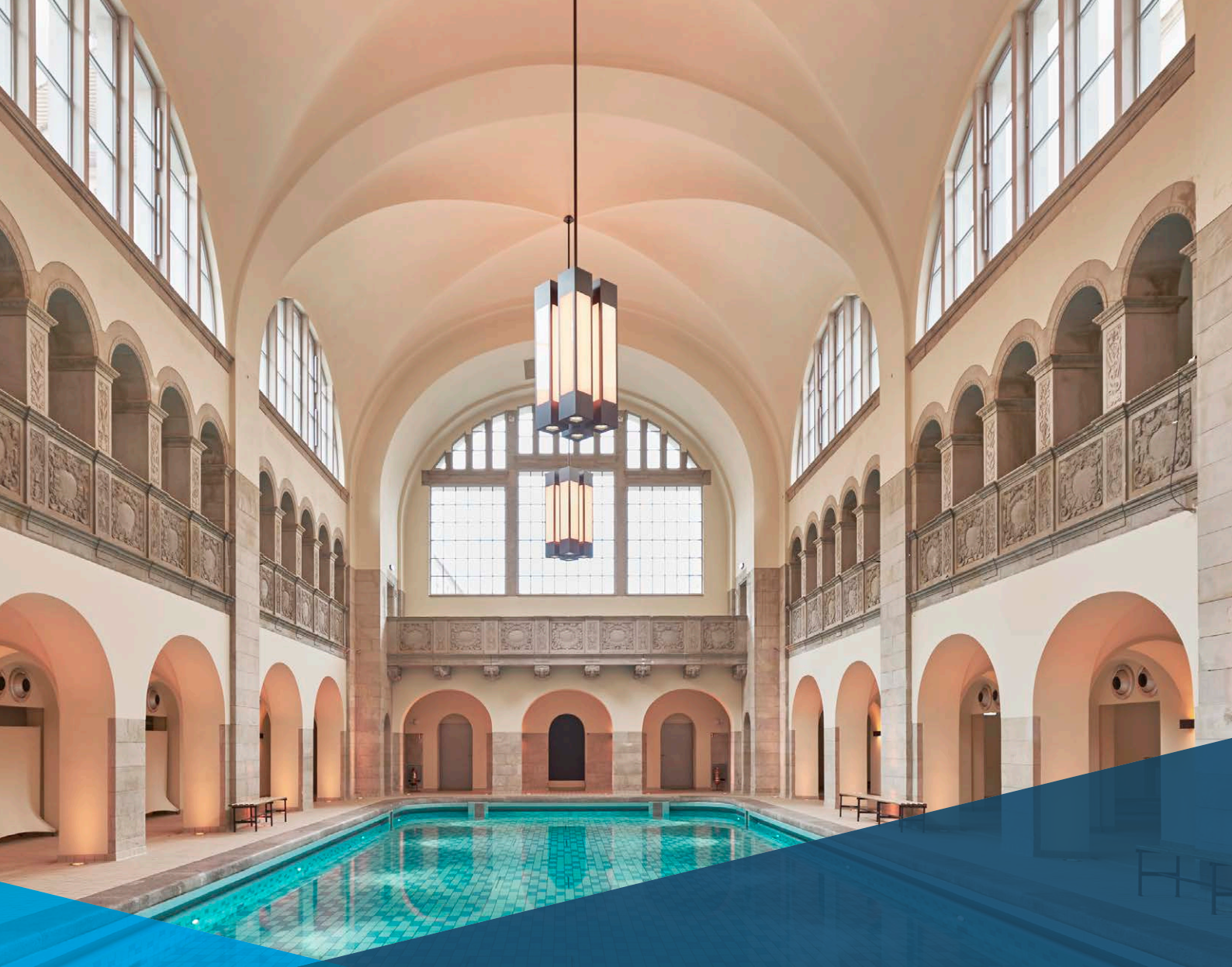


Janisol HI

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

JANSEN

Janisol HI
For powerful insulation

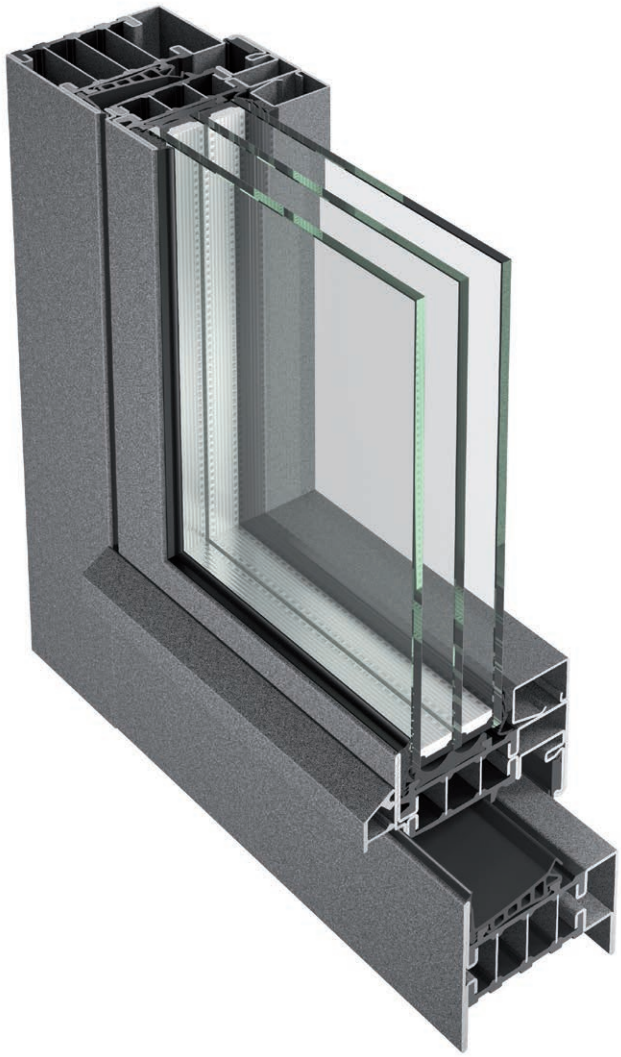
CE

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_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. 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 polyure-thane 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/(m²·K))	npd	from 0,74 W/m²K									
 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

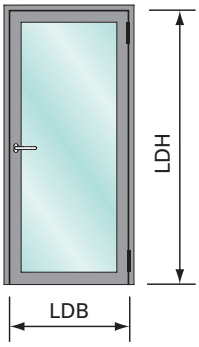
Norm	Characteristic		Classification / Value									
 EN 12210	**Resistance to wind load**	npd	C1 (400)	C2 (800)	C3 (1200)	C4 (1600)	C5 (2000)					
 EN 12208	**Watertightness**	npd	1A (0)	2A (50)	3A (100)	4A (150)	5A (200)	6A (250)	7A (300)	8A (450	9A (600)	Exxx (>750
 EN ISO 140-3	**Sound insulation** R_w (C, C_{tr}) (dB)	npd	up to R_w 46 dB (-2; -5)									
 EN ISO 10077-1	**Thermal productiont** U_f (W/(m²·K))	npd	from 0,74 W/m²·K									
 EN 12207	**Air permeability**	npd	1 (150)	2 (300)	3 (600)	4 (600)						
	**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	**Opewrating 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

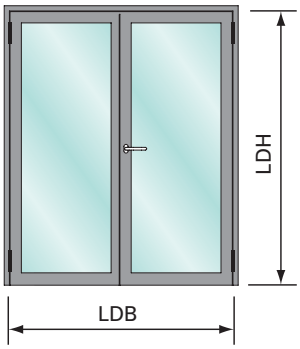
Doors



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

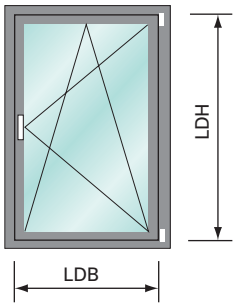


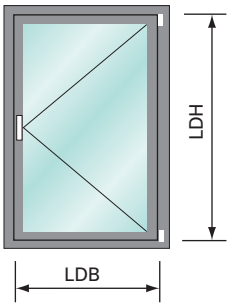
LDB Clear opening width
max. 2740 mm
min. 1200 mm

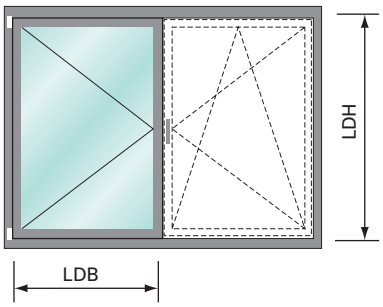
LDH Clear opening height
max. 2992 mm
min. 1900 mm

Weight of leaf max. 280 kg

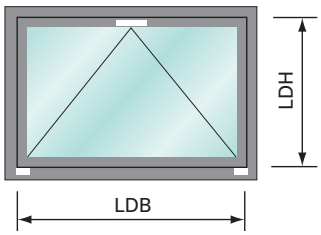
Windows







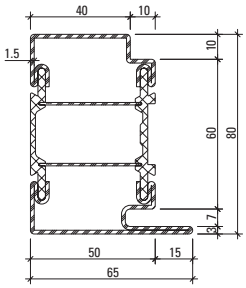
Max.	FFH =	2800 mm
	FFB =	1475 mm
Min.	FFH =	600 mm
	FFB =	600 mm
Max. weight:		180 kg
FFB/FFH:		≤ 2



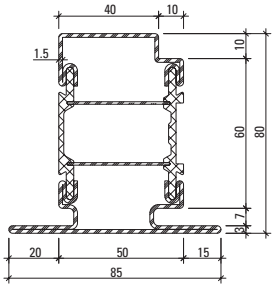
Max.	FFH =	2800 mm
	FFB =	2800 mm
Min.	FFH =	600 mm
	FFB =	600 mm
Max. weight:		80 kg (2 hinges)
		120 kg (3 hinges)
FFB/FFH:		≤ 2

Profile range
Janisol HI

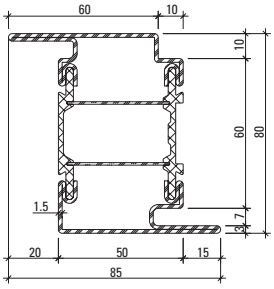
Doors



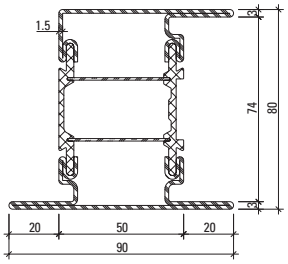
680.013 Z



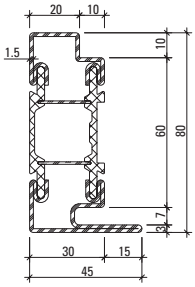
680.114 Z



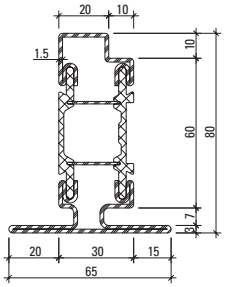
680.416 Z



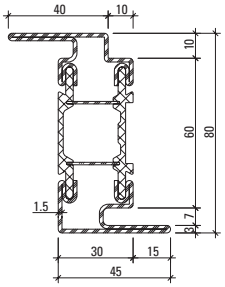
680.652 Z



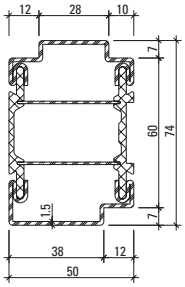
680.010 Z



680.110 Z



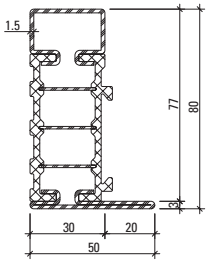
680.411 Z



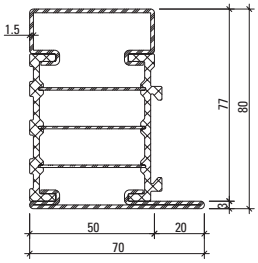
680.051 Z

Z = strip galvanised steel

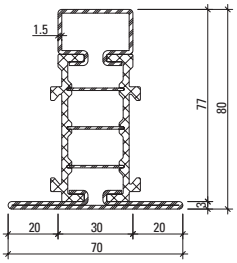
Fixed glazings



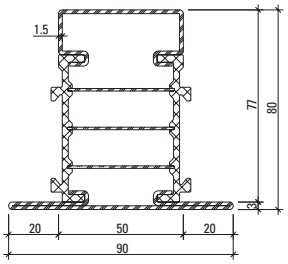
681.630 Z



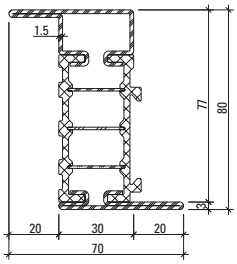
681.650 Z



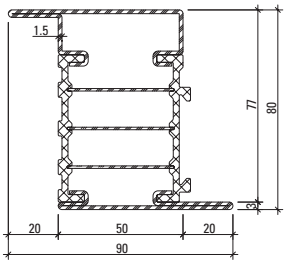
682.630 Z



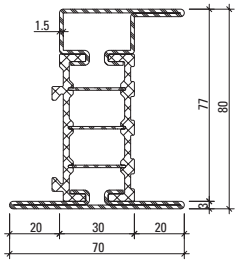
682.650 Z



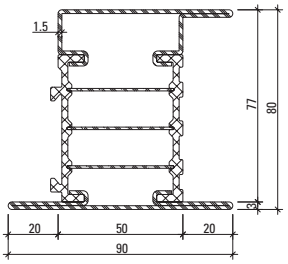
683.630 Z



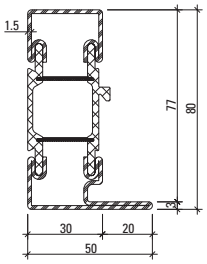
683.650 Z



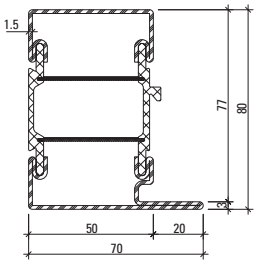
685.630 Z



685.650 Z

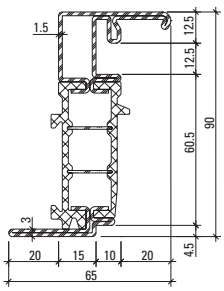


681.635 Z

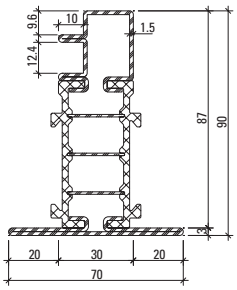


681.655 Z

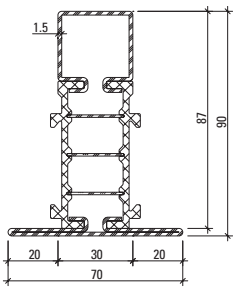
Windows



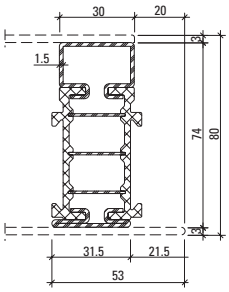
680.900 Z



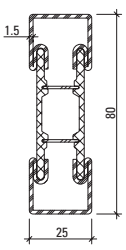
680.901 Z



680.902 Z

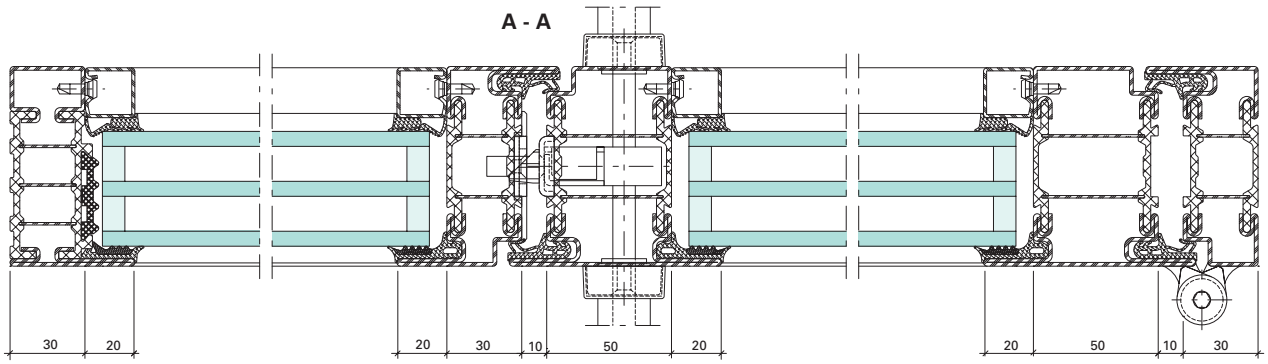


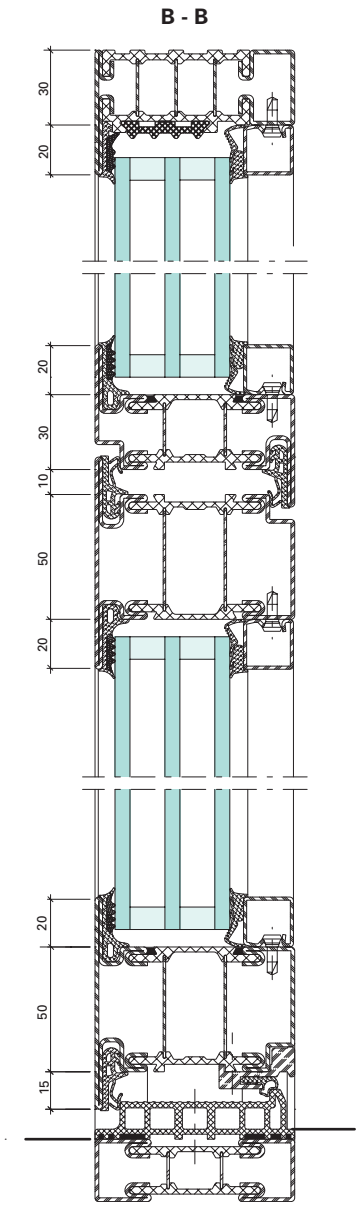
680.060 Z

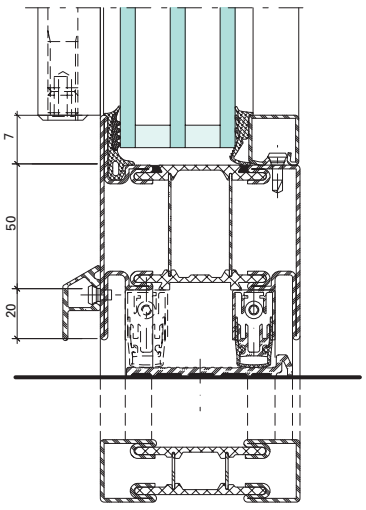


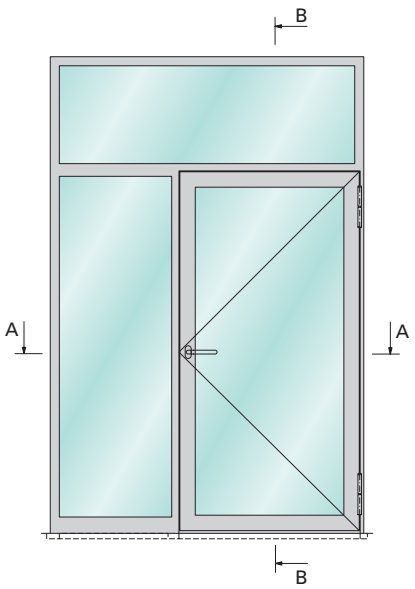
600.012
600.012 Z

Example of Janisol HI doors



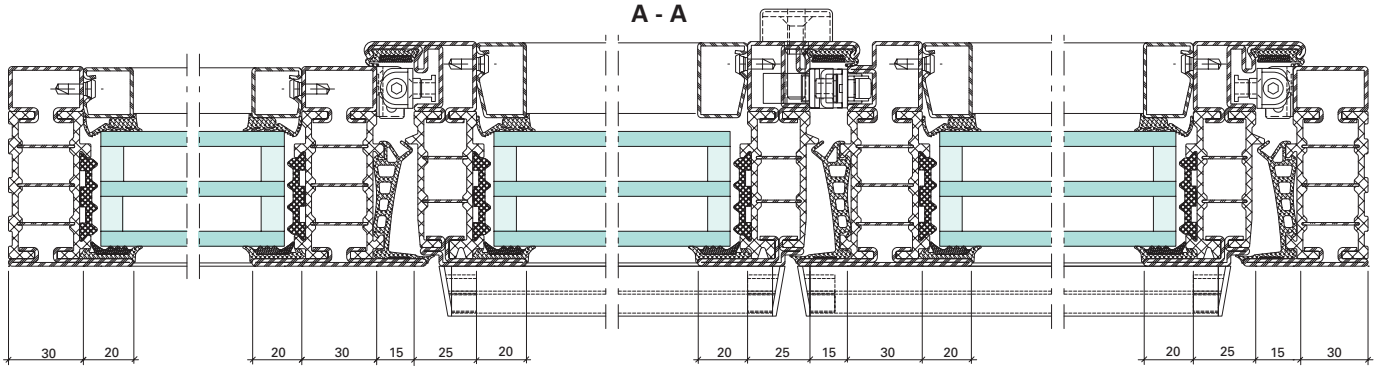




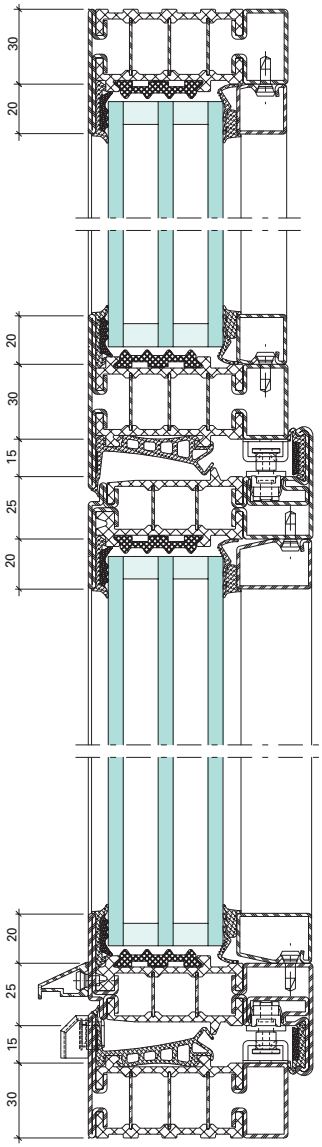


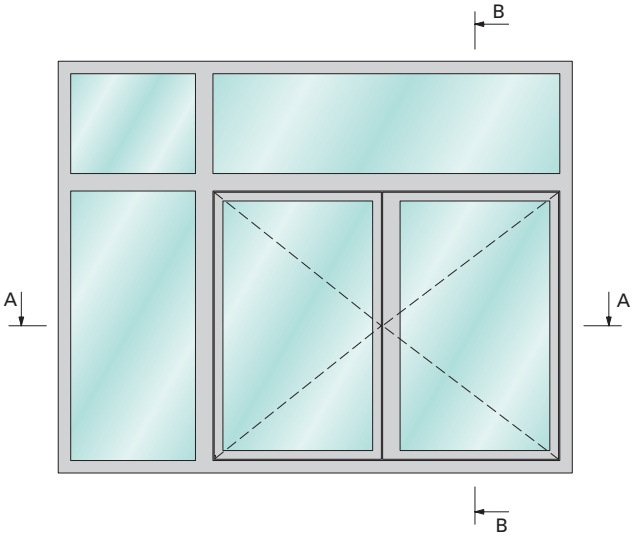
Example of Janisol HI windows

A - A



B - B





K1051314 I Steel Systems I 10.2020 I Subject to change

Jansen AG

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