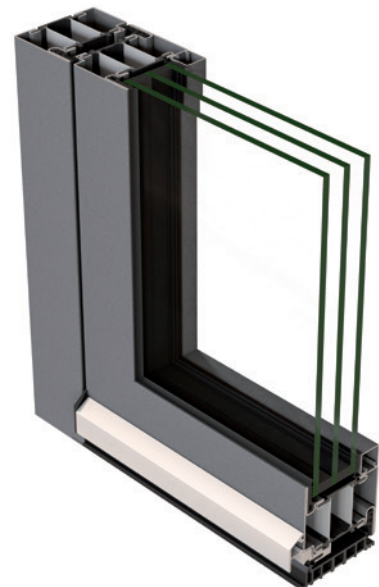


Highly insulated steel doors reduce thermal transmittance to a minimum

In busy public buildings in particular, the requirements for security, durability and thermal insulation have increased dramatically. Janisol HI steel doors conveniently combine mechanical stability with high thermal insulation properties in one single steel profile system.

Thanks to insulating bars made from glass fibre-reinforced polyurethane, Janisol HI achieves U_d values to $1.0 \text{ W/m}^2\text{K}$.

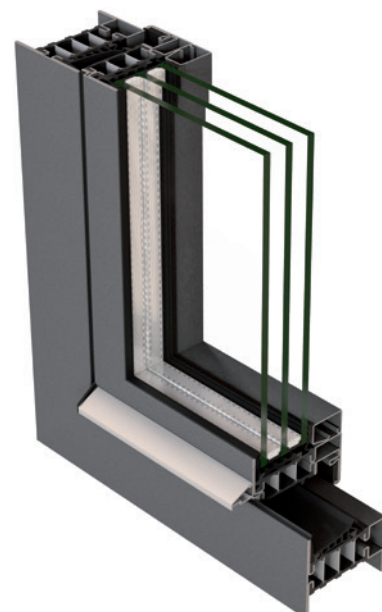
With a basic depth of 80 mm, infill unit thicknesses of up to 57 mm can be used. A comprehensive and coordinated range of fittings and accessories, as well as a range of thresholds, which can be selected to suit the situation, provide the perfect solution for all possible applications. Thanks to the specially formed insulating bars, the lock can be installed in the centre of the profile very easily and efficiently.



Steel windows with optimum thermal break

Modern windows must meet a number of different demands and perform a variety of functions. They must save energy, be airtight, watertight and easy to use, meet structural requirements, but also be highly attractive. Janisol HI steel windows and fixed glazing feature insulating bars made from glass fibre-reinforced polyurethane and boast optimum thermal and structural properties. They achieve U_w values to $0.69 \text{ W/m}^2\text{K}$ for fixed

glazing and $0.8 \text{ W/m}^2\text{K}$ for windows. With a basic depth of 90 mm, vent heights of up to 2800 mm and a vent weight of 180 kg are possible. What is more, different infill unit thicknesses of up to 67 mm can be used. Due to the slimline external face width and the wide variety of coating options, Janisol HI steel windows can meet high thermal insulation requirements in terms of both function and design.





European Hansemuseum, Lübeck/DE
Janisol HI, Janisol, Janisol 2, VISS HI Linea

Janisol folding wall

Flexible room design



Steel folding wall – thermally broken

The Janisol folding wall is based on the Janisol thermally insulated system. Flexible in use, the Janisol folding wall system can be used as a room divider as well as for outside areas, and can be inward or outward-opening.

A compatible range of fittings and accessories ensures proper, smooth and quiet operation. A range of designs is available for the threshold. Depending on the size and loading, profiles with a face width of 25 mm or 50 mm can be used. The load-bearing capacity of the top running gear is up to 200 kg, which in turn permits leaf weights of up to 100 kg.



Janisol lift-and-slide doors

A fabulous outlook



Redefining spaces

The Janisol lift-and-slide doors allow the inside and outside to merge, creating a bright and open environment – in luxury homes, as well as in restaurants or hotels. The robust, highly thermally insulated steel profiles enable slimline frames for large window glazing. Janisol lift-and-slide doors are also distinguished by their straightforward fabrication and installation. Despite a comparatively small basic depth of 80 mm and profile face widths of just 85 mm, leaf sizes of up to 4270 mm in width and 3210 mm in height can be constructed as lift-and-slide doors using this steel profile system. In the standard design, leaf weights of up to 400 kg are possible; as a special design, weights of up to 600 kg are possible. The chosen basic depth allows for the installation of triple insulating glass up to 57 mm in thickness. This glass can achieve U_w values to $0.9 \text{ W/m}^2\text{K}$. The bottom threshold profile made of glass fibre-reinforced plastic is also available for optimum thermal insulation. This means that the threshold can be designed for easy access. Designs up to RC2 are likewise possible for all opening types and motorised systems.



Janisol Arte 2.0

The new generation



Simplified fabrication; new materials for profiles

The second generation of the Janisol Arte window system now offers profiles made from stainless steel and Corten steel as well as a wide range of profiles. The integrated weatherstrip groove simplifies and speeds up fabrication. A large selection of glazing beads is also available in a variety of different materials.

The wide range of opening types is ideally suited for the renovation of old windows but also for modern residential construction. With the narrowest profile face widths of only 25 or 40 mm for fixed glazing and a basic depth of 60 mm, intricate yet stable constructions with a large proportion of glass and excellent thermal insulation can be created.

Design benefits

- Inward and outward-opening fixed glazing/window vents
- Single and double-vent windows
- Inward-opening side-hung, bottom-hung and double-vent windows
- Outward-opening side-hung, top-hung, double-vent, horizontal pivot and projected top-hung windows
- Vent sizes of 1000 × 2400 mm
- Vent weight of up to 150 kg
- Unit thicknesses from 20 to 47 mm
- U_w value from 0.8 W/m²K
- Multi-point window locking
- New materials for profiles: stainless steel and Corten
- Burglar resistance tested in accordance with EN 1627 up to RC2

Fabrication benefits

- Composite technology tested in accordance with EN 14024
- CE classification in accordance with EN 14351-1
- Optimum weldability of the profile frame due to the ZF surface finish
- Mechanical strength tested in accordance with EN 13115
- Impact resistance tested in accordance with EN 13049



Janisol Arte 2.0



Janisol Arte 2.0 stainless steel



Janisol Arte 2.0 Corten



Janisol Arte horizontal pivot window

The new Janisol Arte horizontal pivot window has been successfully CE marked. Vents of up to 1400 × 1600 mm can be constructed as manual or motorised versions.

- Vent weights of up to 100 kg
- Watertightness 8A - 450 Pa
- Air permeability up to class 4
- Sound reduction up to 40 dB

Janisol Arte sliding doors

With the extremely slimline steel profile system Janisol Arte, large sliding doors can be created with narrow face widths and a high degree of stability. Originally developed by Jansen for the reconstruction of historic windows, Janisol Arte now offers architects and developers the opportunity to create large glass fronts.

- Unit sizes of up to 3000 × 2500 mm (W×H)
- Max. weight of 150 kg per leaf
- Insulating glass of 20 to 34 mm
- U_w value of 1.5 W/m²K
- Welded steel half profiles in combination with glass fibre-reinforced high-performance plastics (100% recyclable) produce particularly stable frames
- Profile face widths of just 40 mm ensure increased light penetration and also increase the energy efficiency of the building
- CE marking in accordance with EN 14351-1
- Profile rolling technology tested in accordance with EN 14024
- Sound reduction of up to 41 dB





De Grote Post Art and Cultural Centre, Oostende/BE
(VISS TVS, VISS Fire EI60, Janisol doors, Janisol 2 EI30)



Thermally insulated façades.

Load-bearing elements

Convincing arguments

VISS façade systems build on the benefits of steel

VISS, the fully insulated glazing bar system, is a thermally insulated steel system for mullion/transom constructions, the modular components of which can be used to construct any façade. In combination with profiles in different basic depths and/or internal reinforcement options, specific structural specifications can be met – the functional aspects are fulfilled by a wide range of accessories and infill units. Neither the aesthetics nor the homogeneous appearance of the façade structure are affected by this.

As a result, architects and developers are able to meet a range of thermal insulation, sound reduction and fire protection requirements while maintaining a uniform look. Fabricators benefit from the tried-and-tested application and simplified warehouse storage due to the small number of individual components.

Jansen offers various structural systems for calculating the dimensions of steel façades: freely suspended, clamped on one side or as continuous beams. Base, top and fixing plates for attachments to building structures can be welded in place easily and securely. Profiles with face widths of 50 and 60 mm and basic depths of up to 280 mm are ideal for room-side load-bearing structures. They can be welded on or pushed in. Push-in and clip-in connections mean that systematic pre-fabrication in the workshop is an option even for large-scale façades. With welded constructions, complex units and unusual shapes can be precision-manufactured. Both fabrication methods can also be combined.

The Jansen VISS façade systems are tested in accordance with the product standard EN 13830. On this basis, manufacturers can label façades with the CE mark which is required throughout the EU.



VISS façade Vertical glazing

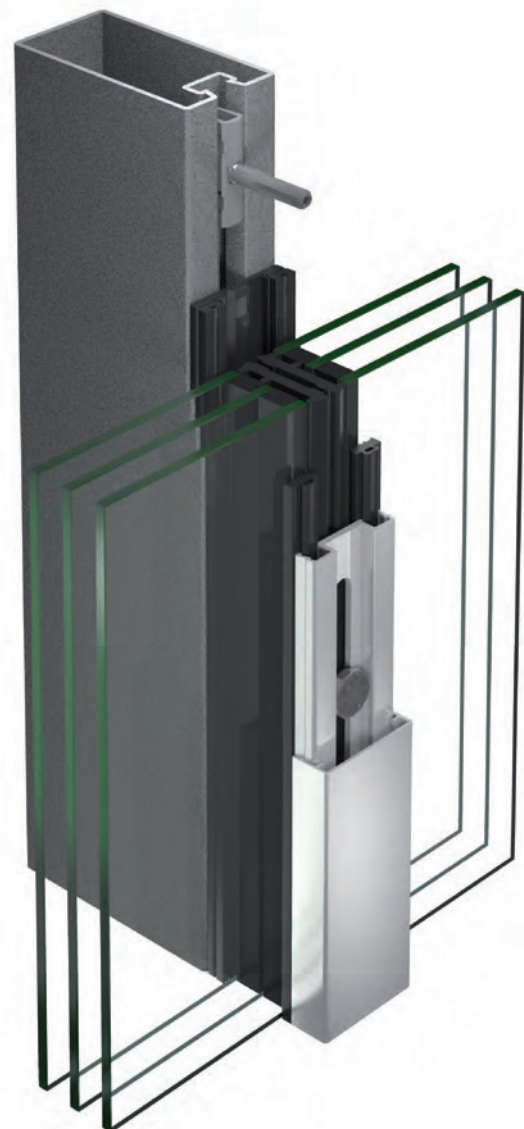


The combination of simple elegance, technical skill and economic efficiency

Whether a newbuild or a renovation project – for large and small construction projects. In accordance with structural requirements, pane sizes or the thicknesses of the infill units, the optimum components from a technical and economical perspective are selected from the modular system. The VISS façade is also available as a highly thermally insulated system with a corresponding passive house certification for newbuilds as well as renovations. Outer cover profiles are available in a range of depths and shapes. Infill unit thicknesses from 6 to 70 mm.

CE marking in accordance with EN 13830

- Thermal transmittance of $U_f > 0.51 \text{ W/m}^2\text{K}$
- Sound reduction R_w of 47 dB
- Watertightness class RE 1200
- Air permeability class AE
- Resistance to wind load class 2 kN/m^2
- Impact resistance class E5/I5
- Prefabricated glazing suitable for safety barrier loading in accordance with DIN 18008-4 Category A and C22
- Passive house certificate



VISS SG

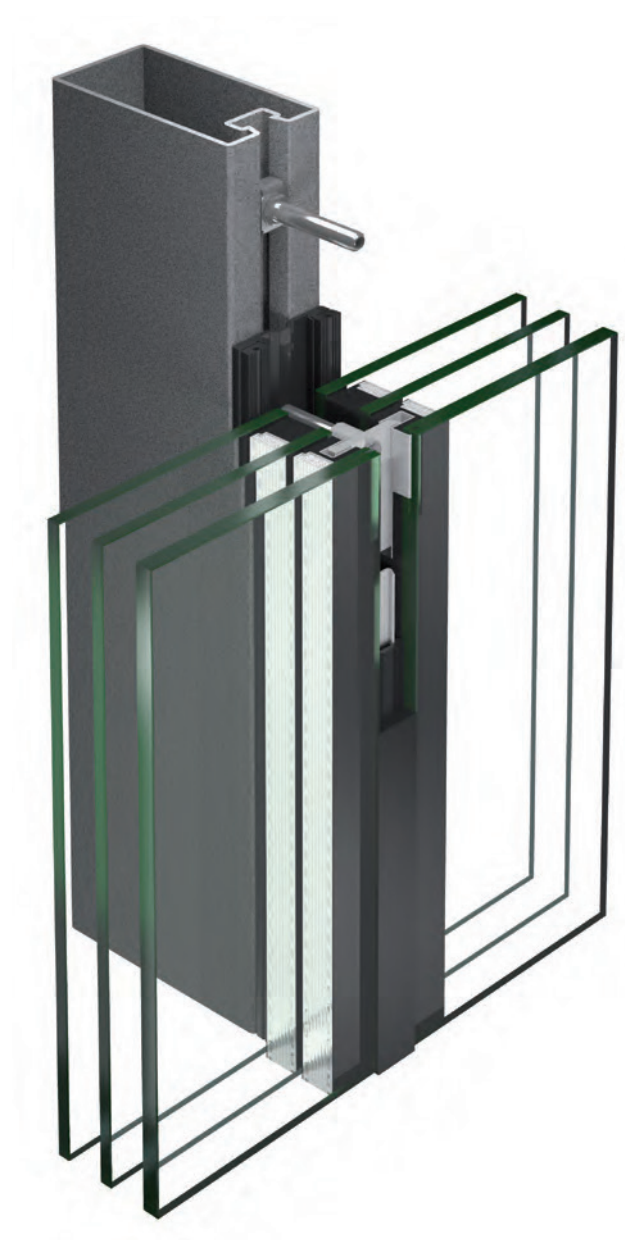
All-glass façades

When building envelopes blend in with their surroundings

The idea of transparency in a building envelope that blends in with its surroundings can be realised harmoniously and aesthetically with an all-glass façade. The all-glass architecture creates a feeling of lightness and openness. Narrow internal sightlines and the simultaneous implementation of large-scale glass areas convey a generous sense of space. Steel and its outstanding structural properties allow developers and architects to turn their conception of all-glass façade solutions into a reality simply and economically. The VISS SG and VISS Semi SG systems can be combined with any VISS profile with face widths of 50 and 60 mm and with the VISS Basic solution which can be mounted on any support. Even roof glazing can be easily implemented in a structural glazing style using VISS SG. This provides a large variety of options with minimal additional components. Infill unit thicknesses from 30 to 70 mm. Glass areas of up to 2.5 x 5.0 m

CE marking in accordance with ETAG 002

- European Technical Approval ETA 13/0015
- Thermal transmittance of $U_i > 0.56 \text{ W/m}^2\text{K}$
- Watertightness up to class R E1200
- Air permeability up to class AE
- Resistance to wind load up to class 2 kN/m²
- Impact resistance up to class E5/I5
- Prefabricated glazing suitable for safety barrier loading in accordance with DIN 18008-4 Category A and C22





Acoustic tunnel, Warsaw/PL
(VISS Basic TVS sloping)

VISS Basic Vertical glazing

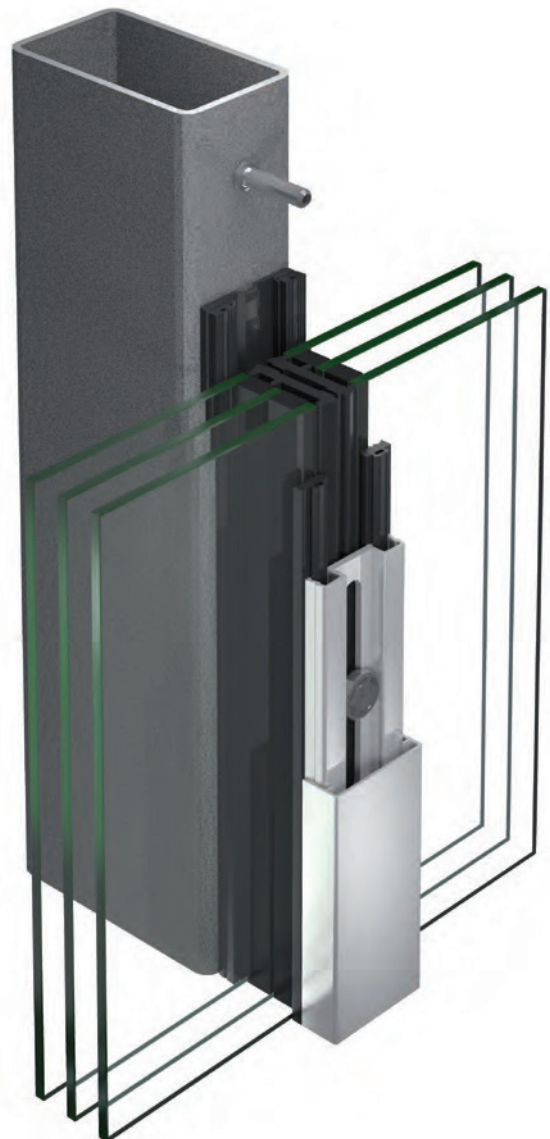


High degree of design freedom combined with the benefits of a system

With VISS Basic, Jansen offers an economical and aesthetic system solution for façade constructions that can be mounted on any support. The system configuration is based on the proven VISS system. Implement façades with large spans and select the form of load-bearing structure according to architectural and structural requirements. Outer cover profiles are available in a range of depths and shapes. Infill unit thicknesses from 6 to 70 mm.

CE marking in accordance with EN 13830

- Thermal transmittance of $U_f > 0.53 \text{ W/m}^2\text{K}$
- Watertightness class RE 1200
- Air permeability class AE
- Resistance to wind load class 2 kN/m²
- Impact resistance class E5/I5
- Prefabricated glazing suitable for safety barrier loading in accordance with DIN 18008-4 Category A and C22



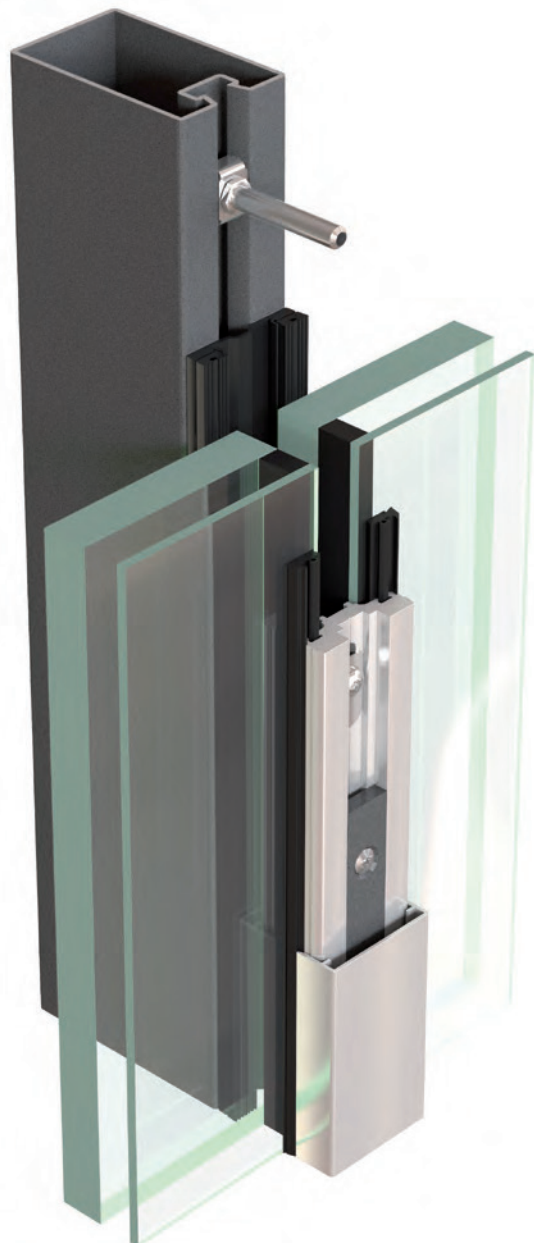
VISS RC4 burglar resistance and break-out resistance



Maximum building protection

For the protection of luxury properties, Jansen has brought a further development of the burglar-resistant RC3 system solution onto the market in the shape of VISS RC4. With only a few additional components, the tried-and-tested VISS RC3 system turns into a VISS RC4 system solution that meets increased security requirements. Visually identical to the standard VISS façade, the appearance of the VISS RC4 construction does not betray its burglar-resistant properties. This means that different project requirements can be implemented with a uniform appearance.

- VISS RC4 can be combined with the existing VISS systems in the face widths of 50 and 60 mm
- Burglar and break-out resistance in accordance with EN 1627
- Thermal transmittance of $U_f > 0.84 \text{ W/m}^2\text{K}$
- Watertightness class RE 1200
- Air permeability class AE
- Resistance to wind load class 2 kN/m^2
- Impact resistance class E5/I5
- VISS RC versions can be combined with the burglar-resistant profile solutions of the Janisol door and window systems
- Installation of double and triple glazing
- This is a project solution; test reports and fabrication information available on request



VISS system

Pivot door

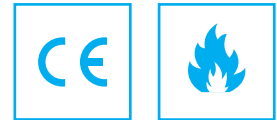
For greater generosity across the entire line

With the new VISS pivot door as a project-specific solution for floor-to-ceiling and module field doors, the generous lines of the VISS façade can now also be continued in access areas. With this development, Jansen is extending the design options for large-scale glass façades with the addition of both a visual and functional highlight.

- Large, thermally insulated pivot door for special applications and requirements (e.g. entrances to exhibition halls, atria, etc.)
- Appearance identical to the VISS façade construction
- Construction principle based on the tried-and-tested VISS façade doors
- Thermally insulated door rebate profiles available for glass thicknesses of 27 to 42 mm
- The VISS pivot door can be both outward and inward-opening, but can only be operated from the inside
- Dimension of the door and frame profiles can be freely selected or specified in accordance with the structural requirements
- Concealed espagnolette with lower and upper lock, integrated in the room-side door leaf profile
- Large selection of cover profiles allows diverse possibilities for design



VISS Fire Fire-resistant façades



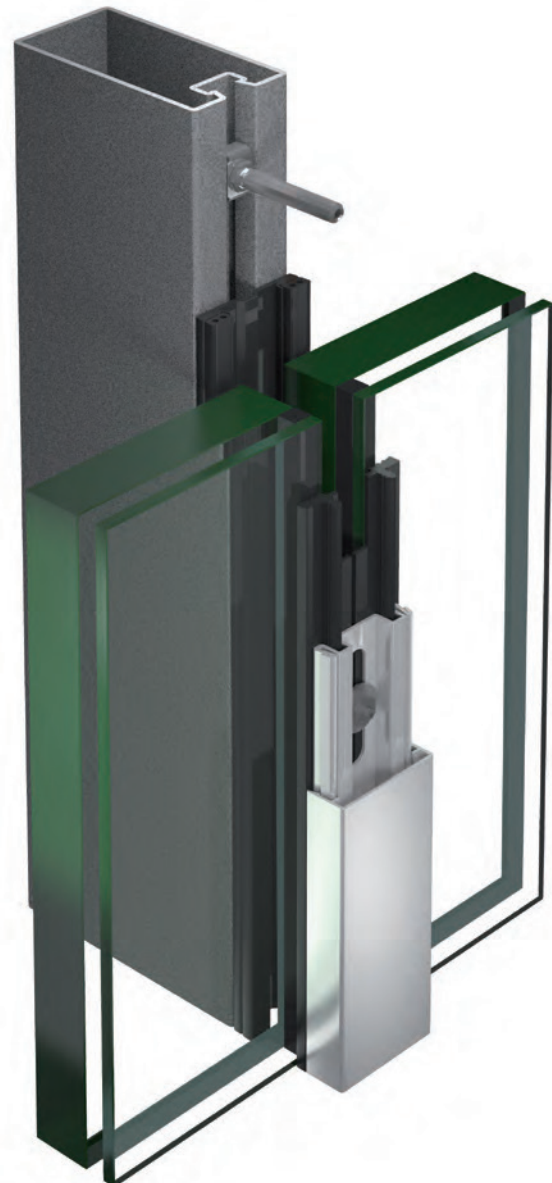
No compromise on safety

For the sensitive area of fire protection, Jansen has developed the VISS Fire system – a modular façade construction for universal use. The system is suitable for vertical façades in all fire resistance classes for interior and exterior use (E30/60/90, EI30/60/90). All classes are also TRAV safety tested. VISS Fire has also been approved for use with Janisol 2 and Janisol C4 fire doors.

With a face width of 50 mm, fire protection requirements can be implemented discreetly and elegantly. Basic depths from 50 to 280 mm provide a whole range of structural solutions for creating storeys of up to 5000 mm in height and of unlimited width. The many alternatives give the developer the necessary freedom to create attractive large areas of glazing. The Delta and Linea load-bearing profiles can be used to make an elegant statement.

Tested in accordance with EN 1364

- Fire protection classes E30 / E60 / E90 / EI30 / EI60 / EI90
- Successfully TRAV safety tested (German technical regulations for safety barrier glazing)
- Face width of 50 mm
- Thermal transmittance of $U_f > 1.2 \text{ W/m}^2\text{K}$
- Basic depths of 50 - 280 mm
- Infill unit thicknesses of 5 - 70 mm
- Prefabricated glazing suitable for safety barrier loading in accordance with DIN 18008-4 Category A and C22





Fire station Champerret, Paris/FR
(VISS TVS, VISS Fire EI60)



VISS

Roof glazing

Variety of form for individual requirements

VISS roof glazing is characterised by generosity, planning reliability and ease of assembly. In the area of roof glazing, welded steel constructions demonstrate their strength to the full.

In this way, large skylights can also be created with slimline profiles and complex designs turned into reality.

In combination with the VISS façades, a harmonious transition is achieved that is technically reliable and sophisticated. Outer cover profiles are available in a range of depths and shapes. Infill unit thicknesses from 16 to 70 mm.

- CE marking in accordance with EN 1090 (EXC1 and EXC2) possible

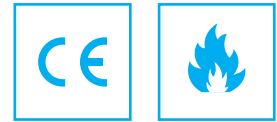
Performance values in accordance with EN 13830:

- Thermal transmittance of $U_f > 0.51 \text{ W/m}^2\text{KK}$
- Watertightness class RE 1200
- Air permeability class AE 750 Pa
- Resistance to wind load class 2 kN/m^2
- Security testing at 3000 Pa
- Impact load security testing, CSTB 3228 requirements met



VISS Fire roof glazing

Fire-resistant façades



No compromise on safety

In order to expand the field of VISS roof glazing, Jansen has developed the system further to include fire protection and carried out tests in accordance with EN 1635-2. As the roof is not a harmonised building component, classification has been made based on EN 18380. The tests performed also take into consideration a residual bearing capacity of the roof; in this case fire resistance of 30, 45 and 60 minutes was verified. Depending on the construction type, it is possible to build roofs with a span of up to 4300 mm with a slimline face width of 50 mm. The developer can choose between three glass manufacturers. The VISS Fire roof glazing is suitable for infill unit thicknesses between 16 and 70 mm, and also allows for the construction of a roof that looks the same as the standard or Basic roof glazing system.

Tested in accordance with EN 1364

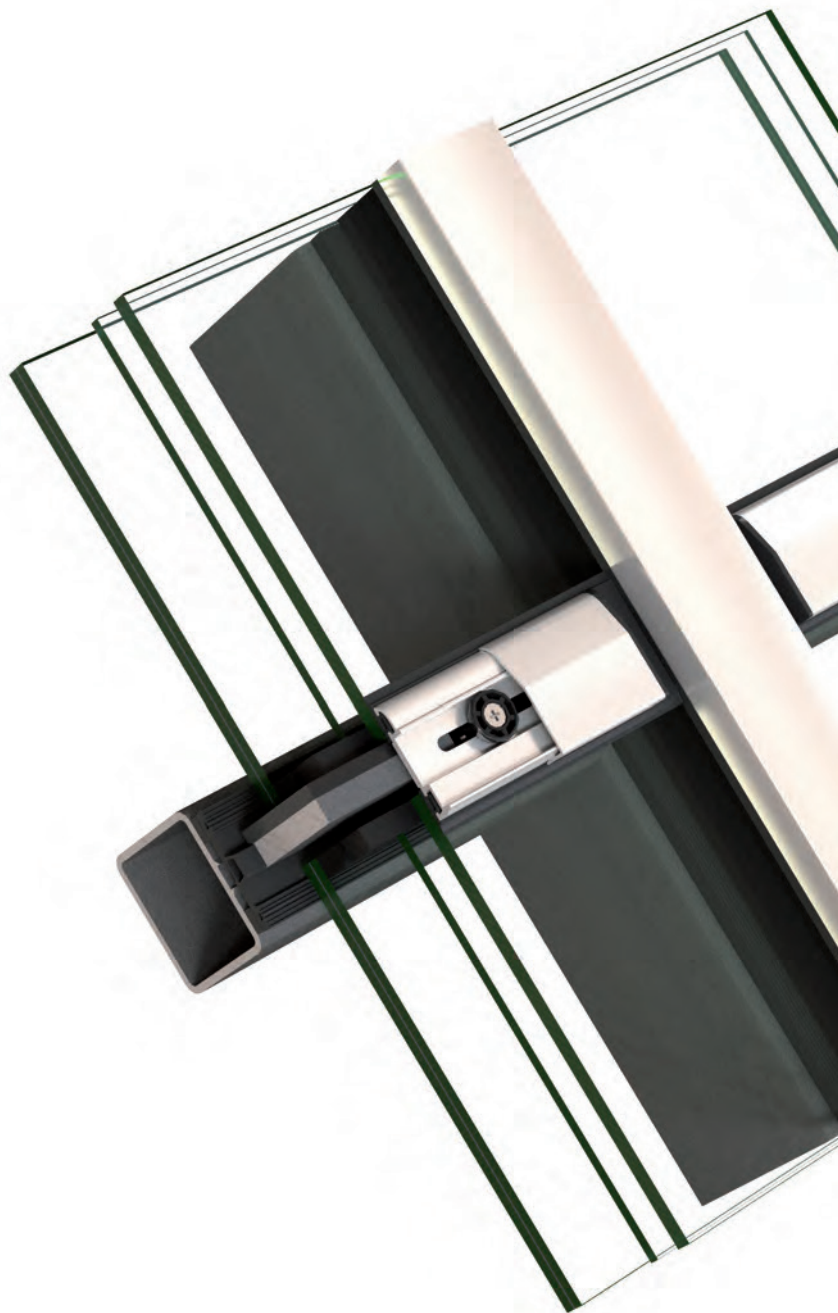
- Fire protection classes RE30 / REI30 / REI45 / RE60 / REI60
- Face width of 50 mm
- Infill unit thicknesses of 16 - 70 mm
- Thermal transmittance of $U_f > 1.3 \text{ W/m}^2\text{K}$

VISS Basic Roof glazing

The implementation of challenging skylight constructions with large spans

The aesthetic and economical superior system solution for roof constructions that can be mounted on any support. VISS Basic for roof glazing is a tried-and-tested system solution and enables use in metal and steel construction as well as freedom of choice in terms of load-bearing profile forms. Infill unit thicknesses from 16 to 70 mm.

- Thermal transmittance of $U_f > 0.81 \text{ W/m}^2$
- Watertightness class RE 1200
- Air permeability class AE
- Resistance to wind load class 2 kN/m²







Fire doors and glazing.

Functional fire protection in its most beautiful form.

Steel is neither flammable, nor does it suffer any significant loss of its inherent stability in the event of a fire. For this reason, it is predestined for use as a material in the fabrication of fire doors and glazing.

Fire doors made from steel can help to save lives in cases of emergency. Whether in private, commercial or public buildings – fire doors are used to separate fire compartments and significantly delay the spread of smoke and fire. Thanks to their insulating properties, they counteract an increase in temperature on the side facing away from the fire, which helps to secure the escape routes in stairwells or corridors, for example.

Numerous approvals in different countries attest to the quality of the Jansen products, which cover a variety of fire resistance classes and therefore a wide range of applications.

The approvals are continually improved and extended as a result of an active exchange with users and building authorities.

The tried-and-tested fire and smoke protection systems from Jansen combine functionality, flexibility and aesthetics. With these profile systems, narrow profile face widths are also possible for high security requirements.

The option to combine the different fire doors and glazing types provides the basis for holistic and economical system solutions whilst also meeting protection objectives.





LAUTSPRECHER
LOUDSPEAKER

Jansen-Economy E30 Fire doors

Jansen-Economy 50 E30

E30 smoke/fire doors and closures made from steel and stainless steel successfully prevent the spread of flames and smoke in the event of a fire. Jansen-Economy 50 E30 allows transparent building components to be manufactured economically. The basic depth for door frames and leaves is only 50 mm. Flush-fitted doors with a continuous shadow joint inside and outside can be fabricated with this profile system. In the event of fire, a low flammability double rebate gasket guarantees a secure barrier.

Jansen-Economy 60 E30

The profile system with a basic depth of 60 mm is especially suitable for all applications which require large E30 smoke/fire closures with a slimline look. The robust and extremely torsion-proof Jansen-Economy 60 E30 steel profiles allow the production of solid single and double-leaf door systems. The tailored range of fittings includes locks, strike plates, electric strikes, door handles and specially developed 3D-adjustable weld-on or screw-on hinges. The appearance is coordinated to match the other Jansen door systems. In this way, different requirements can be met with a single uniform appearance.



Jansen-Economy RS

Smoke doors

Jansen-Economy 50 RS

The Jansen-Economy 50 RS system, which is made from steel and stainless steel, offers clear benefits in terms of security and cost. The simple geometry of the profiles with a basic depth of 50 mm allows efficient fabrication of flush-fitted, single and double-leaf smoke doors in accordance with DIN 18095 and EN 1634-3.

A comprehensive range of tested, system-specific fittings and door handles in aluminium or stainless steel ensures that the units are fabricated to the correct standards. Locks and fittings can be integrated easily into the hollow profile section.

Jansen-Economy 50 RS is virtually identical in appearance to EI30 fire protection barriers from the Janisol 2 system.

Jansen-Economy 60 RS

A complete profile system for single and double-leaf door systems in accordance with DIN 18095 and EN 1634-3 that also enables large units with the familiar narrow face widths and includes a comprehensive range of system-specific and approved locks and fittings. The door closer integrated into the profile offers an attractive solution. As it can also be created cost-effectively with the Jansen-Economy 60 profile system, it is an attractive feature even for larger building components.

Jansen-Economy 60 RS is also approved as a burglar-resistant door in accordance with DIN EN 1627 and corresponds to resistance class RC3.





U-Turm, Dortmund/DE
(Janisol 2 EI30, VISS Fire G30, Jansen-Economy 60 RS)

Janisol 2 EI30

Fire doors

Secure fire containment

The thermally broken Janisol 2 EI30 profile system enables the efficient and reliable fabrication of single and double-leaf doors, fire-resistant glazing and doors in glass walls. The basic depth for door frames and door leaves is just 60 mm.

Profiles with face widths of 25, 50 and 85 mm can be used for mullions and transoms. A continuous shadow joint inside and outside lends the construction a certain lightness and elegance with

extremely narrow profile face widths. Fire-resistant glazing from a variety of providers can be used for infill units. A comprehensive range of fully tested fittings, locks, accessories and integrated door closers is also available. These can be integrated very easily into the hollow profile section. The appearance is coordinated to match that of all the other Jansen door systems. Janisol 2 EI30 has many approval certificates. These are constantly being

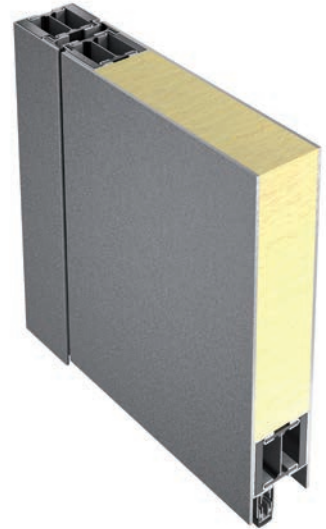
extended and improved in consultation with users and the building authorities. The many successfully tested system variations allow particularly cost-efficient, attractive and complex project solutions in line with objectives. Janisol 2 EI30 doors have also been tested as burglar-resistant doors in accordance with EN 1627, classified in resistance class RC3 and are approved as smoke doors in accordance with DIN 18095 and EN 1634-3.



Sheet metal clad fire doors for high design standards

Janisol 2 EI30 sheet metal clad fire doors can be fabricated as single and double-leaf doors with or without glazed sections. The door leaf and outer frame profiles are flush-fitted and therefore lend the construction an elegant appearance. The system provides plenty of scope for creativity whether it is with glazed side sections or toplights.

Janisol 2 sheet metal clad fire doors are characterised not only by their appearance, but also by their simple and efficient fabrication. Smooth sheets can be welded or bonded, removing the need for complicated folding of the sheet metal. In addition, all Janisol 2 fittings can be used; vertical joint and horizontal safety bars are easy to attach.



Anti-finger-trap doors for added safety

A further variation of the Janisol 2 EI30 system is a door with finger-trap protection. The rounded half profiles at the secondary closing edge minimise the risk of potential injury. This door design is particularly suitable for busy public buildings, such as schools, shopping centres, railway stations or airports.

It is simple and efficient to fabricate, and has low maintenance requirements thanks to a high-performance hinge bush. The anti-finger-trap option can be integrated seamlessly into the overall appearance as it looks exactly the same as the systems without finger-trap protection.



Our technical consultancy service would be happy to help you with requirements for individual projects or specific countries.

Janisol 2 EI30

Fire-resistant sliding doors

Extremely narrow profile with maximum safety features

The Janisol 2 EI30 fire-resistant sliding door is used in busy buildings requiring easy access, such as shopping centres, stadia or office buildings. The automatic door system has been successfully tested to fire-resistance class EI30 in accordance with EN 1634 with and without integrated emergency exit function, as well as with a wide variety of motors, glass inserts and panels.

The maximum clear opening dimensions are 1400 × 2500 mm for single-leaf constructions, and 2800 × 2500 mm for double-leaf constructions. Door leaf and door frame profiles with a face width of 25 or 50 mm are currently the slimmest fire-resistant steel profiles on the market. A key benefit is simple and reliable fabrication. Thanks to the new special profile filled with ceramic compound for the outer and vent frames, no complex work is necessary for the sheet edge, and no additional fire-resistant panels are required. There is also no need for a floor guide in the entrance area.



Janisol C4 EI60/EI30 Fire doors

Janisol C4 EI60 and Janisol 2 EI30: a new combination of reliable fire protection systems

Increased requirements for security within a building mean that the demand for functional interaction between different fire protection requirements is becoming more and more frequent. Depending on the specific national regulation, this affects, for example, stairwells that serve as an escape route in emergencies. So that technically demanding combinations also fulfil aesthetic requirements, individual door profiles from the tried-and-tested Janisol 2 EI30 fire protection system were enhanced through the addition of a basic depth of 70 mm. As a result, transparent Janisol C4 EI60 fire walls – in extreme cases even EI90 fire walls – can now be combined with Janisol 2 EI30 doors with ease. The extended range of steel profiles includes door, transom and sill rail profiles in raw and galvanised finishes. Take account of national approvals.





University library at the
«Humboldt-Universität zu Berlin», Berlin/DE
(Janisol 2 EI30)

Janisol C4 EI60 and EI90 Fire doors

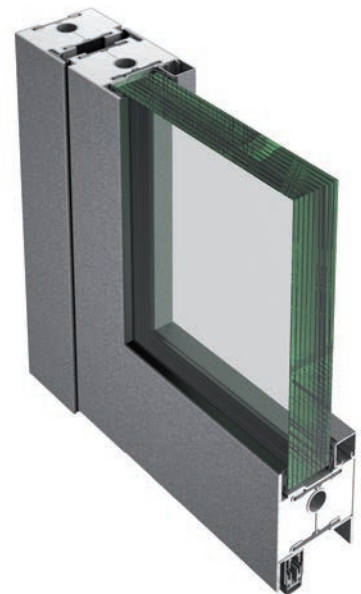
Maximum fire protection

Janisol C4 is a complete profile system for glazed single- and double-leaf fire doors and glazing. The profiles with a basic depth of just 70 mm achieve security classifications up to EI90 due to the innovative fire-resistant infill panels. The profiles are filled with a ceramic fire board in the factory. This board forms a strong attachment to the steel profile, which is not adversely affected by fabrication steps such as cutting or creating lock recesses. Due to its chemical properties, the ceramic board does not affect the steel surface finish, even on contact with fluids. Consequently, rolled steel profiles can also be filled.

As these constructions are often used for emergency escape routes, an electrical connection to monitoring devices and alarm systems is often required. Janisol C4 profiles are therefore supplied with a cable duct as standard, which allows very simple and secure electrical connections. It can be retrofitted, if required.

The appearance of the Janisol C4 fire-resistant construction is identical to the other Jansen fire protection barriers and the thermally insulated Janisol systems.

Janisol C4 permits the use of particularly narrow outer frame profiles. The fabricator has recourse to a wide selection of various glass thicknesses and panels. Centre glazing is also possible. The profile range, fittings, accessories and fabrication aids are identical for EI60 and EI90. The only difference is the choice of glazing. The result is maximum efficiency in planning and storage, as well as in fabrication and installation.







Non-insulated profile systems. Not insulated, but fully functional.

Doors and windows symbolise openness and provide a way in for people, light and air. But they also protect from external influences. The individual requirements for thermal insulation and sound reduction or burglar and bullet resistance determine how doors and windows are to be constructed.

The non-insulated profile systems from Jansen for windows and doors in steel or stainless steel are suitable for use in parts of a building in which there are thermal insulation requirements to fulfil and therefore no insulating properties are required.

The door and window systems of the Jansen Economy series are suitable for dry and wet glazing and are economical and flexible in use. With their minimal basic depths, the complete systems can even be flush-fitted in narrow constructions and still guarantee maximum stability. The door systems are also available with easy-access thresholds.

The range includes the following profile series:

- Jansen-Economy 50 doors (steel and stainless steel): with a basic depth of 50 mm, suitable for flush-fitted single and double-leaf doors and fixed glazing.
- Jansen-Economy 60 doors (steel): with a basic depth of 60 mm, suitable for large, flush-fitted single and double-leaf door constructions and fixed glazing.
- Jansen Economy 50 windows (steel and stainless steel): with a basic depth of 50 mm, suitable for side-hung, turn/tilt, double and bottom-hung vents.



Jansen-Economy Doors and windows



Elegant solutions for every requirement

This profile series is characterised by its simple profile geometry, slender structures and maximum stability. This means streamlined production and economical installation. Single and double-leaf doors, with moving and/or fixed glazing toplights and side lights: constructions with Jansen-Economy 50 and 60 offer potential for creative solutions to

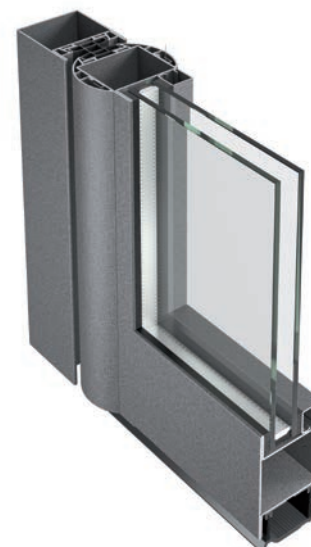
meet any building requirements. The Jansen-Economy 50 and Jansen-Economy 60 door constructions have an impressive flush-fitted design, continuous shadow gaps inside and outside, and a double rebate gasket. An automatic seal or rebate gasket can be fitted around the threshold if required.



Jansen-Economy 60 anti-finger-trap doors: Safety and design perfectly combined

The rounded half profiles minimise the risk of injury at the secondary closing edge. This then prevents crushing and shearing points as per DIN 18650. With maintenance-free, high-performance hinge bushes, Jansen-Economy 60 anti-finger-trap doors are particularly suitable for buildings with high frequency use by the public, e.g.

shopping centres, schools or hospitals. Jansen-Economy anti-finger-trap doors meet the product standard EN 14351-1 for external doors and are CE certified. The anti-finger-trap doors are compatible with the Janisol profile range. Integrated door closers and automatic side-hung door drives can also be installed.



Jansen-Economy windows – en vogue with a slimline look

With a basic depth of just 50 mm (or 58.5 mm) for the vent profile, Jansen-Economy 50 is also suitable for window vents: side-hung, turn/tilt, double or bottom-hung vents. Fully-tested, system-specific fittings are available for all opening types,

complemented by attractive window handles in aluminium or stainless steel. Jansen-Economy 50 window constructions have a centre gasket in the area around the window rebate plus a rebate gasket on the room side.



The Jansen Economy systems have successfully passed the tests laid down in the product standard EN 14351-1. **On this basis, manufacturers can label windows and external doors with the CE mark which is obligatory throughout the EU.**



Information centre at the University of Zaragoza, Zaragoza/ES
(Jansen-Economy windows)



Chanel Boutique «Crystal Houses», Amsterdam/NL
Jansen-Economy 50 satinless steel

Jansen-Economy 50 Stainless steel



The perfect choice for every requirement

Jansen-Economy 50 stainless steel profiles are now available in two different qualities. Both modern materials 1.4404 (AISI 316L) and 1.4307 (AISI 304L) are based on the latest findings in steel research. They are specially tailored to architectural and functional requirements in normal or in aggressive atmospheres. Use specific to requirements affords significant optimisation of material

costs. Profile shapes and basic depths are identical to Jansen-Economy steel profiles. This makes it easy for the developer to combine the profile series and for the fabricator to use identical accessories.

An attractive range of stainless steel fittings has been added to the comprehensive range of products for windows and doors.

Material 1.4307 (AISI 304L) is preferred for normal, non-aggressive atmospheres without chlorine and salt concentrations:

- In a rural environment
- In residential and industrial areas
- Indoors

Material 1.4404 (AISI 316L) is also resistant to atmospheres containing chloride and salt. It is therefore particularly suitable for use:

- In industrial areas
- In coastal areas
- In areas with strict hygiene requirements
- Near roads (with a salt load)



Jansen-Economy 60 Folding wall



Steel folding wall

This folding wall is based on the non-insulated Jansen-Economy 60 system. Flexible in use, the folding wall system can be used as a room divider as well as for outside areas, and can be inward or outward-opening. A compatible range of fittings and accessories ensures proper, smooth and quiet operation.

A range of designs is available for the threshold. Depending on the size and loading, profiles with a face width of 25 mm or 50 mm can be used.

The load-bearing capacity of the top running gear is up to 200 kg, which in turn permits leaf weights of up to 100 kg.



Kefi Tea House, Ankara/TR
(Jansen-Economy 60)

Folding and sliding doors

Manual and automatic



For folding and sliding doors, Jansen provides a coordinated range of profiles with basic depths of 50, 60 and 80 mm, as well as accessories and fittings to meet all requirements. The folding doors can be rebated behind, in or in front of the opening. They can be designed as inward or outward-opening doors, and with virtually any leaf division. Sliding doors come into their own when a space-saving design is required. Infill

panels or glass infills can be used to meet increased demands for high-quality products.

The range of profiles and gaskets is suitable for both manually and automatically operated door systems. The complementary fittings are also fully tested and guarantee a long service life with reliable, quiet and smooth operation.

Jansen folding doors have been tested in accordance with EN 13241-1 together with drives from Gilgen, a leading drive technology company. In this way, we provide our partners with the necessary prerequisites for CE marking, which is a legal requirement for both manual and automatic doors.



Fire station, Heidelberg/DE
(Jansen folding doors)

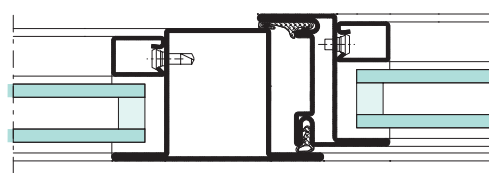


Rue Bergère, Paris/FR
(Art System)

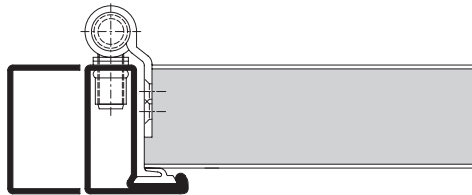
Standard profiles

Doors and windows

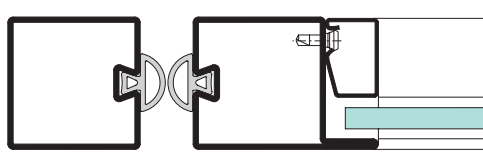
The comprehensive range of profiles with basic depths of 40, 50, 60 and 80 mm opens up design options for doors and windows. Functional and attractive single and double-vent designs are possible, with side sections and toplights, as curved doors or swing doors. With fixed glazing, the excellent structural properties of steel are clear to see. They allow slender frame dimensions and torsion-resistant units, even for large constructions.



Standard window profiles



Frame doors



Swing doors



Fire station Champperret, Paris/FR
(VISS TVS, VISS Fire EI60)