

Janisol HI

Powerful steel for powerful insulation



New standards in thermal insulation

Janisol HI combines aesthetics with refined technology. Slender face widths lend the architecture a stylish accent, while innovative technology ensures an excellent thermal break and minimum thermal transmittance. The proven system solution for steel windows and doors with insulation values never before achieved sets a new standard for contemporary architecture in combination with superior thermal insulation.

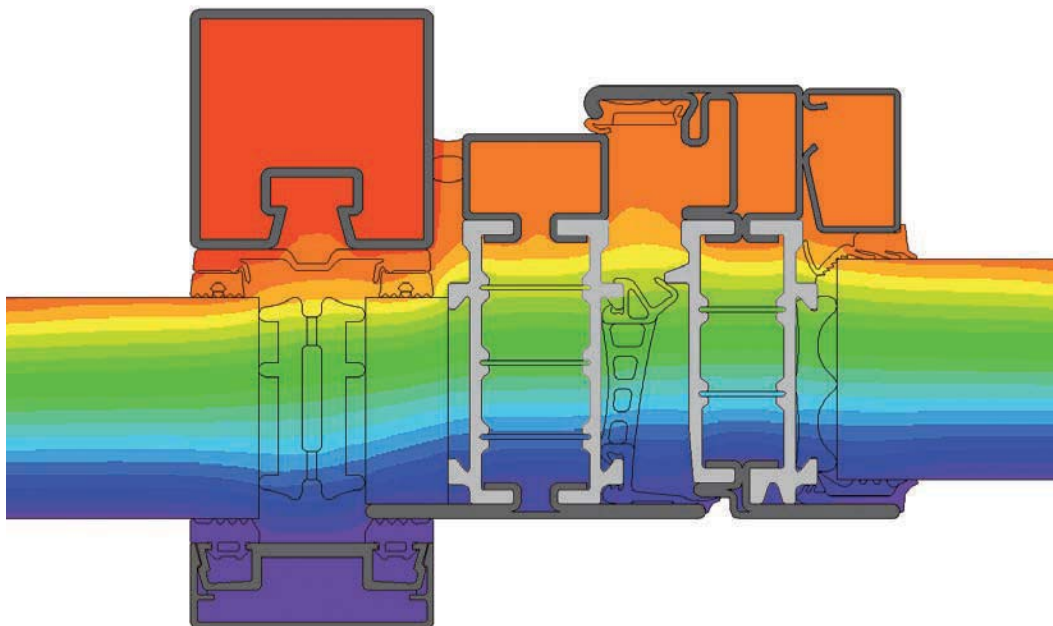


Optimum values thanks to visionary insulation technology

Innovative steel profile system halves previous insulation values.

Sustainable architecture has long been a goal of today's architecture. Rising requirements in the field of thermal insulation underline this ever-present trend. In Janisol HI, Jansen offers a steel profile system that meets the need for the highest insulation performance with excellent insulation values much superior to those of other proven system solutions. This increase in performance is thanks to refined insulation and composite technology, which allows the advantages of steel to be used to best effect in combination with thermally insulating materials. As an addition to the range of Janisol HI windows and doors – and in line with the approach of "everything from the one supplier" – with VISS HI Jansen now offers an ingenious Passivhaus-certified system solution for facades. To show that the HI system can live up to this promise, it carries the Minergie precertification of Janisol HI windows in Switzerland – the first steel window to do so.

MINERGIE®



Test values for Janisol HI doors and windows

Highly insulated system solutions you can depend on. As well as maximum thermal insulation, public buildings with high audience traffic require ever-higher standards of security and durability. Steel meets these requirements without question and impresses with its high strength and robustness, even under extreme load. In comparison to products in alternative materials, steel profile systems are unbeatable when it comes to long service life.



Tests	Norm	Values doors	Values windows
 Watertightness	EN 12208	to class 6A	to class E750
 Resistance to wind load	EN 12210	to class C4	to class C5
 Air permeability	EN 12207	to class 4	to class 4
 Thermal production	EN ISO 10077-2	from $U_f > 0.92 \text{ W/m}^2$	from $U_f > 0.92 \text{ W/m}^2$
 Sound insulation	EN ISO 10140-1	to $R_{WP} = 45 \text{ dB}$	to $R_{WP} = 46 \text{ dB}$
 Long-term performance	EN 12400	class 8	
 Classification of strength requirements	EN 1192	to class 4	
 Metal profiles with thermal barrier	EN 14024	Meets all requirements (CW category)	Meets all requirements (CW category)

Steel – form and architecture concisely expressed

Janisol HI combines beauty with function. Strong steel frame profiles allow almost unlimited scope for the design of window and door elements. Large installation depths result in very narrow face widths, while room-high facade openings embody the language of today's architecture. The unmistakable design freedom also makes Janisol HI an interesting system solution for luxury residential housing developments.

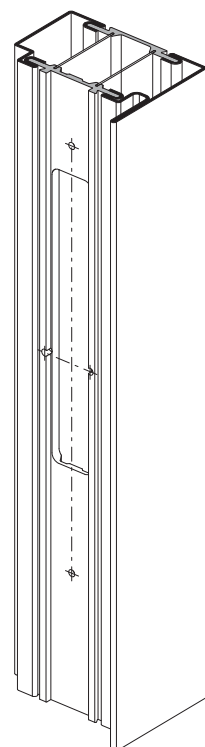
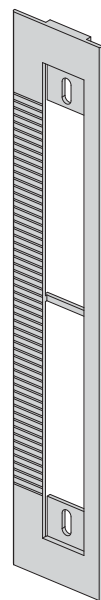
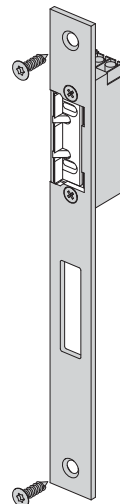
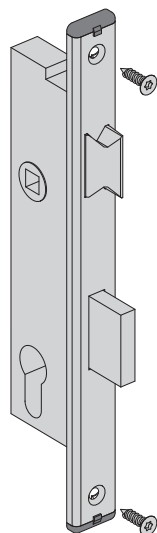
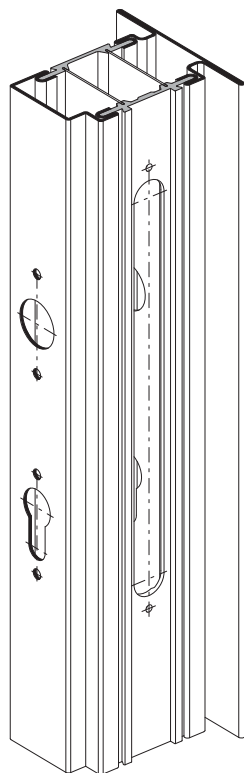
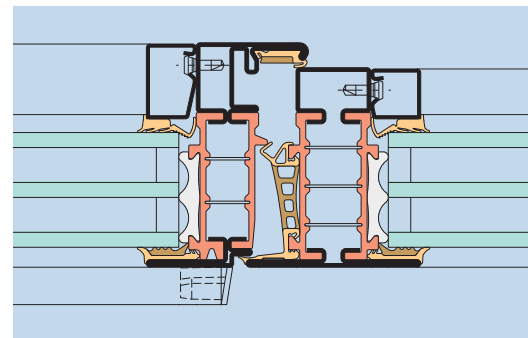
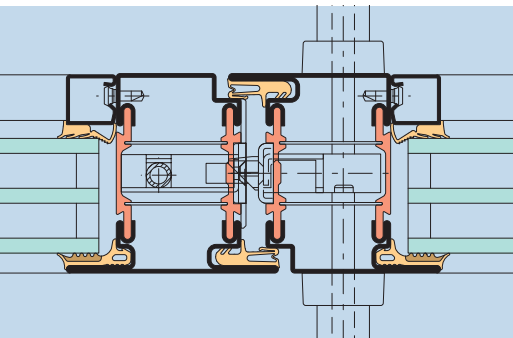


Simple construction thanks to proven technology

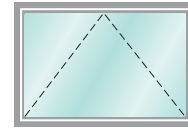
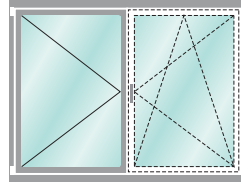
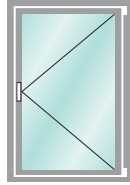
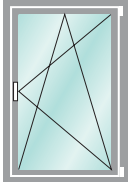
Practical system components mean efficient processing. Often less is more and, in the case of Janisol HI, considerably quicker. Installing locks into doors takes only a few minutes. The reduced number of system components results in an optimised installation process. The lock is integrated into the insulating bar, thus making complex milling out of the steel part of the element completely unnecessary.

No additional profiles are required for the highly insulated system solution because the centre gasket attaches directly to the profile frame.

Customised designs are quick and easy to prepare using Janisoft design software. This practical design tool offers designers and fabricators a comprehensive overview of the complete manufacturing process.



Opening types for Janisol HI doors and windows



Tilt-turn and side-hung windows

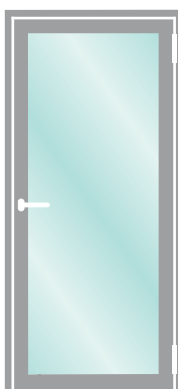
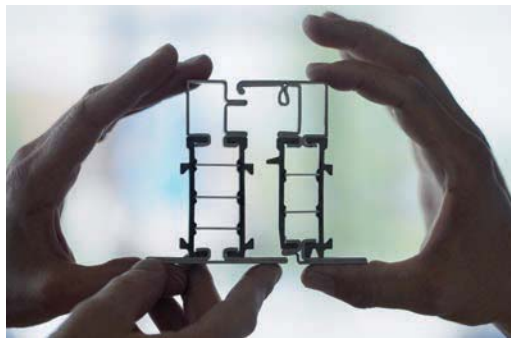
Height max. 2800 mm
Width max. 1475 mm
Weight of leaf max. 180 kg

Double-leaf window

Height max. 2800 mm
Width max. 1475 mm
Weight of leaf max. 180 kg

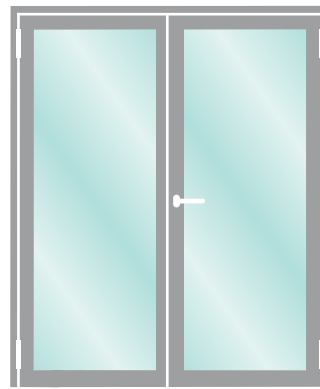
Bottom-hung window

Height max. 2800 mm
Width max. 2800 mm
Weight of leaf max. 120 kg



Single-leaf doors

Width max. 1400 mm
Height max. 3000 mm
Weight of leaf max. 230 kg



Double-leaf doors

Width max. 2800 mm
Height max. 3000 mm
Weight of leaf max. 230 kg

Jansen Building Systems

Competence in steel. The key to success lies in craftsmanship. As a family-owned firm with years of tradition, Jansen focuses on individuality and offers tailor-made solutions with lasting appeal. Knowledge and many years of experience flow directly into product development – and cascade from generation to generation: a systematic advantage.



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