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buildingsystem

ARCHITECTURAL ALUMINIUM SOLUTIONS



Confort 160

Sliding Systems

Sapa Building System



Confort 160 is a high performance thermally insulated sliding door system, with a user-friendly slide action. The system, with an attractive aesthetic line, is durable, stable and remarkably energy efficient. With a maximum vent weight up to 400 kg large glazed areas are easily attainable.

Typically designed to offer high end sliding doors with large glass surfaces and heavy glass loads at minimal sightline.

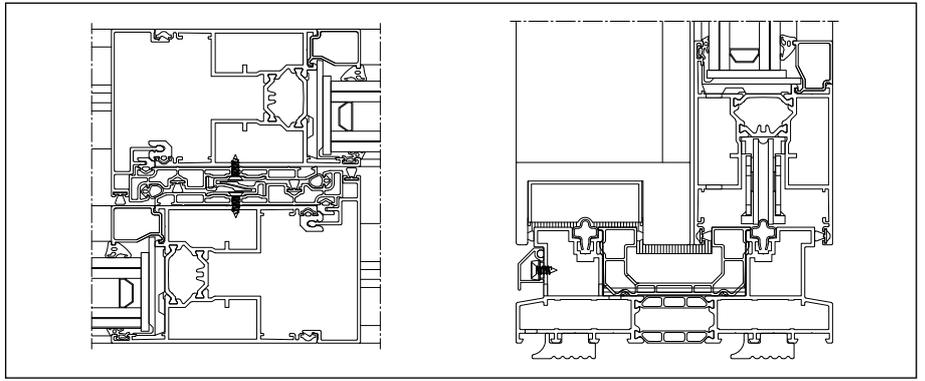
Advanced energy saving on a modular basis

- » Confort 160 profiles are coupled with 40 mm omega shaped, glass fibre reinforced polyamide strips, which reduce thermal conduction. Possibility to gradually enhance thermal value due to application of thermal inserts. The result is that Confort 160 achieves a high thermal performance level and improved total insulation, leading to lower total energy consumption, a positive benefit to the environment
- » The system accommodates glazing up to 55 mm for the vent.
- » Confort 160 SHI: profile combinations with value U_f up to 2,09 W/m²K
- » Confort 160 SI: profile combinations with value U_f up to 2,6 W/m²K
- » Confort 160 I: profile combinations with value U_f up to 2,8 W/m²K
- » Confort 160 Basic: profile combinations with value U_f up to 3,2 W/m²K (EN ISO 10077-2)



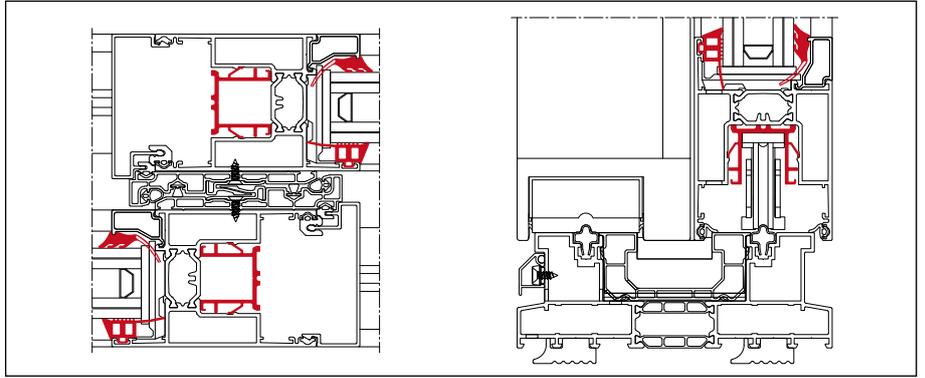
Confort 160 Basic

- › U_f up to 3,2 W/m²K



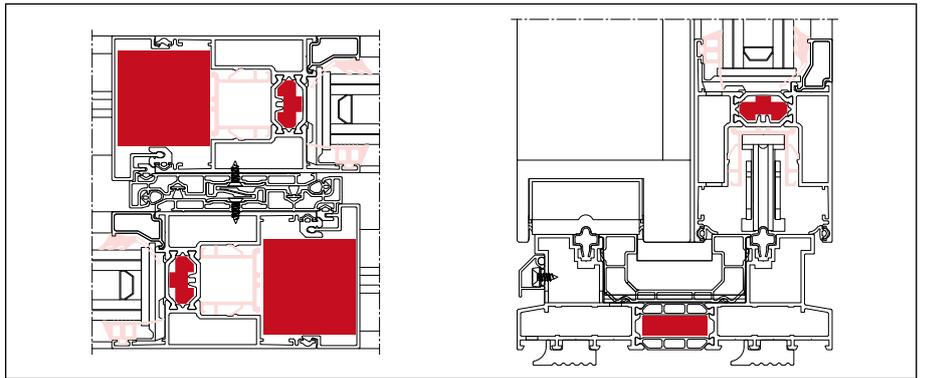
Confort 160 I

- › U_f up to 2,8 W/m²K
- › Improved thermal glazing gaskets
- › Bottom rollers assembled in insulation profile



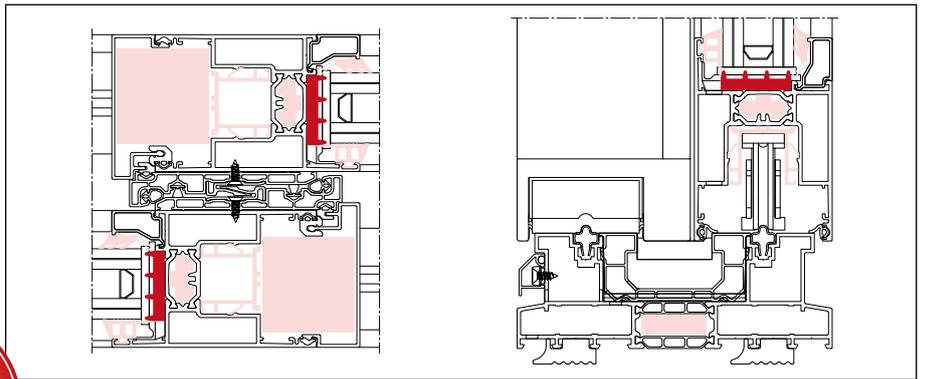
Confort 160 SI

- › U_f up to 2,6 W/m²K
- › Improved thermal glazing gaskets
- › Bottom rollers assembled in insulation profile
- › PE inserts in frame and vent profile (concept Foam-power®)

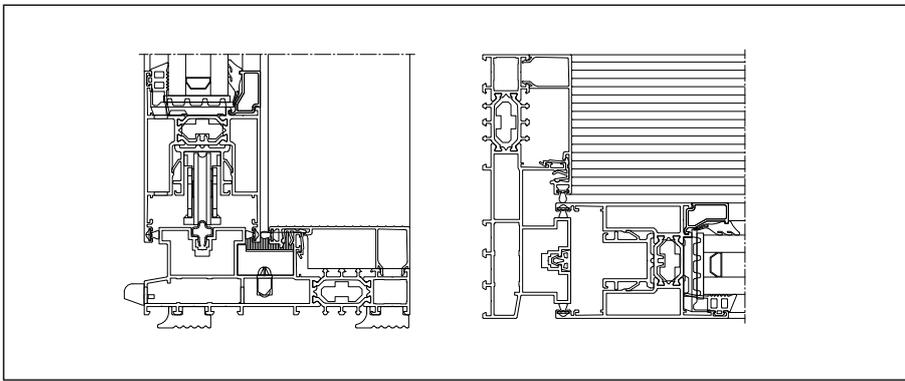


Confort 160 SHI

- › U_f up to 2,09 W/m²K
- › Improved thermal glazing gaskets
- › Bottom rollers assembled in insulation profile
- › PE inserts in frame and vent profile (concept Foam-power®)
- › PE insert thermal improved glazing unit

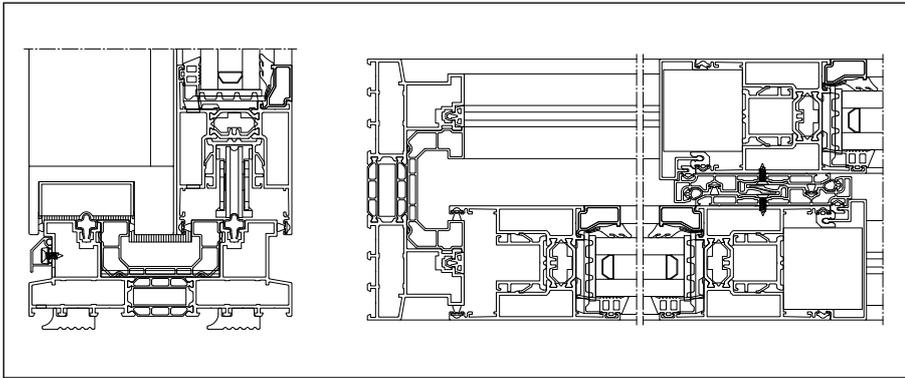


Confort 160	Basic	I	SI	SHI
U_{frame}	≥ 3,2	≥ 2,8	≥ 2,6	≥ 2,09
U_{window} ($U_{glazing} = 1,1$)	1,6	1,5	1,5	1,4
U_{window} ($U_{glazing} = 0,8$)	1,3	1,3	1,2	1,2
U_{window} ($U_{glazing} = 0,5$)	1,1	1,0	0,98	0,91



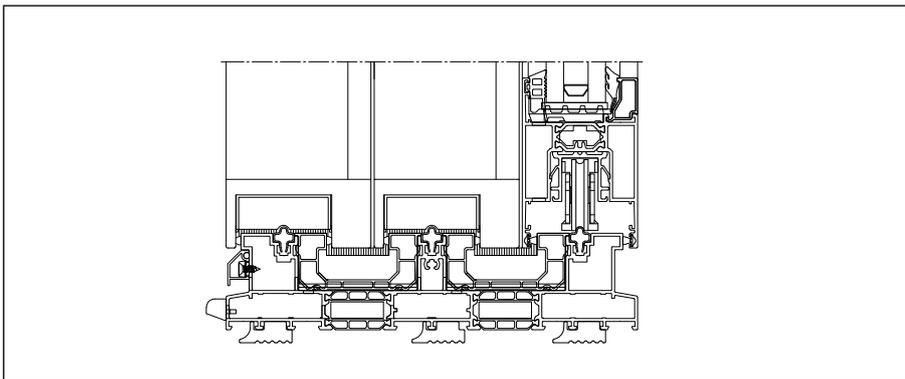
Confort 160 monorail

- » Slide and lift-slide version
- » More incidence of light
- » No additional profile for central sealing gasket



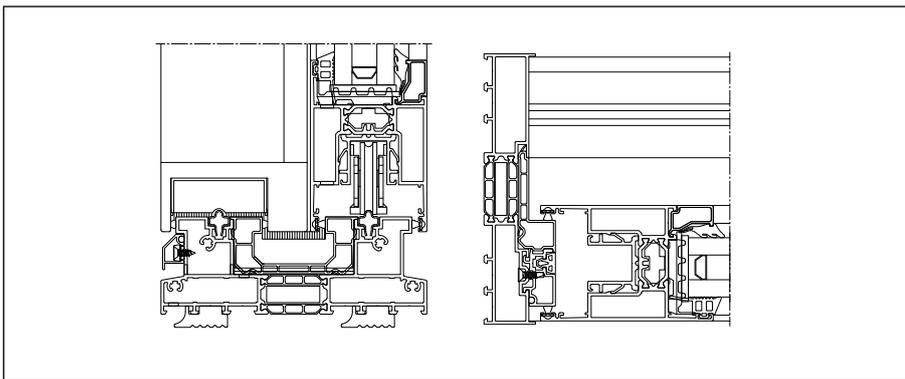
Confort 160 duorail

- » Identical profiles for slide and lift slide
- » Optimized fabrication by using clipping, straight cuts, special end-pieces to a large extent
- » Total preparation in workshop with minimum of operations left to do on-site
- » Multipoint locking
- » Wide range of finishing possibilities



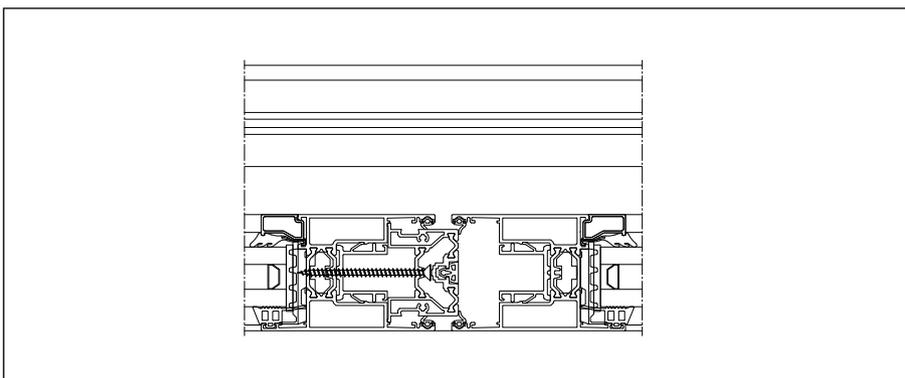
Confort 160 3-rail

- » 3 vents besides each other
- » 2 thirds of the window can be opened
- » Same insulation pieces and sealing profiles
- » 3-rail in straight cut is possible



Confort 160 Straight Cut

- » All profiles are straight cut: no milling required
- » Small sightline
- » Standard corners can still be used
- » Low threshold is possible
- » Upper rail compatible with standard frame

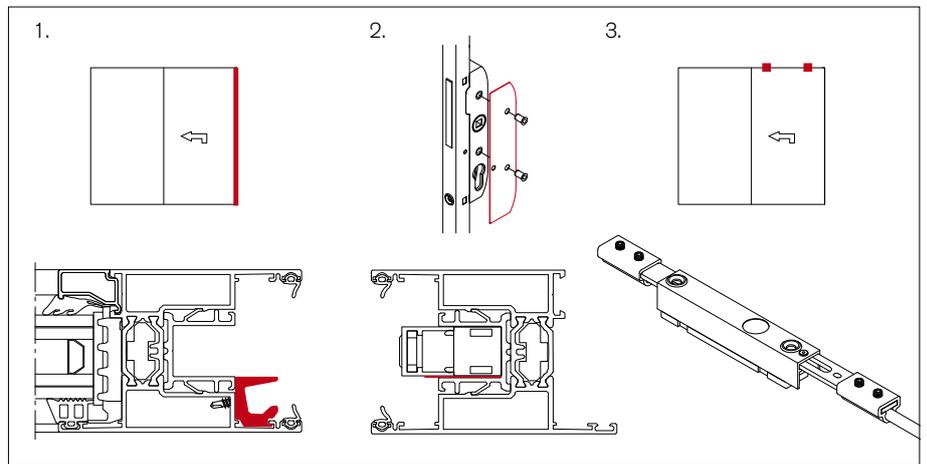


Confort 160 butt-joint

- » Fully thermally insulated
- » Standard locking plate
- » Click system when installing

Enhanced security: Confort 160 WK2

- » The combination of multipoint locking, safety glass and special hardware ensures a high resistance against forced entry.
- » Anti burglary profile prevents penetration via vertical flange (1).
- » Armour plate closes off lock (2).
- » Security pieces on top of the vent prevent lifting (3).
- » Internal tubular glazing beads prevent unclipping of the glazing beads from the outside.
- » Resistance class ENV 1627 – 1630 WK2



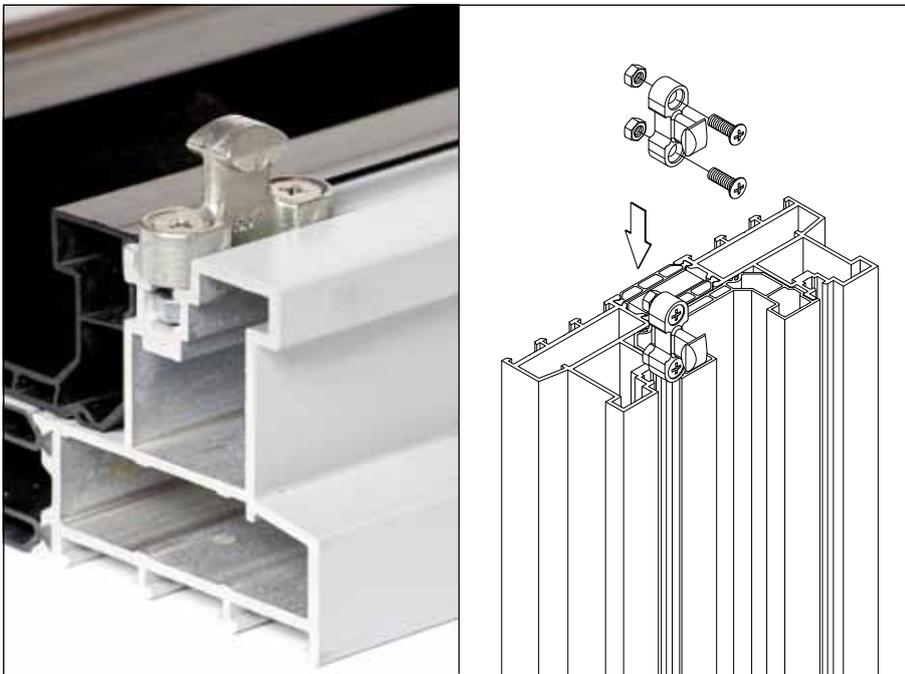
Performance

- » Perfect water evacuation is ensured via drainage holes and integrated sealings.
- » Separated drainage: two levels of drainage.
- » Q-Lon seals ensure perfect weather resistance for the sliding version, EPDM gaskets for the lift-slide version.
- » Combined gasket and brush sealings in central joint of sashes ensure a draught free door.
- » Weather resistance:
Sliding version: 4 (EN 12207); 8A (EN 12208); C3 (EN 12210)
Lift and slide: 4 (EN 12207); E1200 (EN 12208); C3 (EN 12210)

Design

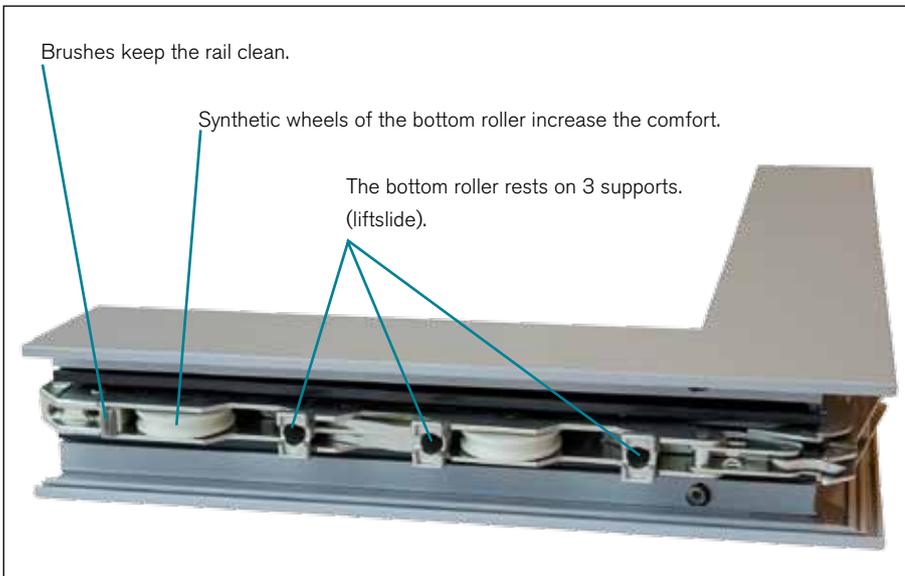
- » Confort 160 was designed to offer a very appealing design in frame and vent.
- » The system is compatible with other Sapa Building System products such as our curtain wall and conservatory systems
- » The frame allows the internal floor finishes to be flush with the inner frame and avoids thresholds.
- » Standard ventilation systems can easily be integrated
- » A comprehensive range of supplementary profiles allows the fenestration to be integrated perfectly into the building.
- » Specially designed end pieces make Confort 160 complete in all respects.
- » The lock of Confort 160 Lift-Slide can include a night vent position, which assures a healthy ventilation of the building.





Easy to manufacture and install

- » The Confort 160 sliding system is designed in such a way that it is easy to fabricate for the manufacturer: the number of operations necessary to fabricate the Confort 160 is very limited.
- » Frames and sashes are assembled using eccentric, pin or press corners. Stainless steel corner chevrons guarantee a perfect alignment of the corners.
- » All profiles are prefabricated using the specially designed punching tools or machining centers. Drainage holes, vent cut outs and the holes punched for the eccentric cleats are therefore very precise, ensuring fast and accurate assembly.
- » No punching needed for the installation of the bottom rollers.
- » Easy to install central drainage system.
- » Straight cut finishing profiles at interlock.
- » Maximum preparation in house, minimum assembly on site.
- » Similar fabrication procedures between lift and lift-and-slide version.
- » Fabrication manuals and precise software give the fabricator the information he requires to proceed swiftly.
- » Sapa Building System offers its software SapaLogic, an open concept for automation, to fabricators who have a CNC machining center.







Strength & Durability

- » A combination of strong profiles, stainless steel rails and polyamide rollers with needle bearings, allows Confort 160 to be used for glazed areas up to 3 meter high without external reinforcement.
- » The use of a stainless steel rail ensures the smooth movement of the vents and avoids surface finish peeling off.
- » Polyamide bottom rollers can take up to 400 kg for each vent and still ensure a smooth operation.
- » The vent profiles with a building depth of 70 mm accommodate glazing up to 55 mm. So triple and laminated glass are possible.

Environment

- » All Sapa System profiles can be easily cleaned.
- » Aluminium does not rust, rot or tear and the shape does not deform.
- » Aluminium is a green product. It can be recycled infinitely without quality loss.

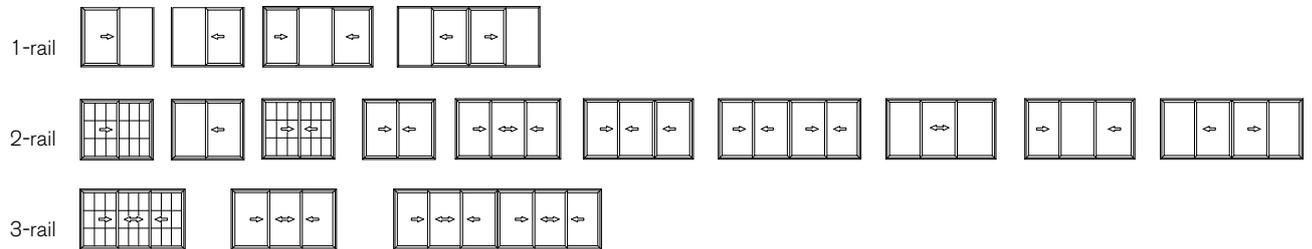
Finishes

- » Over 400 powder coated paint colours in matt, gloss or satin.
- » Unique wood effect, textured and textured metallic ranges are available.
- » Anodised finish is also an option.
- » Accessories can be supplied in corresponding colours to match the profiles.
- » Polyamide thermal breaks allow bi-colour finishes, so that the exterior design requirements do not infringe the interior design requests.
- » Our surface finishes meet the highest standards of Qualicoat or Qualanod.

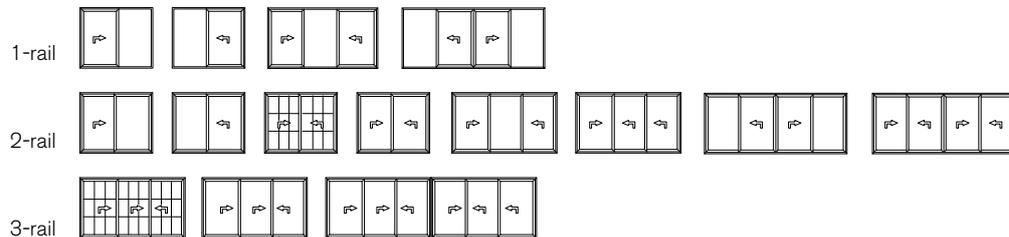


Applications

Slide



Lift-Slide



Dimensions

Min. sightline 2-rail (fixed part)	149 mm
Min. sightline 2-rail (sliding part)	149 mm
Min. sightline transom in vent	126 mm
Profile depth 2-rail	160 mm
Profile depth vent	70 mm
Max dimensions	3000 x 3250 mm

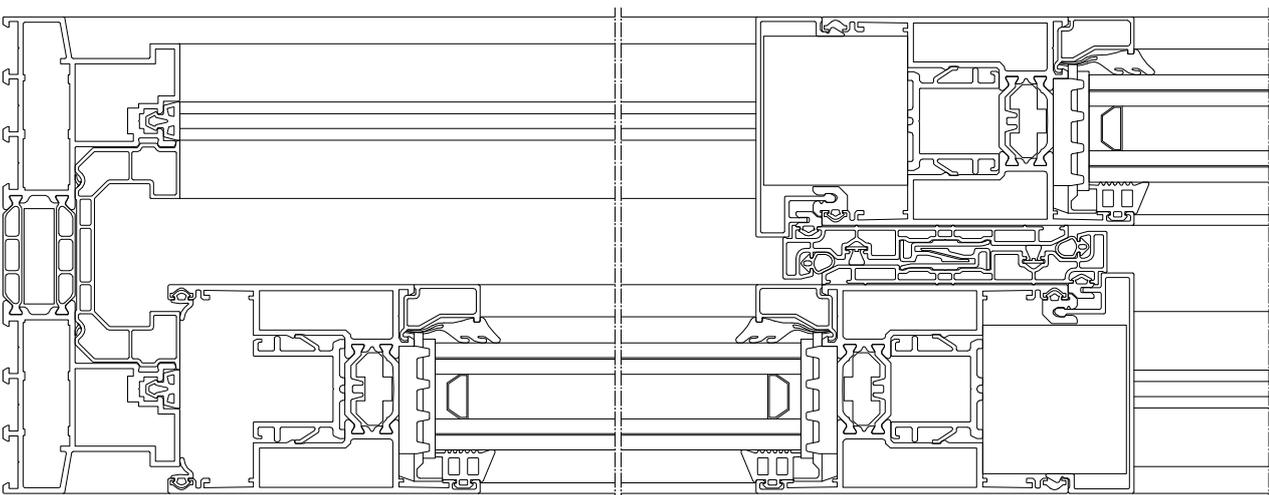
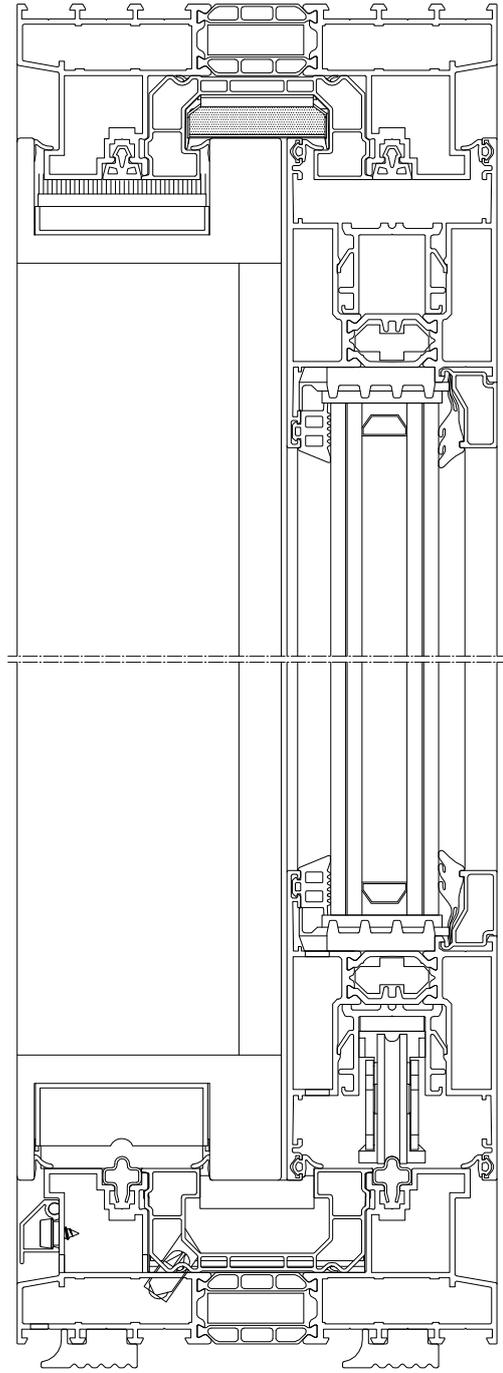
Glazing

Infill thickness sliding parts 2- and 3-rail	24 - 55 mm
Glazing method	dry glazed with EPDM gaskets or silicon

Performances

Technical approval	A/G 100802				
Thermal break	40 mm polyamides PA 6.6 GF25 (30 mm in the vent)				
Thermal insulation	SHI: U_f up to 2,09 W/m ² K			EN ISO 10077-2	
	SI: U_f up to 2,6 W/m ² K			EN ISO 10077-2	
	I: U_f up to 2,8 W/m ² K			EN ISO 10077-2	
	Basic: U_f up to 3,2 W/m ² K			EN ISO 10077-2	
	Sliding	Lift-slide	Sliding	Lift-slide	
Air permeability	4	4	600 Pa	600 Pa	EN 12207
Water tightness	8A	E1350	450 Pa	1350 Pa	EN 12208
Wind resistance	C3	C4	1200 Pa, sec. 1800 Pa	1600 Pa, sec. 2400 Pa	EN 12210

* This information is only an indication. For more information, please consult your local Sapa Building System branch.



Sapa Building System, is one of the largest suppliers of aluminium building systems in Europe and is part of the Swedish group Sapa. The core business is the development and distribution of aluminium profile systems. Sapa Building System aims for well-developed systems and project solutions offering a tangible added value to fabricators, architects, investors and home-owners.

Windows and Doors

Sliding Systems

Curtain Walls

Conservatories

Balustrades, gates and others

BIPV

Your local Sapa Building System fabricator

Sapa Building System NV

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