



The HIRT Swiss Descending Windows offer the ultimate 'wow factor' as whole walls of glass can sink down below the ground resulting in a completely open aperture with a flush threshold.

Frame

Thermally broken aluminium profiles

Frame Depth 160mm

Sizes

Maximum sizes 18m² per unit

Maximum Width 6m per pane

Maximum Height 6m per pane

Maximum Weight 1500kg

Glass Specification

Maximum glass thickness 63mm

Available as single, double or triple glazed

Optional Low E glass / Bird Protection Glass / Solar Control Glass / Decorative Glass / Privacy Glass / Acoustic Reduction Glass / Electrochromic Glass

Automation

The glass walls are fully automated with near silent motors, offering no noise pollution.

Threshold

The flush threshold can be designed in a choice of finishes including timber, stone or metal.

Integration

This product can have integrated opening window and door systems into the sinking framework.

Adaptations

The HIRT SF90 can also ascend, whereby the walls of glass can ascend up into a 'parking space' on the wall of the floor level above.

Performance

UF Value 1.364 W/m²K

Air Permeability Class C4 in accordance with EN1026/EN12207

Resistance to Wind Load Class C4 in accordance with EN1221/EN12210

Rain Resistance Class E1500 in accordance with EN1027/EN12208

Basement Storage

Space is required in the basement as the parking space for the opened descender front, and to house the technology, motor and counter-weight.

Integration

The HIRT Swiss Descending Window isn't just for large panes of fixed glass, various window and door systems can be integrated into the sinking framework. Opening doors can also be included within the design to allow easy general access when the wall is up, then the whole façade can sink down to open up the whole aperture.

Window up



Window down



Function

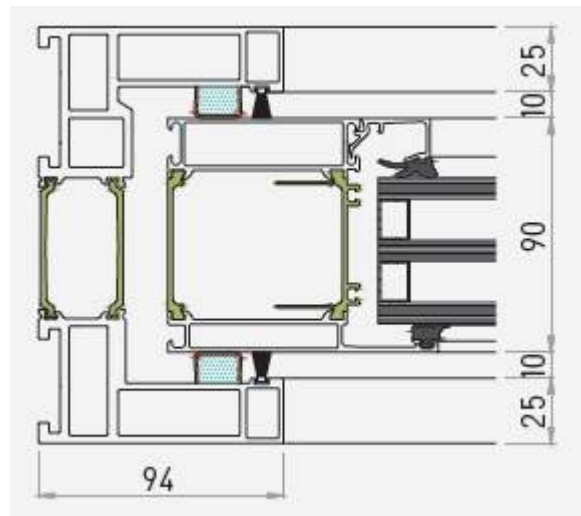
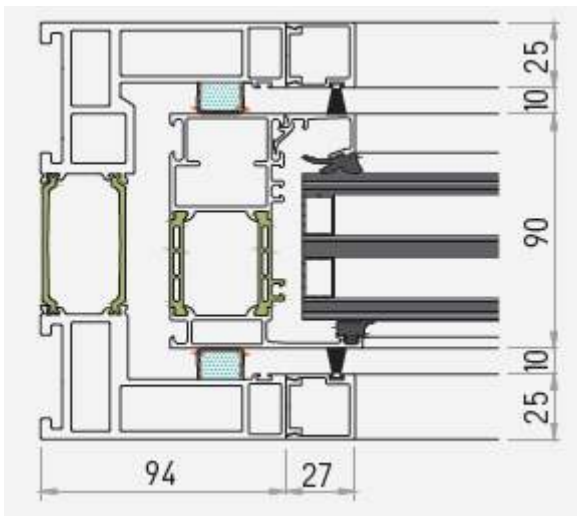
The Descender front and counterweight will be suspended weight-neutral by chains from the technology space located in the 'parking space' that the system sinks down into. The load transfer is made through a defined suspension point in the basement ceiling.

The electro-mechanical drive and the counterweight can be arranged on the inside or outside of the descender front. The HIRT SF90 is guided in runner rails at the side and they can be placed as an individual system in the wall soffit or several HIRT SF90 can be installed in a series.

Frame profile

The HIRT SF90 descender front is manufactured from thermally insulated, extruded aluminium profiles. The corners are assembled with vapour-tight corner braces. Different types of glazing panels can be installed including integrated window and door systems, therefore the fittings are made to product specifications.

Flush Glass



Threshold design

This threshold combines safety. Comfort and state of the art design. There are various materials to choose from to create a unique finish to the design, including wood and stone.



Thermal Performance

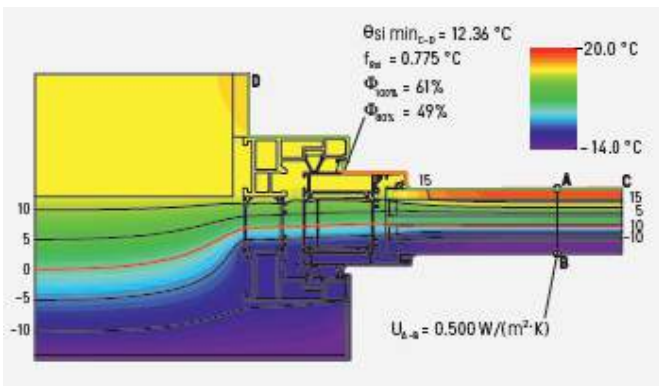
The HIRT SF90 automated sinking façade has a U_f value of $1.364 \text{ W/m}^2\text{K}$, however the overall U_w value will depend on the size of the installation and the glass specification used. The SF90 has been fully tested for weather resistance and include specialist pneumatic seals in four levels that do not let any air through.

Air Permeability in accordance with EN1026/EN12207 Class 4

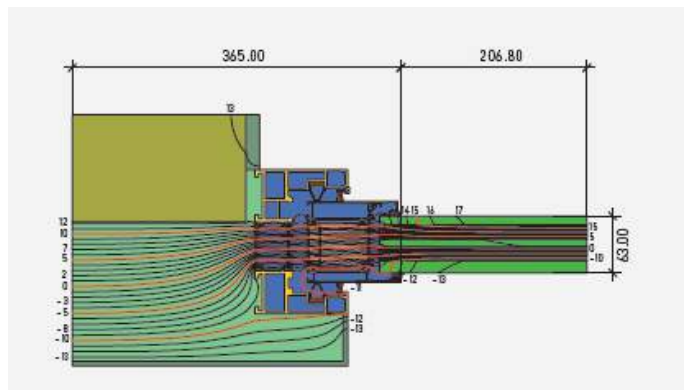
Resistance to wind loads in accordance with EN1221/EN12210 Class C4

Rain resistance in accordance with EN1027/EN12208 Class E1500

Temperature progression



Isothermal progression



Safety and Machinery Regulations

EN ISO 12100-1 Safety of machinery—Basic concepts, general principles for design—Part 2: Basic terminology, methodology

EN ISO 12100—2 Safety of machinery—Basic concepts, general principles for design—Part 2: Technical guidelines

EN ISO 14121 –1 Safety of machinery—Risk assessment—Part 1: Principles

EN 12453: 2000 Safety in use of power operated doors—Requirements

EN 349 Safety of machinery – Minimum gaps to avoid crushing of parts of the human body

EN ISO 13849-1 Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design

EN ISO 13857: 2008 Safety of machinery – Safety distances to prevent hazard zones being reached by upper and lower limb

2004/108/EC EMC Directive

2006/42/EC Machinery Directive

Automation

The HIRT SF90 is motorised by almost silent motors that offer almost no noise pollution. The inner cabling of the motor, the limit switch, control box and other peripherals accompany the delivery ready for use and guarantees the correct connections.

At the touch of a button the HIRT Swiss Descending Windows slide downwards silently and open the living space. They are the perfect solution to create indoor-outdoor living spaces that merge seamlessly into each other over the completely flush threshold, such as pool houses, garage or open-plan living areas.

SEE THEM IN ACTION



Adaptations—HIRT Ascending Window

This system is also available as an ascending option whereby the wall of glass can slide upwards into a cavity within the wall of the floor level above.

SEE THEM IN ACTION



How to Specify HIRT Swiss Descending Windows from IQ Glass

The HIRT Swiss Descending Window system is exclusive to IQ Glass in the UK. This aluminium window system is the first high performance descending window system available to create large sinking walls of glass. If you would like to specify a HIRT Swiss Descending Window on your project just speak to the team at IQ who would be happy to assist.

Speak to the team at IQ

The team at IQ are the experts in our product range. If you are considering using a HIRT Swiss Descending Window on your project speak to the team at IQ who will be able to advise you on the best solution for your intended design, ensure that all specification criteria are met and advise the feasibility to areas of the installation you may not have considered.

Get a Quotation

We advise our customers to get a quotation for their intended HIRT Swiss Descending Window installations from IQ. This allows us all to ensure that the preferred product and design is within budget. If it is not we can help you adjust the specification to reach all performance, design and budgetary requirements.

Add us to your NBS Specification

To assist you in specification we have created individual NBS Specification sheets for the HIRT Swiss Descending Window product. These, easy to navigate, documents contain all the vital information needed for specification. They are available for you to complete on your own, alternatively ask your sales representative at IQ to complete this on your behalf

Place the Order

When ready you (or your client or the builder) can then place the order for your HIRT Swiss Descending Window with us. A full in-house handover will take place and your project will be passed to the contracts and design team. Once your project deposit is placed we will then undertake full design drawings for the installation and any other additional glazing works. Please allow at least 20 working days for the design process. The project will be appointed a dedicated contracts manager who will oversee the installation process.

