

Janisol HI

Strong steel for strong insulation of
doors, windows and fixed glazing units

JANSEN
METALFORM

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.

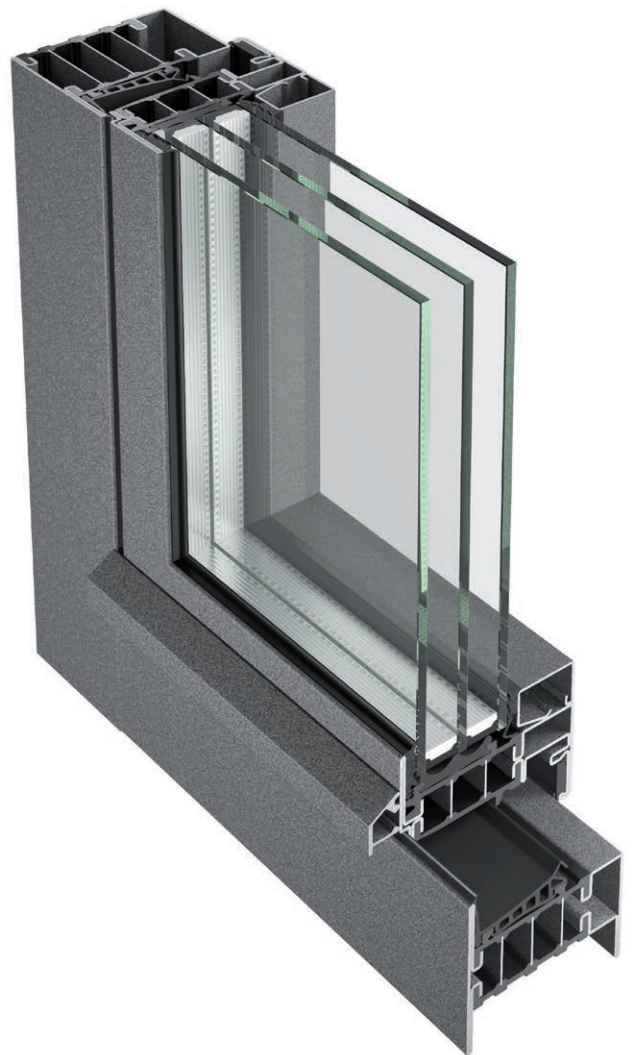
Thanks to insulating bars made from glass fibre-reinforced polyurethane, Janisol HI achieves U_g values to $1.0 \text{ W/m}^2\text{K}$. With a basic depth of 80 mm, infill unit thicknesses of up to 57 mm can be used. A comprehensive and coordinated range of fittings and accessories, as well as a range 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. Passivhaus certification has been obtained for the fixed glazing units. That is the very first one for a steel window.



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 W/m²K for fixed glazing and 0.8 W/m²K 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.















Janisol HI

Performance characteristic

Doors

Norm	Characteristic	Classification / Value											
 EN 12210	Resistance to wind load	npd	1 (400)	2 (800)	3 (1200)	4 (1600)	5 (2000)	Exxx (>2000)					
 EN 12208	Watertightness	npd	1A (0)	2A (50)	3A (100)	4A (150)	5A (200)	6A (250)	7A (300)	8A (450)	9A (600)	Exxx (>750)	
 EN ISO 140-3	Sound insulation R_w (C, C_{tr}) (dB)	npd	up to R_w 45 dB (-2; -6)										
 EN ISO 10077-1	Thermal production U_f (W/(m ² ·K))	npd	from 0,74 W/m ² K										
 EN 12207	Air permeability	npd	1 (150)	2 (300)			3 (600)		4 (600)				
 EN 1192	Classification of strength requirements	npd	1		2			3		4			
 EN 12219	Resistance to change in temperature	npd	up to 3(d) / 3(e) Technical data: «Behaviour between different climates in accordance with EN 1121»										
 EN 14024	Metal profiles with thermal barrier		CW / TC2										
 EN 12400	Mechanical durability	D	1 5'000	2 10'000	3 20'000	4 50'000	5 100'000	6 200'000	7 500'000	8 1'000'000			
 EN 12217	Operating forces	npd	0				1			2			
 DIN 18008-4	Prefabricated glazing suitable for safety barrier loading		Appendix D.1.2 fulfilled										

Windows

Norm	Characteristic	Classification / Value											
 EN 12210	Resistance to wind load	npd	C1 (400)		C2 (800)		C3 (1200)		C4 (1600)		C5 (2000)		
 EN 12208	Watertightness	npd	1A (0)	2A (50)	3A (100)	4A (150)	5A (200)	6A (250)	7A (300)	8A (450)	9A (600)	Exxx (>750)	
 EN ISO 140-3	Sound insulation R_w (C, C_{tr}) (dB)	npd	up to R_w 46 dB (-2; -5)										
 EN ISO 10077-1	Thermal production U_f (W/(m ² ·K))	npd	from 0,74 W/m ² ·K										
 EN 12207	Air permeability	npd	1 (150)		2 (300)		3 (600)		4 (600)				
 EN 14024	Load-bearing capacity of safety devices		Requirement satisfied										
 EN 14024	Metal profiles with thermal barrier		CW / TC2										
 EN 12400	Mechanical durability		D	1 5'000	2 10'000	3 20'000	4 50'000	5 100'000	6 200'000	7 500'000	8 1'000'000		
 EN 12217	Operating forces	npd	0				1			2			
 EN 1627	Burglar resistance	npd	1		2		3		4		5		6
 ISO 16000	Dangerous substances		Requirement satisfied										
	Prefabricated glazing suitable for safety barrier loading		Category A, C2, C3										

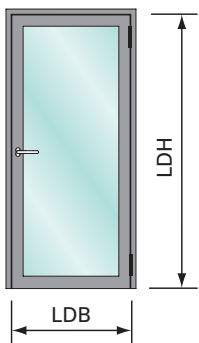
npd = no performance determined

To achieve the maximum performance values and/or the CE marking, the expert appraisal report must be observed.

Janisol HI

Technical data

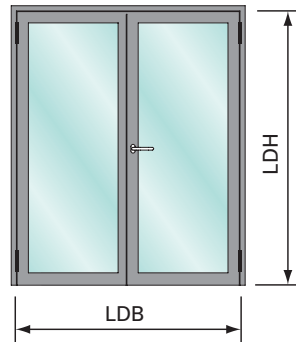
Doors



LDB Clear opening width
max. 1360 mm
min. 600 mm

LDH Clear opening height
max. 2992 mm
min. 1900 mm

Weight of leaf max. 280 kg

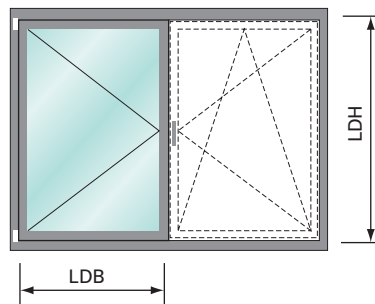
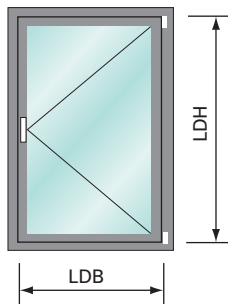
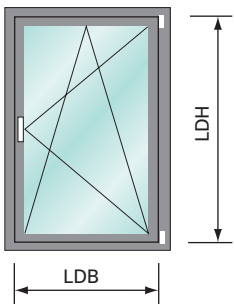


LDB Clear opening width
max. 2740 mm
min. 1200 mm

LDH Clear opening height
max. 2992 mm
min. 1900 mm

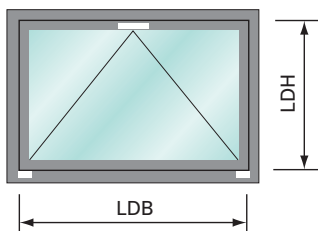
Weight of leaf max. 280 kg

Windows



Max. FFH = 2800 mm
FFB = 1475 mm
Min. FFH = 600 mm
FFB = 600 mm

Max. weight: 180 kg
FFB/FFH: ≤ 2



Max. FFH = 2800 mm
FFB = 2800 mm
Min. FFH = 600 mm
FFB = 600 mm

Max. weight: 80 kg (2 hinges)
120 kg (3 hinges)

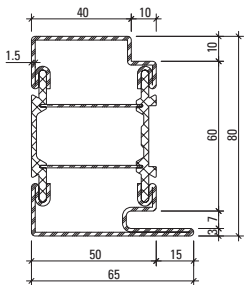
FFB/FFH: ≤ 2

METALFORM

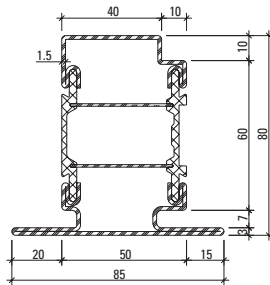


Profile range Janisol HI

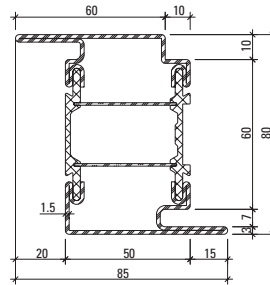
Doors



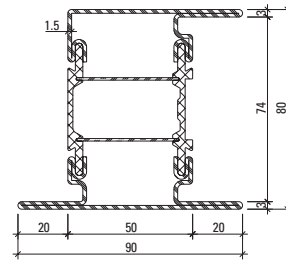
680.013 Z



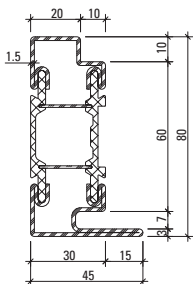
680.114 Z



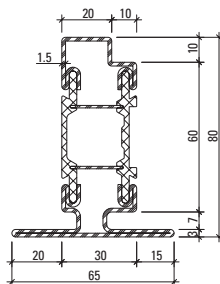
680.416 Z



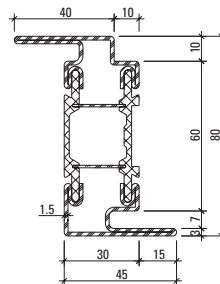
680.652 Z



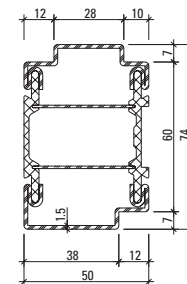
680.010 Z



680.110 Z



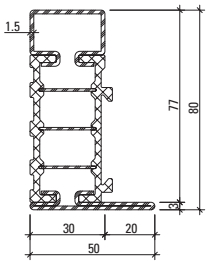
680.411 Z



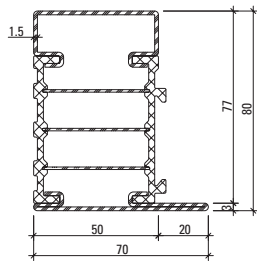
680.051 Z

Z = strip galvanised steel

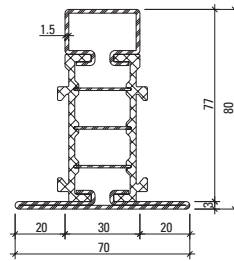
Fixed glazings



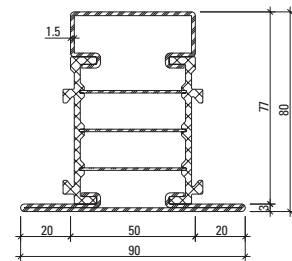
681.630 Z



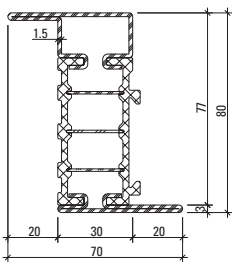
681.650 Z



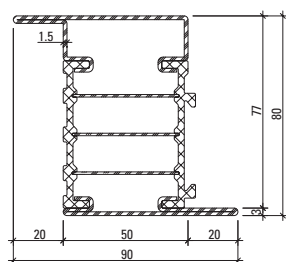
682.630 Z



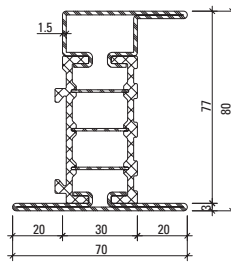
682.650 Z



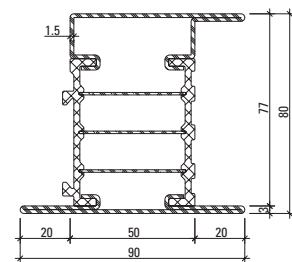
683.630 Z



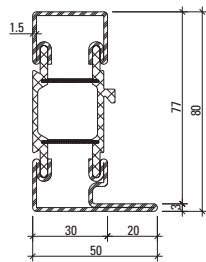
683.650 Z



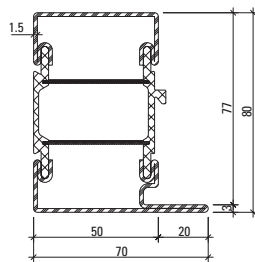
685.630 Z



685.650 Z

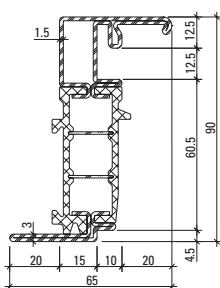


681.635 Z

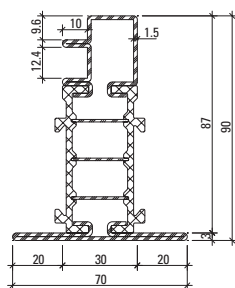


681.655 Z

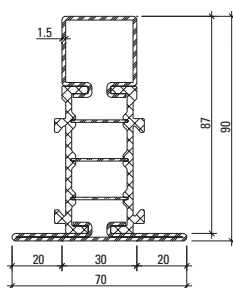
Windows



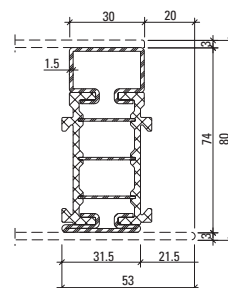
680.900 Z



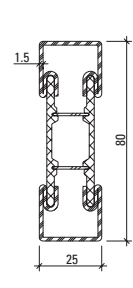
680.901 Z



680.902 Z

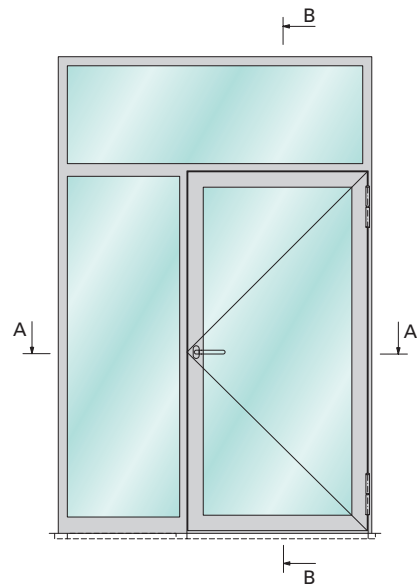
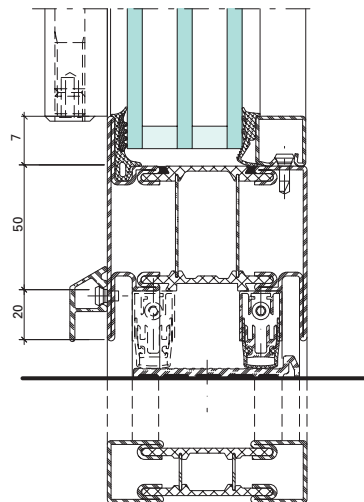
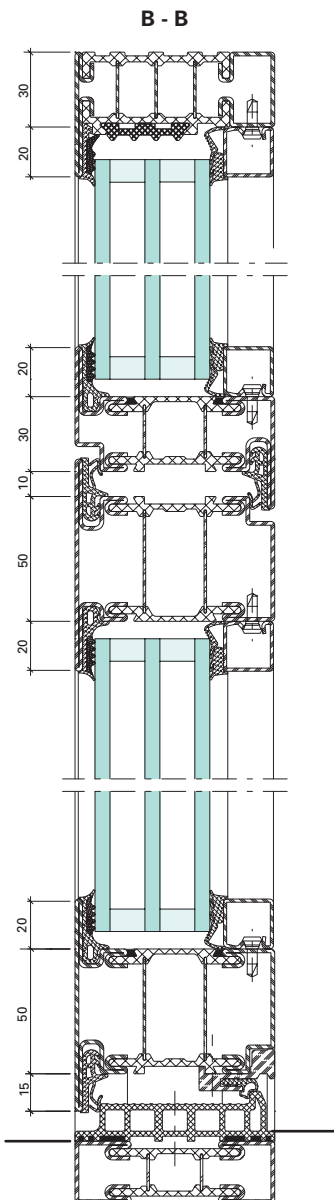
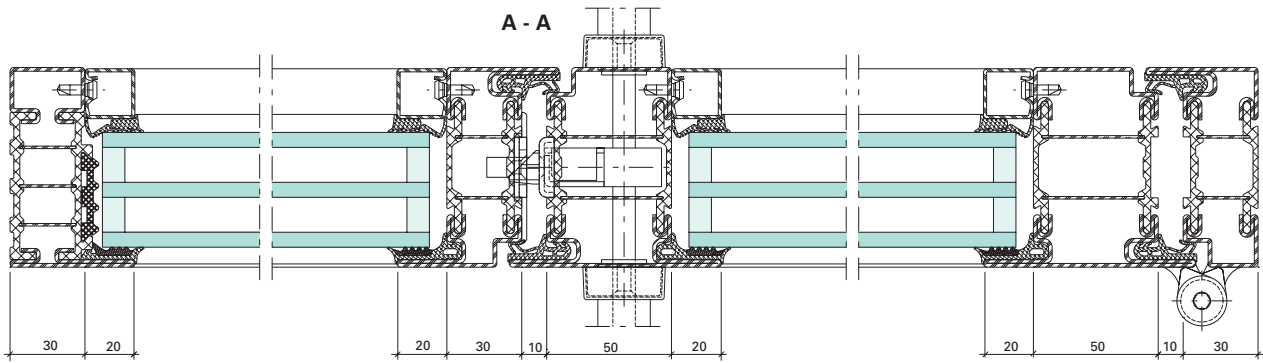


680.060 Z

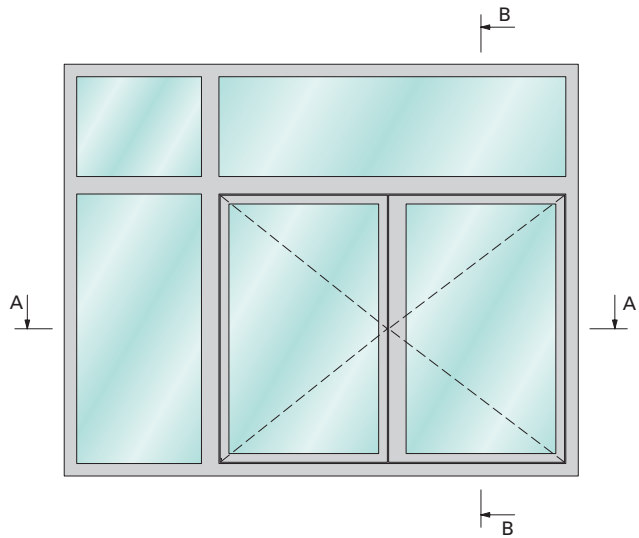
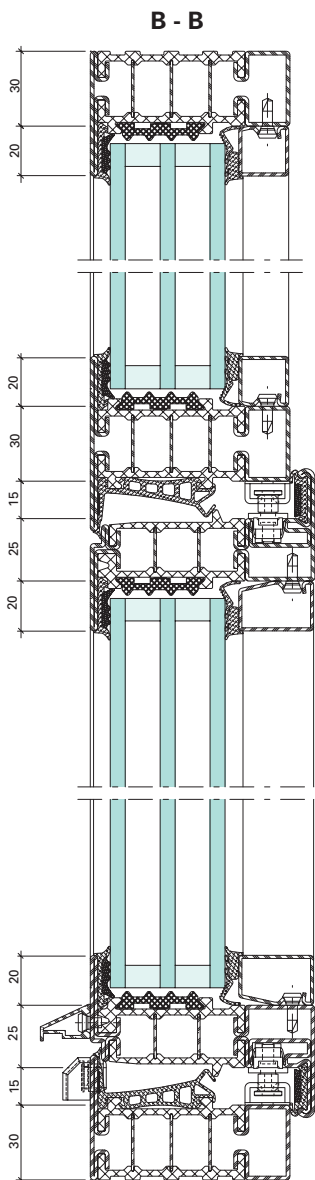
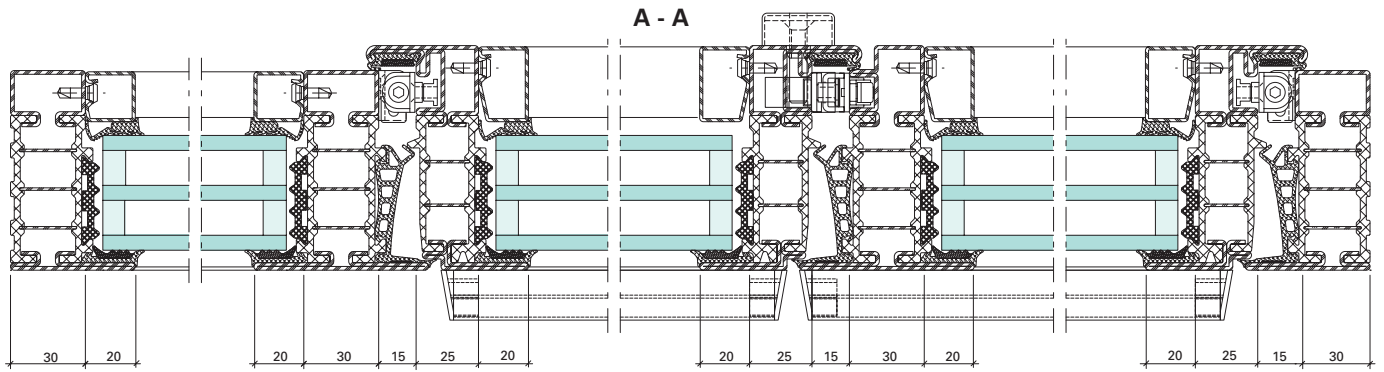


600.012
600.012 Z

Example of Janisol HI doors



Example of Janisol HI windows



If there are any differences between this document and the current German version (item number K1051312), the latest version of the original German text in the Jansen Docu Center shall prevail.

K1051314 | Steel Systems | 10.2020 | Subject to change

Jansen AG

Steel Systems
Industriestrasse 34
9463 Oberriet
Schweiz
jansen.com

JANSEN
METALFORM

METALFORM

MASTERS OF METAL

UNITED KINGDOM

METALFORM

NORWAYMETAL LTD

53 Chelsea Manor Street

London, SW3 5RZ

SALES@METALFORM.UK

+44 20 81298814

GERMANY

METALFORM GMBH

Carl-Zeiss-Ring 15A

85737 Ismaning

SALES@METALFORMGROUP.DE

+49 17663630406

NORWAY

METALFORM AS

Brochmannsveien 2

1950 Rømskog

SALG@METALFORM.NO

+47 401 62 446

METALFORMGROUP

SALES@METALFORMGROUP.COM