aliplast
aluminium systems

lift-and-slide system

INFERNO

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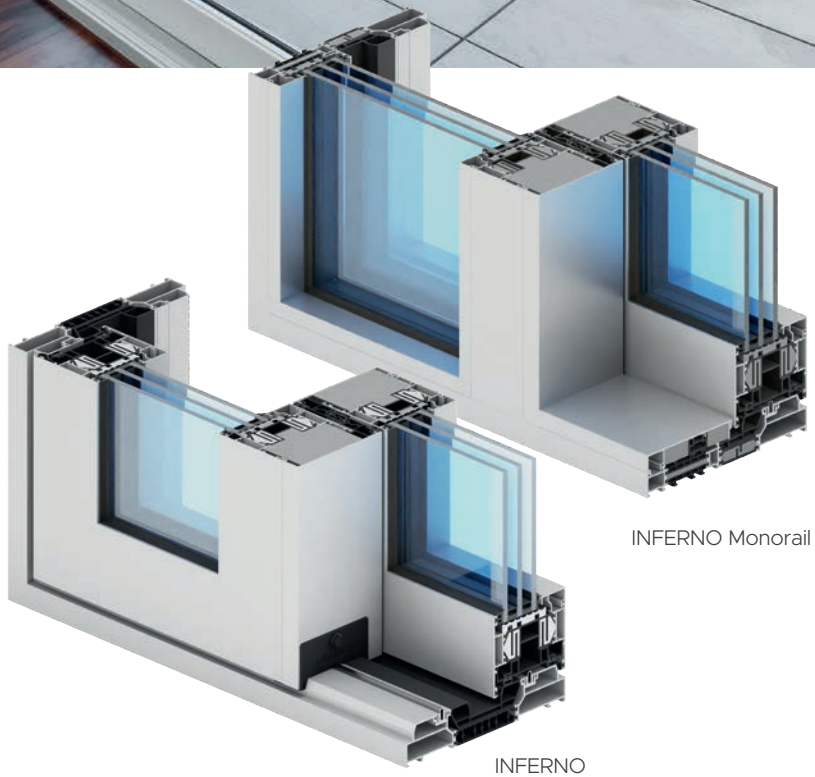
lift-and-slide system



INFERNO Monorail

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INFERNO – a modern system with increased thermal insulation performance used to design lift-and-slide structures

system features

_ 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

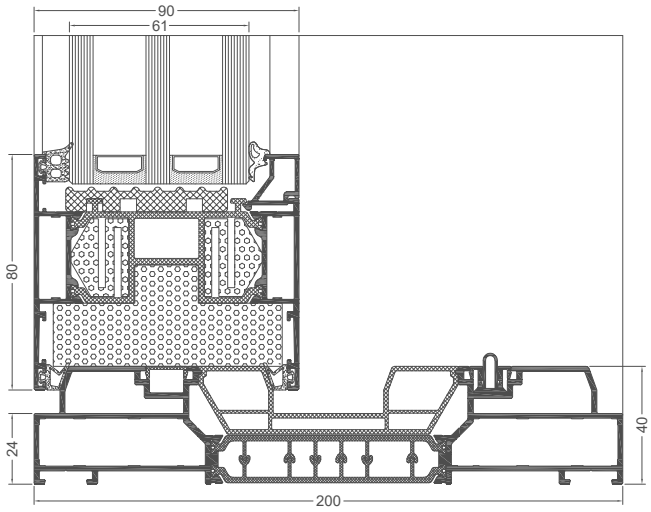
system	material	frame depth	sash depth	glazing thickness	door type
INFERNO	aluminium/polyamide	starting from 200 mm	90 mm	27 mm to 71 mm	lift-and-slide

technical data

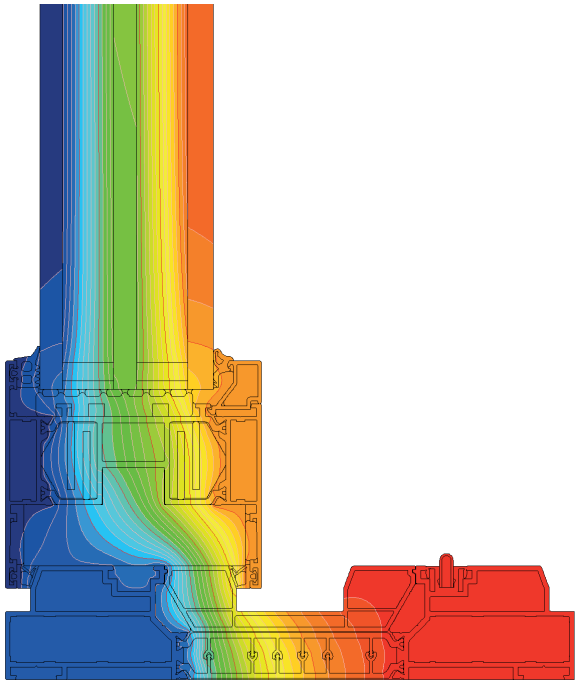
system	thermal performance Uf*	air permeability	wind load	watertightness
INFERNO	starting from 1.05 W/m²K	Class 4; EN 12207	C3/B3 (1200Pa); EN 12210	E1200 (1200Pa); EN 12208

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

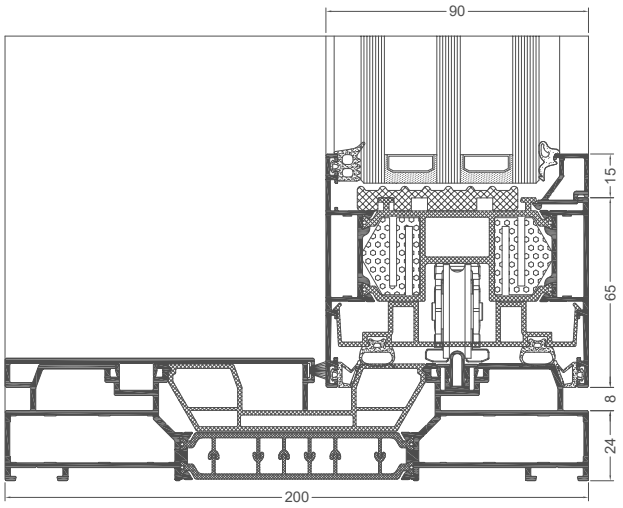
INFERNO



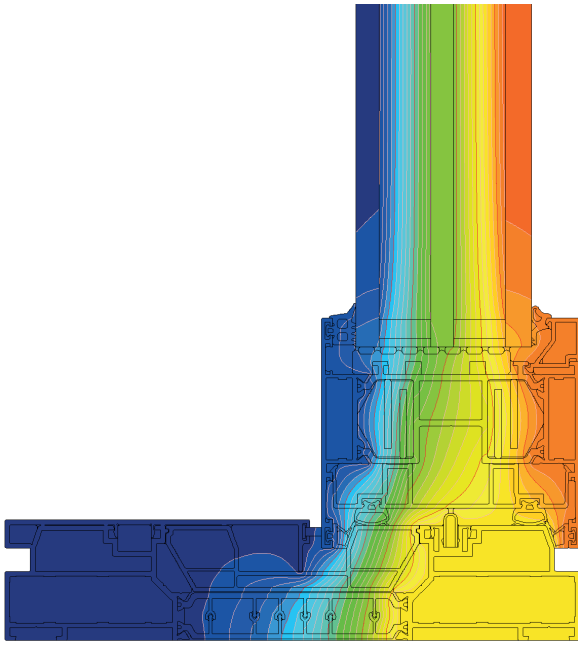
cross-section of the frame and sash along the outer track for the INFERNO system (MG010 + MG020)



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

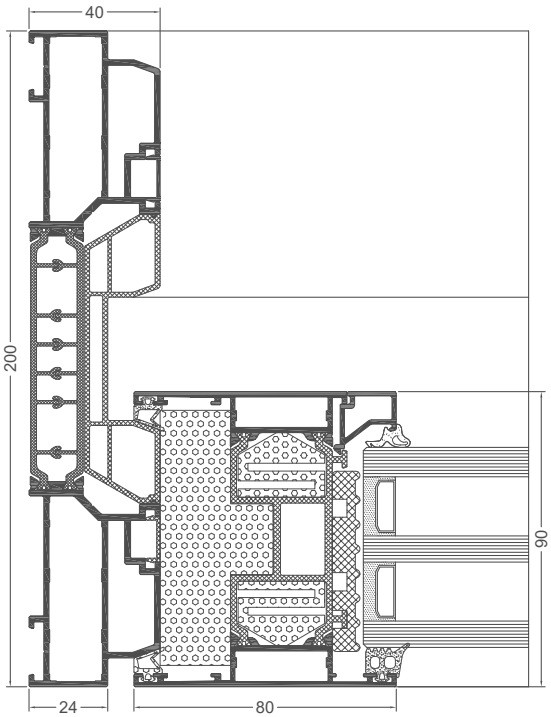


cross-section of the frame and sash along the internal track for the INFERNO system (MG010 + MG020)

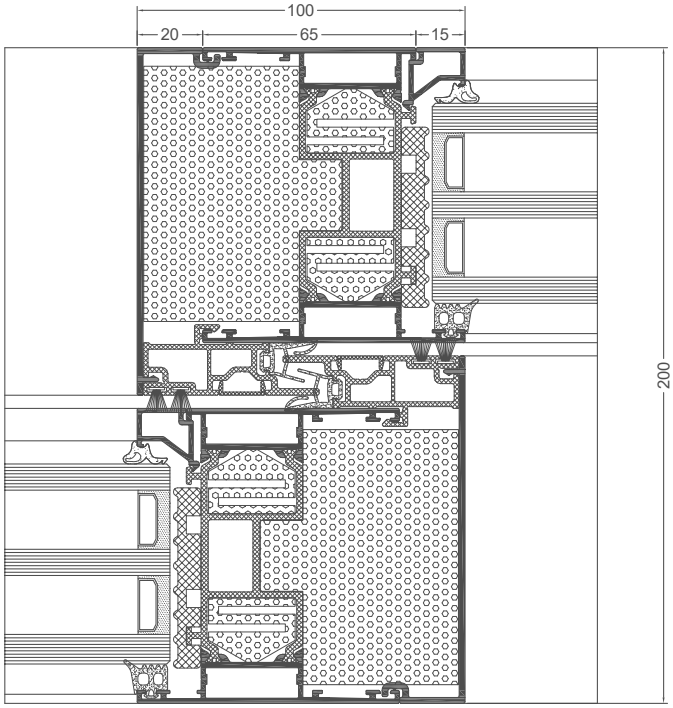


example isotherm distribution for the INFERNO system (MG010 + MG020)

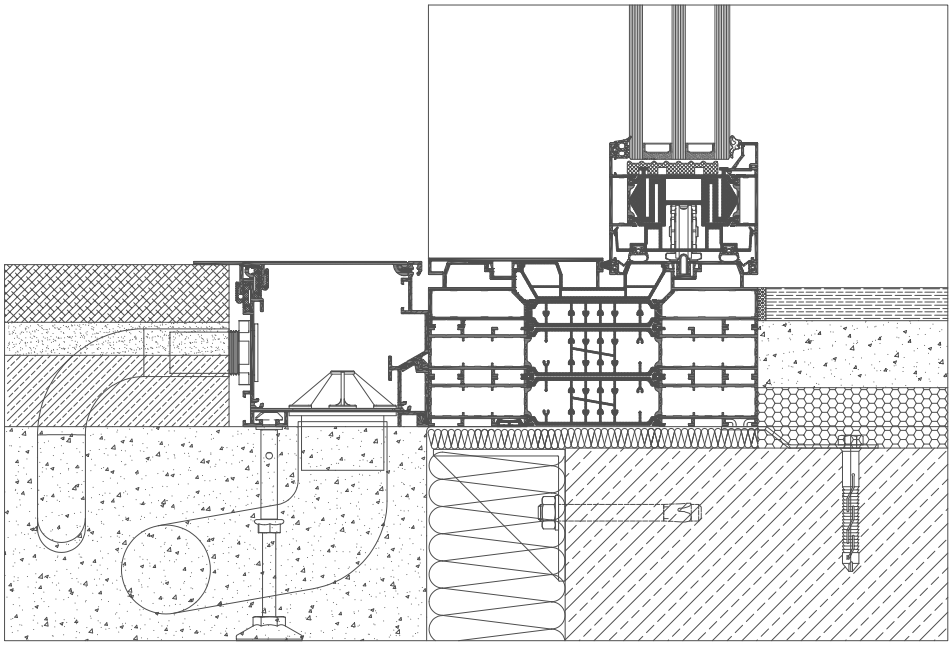
INFERNO



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

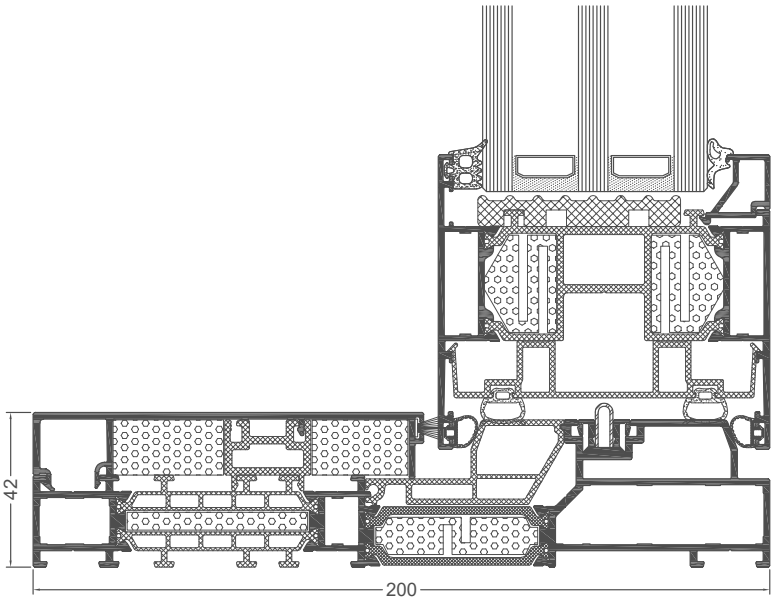


cross-section of the sash-sash joint for the INFERNO system (MG020 + MG020)

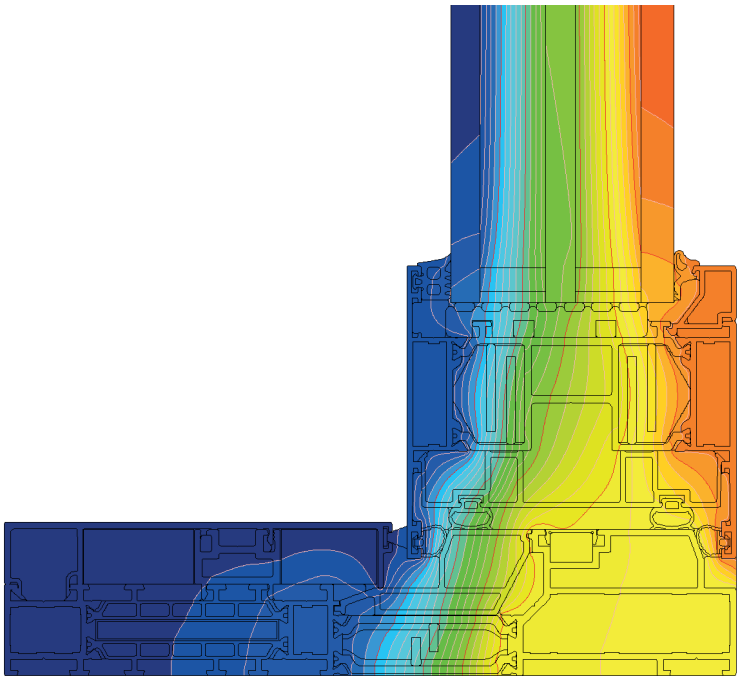


cross-section of the INFERNO system threshold with system-based linear drainage

INFERNO **Monorail**

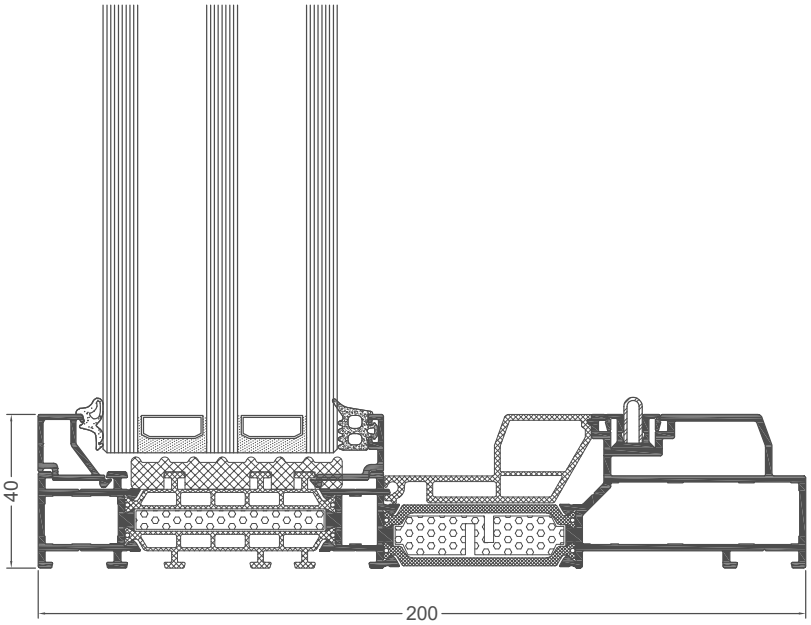


cross-section of the INFERNO Monorail threshold and sash (MG610 + MG020)

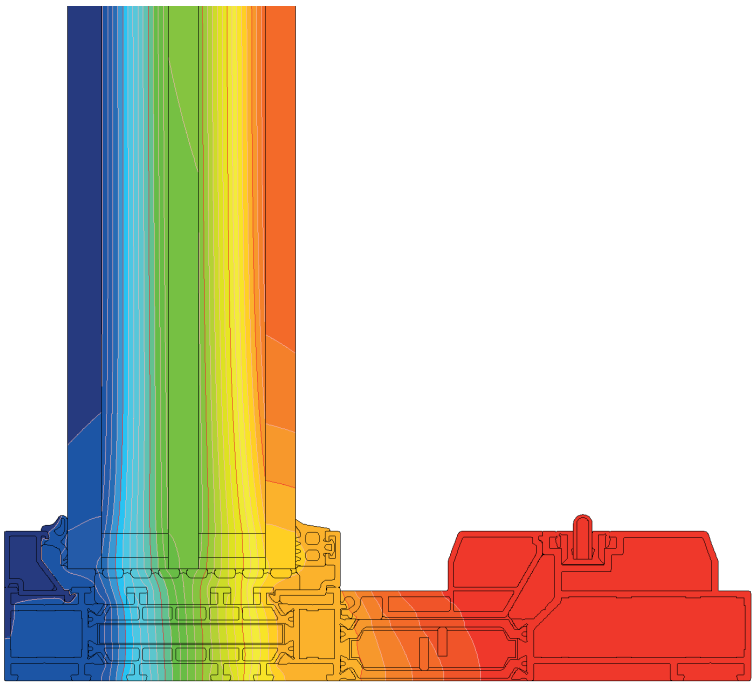


example isotherm distribution for the INFERNO Monorail system (MG610 + MG020)

INFERNO **Monorail**



cross-section of the INFERNO Monorail (MG610)



example isotherm distribution for the INFERNO Monorail system (MG610)

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