



HIRT kinetics® SF XL



Range of application

With the click of a button, HIRT kinetics® silently descends and opens the room in an unrivaled manner. It is the ideal solution, for areas where the interior and exterior can be combined: living area, pool house, garage or kitchen. The descending wall is used as a heat insulating element in the building envelope. HIRT kinetics® is available in three formats: HIRT kinetics® SF 90, HIRT kinetics® SF XL and HIRT kinetics® SF Special.

HIRT kinetics® SF XL: The SF XL is virtually unlimited and provides endless possibilities. It is fascinating that standard components can be inserted up to a surface area of 430 ft² (the SF Special allows for even larger surfaces).

Function

The descending wall and counterweight will be suspended weight-neutral by chains from the basement ceiling. The load transfer is made through defined suspension points in the basement ceiling. The electro-mechanical drive and the counterweight can be arranged on the inside or outside. HIRT kinetics® is guided via runner rails and can be placed as an individual system in the wall soffit, or several SF XLs can be installed in series. Designs without posts are possible if several SF XLs are placed in a series.

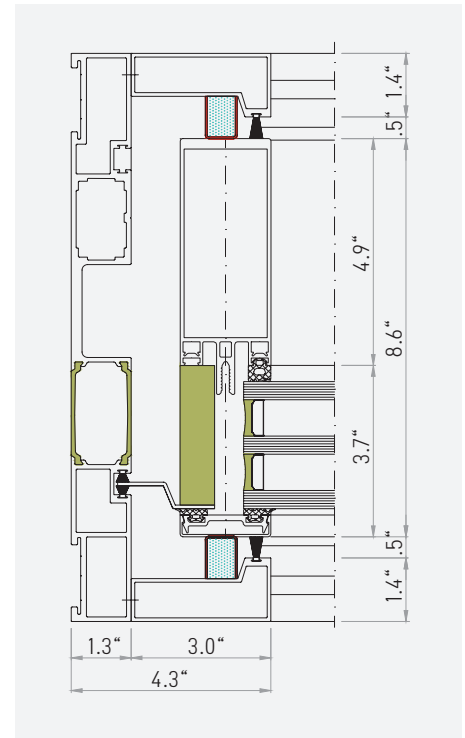


The special design: Structural Glazing

The outside level provides a flush glass envelope. The glass panels are installed with the frames concealed and project a cubistic appearance.

Construction/profile system

Proven and tested post and latching systems are installed in the HIRT kinetics® SF XL. Based on the project and static requirements, the inner supporting structure can be constructed using steel, chrome nickel steel or even aluminum. The construction depth of the inner supporting structure is normally 5 in, the visible width varies between 2 in and 2.375 in. Aluminum clamping cover strips are used on the outside. A variety of glass types can be used. Doors can be integrated and the fixtures are adapted to the customization.



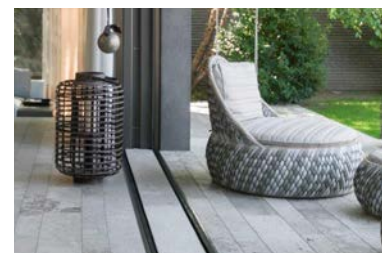
Safe in accordance with EN: HIRT kinetics® comply with strict EN and other standards.

Drive/control: The operation is provided by an electro-mechanic drive. The inner cabling of motors, limit switch, control box and other components will be included in the delivery, ready-for-use. The control unit connection to the grid needs to be provided by a Licensed Electrician at the construction site in accordance with the applicable standards. Upon request, the microprocessor control unit (PLC) can be modified to the project specific requirements,

Manual operation: HIRT kinetics® can easily be manually operated—which can be useful in the event of a power outage. Since the panels are balanced by counterweights, manual operation does not require a great deal of force.

The technology space: Space is required in the basement as the parking space for the opened descending wall and housing of the counterweight. This technology space also houses the motor, the drive shaft, the compressor and the pneumatics. The spatial design requirements can be found in the system plan. A drainage or a pump must be installed to redirect any water that may be collected in the groove of the descending wall.

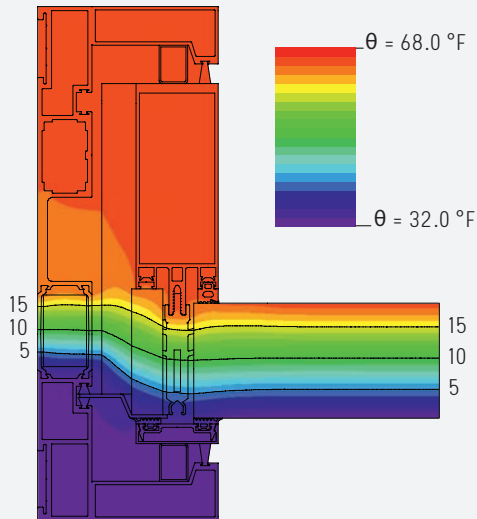
Maintenance: For many years, descending walls have demonstrated their benefits in innumerable projects even under very challenging conditions. Thanks to high-quality components and Swiss quality, faults or even failures are basically impossible. Periodic inspections are recommended and offered, which usually take place every two years. In addition, remote maintenance is also possible.



Elegance with invisible threshold

This threshold combines safety, comfort and state of the art design. The thermally broken standard aluminum sill is clear anodized, while invisible sill materials such as wood, tile, or stone can be used as an option. The width of the threshold is approx. 8-5/8 in.

Temperature progression

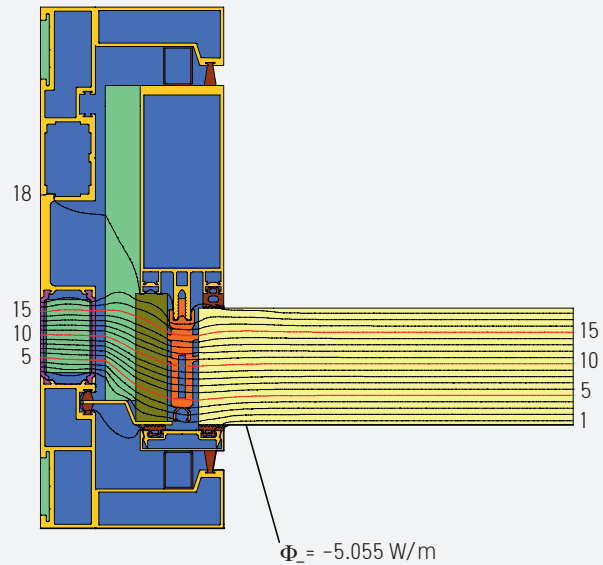


Best heat insulation: The new HIRT kinetics® SF XL is highly energy efficient. Some major features include improved thermal properties and efficient air circulation. The thermally broken aluminum profiles provide 2.125 in of insulation and a U_f value of 0.25. Glass panels up to a max of 2.75 in can be installed. HIRT kinetics® SF XL values (examples): Size 19.5 ft x 10 ft, triple glazing with a U-value of 0.09: The thermal transfer value of the entire descender front is U_w 0.13.

Construction physics

Air permeability in accordance with EN1026/EN12207	Class 4
Resistance to wind loads in accordance with EN12211/EN12210	Class C4
Rain impermeability in accordance with EN1027/EN12208	Class E1500

Isothermal progression



$$U_f = 0.25$$

$$U_g = 0.09$$

Absolutely tight Due to the use of four tightening levels, pneumatic seals provide complete air tightness. The inner seal is used as a standard. Sophisticated press and labyrinth seals on the outside provide draft-free comfort. The seals are inflated automatically through a control pulse. Brush seals remove coarse dirt and provide an aesthetically pleasing transition from the frame to the panel. A hot air duct can be installed into the floor to compensate for the missing heat reflection by the glass.

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HIRT MOVING ARCHITECTURE