



Avantis 75

Windows & Doors

**Sapa Building System**



Avantis 75 is a thermally broken three-chamber window and door system, which sets the highest standards of thermal insulation and stability. Avantis 75 is the ideal solution when very high performance and quality are major requirements.



#### Advanced energy saving

- » Avantis 75 profiles have 3 chambers, coupled with 40 mm tubular shaped, glass fibre reinforced polyamide strips, which drastically reduce thermal conduction. The result is that Avantis 75 achieves a very 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 60,5 mm for frame and 70,5 mm for vent, the infill thickness can start from 4 mm.
- » Inward opening vents have a coextrusion central gasket for enhanced thermal and acoustic performance.
- » All standard shade and ventilation systems can easily be integrated in Avantis 75.
- » Avantis 75 Basic: profile combinations with value  $U_f = 1,9 \text{ W/m}^2\text{K} - 2,8 \text{ W/m}^2\text{K}$
- » Avantis 75 I: profile combinations with value  $U_f = 1,7 \text{ W/m}^2\text{K} - 2,5 \text{ W/m}^2\text{K}$
- » Avantis 75 SHI: profile combinations with value  $U_f = 0,98 \text{ W/m}^2\text{K} - 2,0 \text{ W/m}^2\text{K}$  (EN ISO 10077-2)

## Environment

- » All profiles are easily cleaned
- » Aluminium does not rust, rot or tear and the shape will not deform
- » Aluminium is a "green" product: it can be recycled infinitely without quality loss

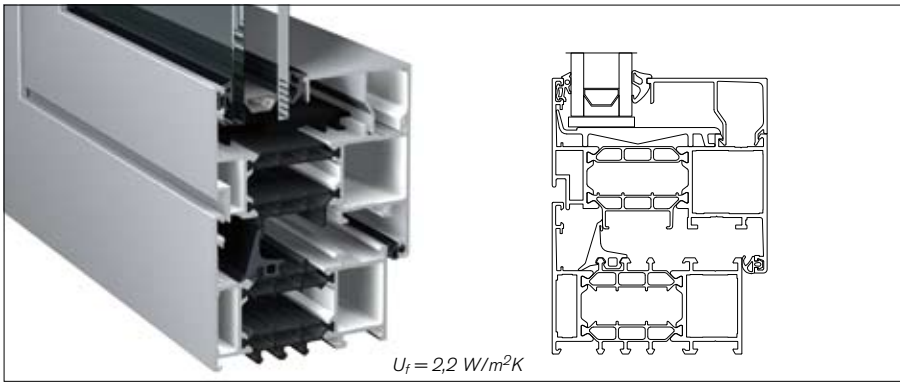
## Security

- » The combination of safety glass and special hardware such as multipoint locking ensures a high resistance against forced entry. Internal tubular glazing beads prevent unclipping from the outside.  
Resistance class ENV 1627 – 1630 class 2
- » A wide range of locking and non-locking handles are integrated in to the system.

## Design

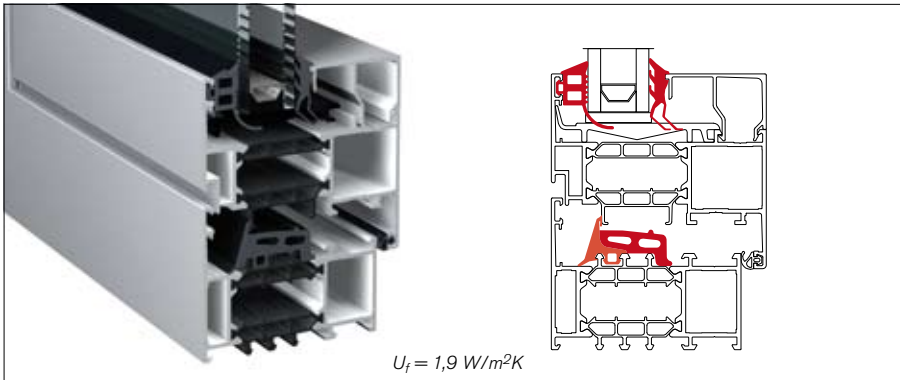
- » Avantis 75 is compatible within its profile and hardware range, as well as other Sapa Building System products such as our curtain wall and conservatory systems.
- » Hidden drainage to avoid the requirement for cover caps.
- » Doors of existing Excellence 75 SI are fully compatible.
- » A comprehensive range of supplementary finishing profiles allows the fenestration to be integrated perfectly into the building.
- » Vent, frame and transom profiles are available in a range of dimensions to meet the needs of stability and design requirements.
- » A wide choice of hinges, handles and hardware finalise your specific needs.
- » Designer glazing beads add extra finish.





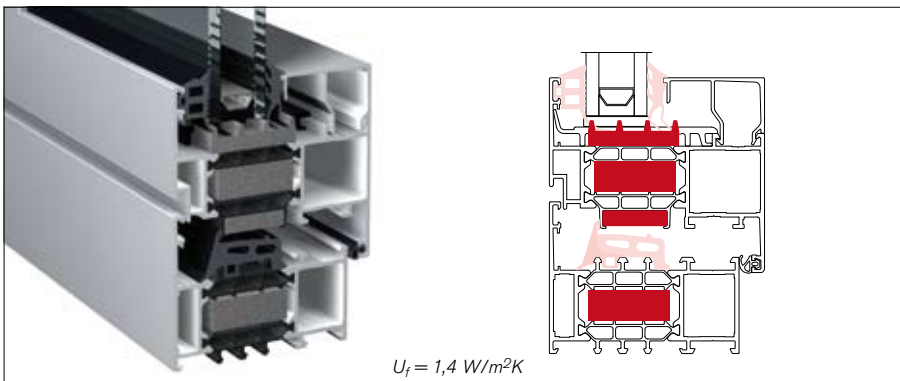
#### Avantis 75 Basic

- »  $U_f = 1,9 \text{ w/m}^2\text{K} - 2,8 \text{ W/m}^2\text{K}$



#### Avantis 75 /

- »  $U_f = 1,7 \text{ w/m}^2\text{K} - 2,5 \text{ W/m}^2\text{K}$
- » Improved thermal glazing gaskets
- » Improved thermal central gasket



#### Avantis 75 SHI

- »  $U_f = 0,98 \text{ w/m}^2\text{K} - 2,0 \text{ W/m}^2\text{K}$
- » Improved thermal glazing gaskets & central gasket
- » PE inserts in frame and vent profile
- » PE insert thermal improved rebate
- » PE insert thermal improved glazing unit

The thermal values are only an indication. For more information, please consult your local Sapa Building System branch.

## Finishes

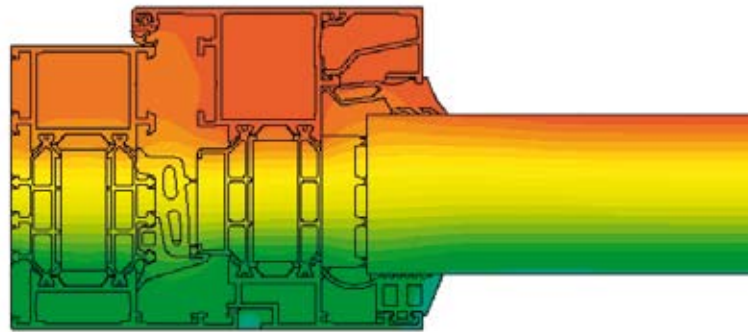
- » Over 400 powder coated paint colors in matt, gloss or satin.
- » Unique wood effect, textured and textured metallic ranges are available.
- » Anodised finish is also an option.
- » Accessories can be supplied in corresponding colors to match the profiles.
- » The polyamide thermal break allows bi-color finishes. As a result, the exterior building requirements do not infringe the interior design requests.
- » Our surface finishes meet the highest standards of Qualicoat or Qualanod.



## Performance

- » Avantis 75 includes several weather barriers by means of specially designed gaskets, a large decompression chamber and internal drainage to assure perfect weather resistance.
- » Effective water evacuation is ensured via punched drain holes.
- » Special finishing profiles provide additional building drainage.
- » Acoustic performance is greatly enhanced with multiple gaskets.

### Avantis 70 SHI



0°C

10°C

20°C









### Fabrication

- » Avantis 75 belongs to the Eurosystem range. It is complementary to other Eurosystem series and results in modularity between systems, allowing fabricators to offer maximum service without increasing stock levels.
- » The Euronut groove accommodates all standard hardware.
- » A wide range of integrated reinforced mullions and transoms, for greater stability on larger spans.
- » Four methods of connection are available.
- » Punching tools specifically designed for the Eurosystem series, ensure fast and accurate assembly.
- » Sapa Building System offers its software SapaLogic (or Orgadata, MAP), an open concept for automation, to fabricators who have a CNC machining center.

### Project support & service

- » Sapa Building System's experienced Project Team will advise you on the best product solutions.
- » We can help you with pricing, strength calculations, building connections, thermal simulations, etc..
- » Specific project solutions can be developed.
- » Samples, catalogues, technical specifications and digital drawings are available.

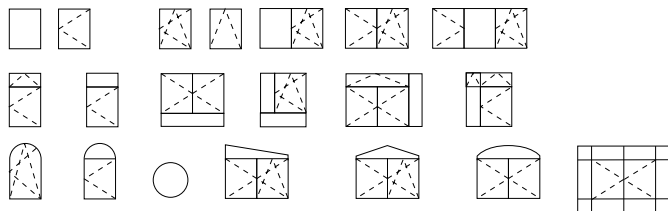


**Sapalogic** (or Orgadata, MAP) is a user-friendly calculation program for fast, efficient and complete calculation of windows, doors, structures, curtain walls and conservatories. SapaLogic is very much complete but modular still: the different versions can be adapted to your company's needs.

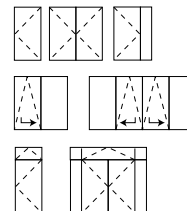
**SapaThermic** is detailed thermal simulation software for doors, windows, sliding systems and curtain walls. It can either be linked to SapaLogic or act as a stand-alone version.

## Applications

### Windows



### Doors



----- : inward opening      ——— : outward opening

## Dimensions

Min. sightline fixed frame	50 mm
Min. sightline window with inward opening vent	89 mm
Min. sightline window with outward opening vent	99 mm
Min. sightline inward opening door	129 mm
Min. sightline outward opening door	129 mm
Min. sightline transom	72 mm
Profile depth frame / Building depth	75 mm
Profile depth vent	85 mm
Max. window (width x height)	1200 x 2400 mm
Max. door (width x height)	1300 x 2400 mm

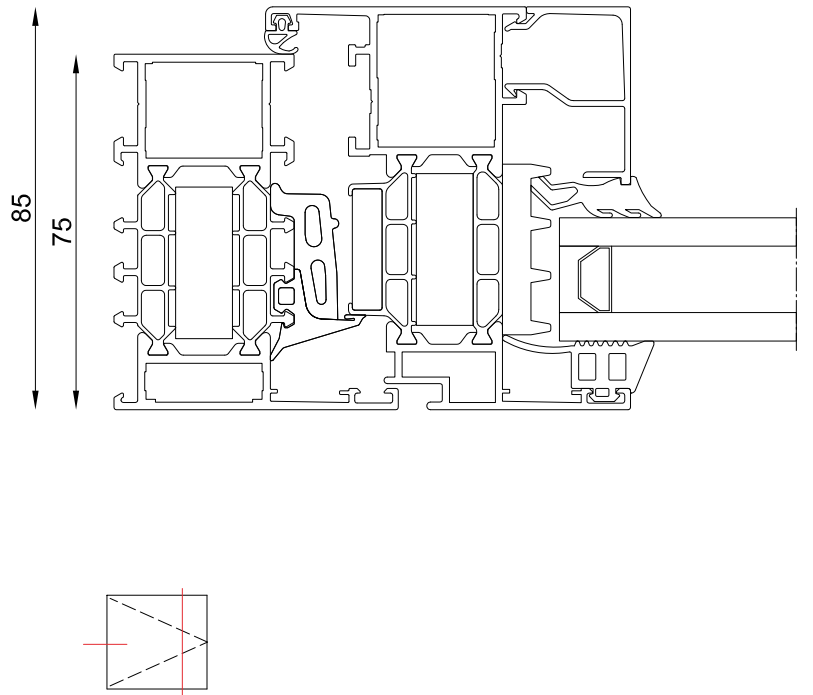
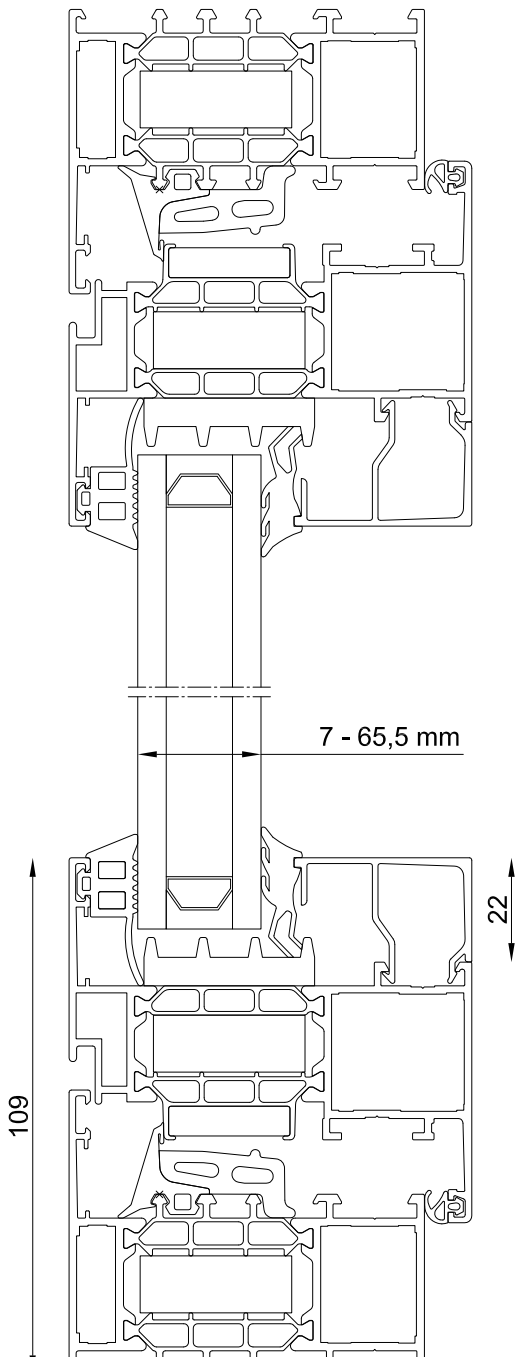
## Glazing

Rebate height	22 mm
Infill thickness fixed frame	4 - 60,5 mm
Infill thickness vent frame	10 - 70,5 mm
Glazing method	dry glazed with EPDM gaskets or silicon

## Performances

Thermal break	40 mm tubular shaped polyamides PA 6.6 GF25		
Thermal insulation	basic:	$U_f = 1,9 - 2,8 \text{ W/m}^2\text{K}$	EN ISO 10077-2
	i:	$U_f = 1,7 - 2,5 \text{ W/m}^2\text{K}$	EN ISO 10077-2
	shi:	$U_f = 0,95 - 2,0 \text{ W/m}^2\text{K}$	EN ISO 10077-2
Air permeability	4	600 Pa	EN 12207
Water tightness	9A	600 Pa	EN 12208
Wind resistance, security test	C3	1200 Pa, security 1800 Pa	EN 12210
Acoustic insulation	$R_w (C;C_{tr}) = 44 \text{ dB} (11,5\text{GH}/20(\text{SF6})/9,5\text{GH})$		EN ISO 717/1
Forced entry resistance	class 2		ENV 1627 – 1630

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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