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ARCHITECTURAL ALUMINIUM SOLUTIONS



Avantis 95 aluminium doors

The **Avantis 95 Door** is a new solution offering the benefits of enhanced insulation and bringing U values down to $0,80 \text{ W/m}^2\text{K}$ (U_w). This solution is ideal for passive and low-energy buildings.

Sapa Building System

Advanced energy saving for a sustainable environment

- » The unrivalled insulation levels are achieved by employing an intelligent insulation technology (patent-pending) incorporating a special foam, inserted into the central chamber of vent and frame
- » A special range of gaskets not only ensures the thermal insulation, but also the unsurpassed wind and water resistance of the system. In conjunction with thermal insulation, air tightness is the most critical factor in determining the energy efficiency of a window or door.
- » The increased frame depth contributes to the profiles' strength and stability, offering architects and builders the design benefits of large, expansive glass surfaces combined with strong frames, and the freedom to work with innovative, energy-efficient and sustainable designs without compromising an open aesthetic and maximising the benefits of natural daylight.

Easy to manufacture, easy to install

- » Avantis 95 is as easy to fabricate as any normal aluminium door system. No special accessories, tools or techniques are required.
- » Intelligent lock positioning: due to the smart design of the vent profile, locks are always correct positioned, obviating the need for time consuming measurements and possible errors.
- » Same machining for all lock types: all current and future locks use the same preparation of vent and frame profiles. This promotes simple production and in case of a substitution you only need to replace the lock, without additional machining.
- » Face applied hinges and butt hinges do not require counterplates so they can easily screw fixed. If you want to add a hinge after fabrication this can easily be done without having to take off the vent or deglaze the door.
- » Avantis 95 doors are an extension of the Avantis 95 product series and are a perfect companion to the Avantis 95 windows.
- » Limited number of add-on profiles to be positioned and fixed. A single finishing profile at the bottom of the door is sufficient.
- » Limited number of profiles and accessories but endless combinations.
- » Choice of Crimp, pin or eccentric cleats for corner connections.
- » Uses several components from Avantis suite.
- » CNC programming available via SapaLogic.



Dimensions

Min. sightline fixed frame	68 mm
Sightline door with inward opening vent	147 mm
Sightline transom	82 mm
Profile depth frame / Building depth	95 mm
Profile depth vent	95 mm
Max. door (width x height)	1400 x 3000 mm

Glazing

Rebate height vent	22 mm
Infill thickness	36 - 73 mm
Glazing method	dry glazed with EPDM gaskets or silicon

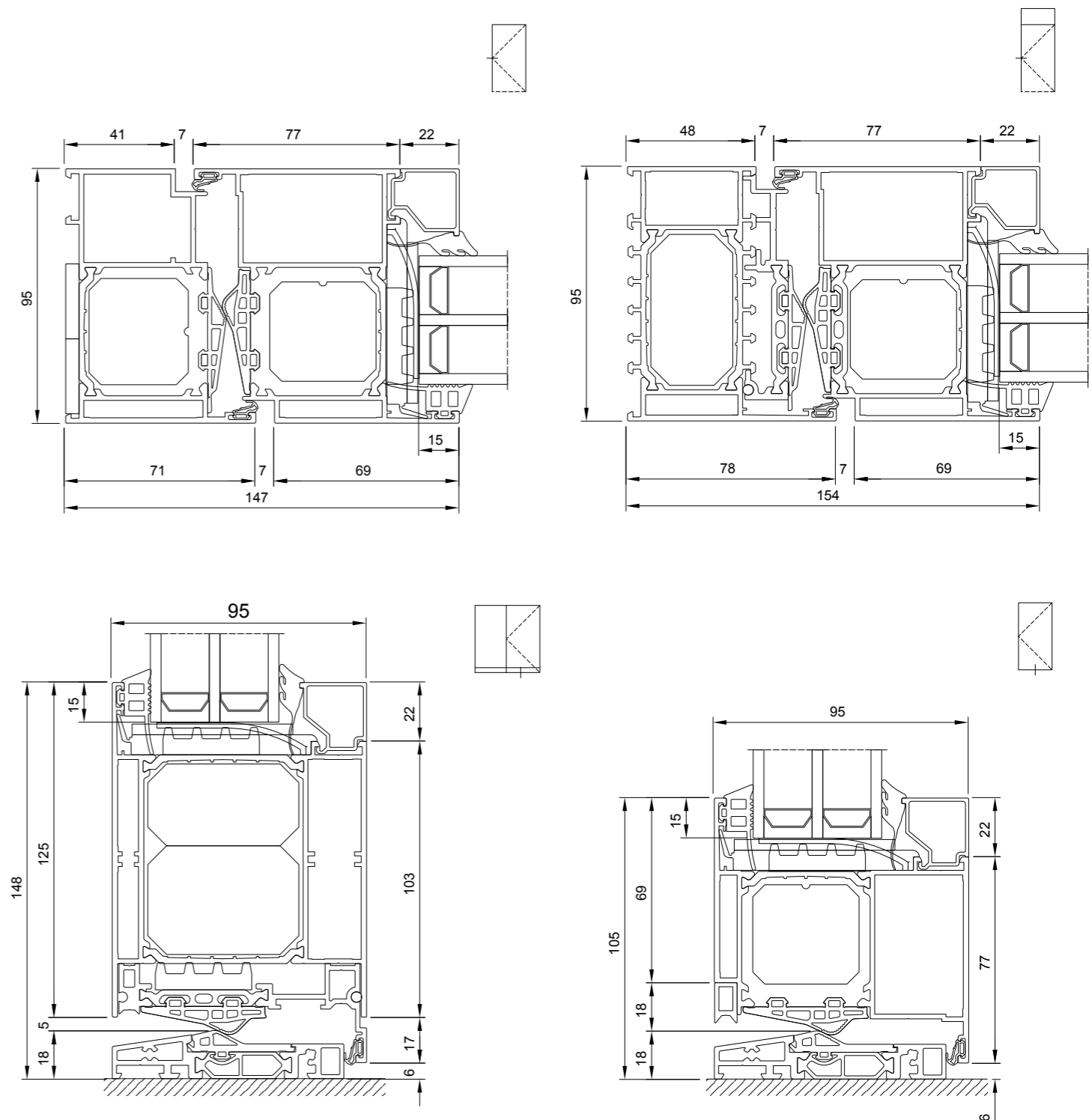
Performances

Thermal break	48 mm polyamides PA 6.6 GF25		
Door insulation;	$U_g = 0,7 \text{ W/m}^2\text{K}$	EN ISO 10077-2	
Air permeability	4	600 Pa	EN 12207
Water tightness	E 750	750 Pa	EN 12208
Wind resistance, security test	C4	1600 Pa, security 2400 Pa	EN 12210
Forced entry resistance	class 2	EN 1627 - 1630	

Economic benefits

- » Enhanced control of your stock by maximizing common components for different door types
- » Identical hinges for both inward and outward opening doors
- » Identical threshold for inwards and outwards opening doors.
- » Hinges with a wide range of adjustment allow for large tolerances when fixing.
- » Enhanced solution against distortion caused by bi-metal (thermal differential) effect.

Technical drawings



Unparalleled performance

- » Passive solution for door with panel and high thermal with glass
- » In addition to the high thermal and air tightness values, the Avantis 95 doors also perform exceptionally well in terms of water tightness. With values of 750 Pa for inward opening doors, the system is ideal for high rise buildings or those located in areas of high exposure
- » The unsurpassed air tightness will give good results in door blower or other air leakage tests and consequently on the energy performance rating of the building.
- » Standard burglar resistance to level RC 2 with multipoint locks.

Unique Sapa hardware

Hinge side options

- » Sapa Branded face fix hinges
- » Innovative Sapa branded butt hinges (patent pending)
- » Concealed hinges

Lock side

- » Sapa branded hardware
- » Automatic locks available

Handles

- » S-Line handle range with “Sapa fix” mounting mechanism
- » Sapa branded pull handles are manufactured in AISI 316, classified as marine quality stainless steel

Door closers

- » Sapa Building System door closers operate on a purely mechanical basis with gearing geometry and hydraulic damping ensuring smooth and easy opening combined with effective closing under all conditions and at all door leaf positions.
- » Sapa branded cylinders are tested to 200.000 cycles, well in excess of the EN 1303 requirement



Sapa Building System NV

Postal address Industrielaan 17, BE-8810 Lichtervelde Tel. +32 51 72 96 66 Fax +32 51 72 96 89

Postal address Industriezone Roosveld 11, BE-3400 Landen Tel. +32 11 69 03 11 Fax +32 11 83 20 04

E-mail info.be@sapagroup.com Website www.sapabuildingsystem.com

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buildingsystem

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