Janisol – thermally insulated doors and windows

Steel and stainless steel

murillomuriel
carpinterías - muros cortina - lucernarios

JANSEN

Steel systems

For doors, windows and façades

We take our inspiration from nature. The known structural benefits of plant stems and long bones are applied to steel profiles. The very slender profile dimensions mean more light and more scope for creativity. Architects, designers and users value the range of options available.




Steel is robust and can withstand mechanical damage. Jansen profile systems are therefore particularly suitable for all buildings frequently used by the public: in commercial and industrial buildings, in schools and hospitals, sports and leisure centres, in service centres and railway stations. Of the materials widely used in building construction, steel has the highest modulus of elasticity, at around 210 kN/mm^2. The material benefits offer new and interesting options in structural dimensioning, in fire applications, burglar-resistant constructions and in sound reduction. The wide range of products also includes thermally insulated systems and stainless steel profiles.

Doors, windows and façades are created using Jansen tubular steel profile systems. Industrial pre-fabrication means simple, time-saving and cost-effective manufacture. Our comprehensive range of profiles is complemented by a complete range of fittings and accessories, and by ophisticated fabrication tools. In addition to technical documentation and specialist «Janisoft» planning software, comprehensive consultancy and training is available for architects, designers and fabricators.

Janisol – Doors and windows

Proven technology in perfect harmony

Janisol doors. Proven technology in perfect harmony. The flush-fitted door profile series is ideally suited to creating visually attractive and structurally superior 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, enamelling and wet coating are all possible. The appearance is co-ordinated to match the other Jansen door systems for fire and smoke protection. The sight lines are practically identical. For the designer, this guarantees that sight lines are identical even where requirements are different.

Janisol anti-finger-trap doors. Safety and design are 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. Janisol anti-finger-trap doors meet the product standard EN 14351-1 for external doors and are CE certified. The cable link connector from the frame to the leaf is concealed in the top hinge bush. 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.

The Janisol 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.**

CE

Janisol windows. Modern technology with a classical touch. Highly stable welded frames allow construction of large windows with extremely slender frames. 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 new buildings, 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). There are side-hung, turn/tilt, bottom-hung and double-vent window options, as well as tilt/slide doors or purely fixed glazing and also combinations of these.

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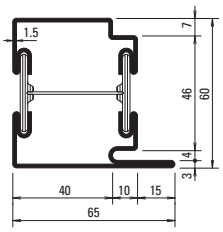
Profile range

Janisol doors and windows



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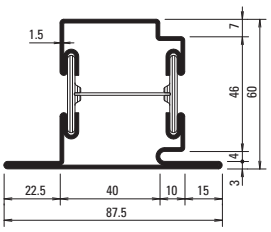

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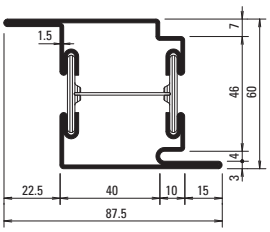

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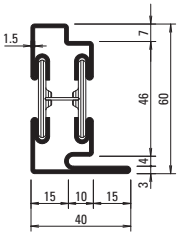

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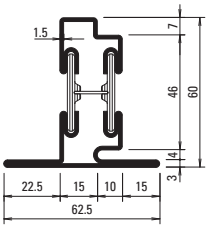

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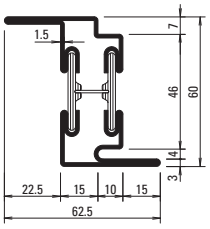

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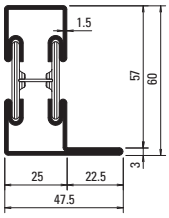

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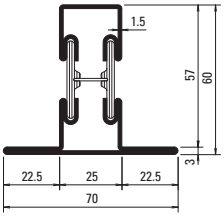

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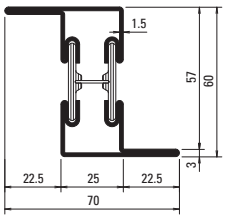

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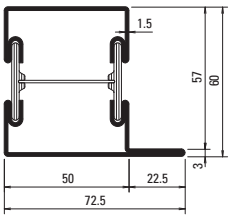

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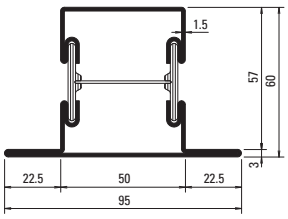

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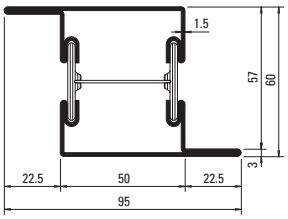

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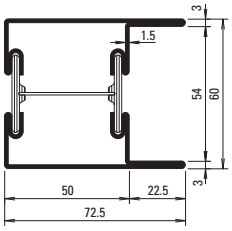

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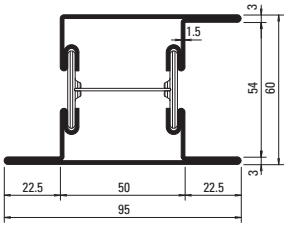

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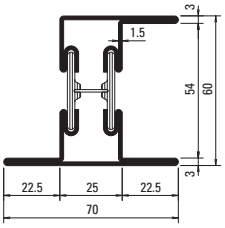

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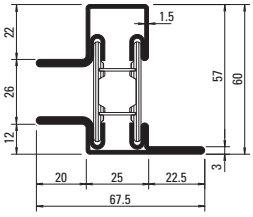

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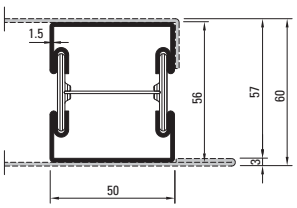

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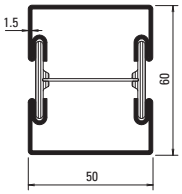

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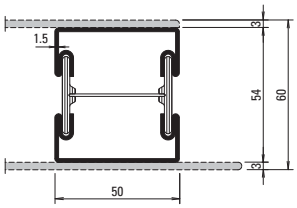

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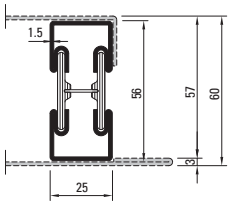

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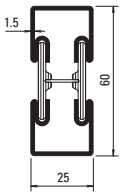

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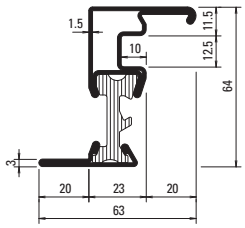

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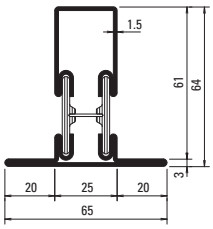

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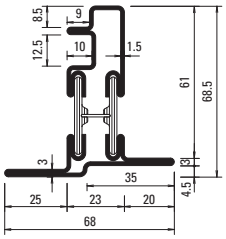

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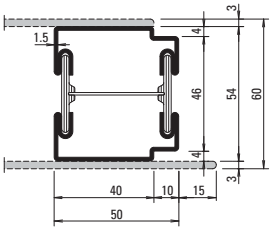

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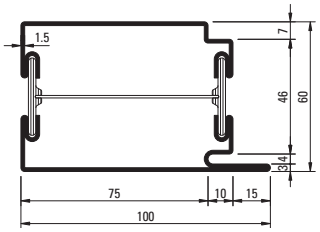

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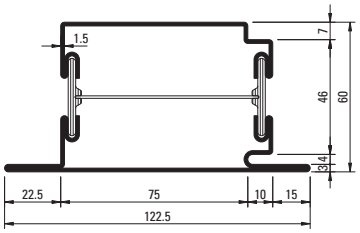

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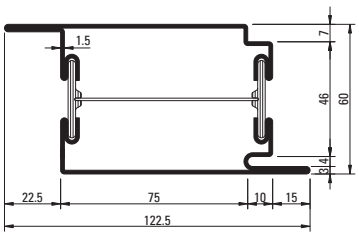


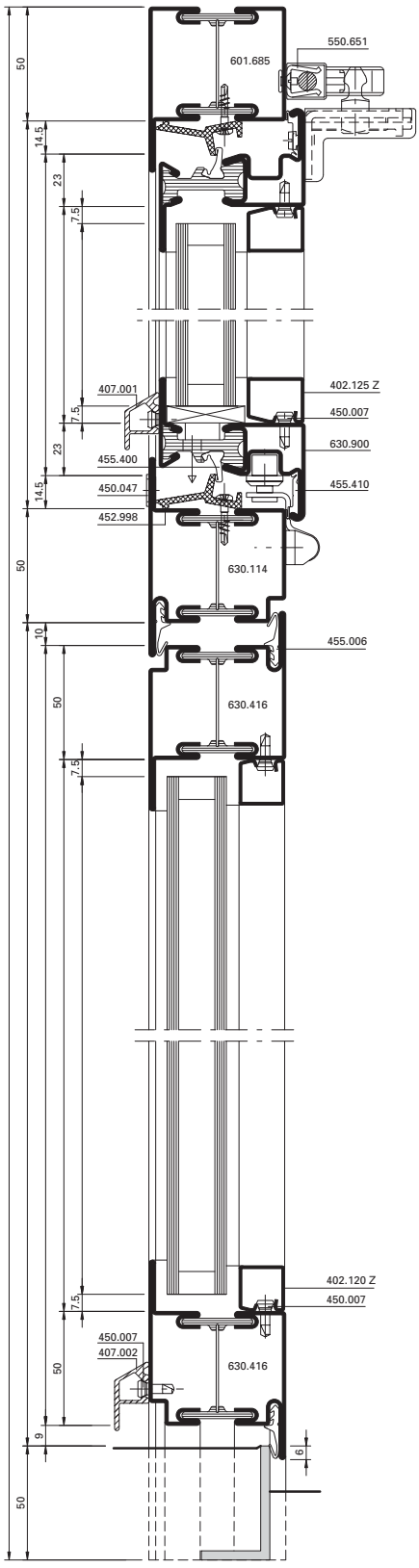
630.417
630.417 Z

Z = made from hot-dip galvanised steel strips, lightly oiled (275 g/m² zinc coating on both sides = approx. 20 µm zinc inside and outside)

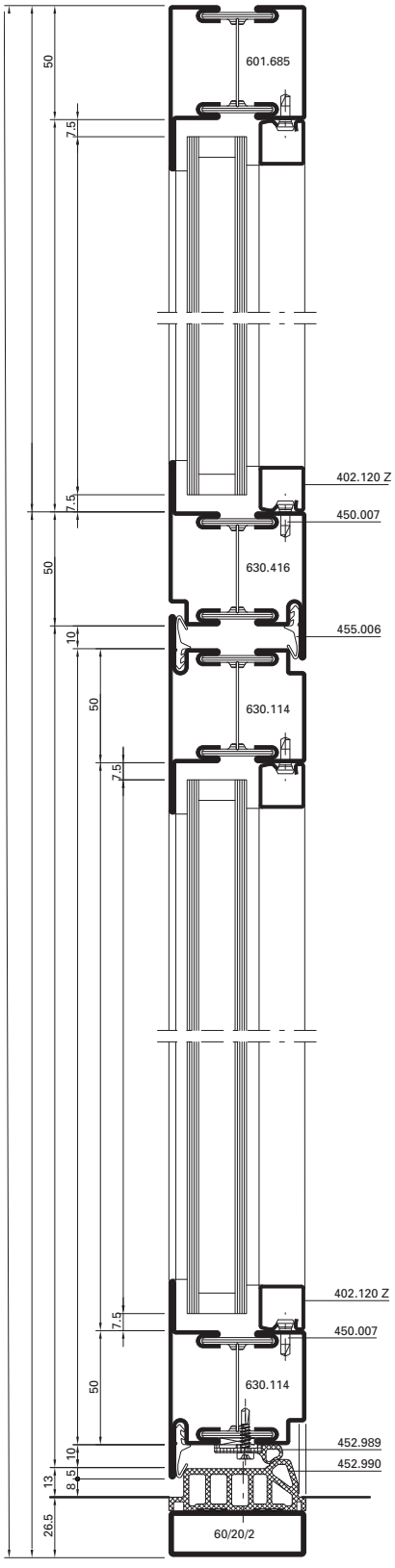
Janisol doors

Example of application

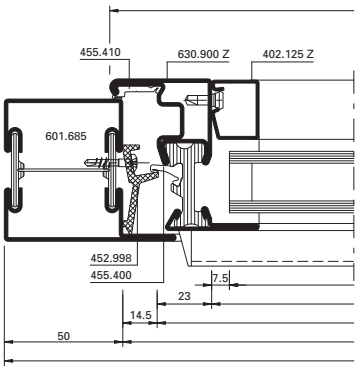
B-B

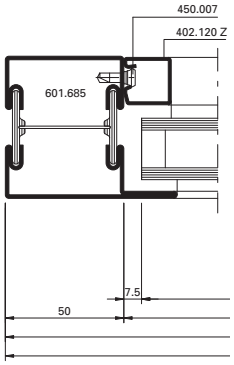


D-D

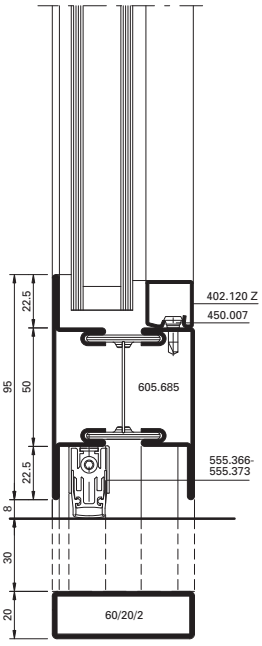


Detail A'

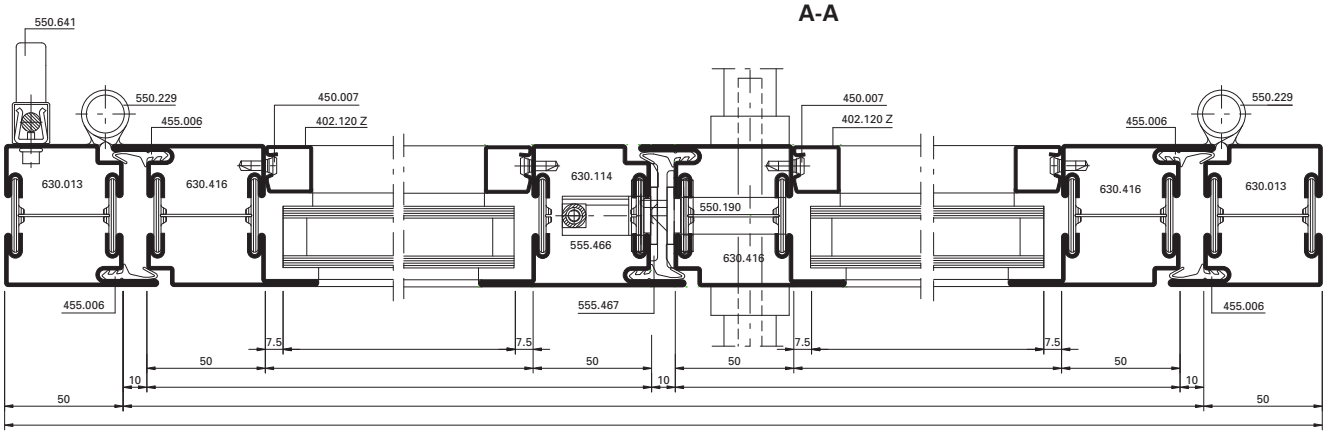




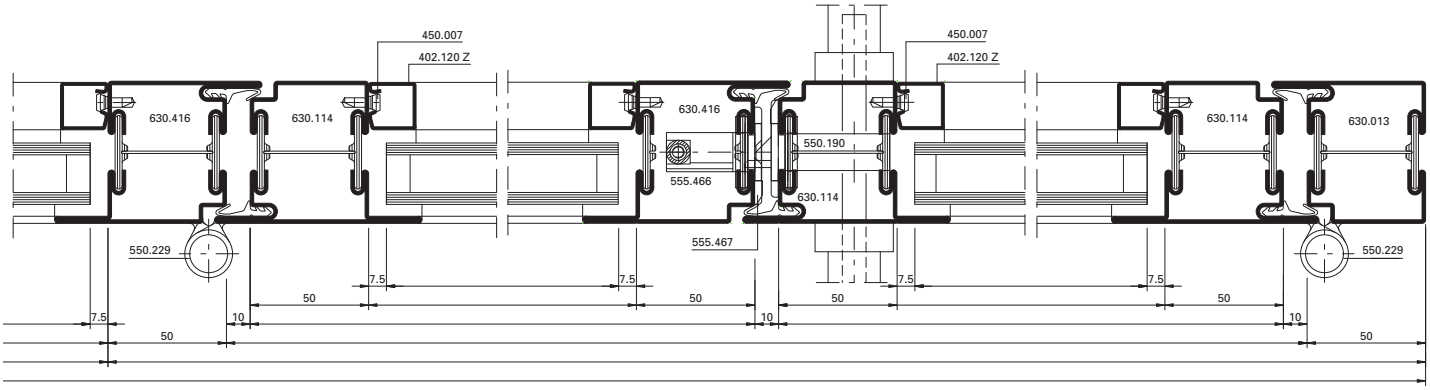
Alternative

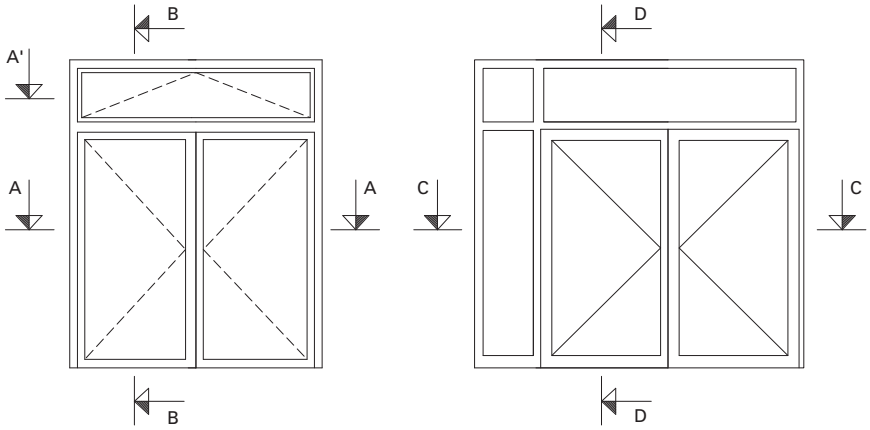


A-A



C-C

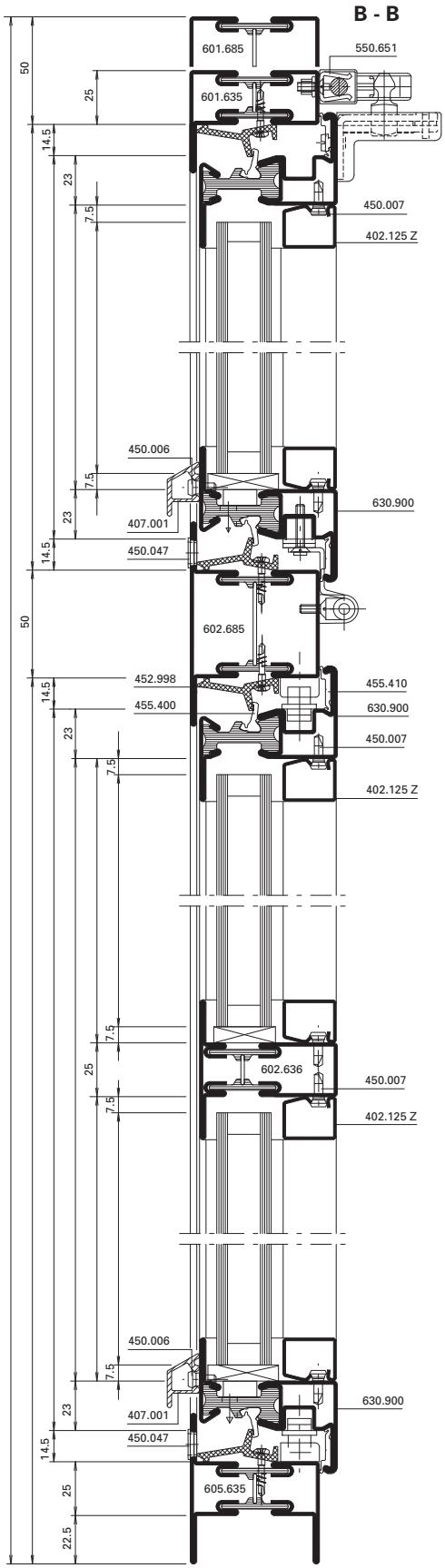


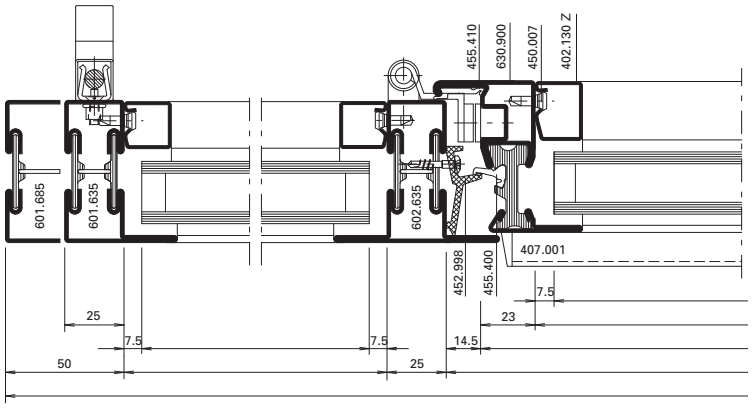


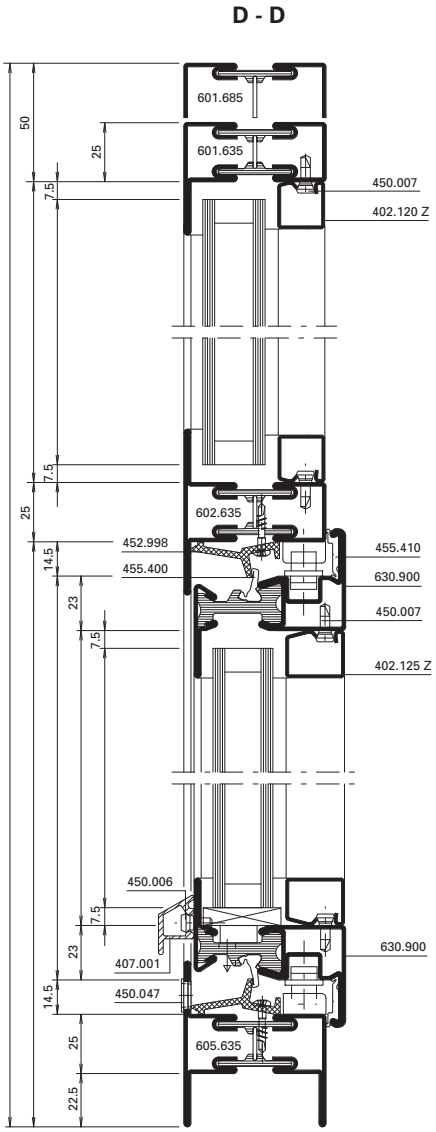
The practical examples are available as DXF files at www.jansen.com

Janisol windows

Example of application







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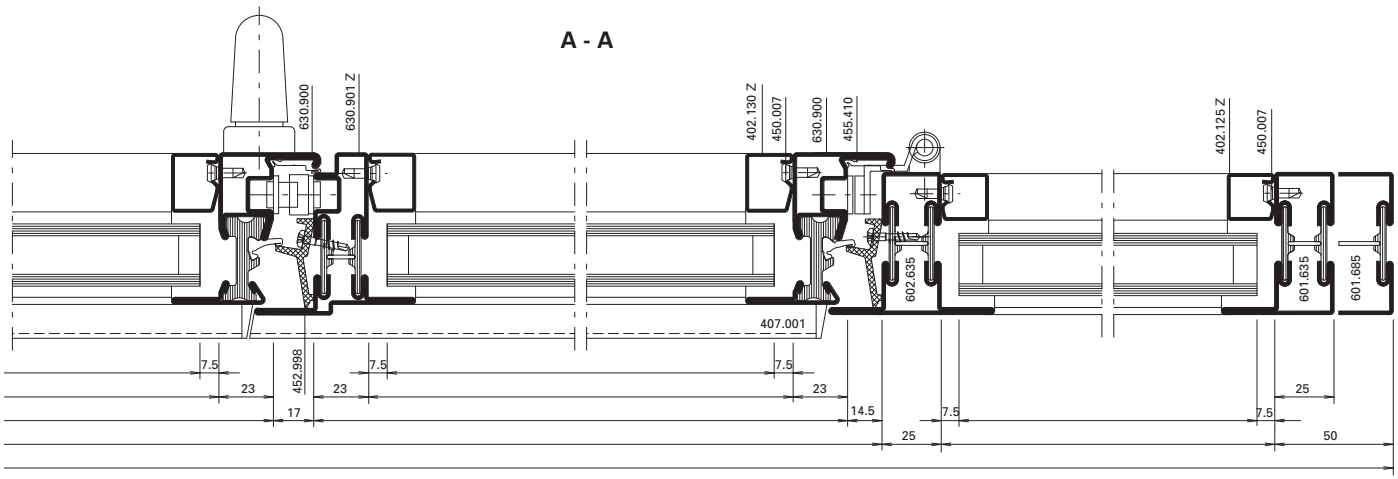

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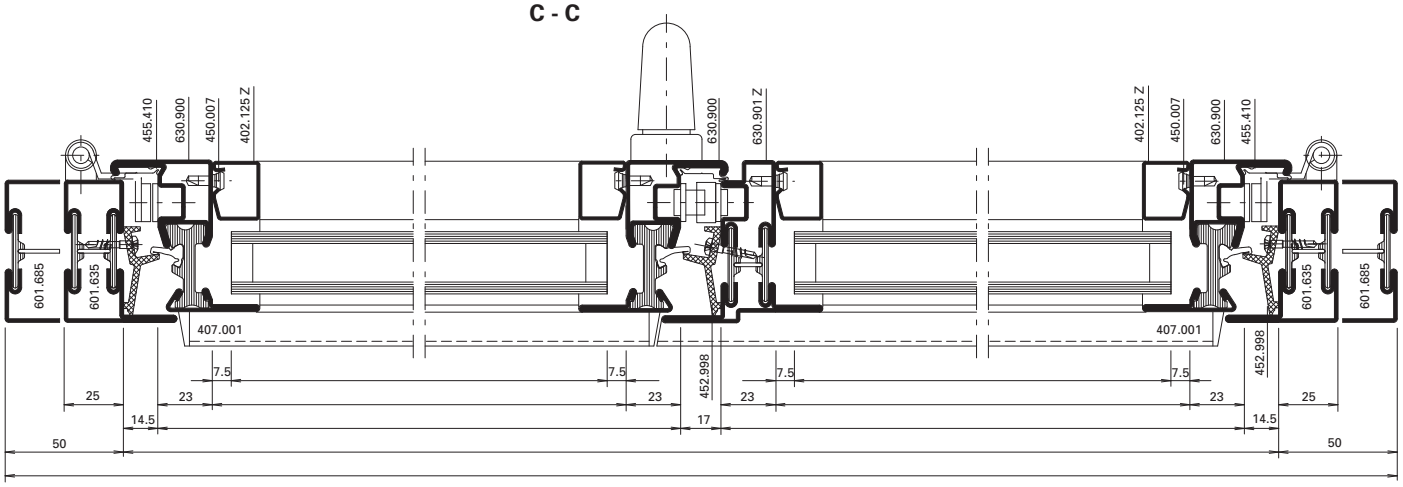
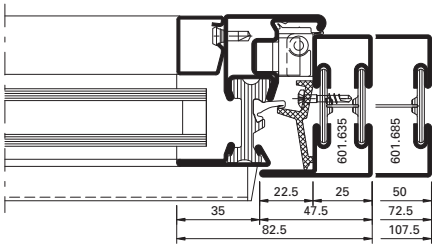
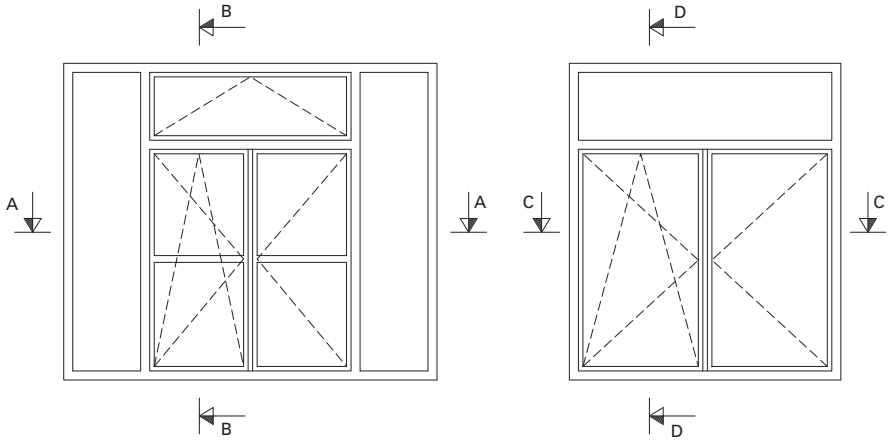


Alternative: concealed window fitting





The practical examples are available as DXF files at www.jansen.com

Janisol stainless steel

An energy-saving investment for generations to come. These slimline, thermally insulated profiles in 1.4401 (AISI 316) stainless steel complement the tried and tested Janisol range.

This material is particularly suitable for use::

- In industrial areas
- In coastal areas (salty air)
- In areas with strict hygiene requirements
- Near roads (withstands salt and grit)

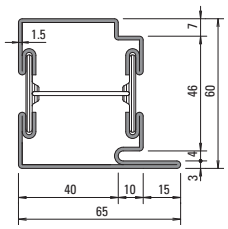
Janisol stainless steel doors: for elegant durability. Thermally insulated stainless steel profiles are based on tried and tested Janisol technology. Profiles and sizes are the same as those in the Janisol range. This makes it possible for the designer to combine both types of steel easily and for the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

Janisol stainless steel windows. Exceeds even the highest of standards. Whether you are considering using stainless steel for reasons of function or because of its appearance, Janisol windows meet both requirements. A comprehensive range of fittings with the appearance of stainless steel (galvanised and white-chromated) can be used for side-hung, turn/tilt and bottom-hung windows as well as tilt/slide doors.

CE

Profile range

Janisol stainless steel



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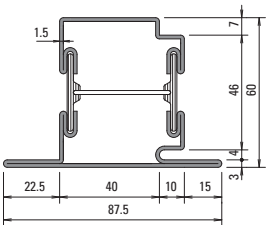

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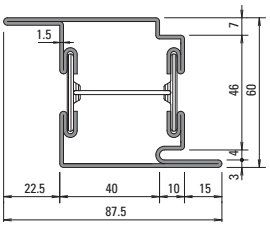

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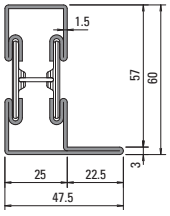

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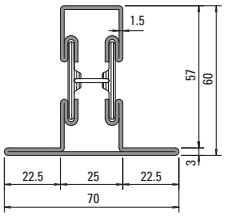

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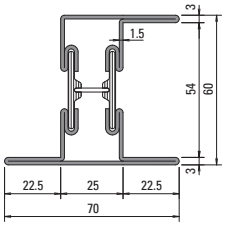

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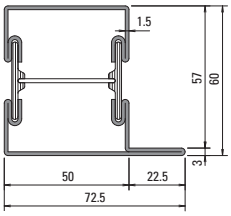

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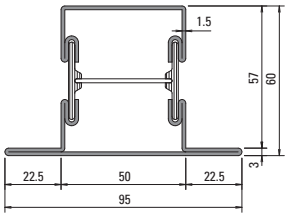

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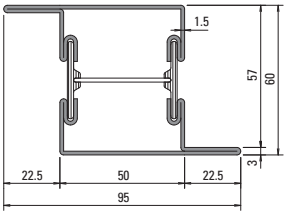
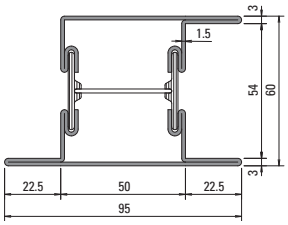
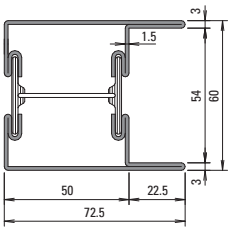


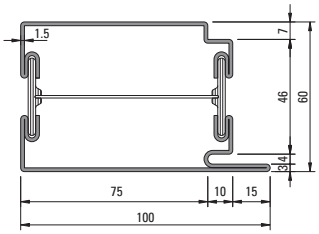
603.685.01



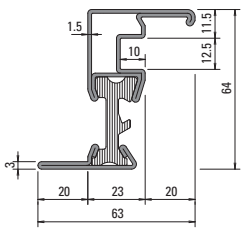
605.685.01



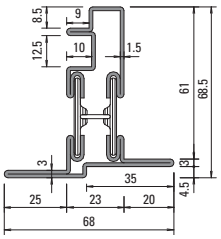
604.685.01



630.016.01



630.900.01



630.901.01

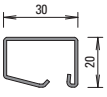
Material:
stainless steel 1.4401 (increased corrosion resistance) suitable for industrial environments and coastal areas

Surface: plain rolled, exposed faces can be polished on request.

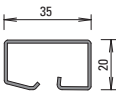
402.515

402.520

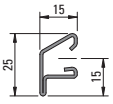
402.525



402.530



402.535

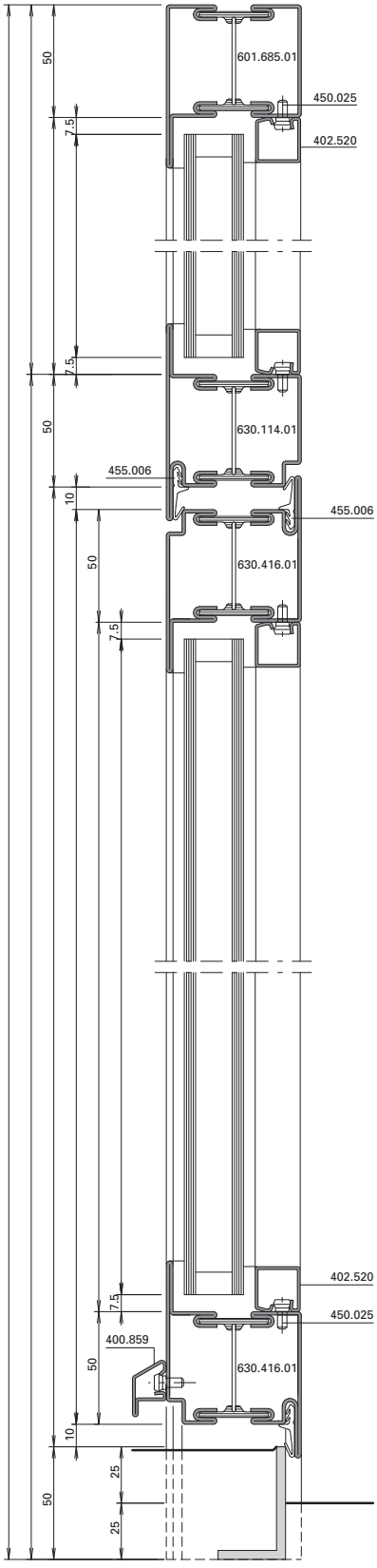


400.859

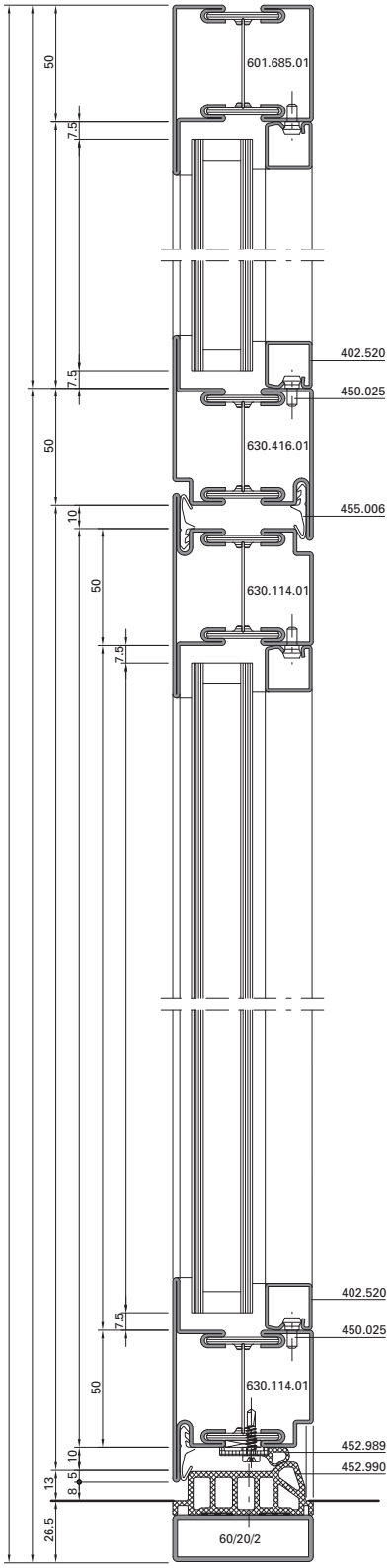
Janisol doors stainless steel

Example of application

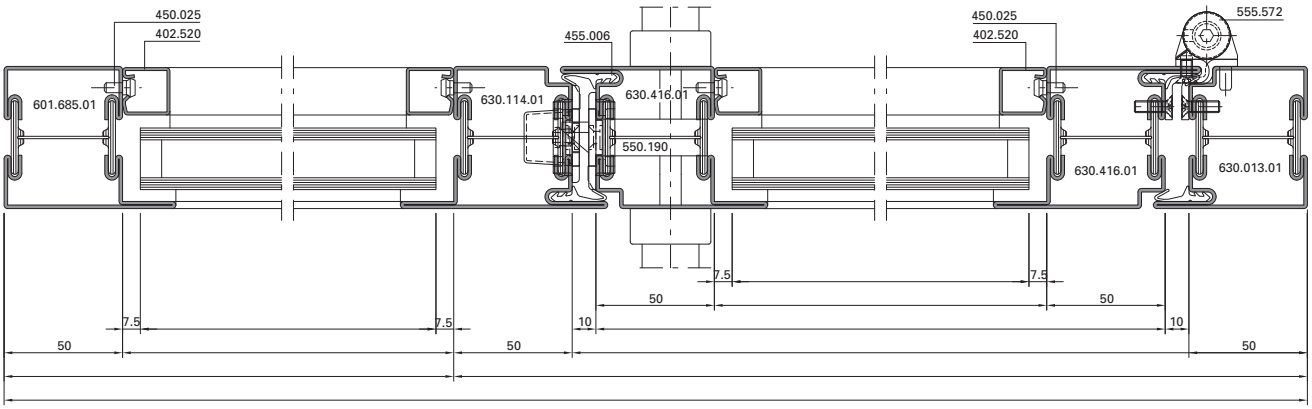
B-B



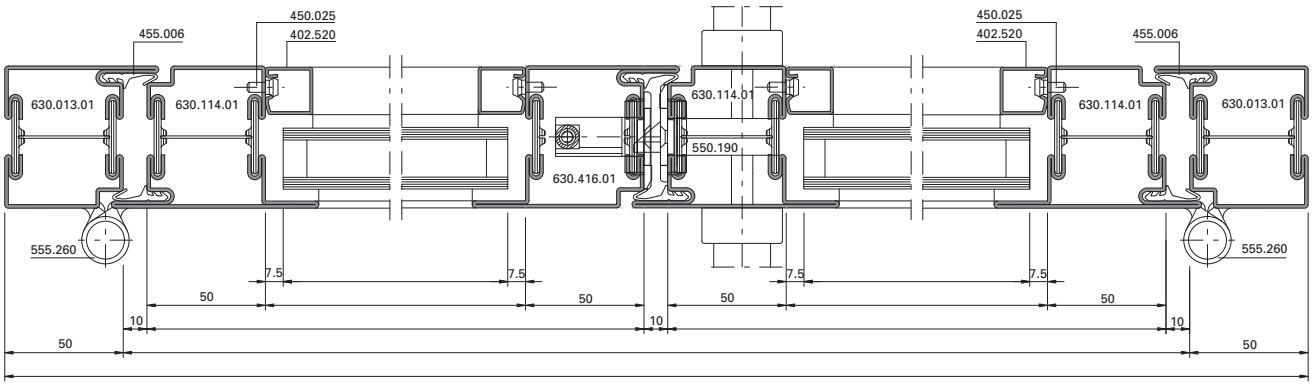
E-E



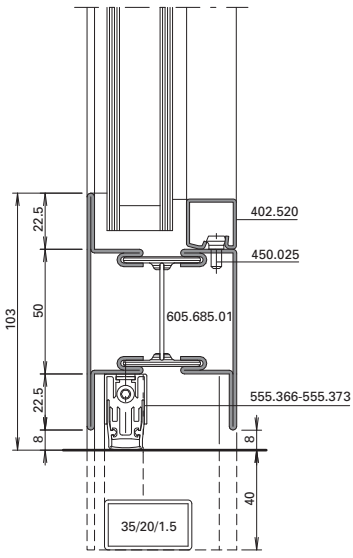
A-A

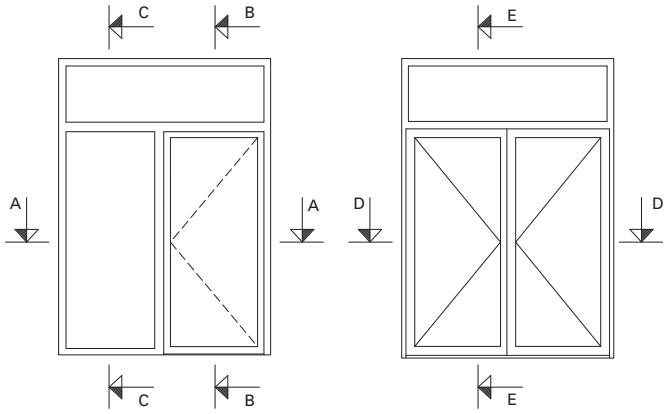


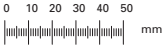
D-D



Alternative





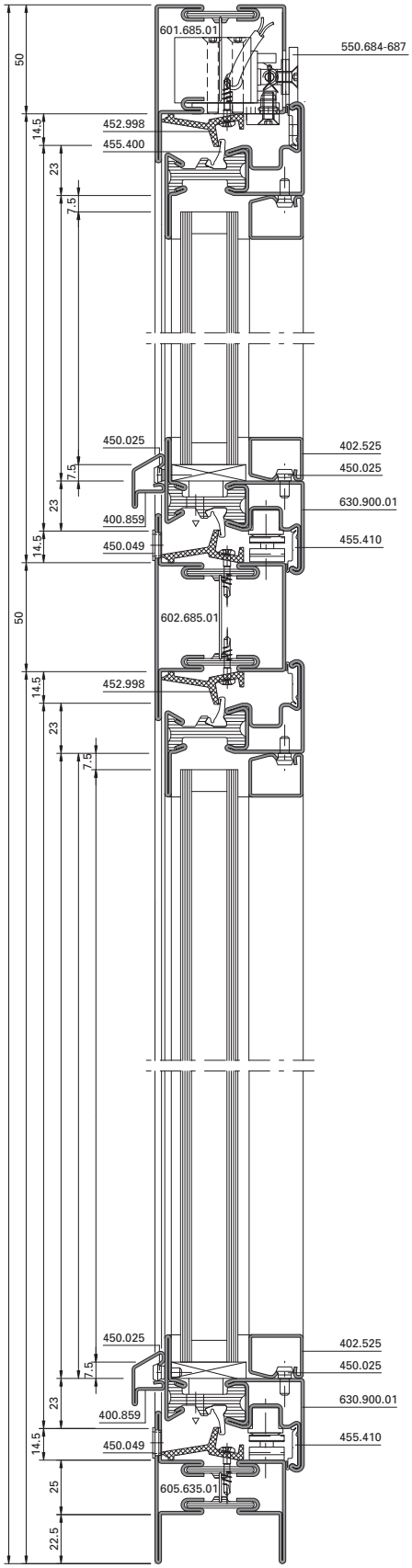


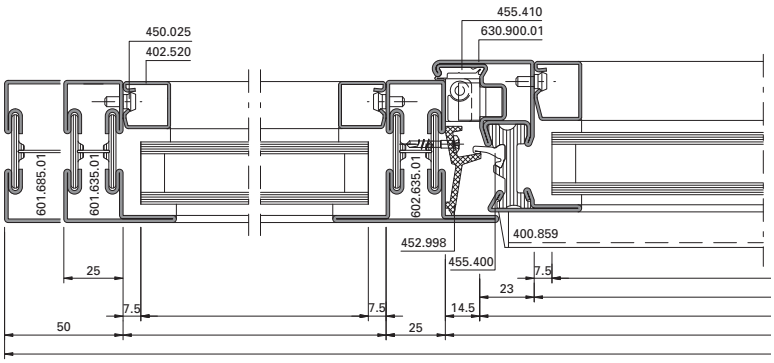
The practical examples are available as DXF files at www.jansen.com

Janisol windows stainless steel

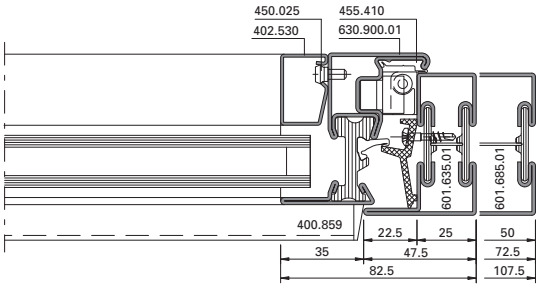
Example of application

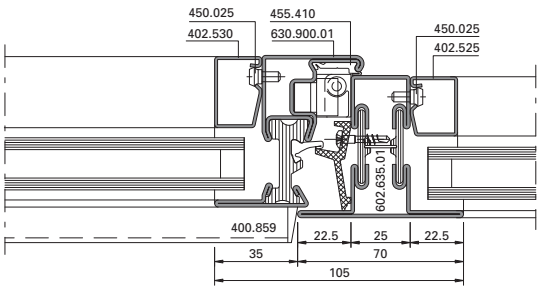
B-B



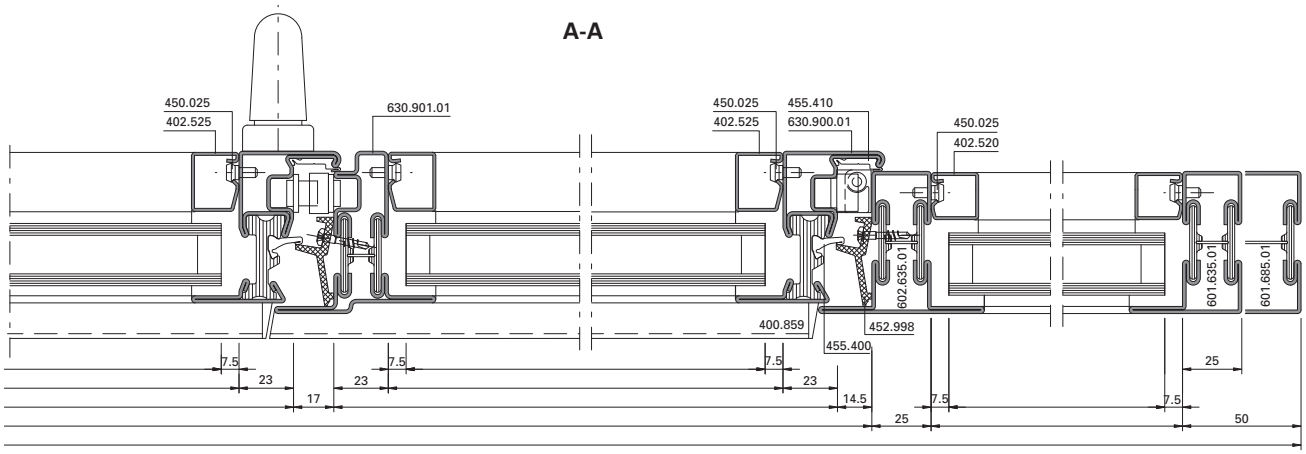


Alternative: concealed window fitting

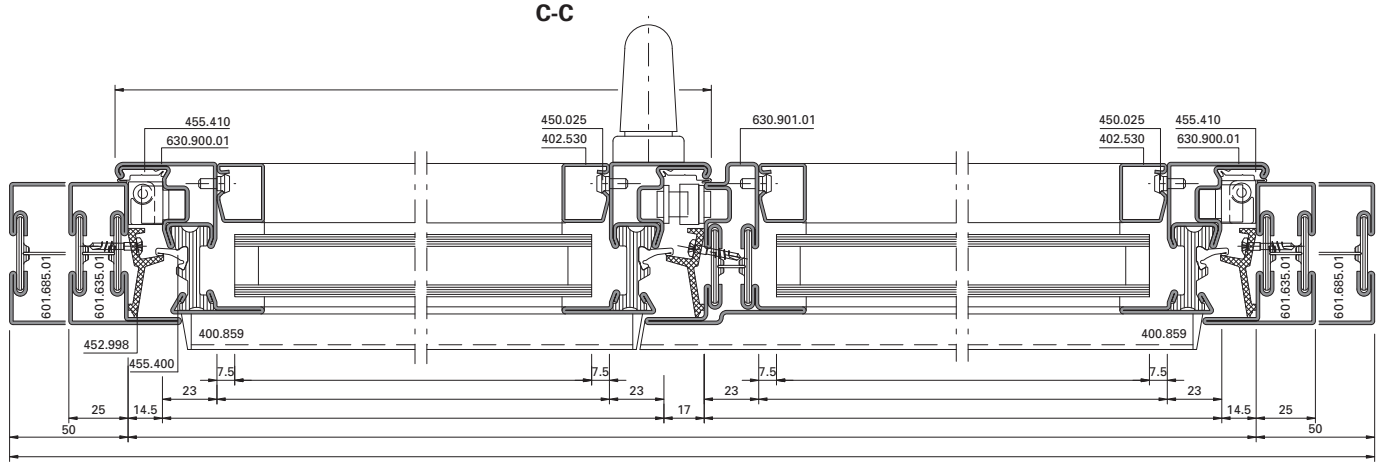




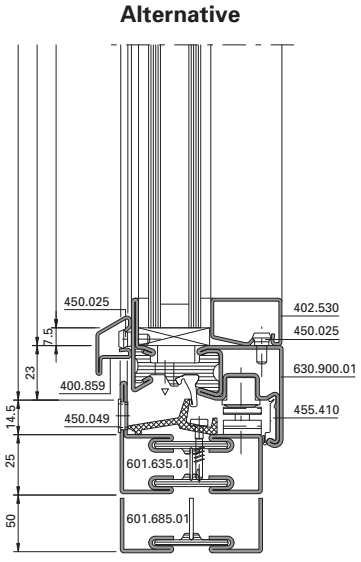
A-A

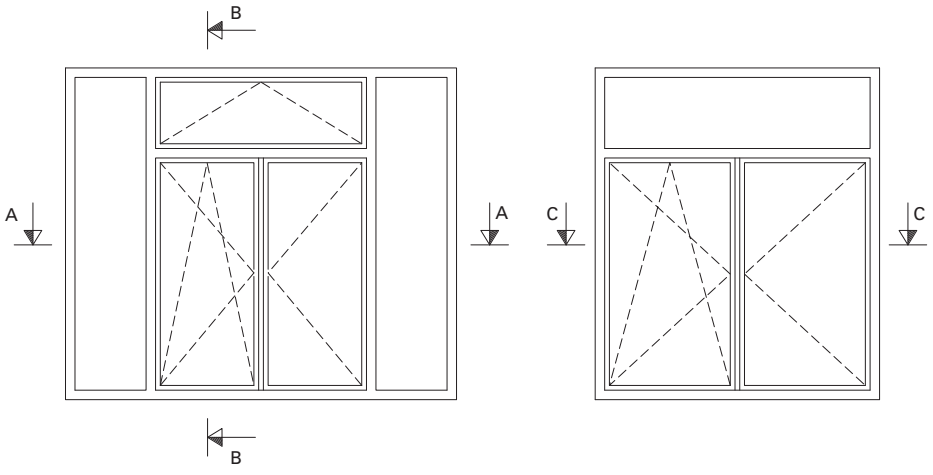


C-C



Alternative



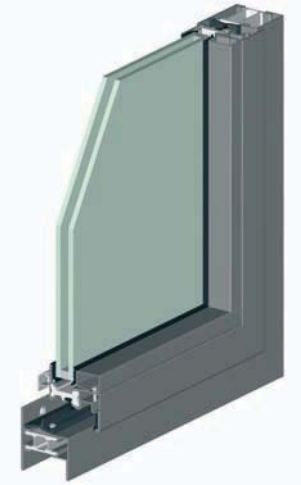


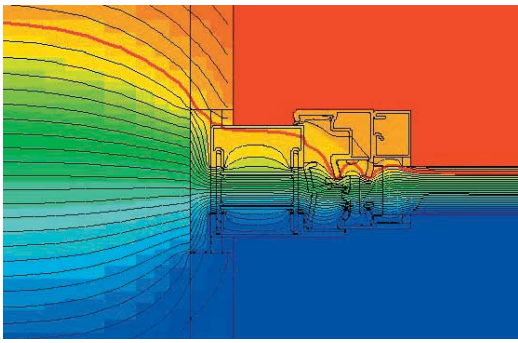
The practical examples are available as DXF files at www.jansen.com

Janisol Primo windows

Focus on thermal insulation

High quality insulation in a minimum of space. This highly thermally insulated profile system with a construction height of only 60 mm (64 mm vent) allows efficient fabrication of fixed glazing and windows (side-hung, turn/tilt and bottom-hung) as well as tilt/slide window doors.
All window vents have a centre gasket and a rebate gasket on the room side. We stock a range of system-tested fittings with one-hand operation and multi-point locking for all possible window 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.





Energy-saving measures and thermal insulation are increasing in significance as buildings begin to be viewed as a whole. For both economic and ecological reasons, the window should be accorded greater importance.

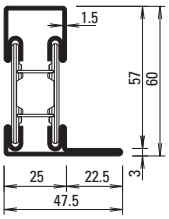
The heat transfer coefficient value U_f has been calculated in accordance with prEN ISO 10077-2:1998 «Calculation of the heat transfer coefficient values U_f – numerical method for frames» and is 1.4 to 2.5 W/(m²K) for all combinations of the Janisol Primo system (ift-test report 432 256 35/1 dated 21.7.2003).

CE

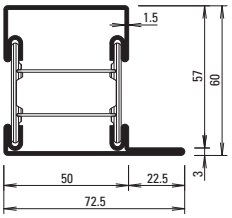

Universität Stuttgart

Profile range

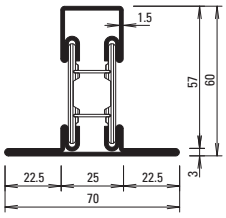
Janisol Primo windows



601.635.6 Z



601.685.6 Z



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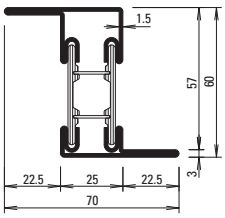

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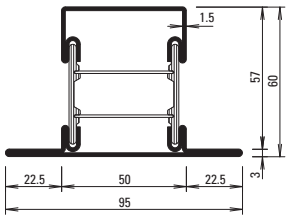

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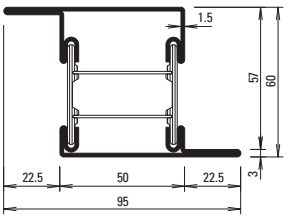

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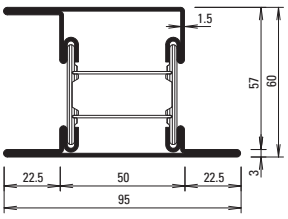

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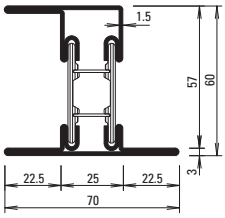

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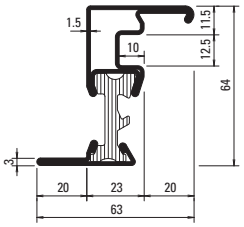
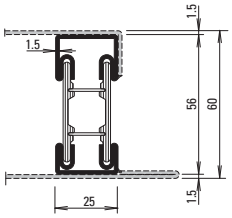
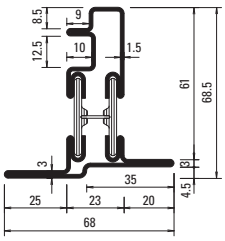


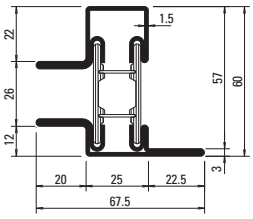
630.900 Z



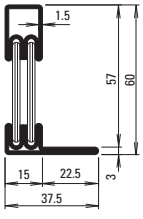
600.002.6 Z



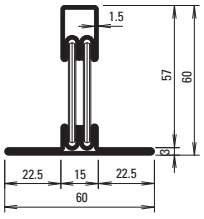
630.901 Z



601.699.6 Z



601.634.6 Z



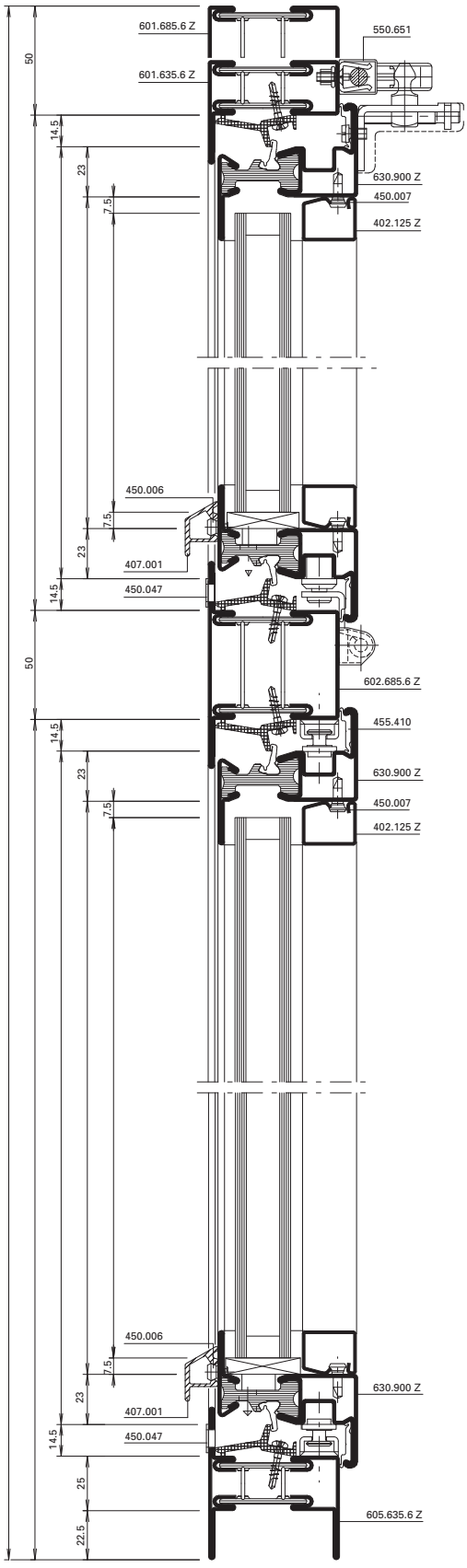
602.634.6 Z

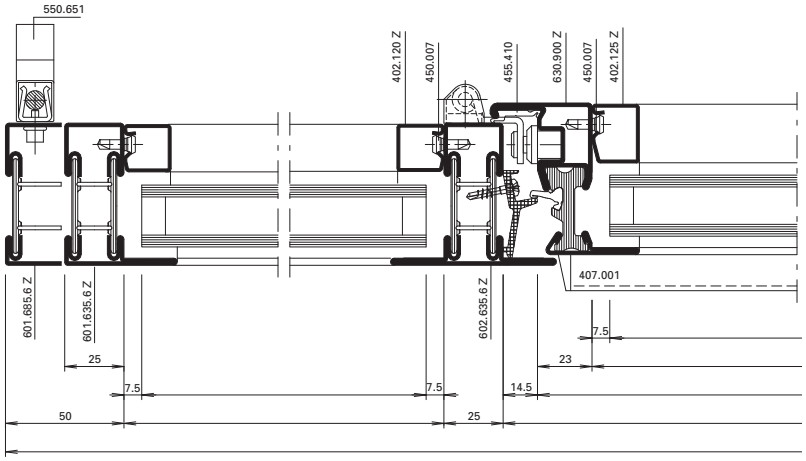
Z = made from hot-dip galvanised steel strips, lightly oiled (275 g/m² zinc coating on both sides = approx. 20 µm zinc inside and outside)

Janisol Primo windows

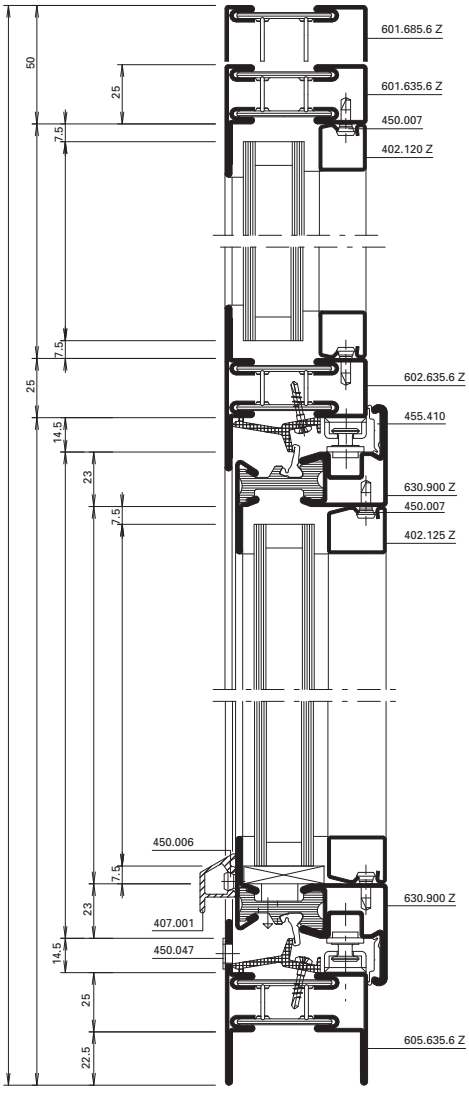
Example of application

B-B

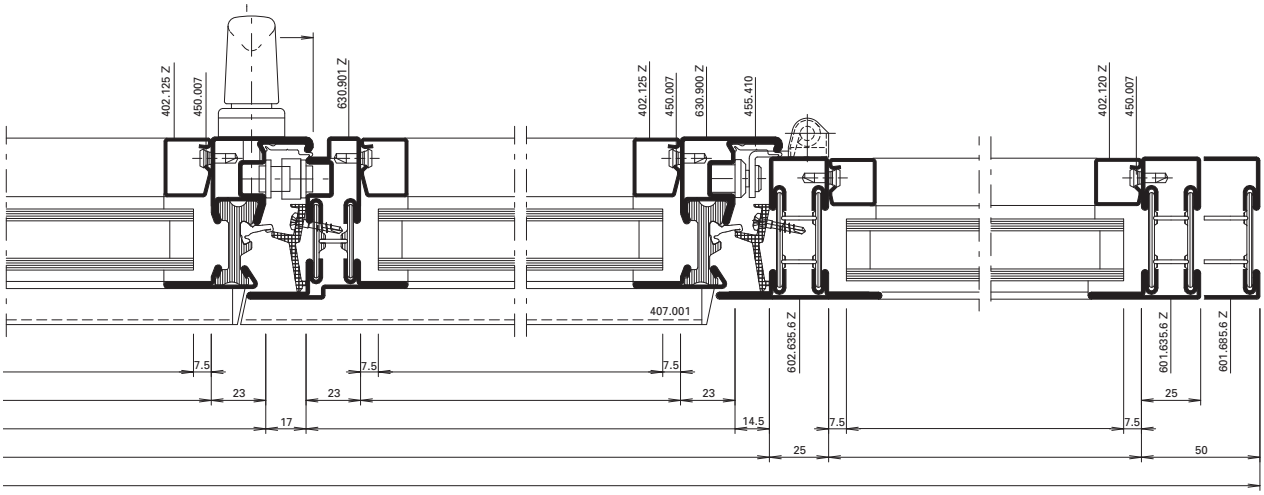




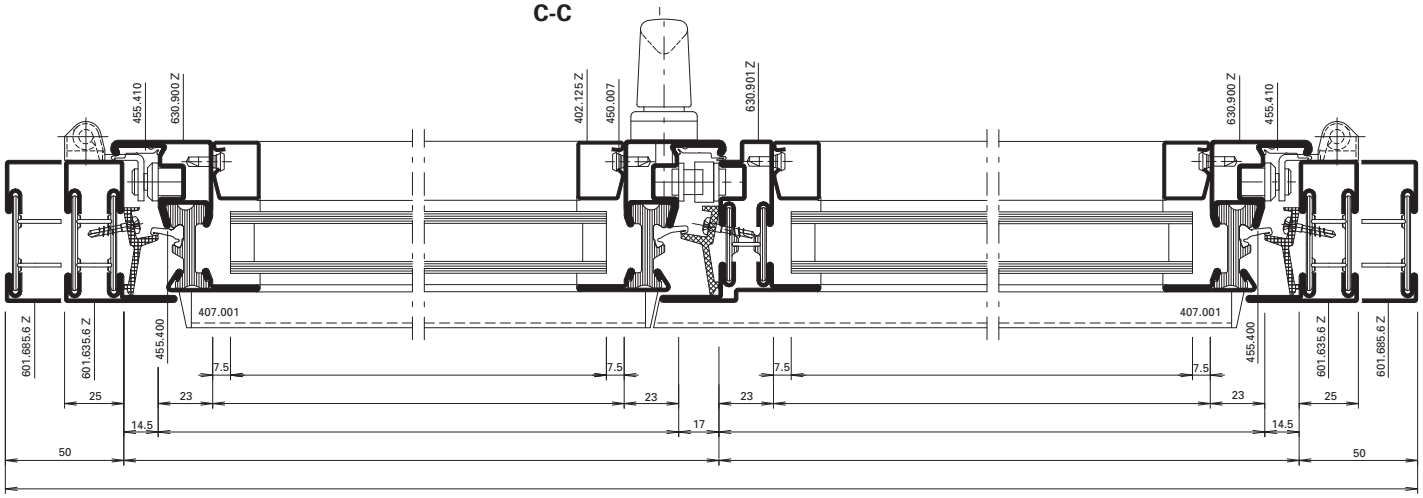
D-D



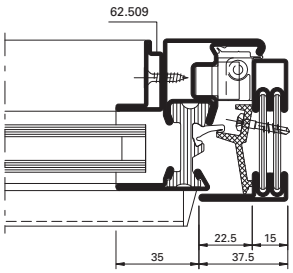
A-A

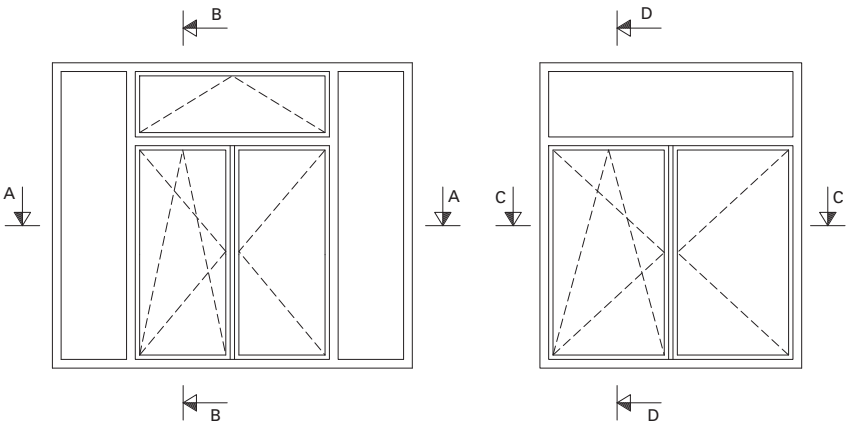


C-C



Alternative: concealed window fitting





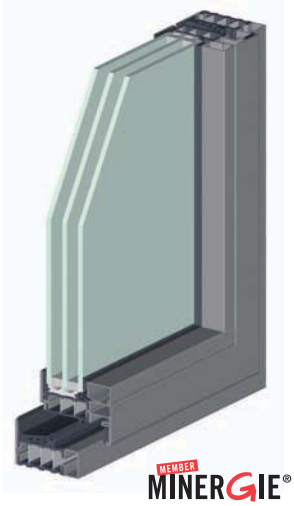
0 10 20 30 40 50 mm

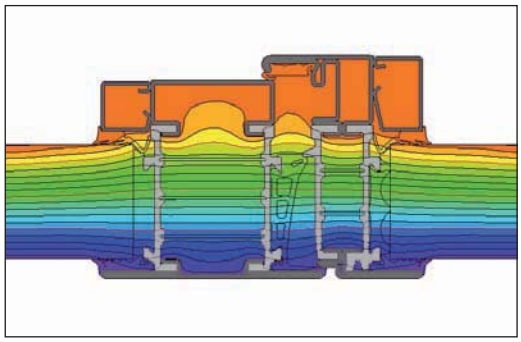
The practical examples are available as DXF files at www.jansen.com

Janisol HI

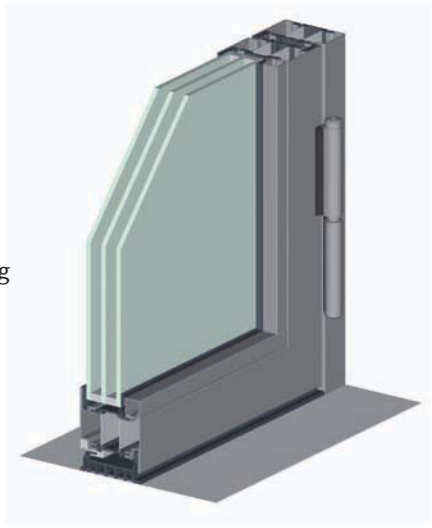
Highly insulated solutions for minimal thermal flow

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 and watertight, easy to use, meet structural requirements, but also be highly attractive. Janisol HI steel windows and fixed glazing feature isolators made from glass fibre-reinforced polyurethane and boast optimum thermal and structural properties, achieving U_W values to 0.69 W/m²K for fixed glazing and U_W values to 0.8 W/m²K for windows. With a basic depth of 90 mm, vent dimensions of up to 2800 mm and a vent weight of 180 kg are possible. Different infill unit thicknesses up to 67 mm can be used with triple glazing, but also with burglar-resistant or bullet-resistant glass. 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.





Highly insulated steel doors reduce thermal flow to a minimum. In busy public buildings in particular, the requirements for thermal insulation and security are even greater. Janisol HI steel doors conveniently combine mechanical stability with high thermal insulation properties in one single steel profile system. Thanks to isolators made from glass fibre-reinforced polyurethane, Janisol HI achieves U_D values to 1.0 W/m²K. With a basic depth of 80 mm, infill unit thicknesses of up to 57 mm can be used with triple glazing and burglar-resistant or bullet-resistant glass. A comprehensive and co-ordinated 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 high-tech isolators, the lock is easy to fix in place and extremely efficient fabrication is guaranteed.

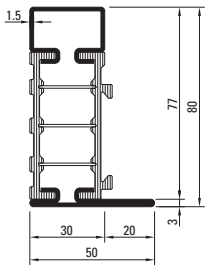


CE

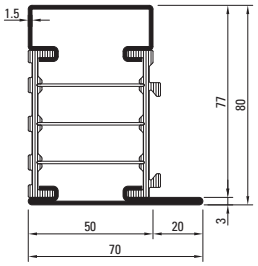
Janisol HI profiles

Windows, doors and fixed glazing

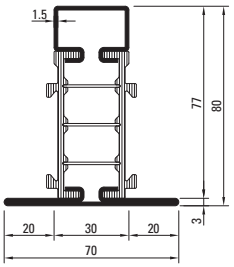
Fixed glazing



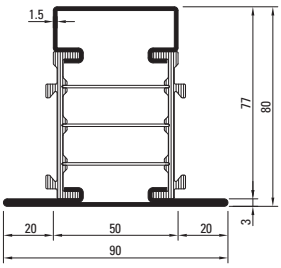
681.630 Z



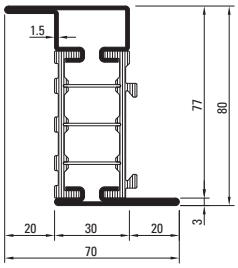
681.650 Z



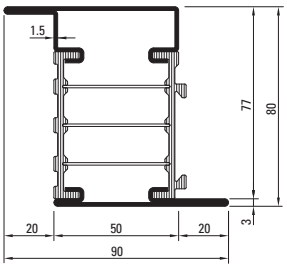
682.630 Z



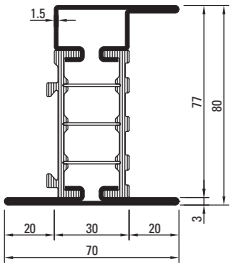
682.650 Z



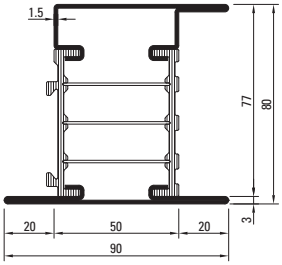
683.630 Z



683.650 Z

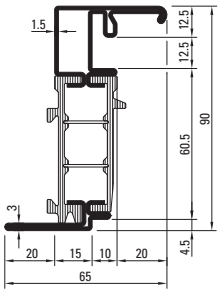


685.630 Z

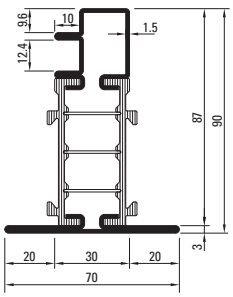


685.650 Z

Windows

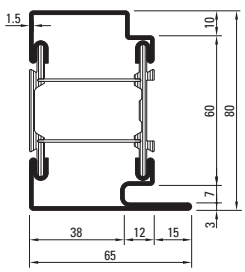


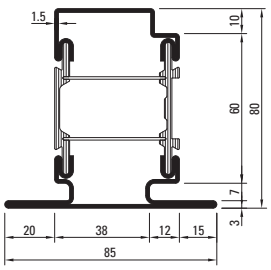
680.900 Z

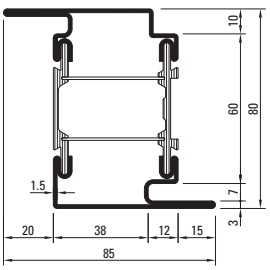


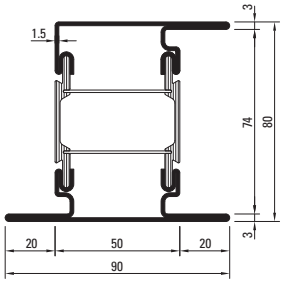
680.901 Z

Doors





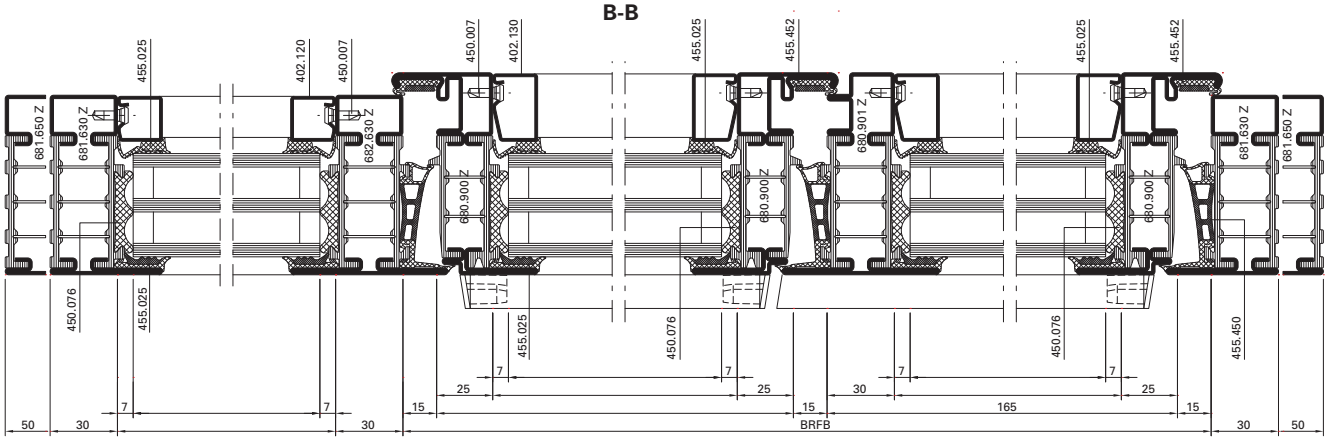




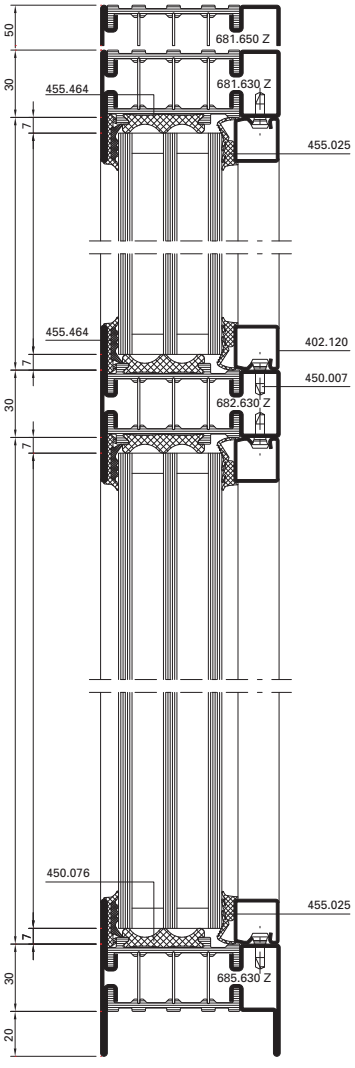
Janisol HI windows

Example of highly thermally insulated windows

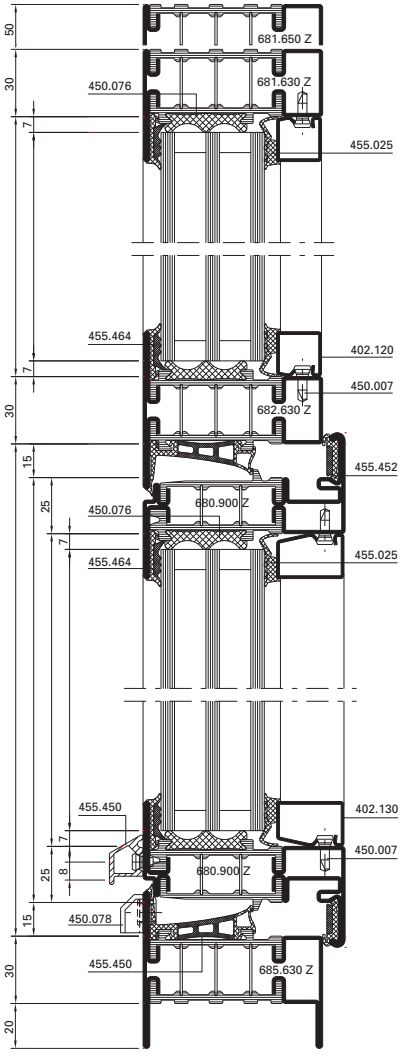
B-B

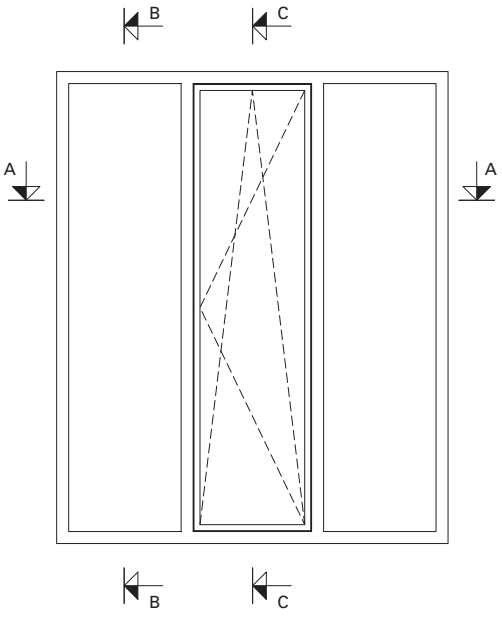


C-C



D-D

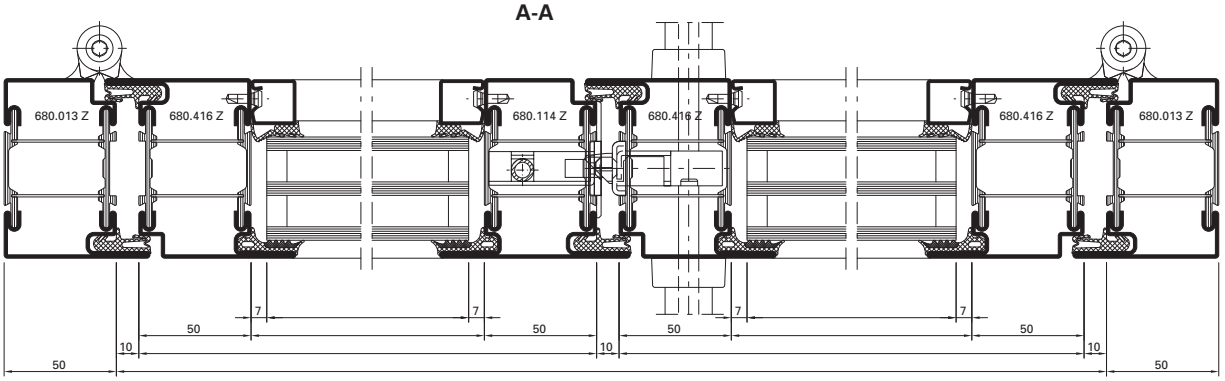




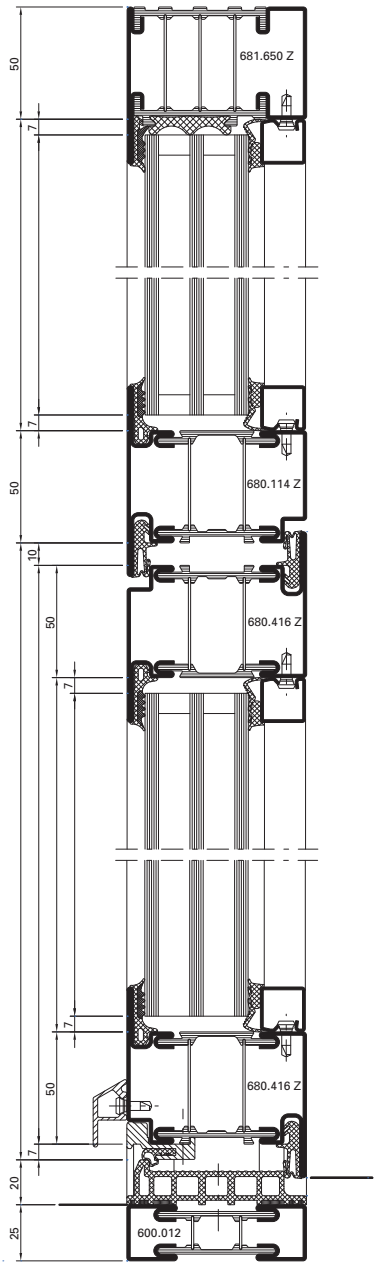
Janisol HI doors

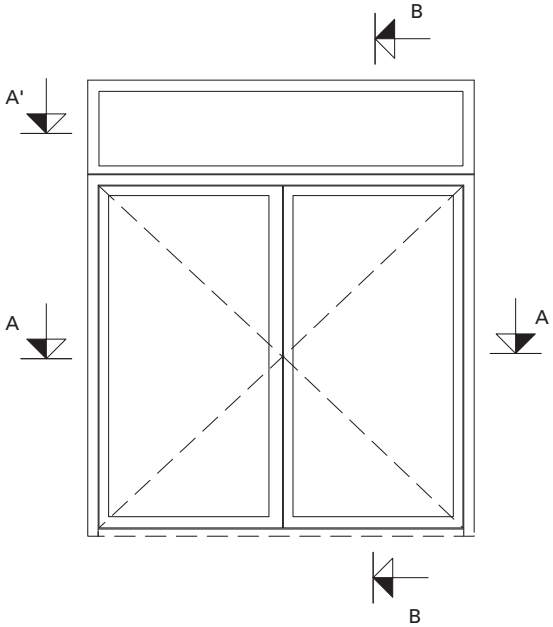
Example of highly thermally insulated doors

A-A



B-B



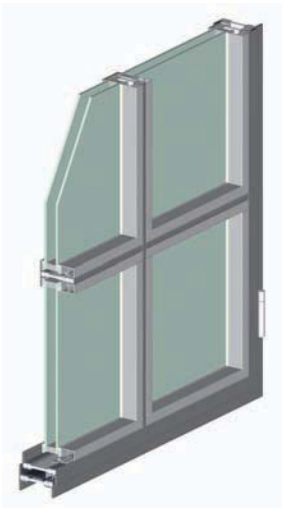


Janisol Arte

The right system for every requirement

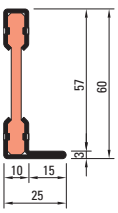
Compared with newbuilds, renovation projects are becoming increasingly important. The conversion of industrial buildings and conservation of historical buildings in particular are proving to be the engines of economic growth in the construction and property markets. Steel plays a central role in this owing to its specific strengths in terms of material properties and design options.

The modular Jansen system offers architects and specifiers comprehensive solutions for the authentic renovation, preservation or flexible conversion of old buildings. Jansen steel profiles can be used to authentically restore a wide variety of historical façade, window and door constructions – taking into account all the structural and safety requirements of the law and from the client.

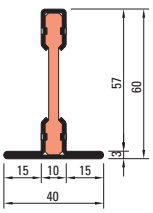


This profile series has been specially developed for the renovation of industrial and loft glazing, as well as the windows of listed buildings. Typical, slender, Bauhaus-style glazing can be almost perfectly restored using extremely slimline, thermally broken profiles.

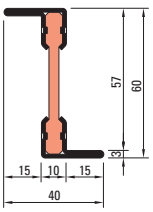
Janisol Arte is therefore the first choice when redesigning former factory buildings. The profiles feature impressive face widths of just 25 or 40 mm. The selected materials – steel and glass fibre-reinforced high performance plastics – guarantee minimal heat loss and maximum stability. Currently standard insulating units can be easily built into the profiles with a basic depth of 60 mm. The conventional opening types for buildings from the fifties and sixties, such as inward or outward-opening side-hung, double-vent, bottom-hung, top-hung or projected top-hung windows, can be constructed using just four types of profile.



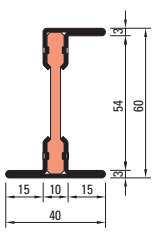
601.610
601.610 Z



602.610
602.610 Z



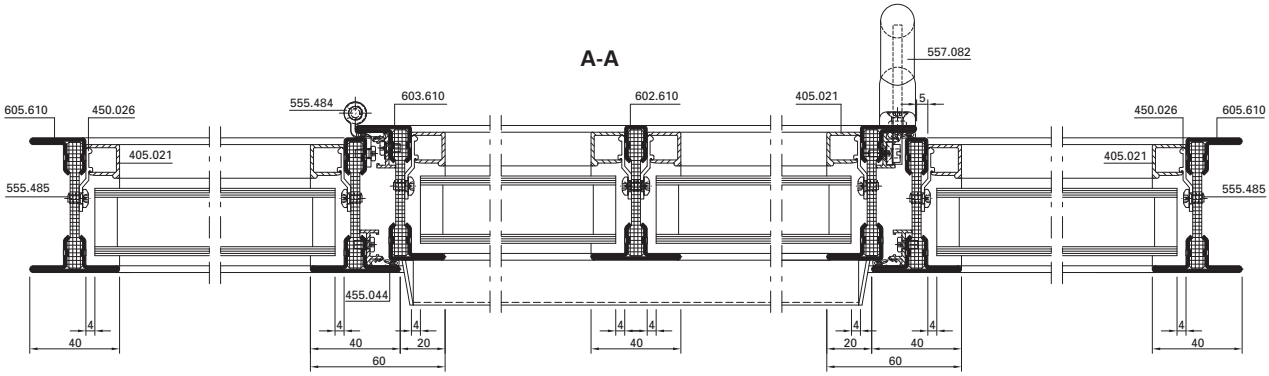
603.610
603.610 Z



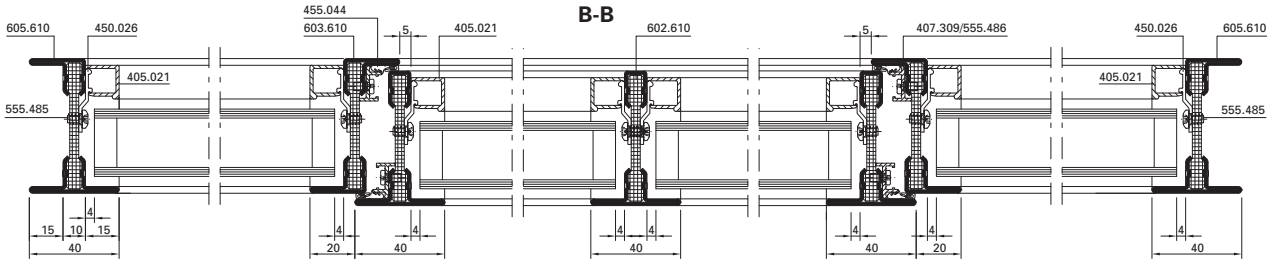
605.610
605.610 Z

CE

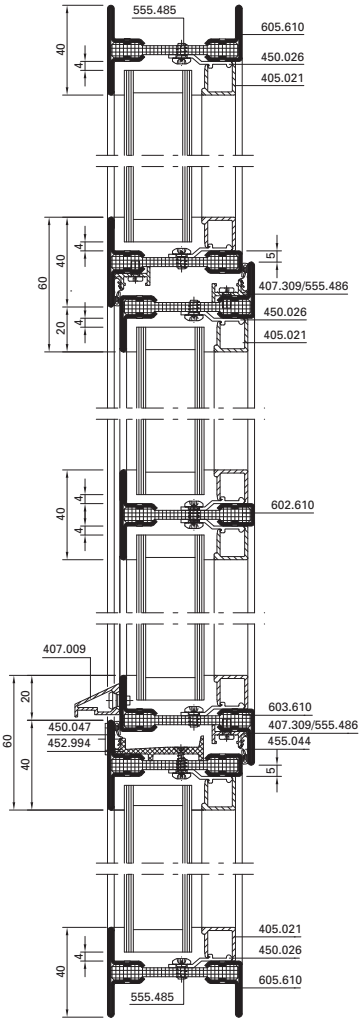
A-A


605.610
450.026
405.021
555.485
555.484
603.610
602.610
405.021
557.082
5
450.026
605.610
405.021
555.485
455.044
4
40
20
60

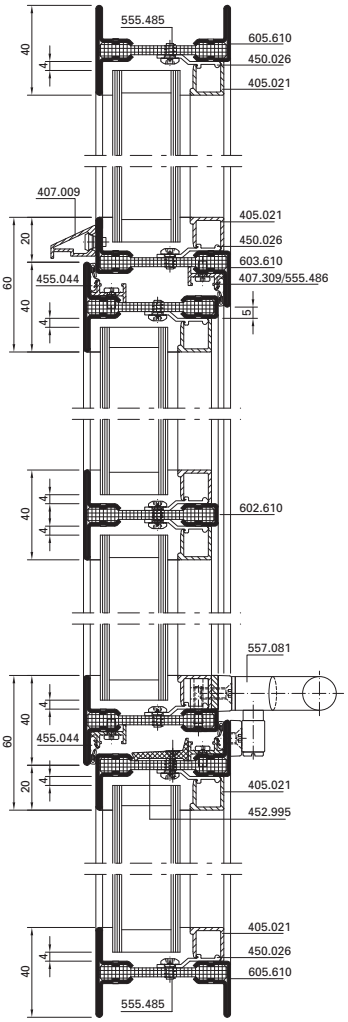
B-B


605.610
450.026
405.021
555.485
455.044
603.610
5
405.021
602.610
407.309/555.486
450.026
605.610
405.021
555.485
4
15
10
40
20

C-C


555.485
605.610
450.026
405.021
40
4
60
20
5
407.309/555.486
602.610
407.009
603.610
450.047
452.994
455.044

D-D


555.485
605.610
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602.610
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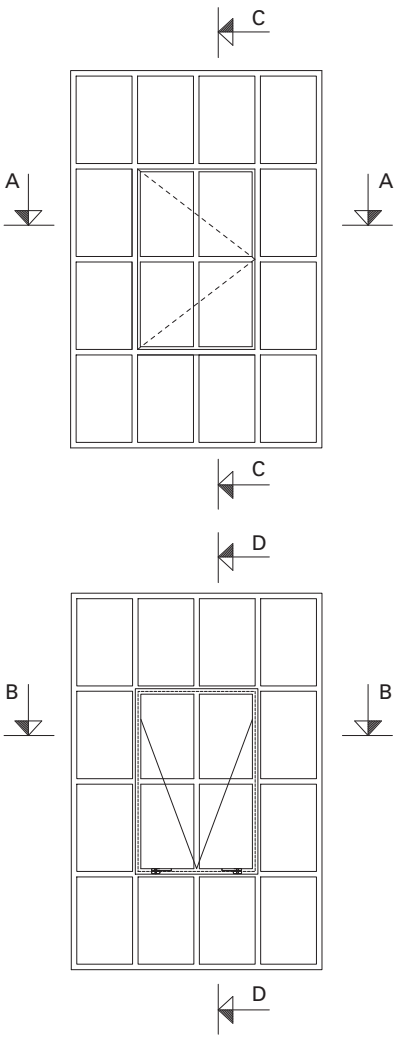
452.995
40
4
60
20


C
A
A
C
D
B
B
D

Janisol lift-and-slide doors

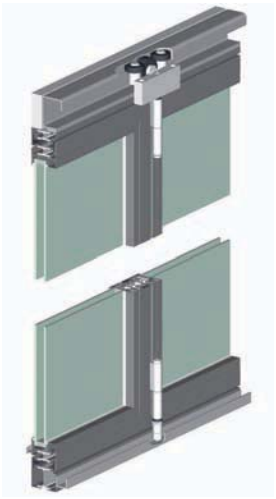
A wonderful outlook for private homes

Janisol lift-and-slide doors are redefining living space. The robust, highly thermally insulated steel profiles provide narrow frames together with a high level of comfort. The chosen basic depth allows for the installation of triple insulating glass of up to 57 mm. This means Uw values to 0.9 W/m²K can be achieved. Despite a comparatively small basic depth of 80 mm and profile face widths of just 85 mm, door leaf sizes up to 4270 mm wide and 3210 mm high can be installed. In the standard design, weights of up to 400 kg are possible; as a special design with special running gear, weights of up to 600 kg are also possible. Janisol lift-and-slide doors are also distinguished by their straightforward fabrication and installation. The frame and door leaf profiles can be inserted continuously. The bottom threshold profile made of high quality glass fibre-reinforced plastic provides an easy-access threshold construction whilst ensuring optimum thermal insulation.

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 perfectly 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 permits leaf weights of up to 100 kg.



Glazing beads

Steel and aluminium

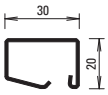
Steel glazing beads made from hot-dip galvanized steel strip (length 6 m)

402.112 Z

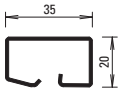
402.115 Z

402.120 Z

402.125 Z



402.130 Z



402.135 Z

Aluminium glazing beads (length 6 m)

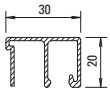
404.109

404.112

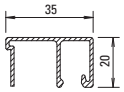
404.115

404.120

404.125

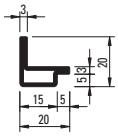


404.130

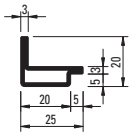


404.135

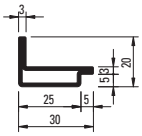
Steel angled glazing beads (length approx. 6 m)



62.507 GV+GC



62.508 GV+GC



62.509 GV+GC

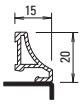
Aluminium glazing beads (length 6 m)

405.103

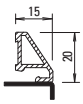
405.115

405.120

405.125



406.905



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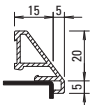

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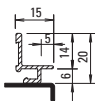

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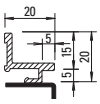

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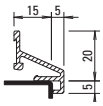

406.996

System versatility

The right system for every application

Systems	Windows	Doors	Façades	Fixed glazing	Partition walls	Conservatories	Fire protection	Thermal insulation	Safety and security	Systems specifications
Janisol Basic depth of doors 60 mm Basic depth of windows 60/64 mm	◆	◆		◆		◆		◆	◆	Doors and windows CE tested, anti-finger-trap door, folding wall, burglar resistance WK3 and bullet resistance, steel and stainless steel
Janisol Primo Basic depth 60/64 mm	◆			◆		◆		◆	◆	Windows CE tested, burglar resistance WK3 and bullet resistance
Janisol Arte Basic depth 60 mm	◆			◆				◆		Windows CE tested, inward and outward-opening windows, very slim face widths
Janisol 2 Basic depth 60 mm		◆		◆	◆		◆	◆	◆	Doors and fixed glazing, fire resistance tested to EI30, smoke protection,burglar resistance, steel and stainless steel
Janisol C4 Basic depth 70 mm		◆		◆	◆		◆	◆		Doors and fixed glazing, fire resistance tested to EI60 and EI90, smoke protection
VISS TV Face width 50/60 mm			◆		◆	◆		◆	◆	Mullion-transom construction for vertical glazing, dry glazing, CE tested, burglar resistance WK3 and bullet resistance
VISS TVS Face width 50/60 mm			◆		◆	◆		◆	◆	Mullion-transom construction for vertical and sloped glazing, dry glazing, CE tested, burglar resistance WK3 and bullet resistance
VISS Fire Face width 50 mm			◆		◆		◆			Mullion-transom construction for vertical and sloped glazing, tested for fire resistance to E90/EI90
VISS SG Face width 50/60 mm			◆		◆	◆		◆		Structural glazing façade based on the tried-and-tested VISS system
VISS Basic / VISS $I_x$tra			◆		◆			◆		Construction for steel and stainless steel façades for mounting on any support
Jansen-Economy 50 Basic depth of doors 50 mm Basic depth of windows 50/58.5 mm	◆	◆		◆	◆		◆		◆	Doors and windows CE tested, anti-finger-trap door, fire resistance tested to E30, smoke resistance, bullet resistance, steel and stainless steel
Jansen-Economy 60 Basic depth 60 mm		◆		◆	◆		◆		◆	Doors CE tested, anti-finger-trap door, fire resistance tested to E30, smoke resistance, burglar resistance and bullet resistance
Standard profiles Basic depth 40, 50, 60, 80 mm	◆	◆		◆	◆					Hollow steel profile series for swing doors, pressed steel doors, horizontal pivot windows and pilaster profiles
Folding and sliding doors Basic depth 50, 60, 80 mm										Hollow steel profile series for automatic or manual folding and sliding doors, CE tested

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JANSEN

SW 598 244 / 12/2012 / Subject to change