aliplast
aluminium systems

sliding and folding door systems

Aluminium systems
for building industries

www.**aliplast**.pl

sliding and folding door systems

Contents:

Sliding systems

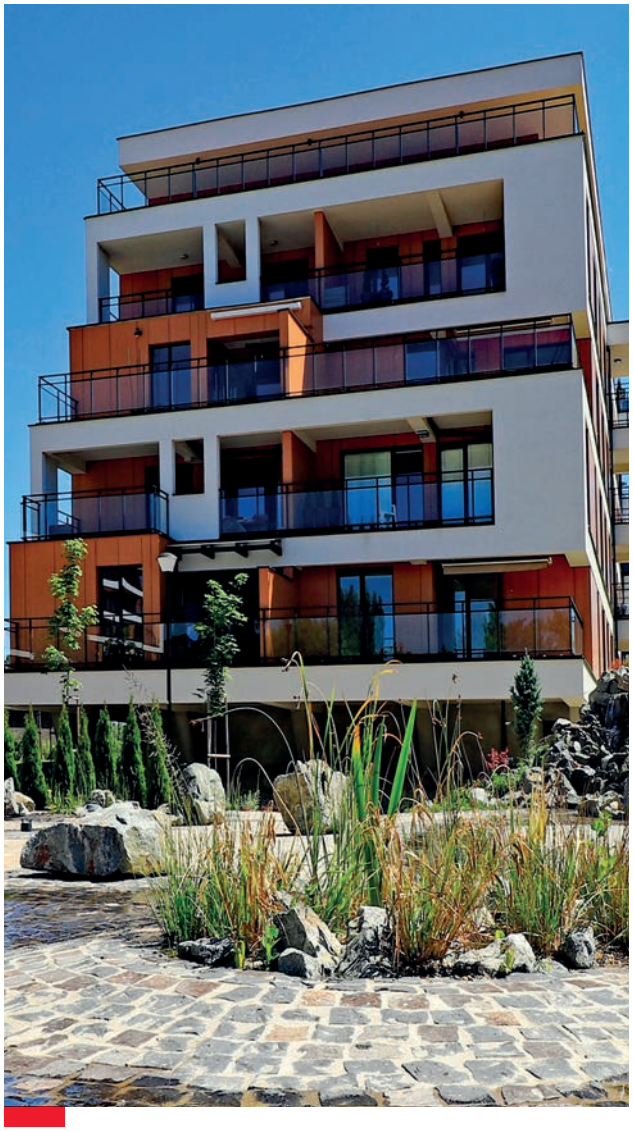
Aluminium sliding systems are becoming an increasingly popular solution used in modern construction. Sliding and lift-and-slide solutions provide an alternative to traditional terrace and balcony doors. They are appreciated because of their comfort, functionality and modern design.

The sliding systems offered by Aliplast are solutions with a wide range of design possibilities, which allow the structure to be customised according to the specific needs of the room, the requirements of the building and individual preferences. Available in options with enhanced thermal insulation (Ultraglide, Inferno, Visoglide Plus, Modern Slide, Slide Plus) or without thermal insulation (Slide Cold, Ecoslide, Slide Glass).

The available system options such as low threshold, angled solution, monorail option, galandage provide functionality and comfort.

Folding door structures (Panorama) are not just an original solution when it comes to terrace doors, but above all make an optimum use of space and offer extensive system functionality.

The Aliplast range of aluminium sliding and lift-and-slide systems features excellent technical and thermal performance, high quality fabrication and a wide range of possibilities when creating space.



Park Anička
Kosice, Slovakia
Producer: UNIX
Architect: adf

Park Anička
Kosice, Slovakia
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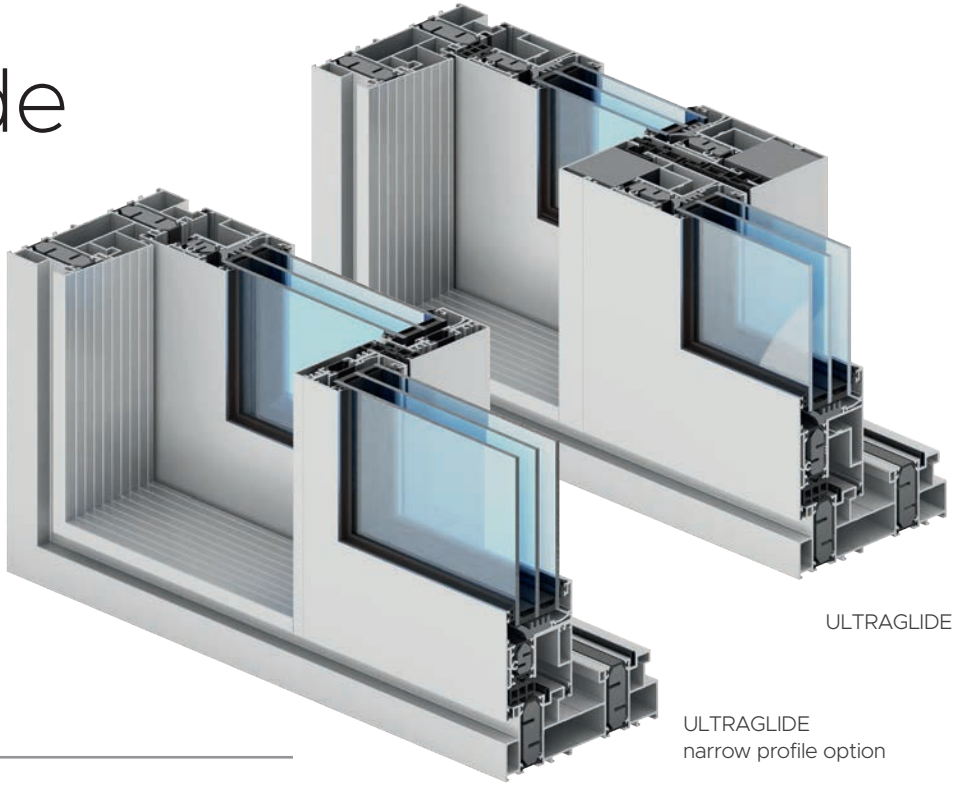
sliding systems

Ultraglide



ULTRAGLIDE

ULTRAGLIDE
narrow profile option

system characteristics

_ a system featuring improved thermal performance, used to design sliding and lift-sliding structures
_ the UG sliding structures are intended for residential buildings, mainly private and public buildings
_ the system is adapted to the latest requirements relating to thermal performance, aesthetics and safety
_ Ultraglide system makes it possible to design structures with vary large dimensions of sliding leaves; maximum structure dimensions available in the system: leaf height – Hs = 3300 mm; leaf width – Bs = 3500 mm
_ possible variants with two, three and four components based on the two-rail system
_ profiles suitable for installation of various hand-locked hardware available on the market and automatic devices
_ various types of infills can be used (double and triple glazed units)
_ system is adapted to the latest requirements relating to thermal performance; the system is equipped with a 22 mm/28 mm wide separator improved with glass fibre, thermal inserts and under-glass inserts to improve cross-sectional thermal performance
_ available options: UG, UGi and UGi+
_ used for designing large glazing, which provides natural lighting inside the building and facilitates interior design, with ensured stability, functionality and structure lightness;
_ there is possibility of use Insect System (fly screen are a practical and an extremely functional protection against insects)
_ a wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

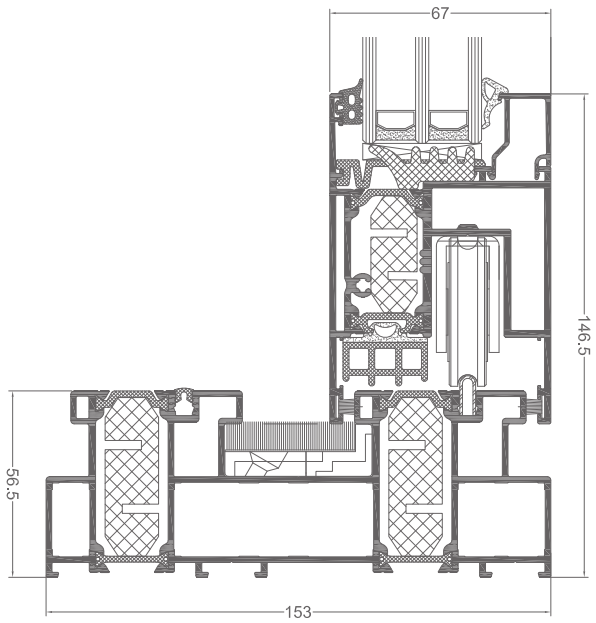
technical specification

system	material	depth of frame	depth of leaf	glazing range	weight of leaf	type of doors	acoustic
UG	aluminium / thermal insulation	153-239 mm	67 mm	14-52 mm	to 250 kg sliding option / to 400 kg lift-sliding option	sliding, lift-sliding	43 (-2,-6) dB
UG i+	aluminium / thermal insulation	153-239 mm	67 mm	14-52 mm	to 250 kg sliding option / to 400 kg lift-sliding option	sliding, lift-sliding	43 (-2,-6) dB

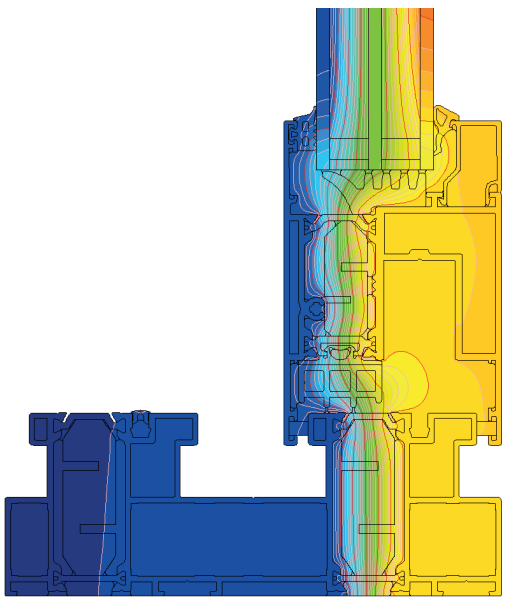
performance

system	thermal insulation Uf*	air permeability	windload resistance	watertightness
UG	Uf from 1,45 W/m²K	Class 4; EN 12207	Class C4 (1600 Pa); EN 12210	9A (600 Pa); EN 12208
UG i+	Uf from 1,13 W/m²K	Class 4; EN 12207	Class C4 (1600 Pa); EN 12210	9A (600 Pa); EN 12208

* Thermal insulation is dependent on a combination of profiles and thickness of the filling



UG cross section (UG820N + UG810)

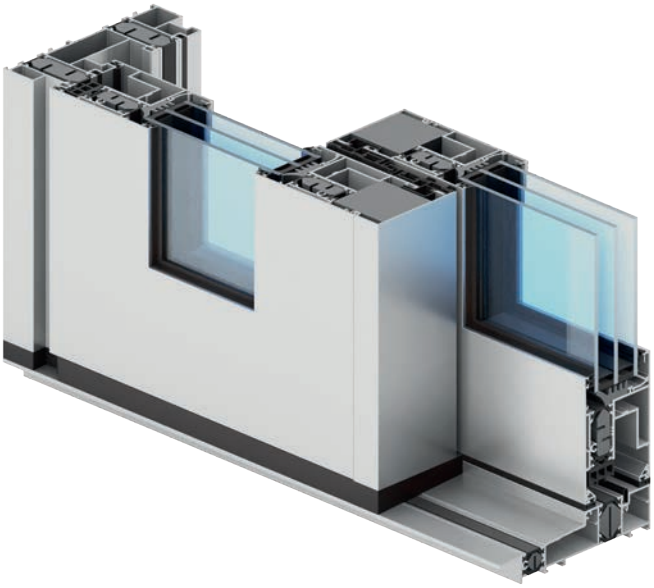


distribution of isotherms for frame with sash composition in Ultraglide system (UG820N + UG810)

sliding systems

Ultraglide

- **low threshold option**

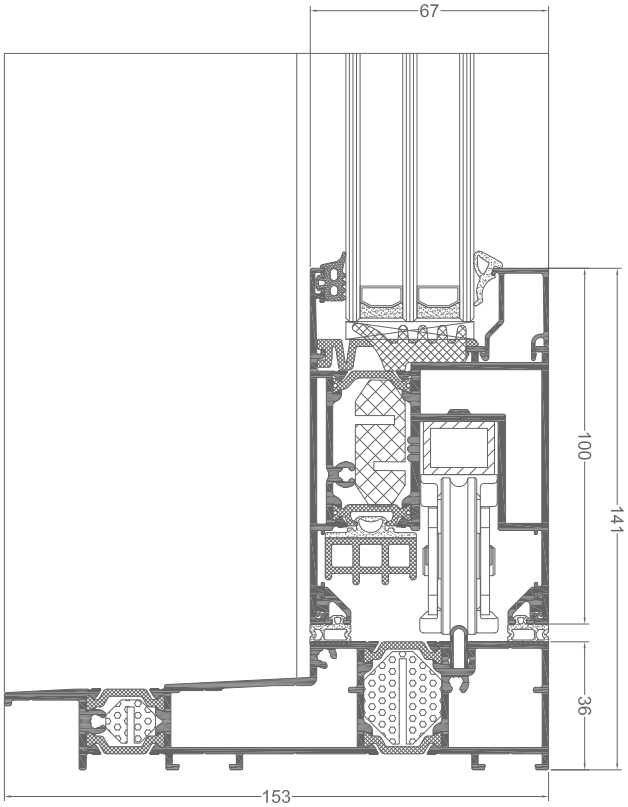


system characteristics

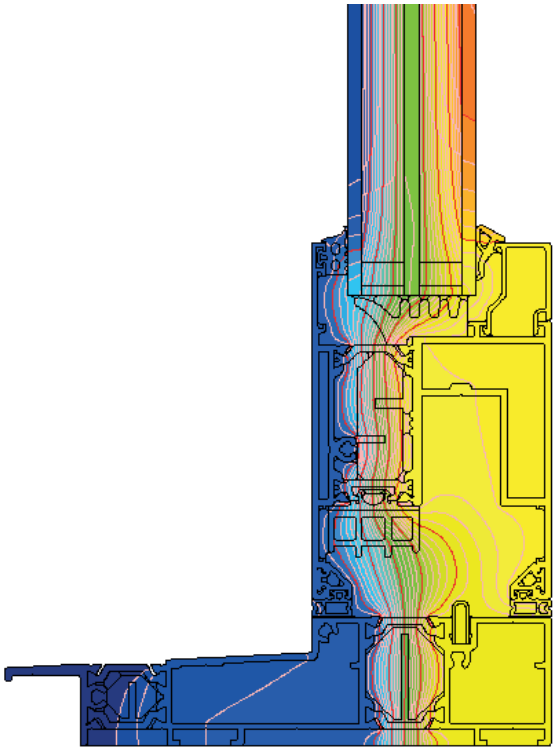
_ a system featuring improved thermal performance, used to design lift-sliding structures
_ the Ultraglide low-threshold system is a solution to improve building accessibility for disabled people; the low-threshold option prevents edge offset at the door-floor contact and enables threshold-floor flushing
_ possible structure variants: 2-, 4-component based on a two-rail frame
_ there is possibility of use Insect System (fly screens are a practical and an extremely functional protection against insects)
_ a wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

technical specification

system	material	depth of frame	depth of leaf	glazing range	weight of leaf	type of doors
UG - low threshold	aluminium / thermal insulation	153-239 mm	67 mm	14-52 mm	to 400 kg	lift-sliding



Ultraglide cross section through frame with sash composition – low threshold option (UG1114 + UG820N)

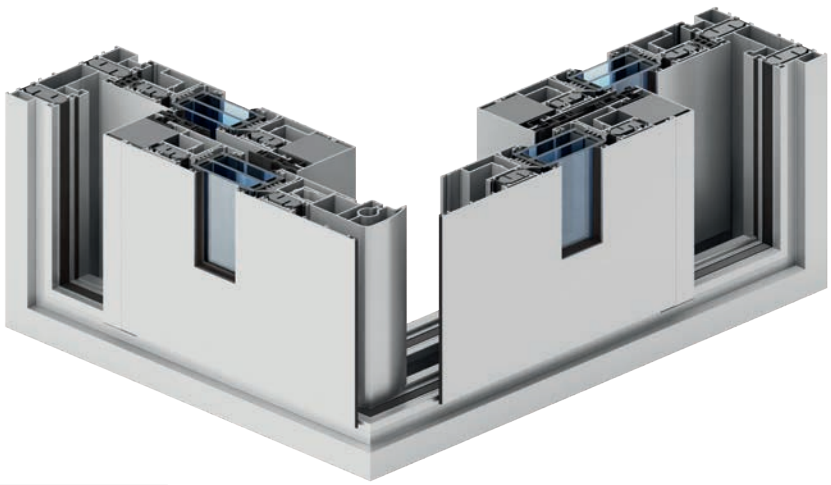


distribution of isotherms for Ultraglide system – low threshold option (UG1114 + UG820N)

sliding systems

Ultraglide

- **angular solution 90°**

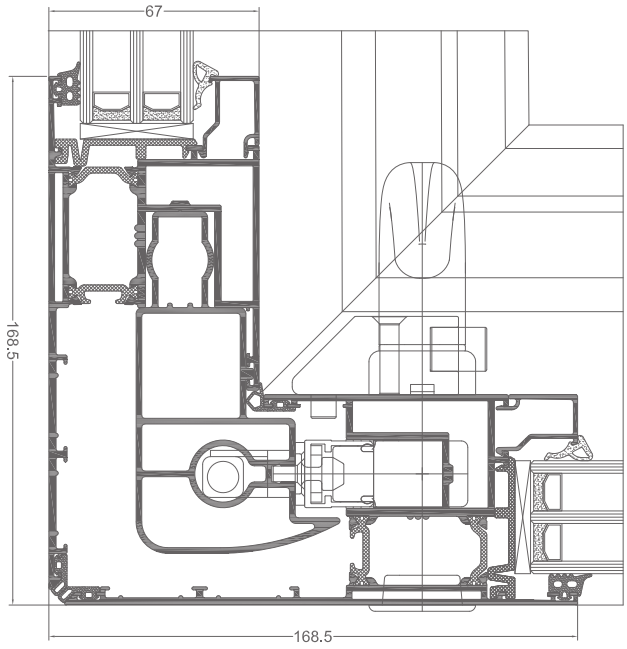


system characteristics

_ a system featuring improved thermal performance, used to design sliding and lift-sliding structures; the system is designed for large glazed corner
_ the system is perfect for commercial and private buildings where open space is required: terraces, porches, sunrooms, patios
_ available two- and three-rail frame
_ possible structure variants: 4-, 6- and 12-components
_ there is possibility of use Insect System (fly screens are a practical andan extremely functional protection against insects)
_ a wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

technical specification

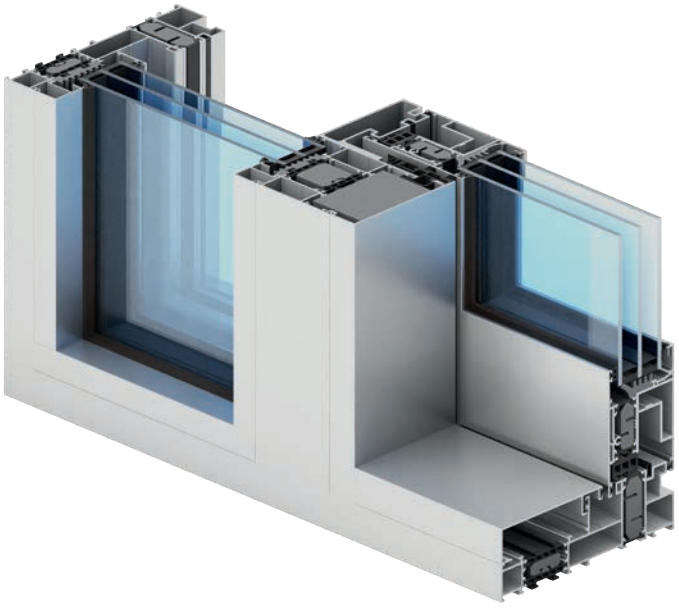
system	material	depth of frame	depth of leaf	glazing range	weight of leaf	type of doors
UG angular solution 90°	aluminium / thermal insulation	153-239 mm	67 mm	14-52 mm	to 250 kg in sliding option / to 400 kg in lift-sliding option	sliding, lift-sliding



UG angular solution 90° - cross section through the connection sash-sash (UG8201N + UG821N)

sliding systems

Ultraglide **Monorail**



system characteristics

_ a system featuring improved thermal performance, used to design sliding or lift-sliding structures
_ maximum leaf weight: 400 kg
_ single-rail frame
_ possible structure variants: 2-component (sash + fix), 3-component (sash + fix + sash), 4-component (2 sashes + 2 fixes)
_ optional to use glazing from the outside, which makes it possible to use large-size, heavy infills
_ there is possibility of use Insect System (fly screens are a practical and an extremely functional protection against insects)
_ a wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

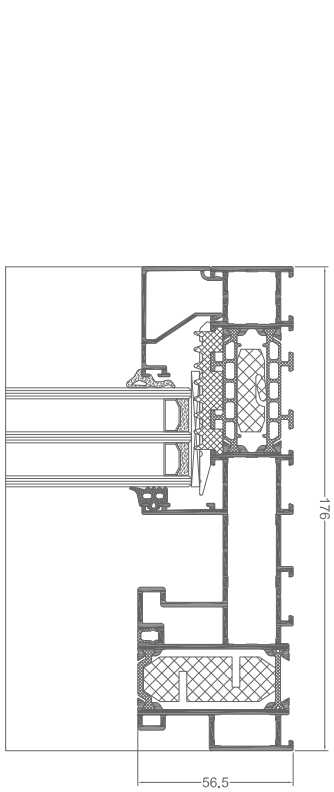
technical specification

system	material	depth of frame	depth of leaf	glazing range	weight of leaf	type of doors	acoustic
Ultraglide Monorail	aluminium / thermal insulation	176 mm	67 mm	leaf 14-52 mm, fix 12-72 mm	to 250 kg sliding option/ to 400 kg lift-sliding option	sliding, lift-sliding	43 (-2,-6) dB

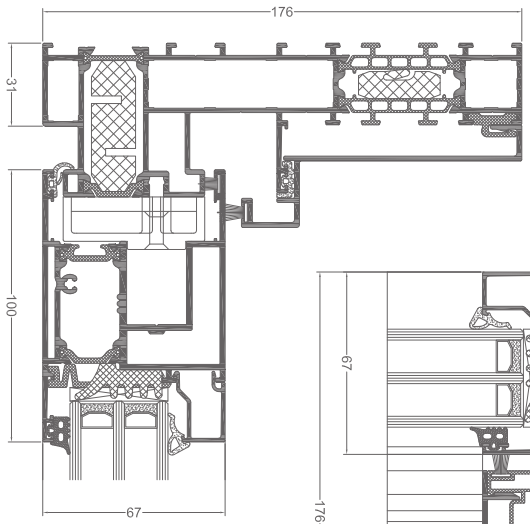
performance

system	thermal insulation Uf*	air permeability	windload resistance	watertightness
Ultraglide Monorail	Uf from 0,93 W/m²K	Class 4; EN 12207	Class C5 (2000 Pa); EN 12210	Class E750 (750 Pa); EN 12208

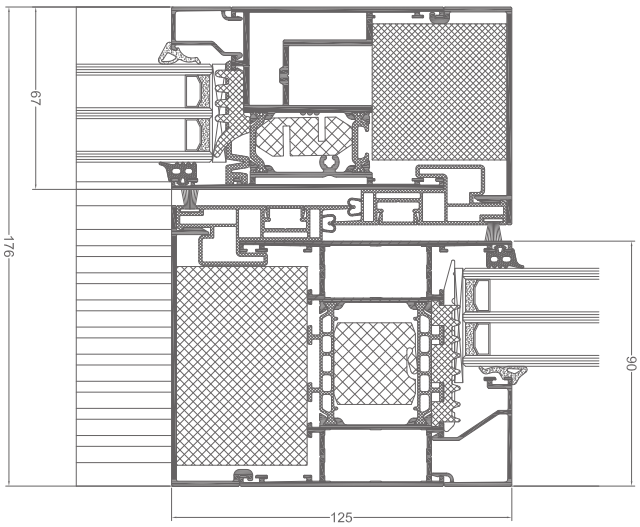
* Thermal insulation is dependent on a combination of profiles and thickness of the filling



Ultraglide Monorail - cross section throught frame (UG611)



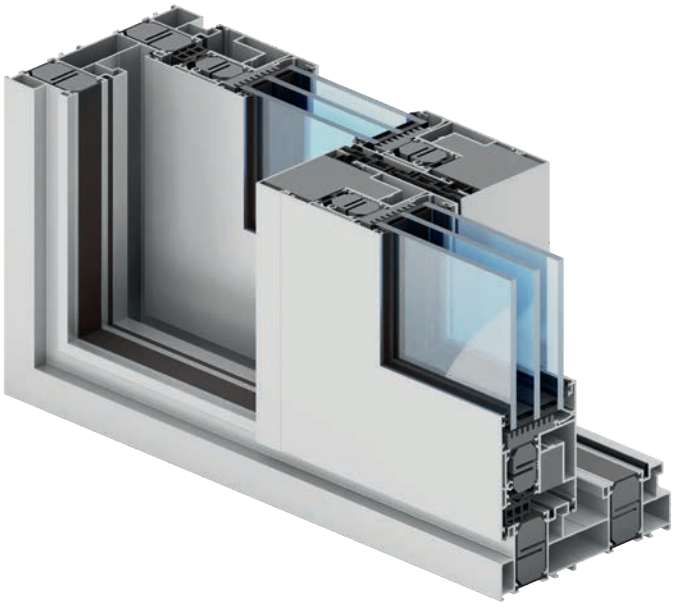
Ultraglide Monorail - cross section throught frame with sash (UG611 + UG820N)



Ultraglide Monorail - cross section throught the connection sash - sash (UG821N + UG620)

sliding systems

Ultraglide **Thermo**



system characteristics

_ system with increased thermal insulation performance used to design slide or lift-and-slide construction
_ based on 1-, 2- and 3-track frames, possible to manufacture construction with 1 and 2 movable sashes
_ UG Thermo system profiles are designed for installation of numerous manually and automation interlocked hardware available on the market
_ possibility of using different types of filling (double and triple glass unit)
_ there is possibility of use Insect System (fly screen are a practical and an extremely funcional protection against insects)
_ a wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

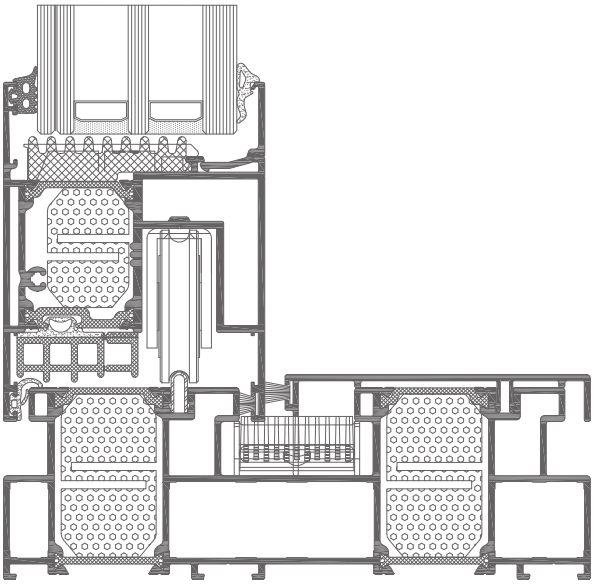
technical specification

system	material	depth of frame	depth of leaf	glazing range	weight of leaf
UG Thermo	aluminium / thermal insulation	173 - 269 mm	77 mm	18-59 mm	to 400 kg lift-sliding option/ to 440 kg sliding option

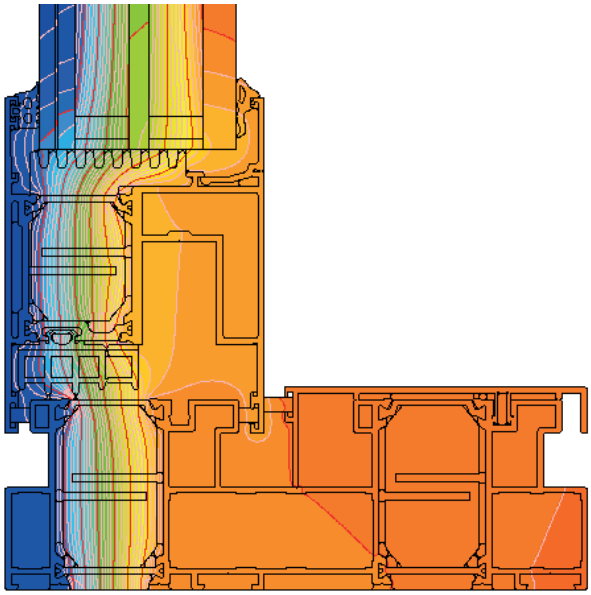
performance

system	thermal insulation Uf*	air permeability	windload resistance	watertightness
UG Thermo	Uf from 1,29 W/m²K	Class 4; EN 12207	Class C3/B4 (1200Pa/1600Pa); EN 12210	Class E750 (750Pa); EN 12208

* Thermal insulation is dependent on a combination of profiles and thickness of the filling



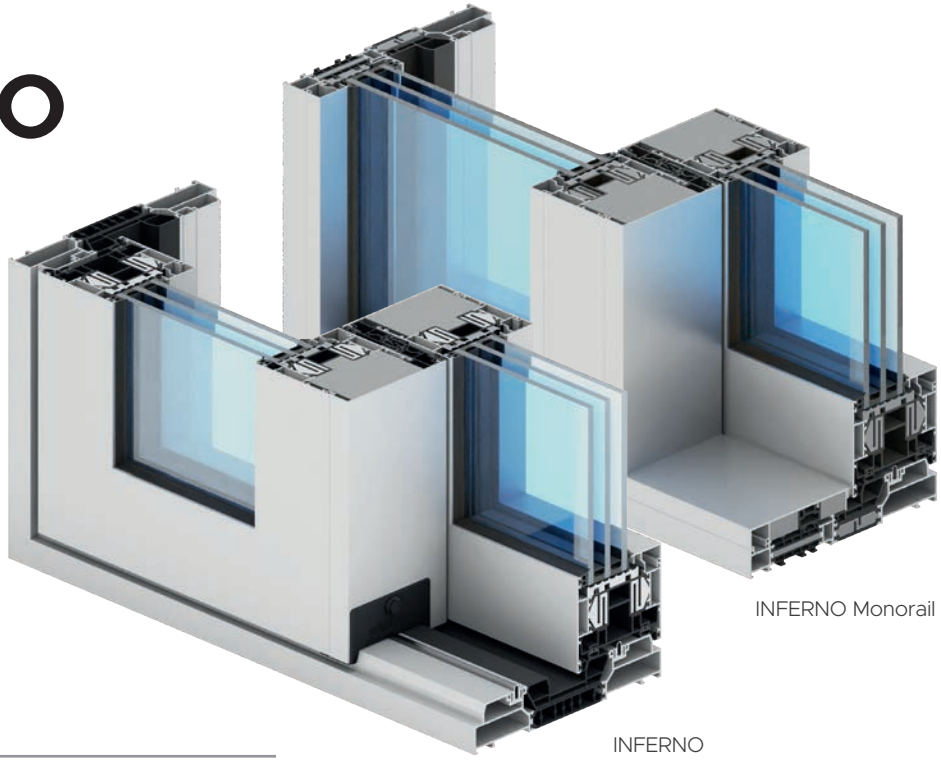
UG Thermo (UG9810 + UG9820N)



distribution of isotherms for frame with sash composition in the UG Thermo system (UG9613 + UG9820N)

lift-and-slide system

INFERNO



INFERNO Monorail

INFERNO

system features

_ a modern system with increased thermal insulation performance used to design lift-and-slide structures
_ frame depth: 200 mm, sash depth = 90 mm (as the equivalent of the installation depth for the Genesis 90 window system)
_ profiles equipped with thermal breaks in sizes not previously used in Aliplast systems:
  – width of the thermal break in the frame: 80 mm
  – width of the sash thermal break: 65 mm
_ the INFERNO system uses a unique solution of doubling the closing gaskets, improving the tightness, as well as acoustic and thermal insulation
_ despite the considerable installation depth, the INFERNO system is characterised by high visual clarity: the visible dimension of the overlap of the sashes is lower than in the previous structures – it is 100 mm (previous solutions: frame ad sash assembly 112 mm)
_ sashes suitable for the installation of glass unit up to 71 mm thick; their mass can reach up to 600 kg
_ the system uses an innovative solution to transfer the total mass of the infill directly to the hardware trolleys, and from them to the track and frame - this allows. The sash to operate better; as a novelty, the bolts in the sashes have hooks or pins masked in the sash, and the frame features hook bars with anodised finish or in the colour of the joinery.
_ possible use of traditional hardware with frame hooks
_ INFERNO is designed as a two-rail system, with the possibility of expanding the number of rail
_ available INFERNO Monorail solution (one lift-and-slide sash, the other part is glazed within the frame)
_ with to the unification of the sash depth with the Genesis 90 system, in the fixed parts of the INFERNO Monorail system, the Genesis 90 turn-only and turn-and-tilt window sashes can be used
_ possible to glaze from the outside – beneficial when using large and heavy glazing, which is easier to install from the outside of the building
_ the INFERNO system is adapted to the latest requirements in the area of thermal insulation, aesthetics and safety
_ possibility of using different types of infill (single and double glass unit)
_ the system allows the use of large glazing, which provides excellent interior lighting and facilitates their arrangement, while maintaining the stability, functionality and lightness of the structure
_ maximum structure dimensions:
  – sash height Hs=3000 mm and sash width Bs=3000 mm /Sobinco/
_ INFERNO lift-and-slide structures are designed for use in residential buildings, mainly individual and public buildings
_ wide range of colours – RAL palette (Qualicoat 1518), textured colours, Aliplast Wood Colour Effect – wood colour, Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

product specification

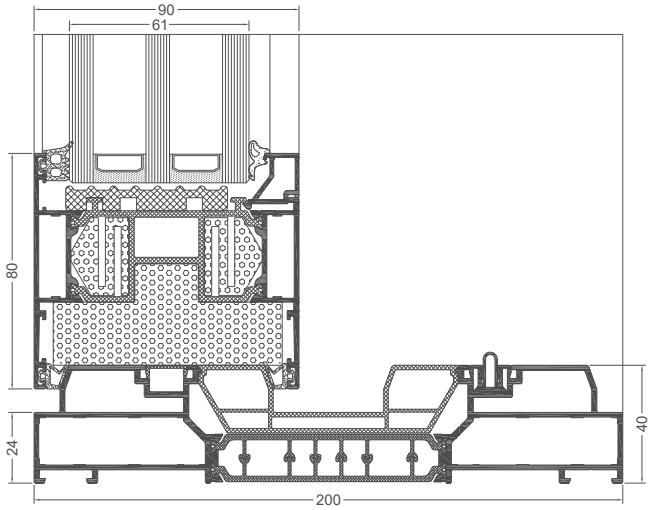
system	material	frame depth	sash depth	glazing thickness	door type
INFERNO	aluminium/polyamide	starting from 200 mm	90 mm	27 mm to 71 mm	lift-and-slide

technical data

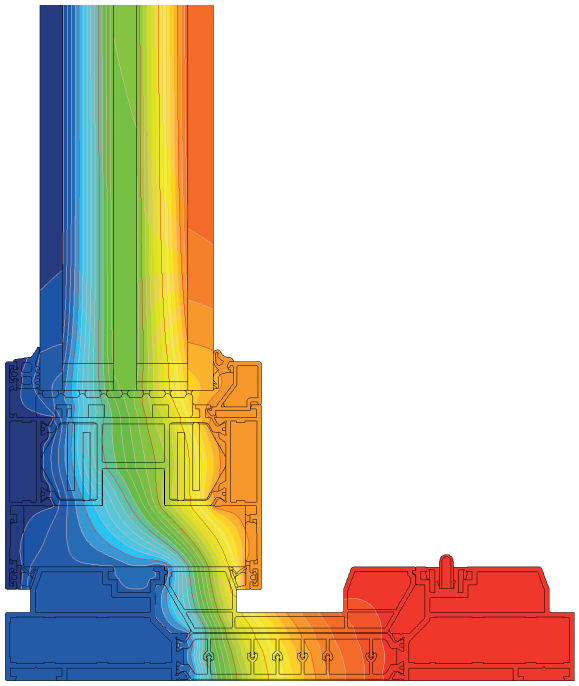
system	thermal performance Uf*	air permeability	wind load	watertightness
INFERNO	starting from 1.05 W/m²K	Class 4; EN 12207	C3/B3 (1200Pa); EN 12210	E1200 (1200Pa); EN 12208

* Thermal performance depends on the combination of profile assemblies and infill thickness

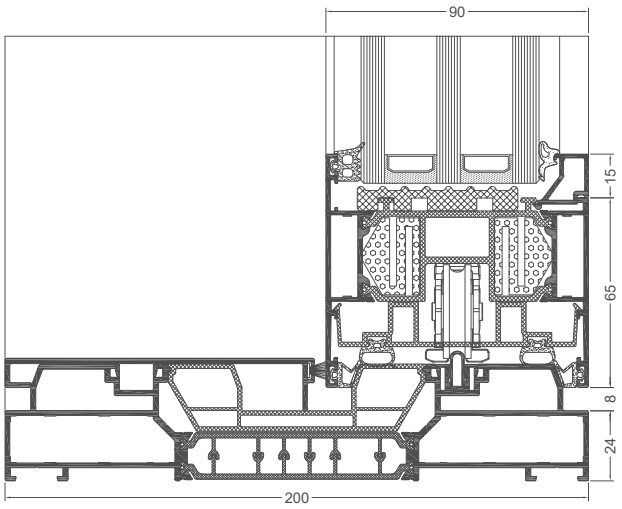
INFERNO



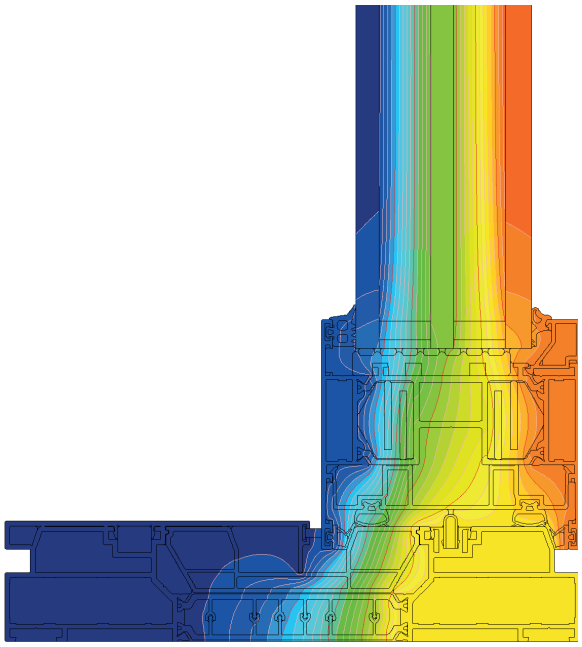
cross-section of the frame and sash along the outer track for the INFERNO system (MG010 + MG020)



example isotherm distribution for the INFERNO system (MG010 + MG020)

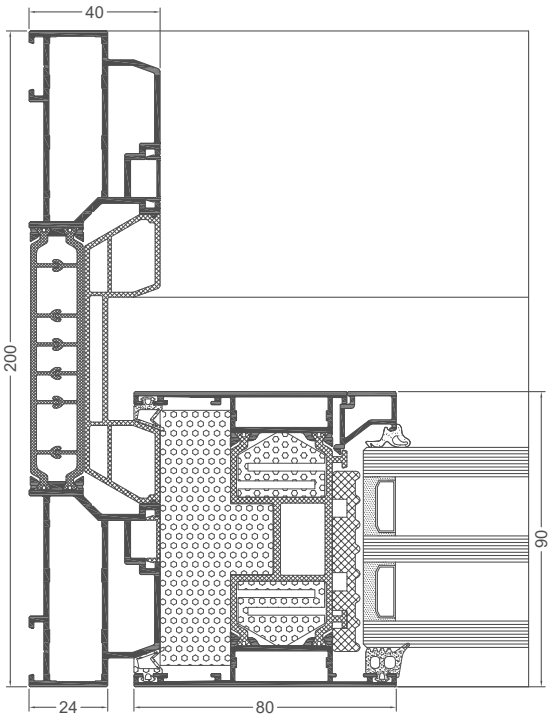


cross-section of the frame and sash along the internal track for the INFERNO system (MG010 + MG020)

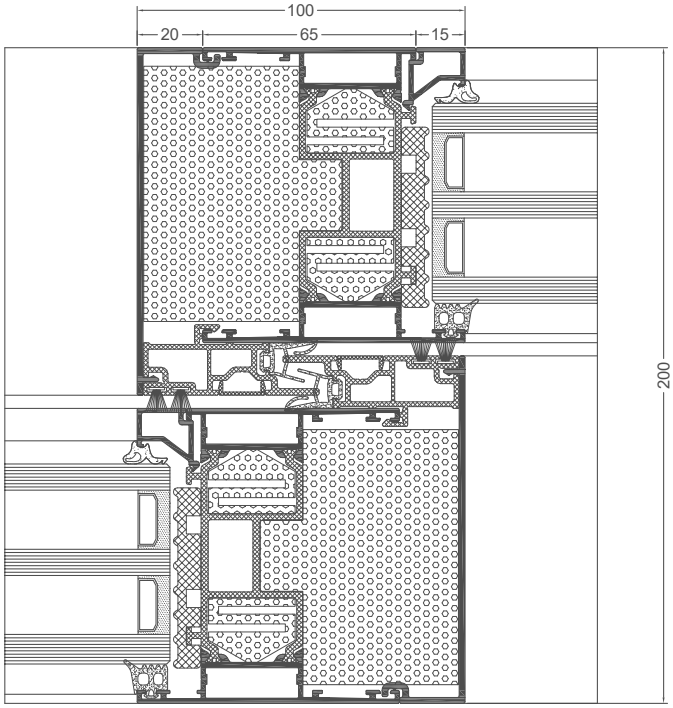


example isotherm distribution for the INFERNO system (MG010 + MG020)

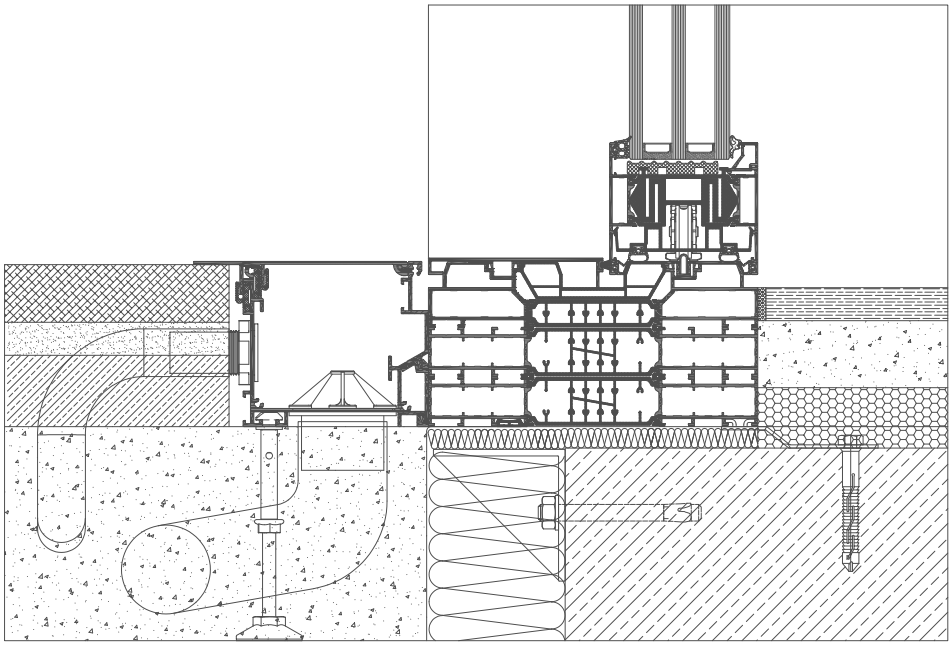
INFERNO



horizontal cross-section for the INFERNO system (MG010 + MG020)

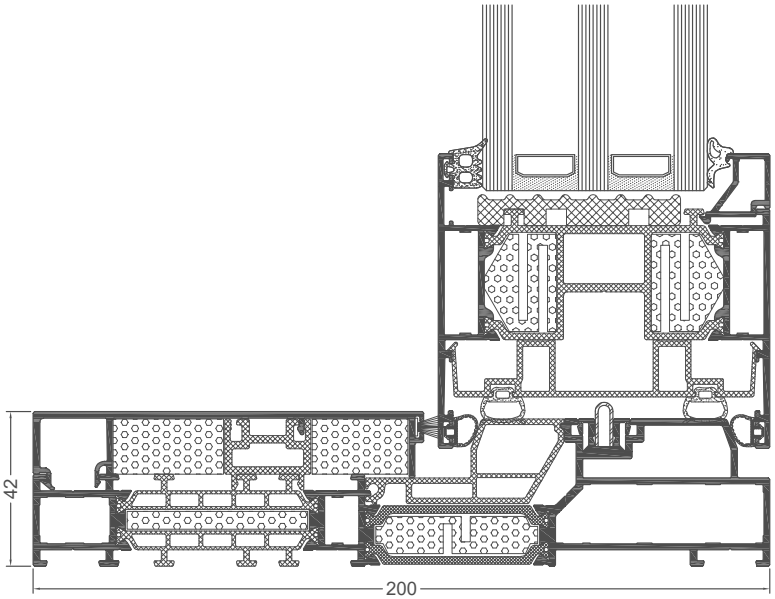


cross-section of the sash-sash joint for the INFERNO system (MG020 + MG020)

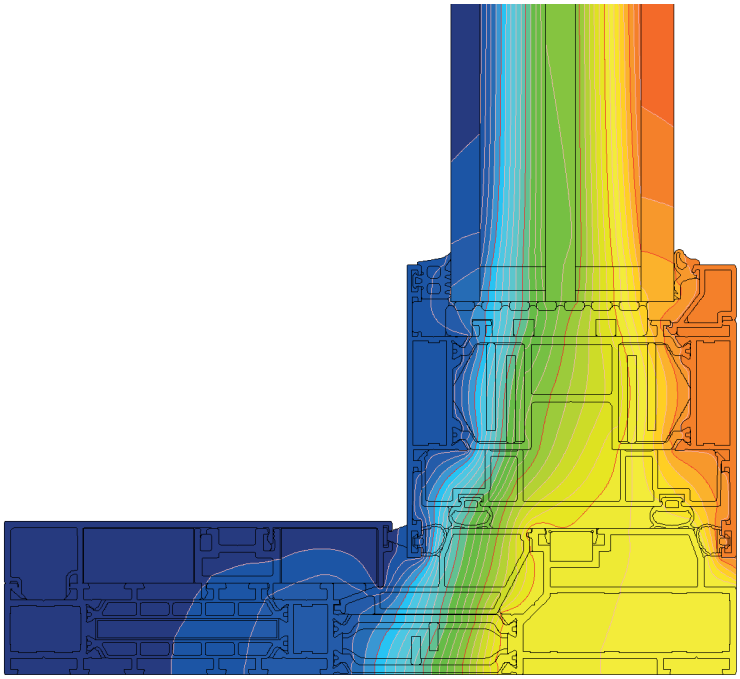


cross-section of the INFERNO system threshold with system-based linear drainage

INFERNO **Monorail**

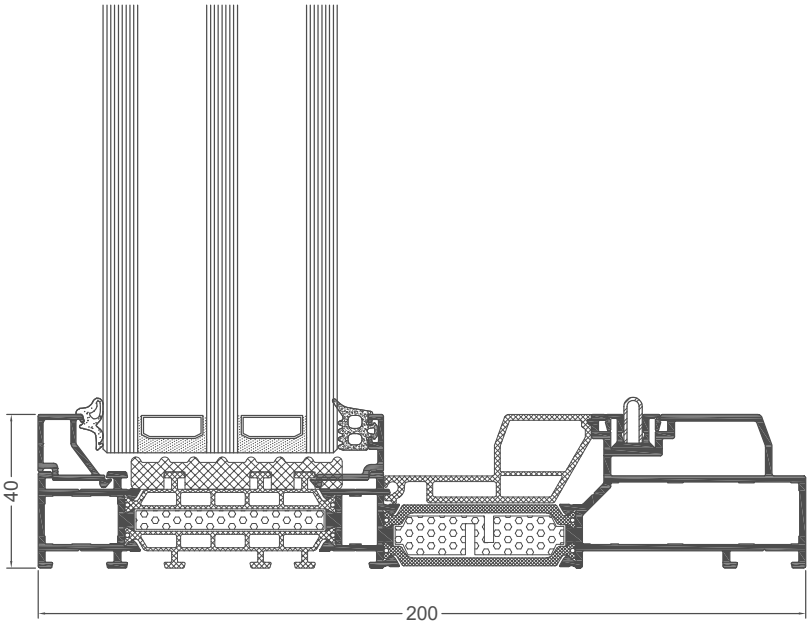


cross-section of the INFERNO Monorail threshold and sash (MG610 + MG020)

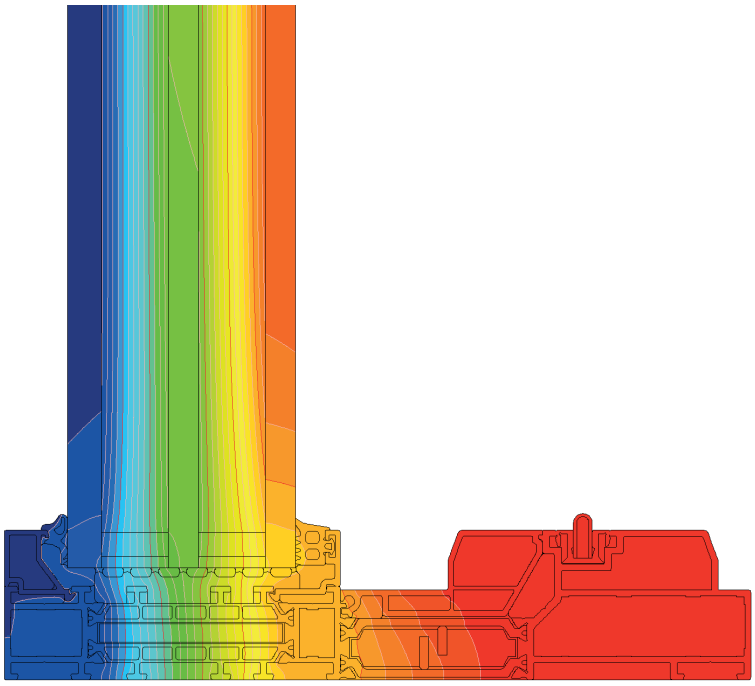


example isotherm distribution for the INFERNO Monorail system (MG610 + MG020)

INFERNO **Monorail**



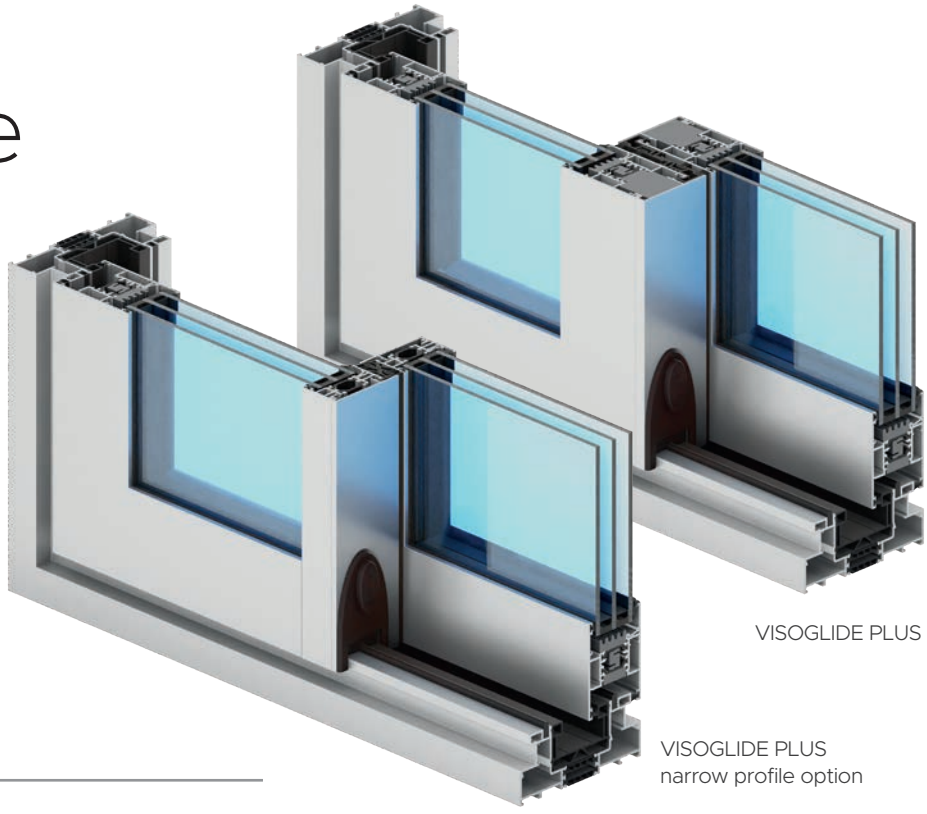
cross-section of the INFERNO Monorail (MG610)



example isotherm distribution for the INFERNO Monorail system (MG610)

sliding systems

Visoglide **Plus**



VISOGLIDE PLUS

VISOGLIDE PLUS
narrow profile option

system characteristics

_ system with increased thermal insulation performance used to design slide or lift-and-slide construction
_ available options of the system: sliding and lift-and-slide; available versions of the system: monorail
_ extremely narrow labyrinth stud in sliding and lift-and-slide leaves: 34 mm wide
_ possible combinations of two, three, four and six elements on a two- or three-rail frame
_ there is possibility of use Flyscreen system and Insect System (fly screens are a practical andan extremely functional protection against insects)
_ a wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

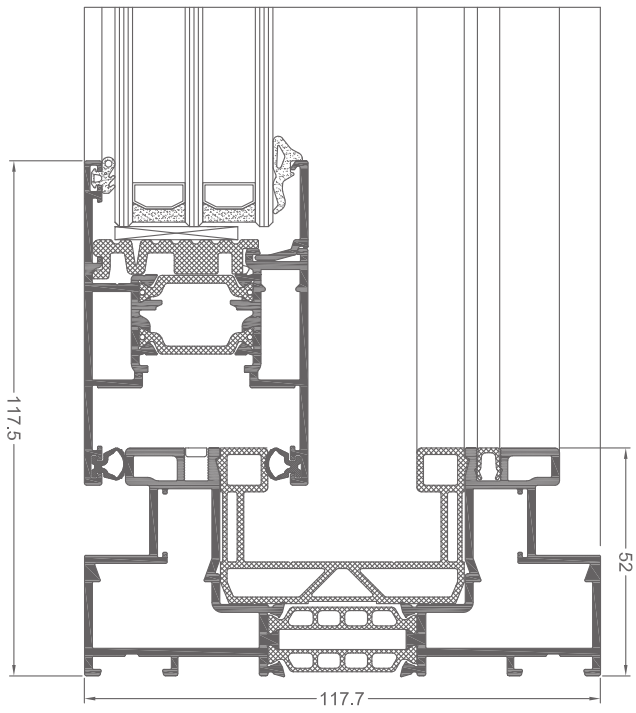
technical specification

system	material	depth of frame	depth of leaf	glazing range	weight of leaf	type of doors
VG Plus	aluminium / thermal insulation	118/142/184 mm	51 mm	6-36 mm; monorail option: 18-60 mm	to 250 kg in sliding option / to 200 kg in lift-sliding option	sliding, lift sliding

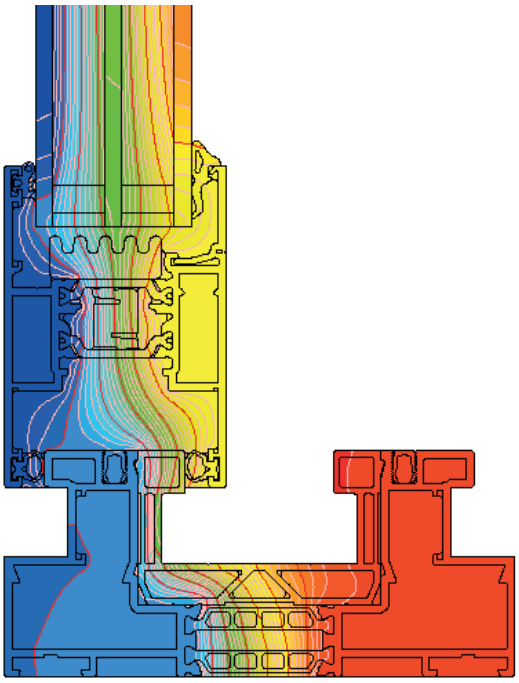
performance

system	thermal insulation Uf*	air permeability	windload resistance	watertightness
VG Plus	Uf from 2,1 W/m²K	Class 4; EN 12207	Class C3/B4 (1200 Pa); EN 12210	Class 9A; EN 12208

* Thermal insulation is dependent on a combination of profiles and thickness of the filling



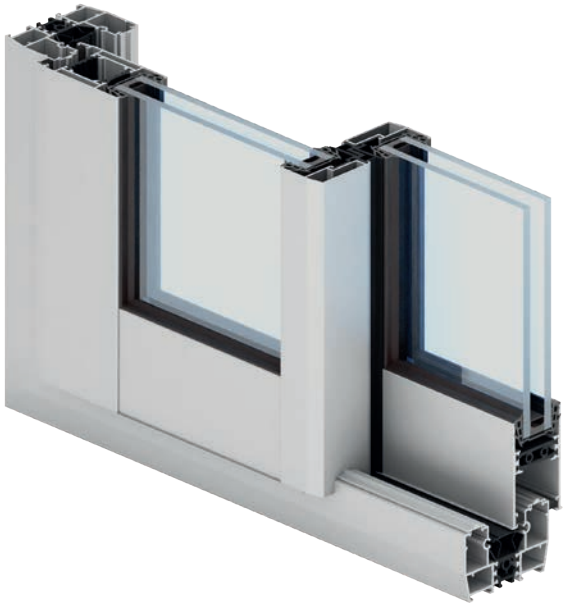
VG Plus cross section (VG1518 + VG520N)



distribution of isotherms for frame with sash composition in the VG Plus system (VG1518 + VG520N)

sliding systems

Modern **Slide**



system characteristics

_ the system featuring improved thermal performance is used to design sliding structures
_ the solutions offered by the Modern Slide system make are suitable for designing sliding structures on 2-, 3- and 4-rail frames
_ the galandage solution makes it possible to hide almost completely sliding leaves in the building wall to maximise the clear opening once the structure leaves are opened
_ the system also offers the monoblock solution
_ the width of the joint between two structure leaves is only 35 mm; the profiles are available in 3 versions suitable for various resistance-related requirements
_ there is a possibility of use Flyscreen and Insect System (fly screens are a practical and an extremely functional protection against insects)
_ a wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

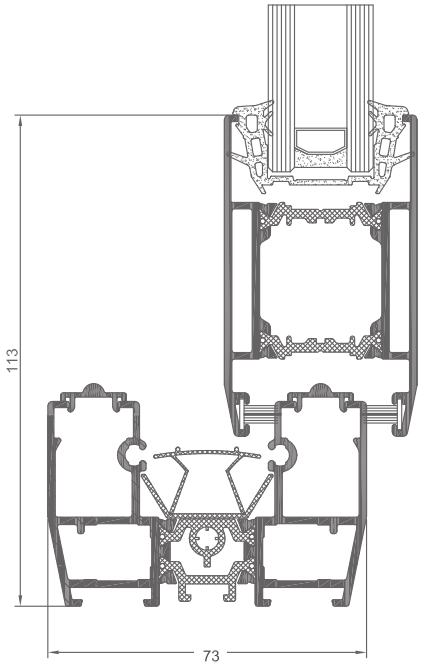
technical specification

system	material	depth of frame	depth of leaf	glazing range	weight of leaf	type of doors
MDS	aluminium / polyamid	73,8 - 195,9 mm	44 mm	24 mm, 28 mm, 32 mm	to 250 kg	sliding

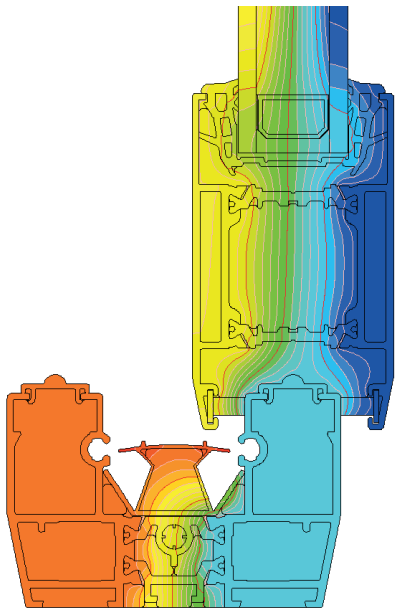
dane techniczne

system	thermal insulation Uf*	air permeability	windload resistance	watertightness
MDS	Uf from 1,50 W/m²K	Class 3; EN 12207	Class C1 (400 Pa); EN 12210	Class 6A (250 Pa); EN 12208

* Thermal insulation is dependent on a combination of profiles and thickness of the filling



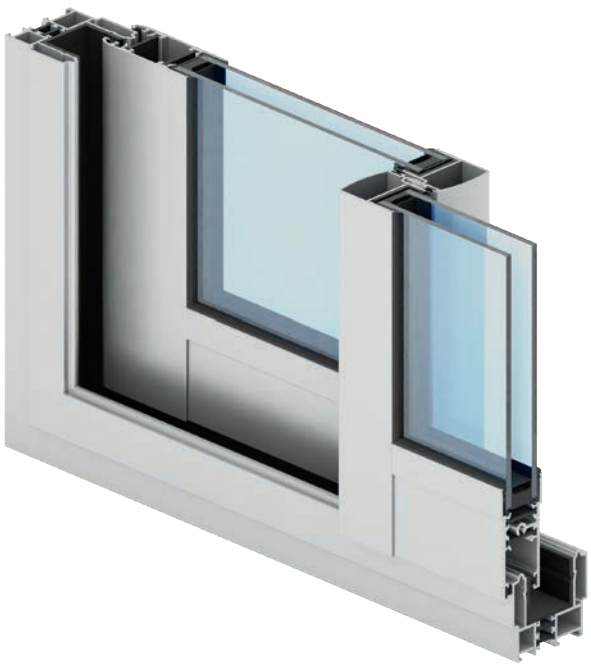
MDS cross-section of the door frame
and leaf on the external rail (MDS010 + MDS022)



distribution of isotherms for frame with sash composition
in the MDS system (MDS010 + MDS022)

sliding systems

Slide **Plus**



system characteristics

_ a system with thermal insulation used to design sliding doors
_ the system is characterised by no glazing strips; infills are installed at the leaf installation stage in leaf C-shaped rabbets without glazing strips, with a seal which surrounds the infill
_ the frames are available in two versions: with an extruded slide rail and a separate profile for travelling trolleys (mounted at the lower sections of the leaves)
_ vertical leaf profiles have a profiled grip along the entire leaf height; the grips also provide static reinforcement of the structure
_ there is possibility of use Flyscreen system and Insect System (fly screens are a practical and an extremely functional protection against insects)
_ a wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

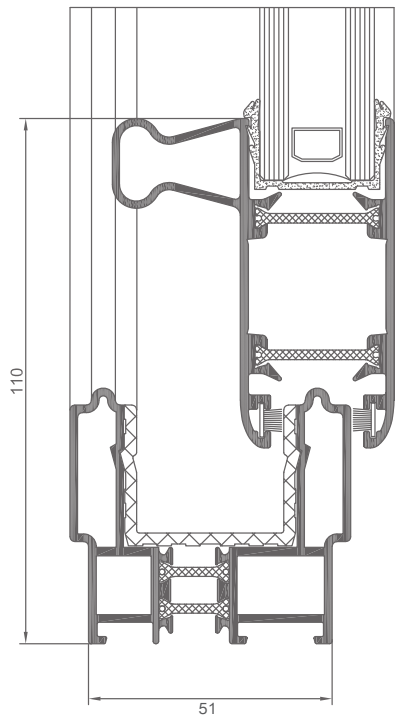
technical specification

system	material	depth of frame	depth of leaf	glazing range	weight of leaf	type of doors
SL+	aluminium / polyamid	59-103 mm	32 mm	6-9 mm, 20-24 mm	to 120 kg	sliding

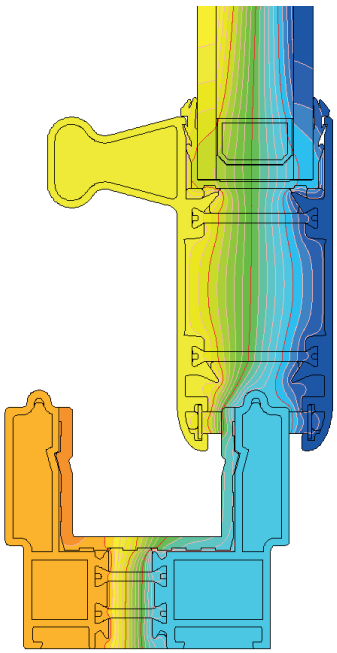
performance

system	thermal insulation Uf*	air permeability	windload resistance	watertightness
SL+	Uf from 3,63 W/m^{2}K	Class 3; EN 12207	Class B3 (1200 Pa); EN 12210	Class 5A (200 Pa); EN 12208

* Thermal insulation is dependent on a combination of profiles and thickness of the filling



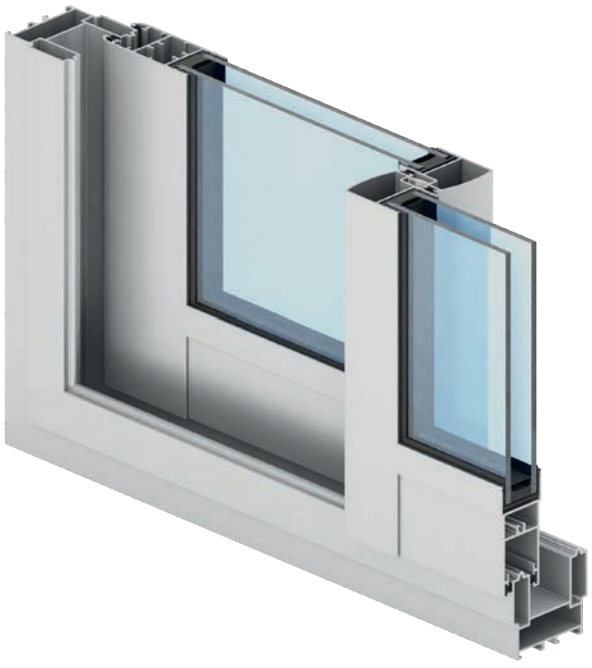
Slide Plus cross section through the connection frame and sash (SL010 + SL1120)



distribution of isotherms for frame with sash composition in Slide Plus system (SL010 + SL1120)

sliding systems

Slide
Cold

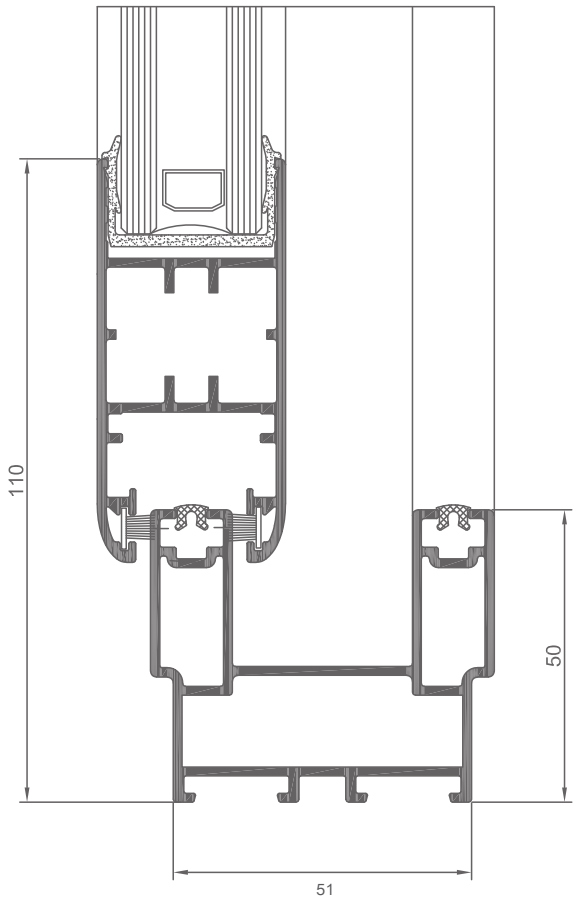


system characteristics

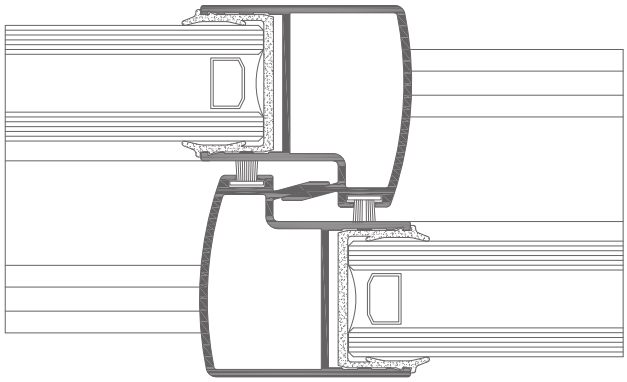
_ a system without thermal insulation used to design sliding doors
_ the system is characterised by no glazing strips; infills are installed at the leaf installation stage in leaf C-shaped rabbets without glazing strips, with a seal which surrounds the infill
_ the frames are available in two versions: with an extruded slide rail and a separate profile for travelling trolleys (mounted at the lower sections of the leaves)
_ vertical leaf profiles have a profiled grip along the entire leaf height; the grips also provide static reinforcement of the structure
_ leaf corners are joined by screwing, whereas the frames can be screwed or crimped
_ there is possibility of use Flyscreen system and Insect System (fly screens are a practical andan extremely functional protec-tionagainst insects)
_ a wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

technical specification

system	material	depth of frame	depth of leaf	glazing range	weight of leaf	type of doors
SL	aluminium / polyamid	47,5-99 mm	32 mm	6-9 mm / 20-24 mm	to 160 kg	sliding



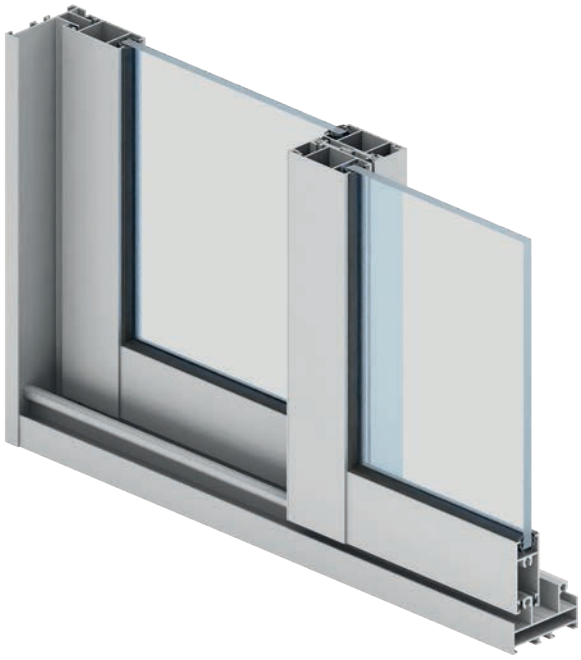
Slide Cold cross section (SL820 + SL8110)



cross section through the connection sash-sash (SL830 + SL830)

sliding systems

Ecoslide

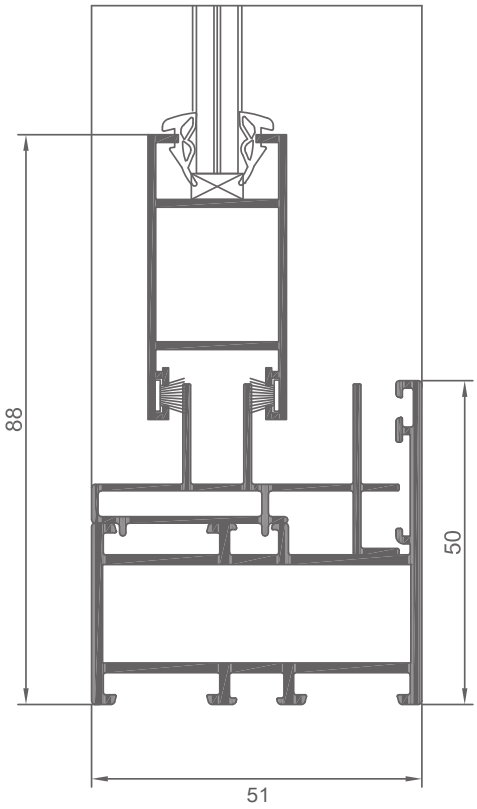


system characteristics

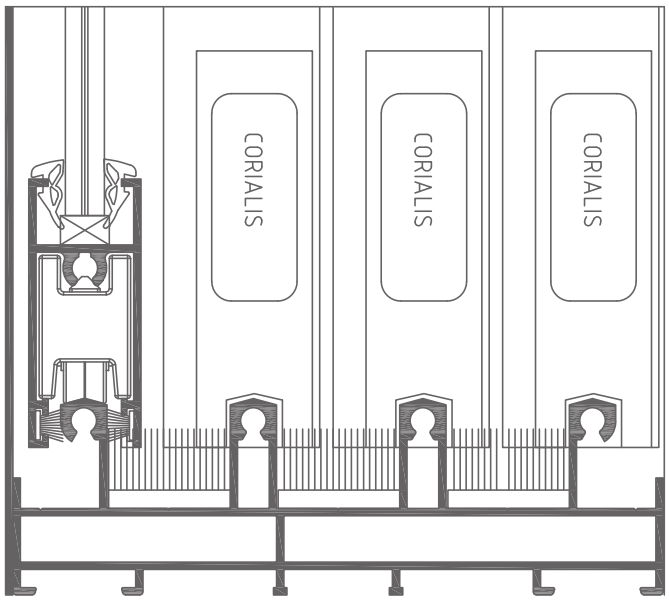
_ a sliding door system without thermal insulation
_ system intended for designing elements of architectural exterior and interior enclosures that do not require thermal insulation
_ the system can have two, three or four rails to design 2-, 3-, 4-, 6 and 8-leaf installations
_ the Ecoslide system is compatible with other systems offered by Aliplast
_ there is possibility of use Flyscreen system and Insect System (fly screens are a practical and an extremely functional protection against insects)
_ a wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

technical specification

system	material	depth of frame	depth of leaf	glazing range	weight of leaf	type of doors
ES	aluminium / poliamid	54 - 106,5 mm	18,5 - 21,5 mm	4 - 12 mm	to 40 kg	sliding



Ecoslide with adaptation profile in Econoline casement Ecoslide – cross section (EL010 + EL015 + ES03)



Ecoslide – cross section (ES04 + ES14)

sliding systems

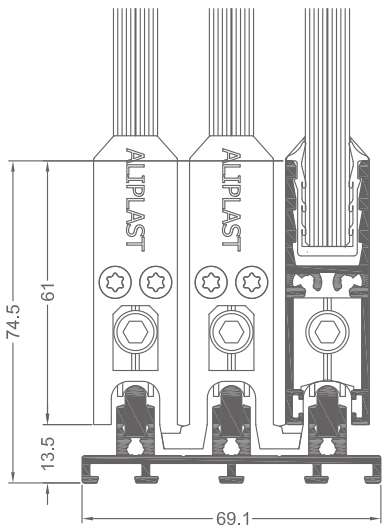
Slide
Glass

system characteristics

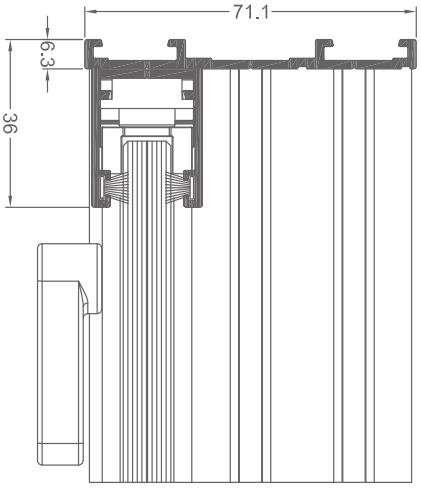
_ sliding system for glass structure installation without thermal insulation
_ characterized by minimal visibility of the edges of aluminium profiles
_ the Slide Glass system offers a solution for a profile-free labyrinth joint (without sealing) or a joint between movable door leaves using a narrow brush profile
_ concealed drainage is possible in the system through lower subframe profiles
_ the system is equipped with dedicated hardware: adjustable or non-adjustable trolleys, glass-fixed handle pull, and special hook locks
_ it can be closed using the built-in catch or the side closure with a lock
_ possibility of using 3-, 4- and 5-track guides
_ the rails for moving the door leaves can be made of aluminium or stainless steel (the rails can be independent, mounted in the travel tracks)
_ system-based solutions provide for the possibility of compensating deflections from components located above the sliding body

technical specification

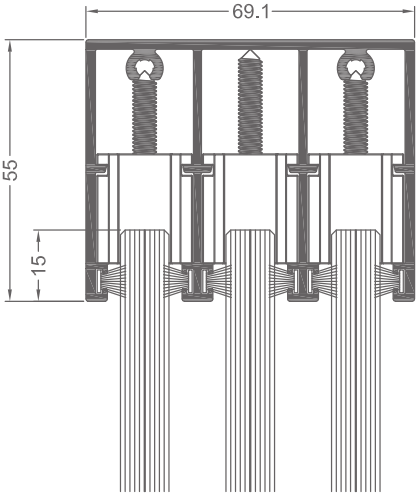
system	material	depth of frame	depth of leaf	glazing range	weight of leaf	type of doors
SG	aluminium / glass	690 - 1130 mm	to 2600 mm	10 mm	to 80 kg	sliding



Slide Glass - bottom horizontal section / sash – frame (SS020 + SS010)



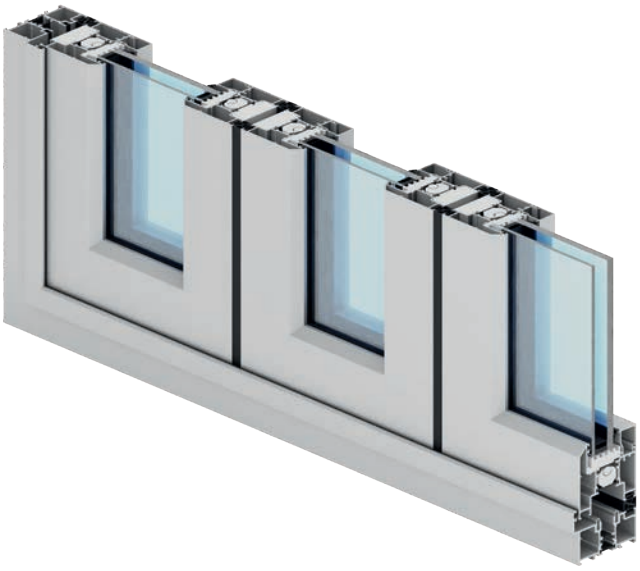
Slide Glass - vertical section / sash - frame – brick (SS210 + SS030)



Slide Glass - top horizontal section / top sash – frame (SS120)

folding door system

Panorama



system characteristics

_ a three chamber door system with thermal insulation used to design folding doors
_ it is possible to use two types of the threshold system: the flat-threshold system is equipped with a brush seal and an air-tight threshold whose design is based on a frame around the perimeter of the entire terrace window
_ depending on requirements and the application, the Panorama systems offers inswing or outswing structures; there are many leaf combinations available (2+1, 3+2, 3+3)
_ new integrated hardware, such as hinge with bottom carriage, hinge with pull handle and low-profile handles, improve structure functionality, with reduced overall dimensions of the assembled accordion door structure at the same time
_ with the minimised visual width of the profile available in the system, the design of folding doors appears to be a light structure
_ the system Panorama is optionally available with improved thermal performance due to additional thermal inserts on the perimeter as well as between door leaf separators and door frames; available options: Panorama, Panorama i +
_ a wide range of available solutions and potential applications makes it possible to design structures for balconies, terraces or winter gardens, and even structures perfect for public and commercial buildings
_ a wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodised colour (Qualanod 1808), bi-colour

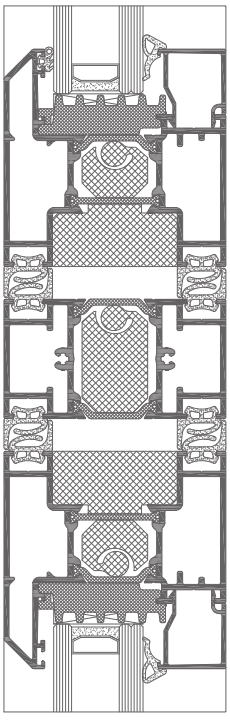
technical specification

system	material	depth of frame	depth of leaf	glazing range	weight of leaf	type of doors
DV	aluminium / polyamid	74,5 mm	74,5 mm	16-50 mm	to 100 kg	folding doors
DV i+	aluminium / polyamid	74,5 mm	74,5 mm	16-50 mm	to 100 kg	folding doors

performance

system	thermal insulation Uf*	air permeability	windload resistance	watertightness
DV	Uf from 1,68 W/m²K	Class 2; EN 12207	Class C1 (400 PA); EN 12210	Class E1050; EN 12208
DV i+	Uf from 1,33 W/m²K	Class 2; EN 12207	Class C1 (400 PA); EN 12210	Class E1050; EN 12208

* Thermal insulation is dependent on a combination of profiles and thickness of the filling



DV i+ cross section – B leaf type (DV5020 + DV5040 + DV5020)

distribution of isotherms for the combination in the Panorama system (DV5020 + DV5040 + DV5020)

Notes

Notes

aliplast
aluminium systems

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