

Sapa Door 2086 - High insulated



The 2086 door system is a part of our Thermo 86 systems and is based on a strong and stable construction with 86mm deep profiles. These are basic insulated with 42 mm glass fibre reinforced polyamide strips and filled with specially developed insulating rods Sapa Thermo N9 for optimal energy performance. The system offers very good air and rain tightness. Door leaf profiles are available for narrow and module locks as well as with anti-finger trap. Rebate for glass and infill panels 22-56(64) mm.

This door which provides safe operation and long service life is perfectly suitable for busy public environments requiring high thermal insulation and air and rain performance.

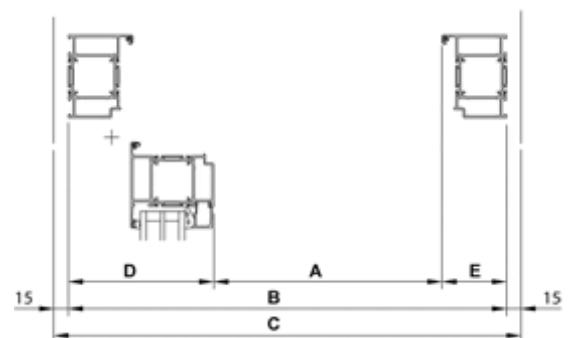
Functions and parameters

- Clear dimension

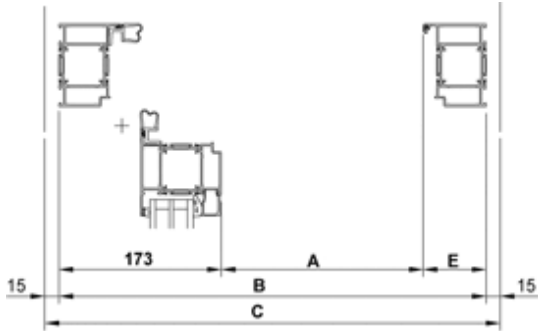
Doors and entries should be designed with enough space (clear dimension) for person traffic and to facilitate passage in a wheel chair. Applicable standards and requirements should be taken into account.

Rebate door

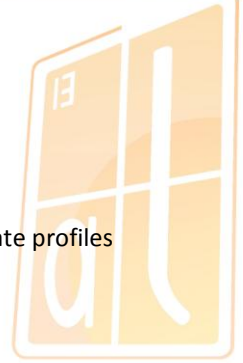
- A = Clear dimension
- B = Frame outside dimension
- C = Wall opening
- D with universal hinge = 151 mm
- D with lap but hinge= 145 mm alt 148 mm with replaceable rebate profiles
- E = 67 mm or 70 mm with replaceable rebate profiles



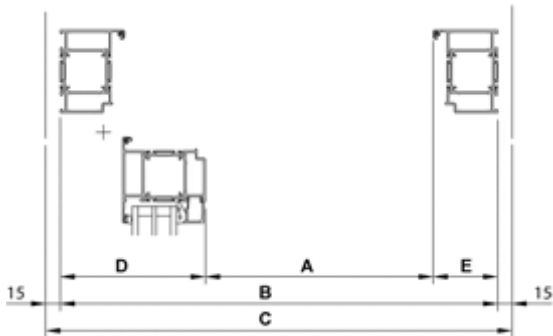
Anti-finger trap edge with a rubber strip



- A = Clear dimension
- B = Frame outside dimension
- E = 67 mm or 70 mm with replaceable rebate profiles



Rebate door with hidden hinges



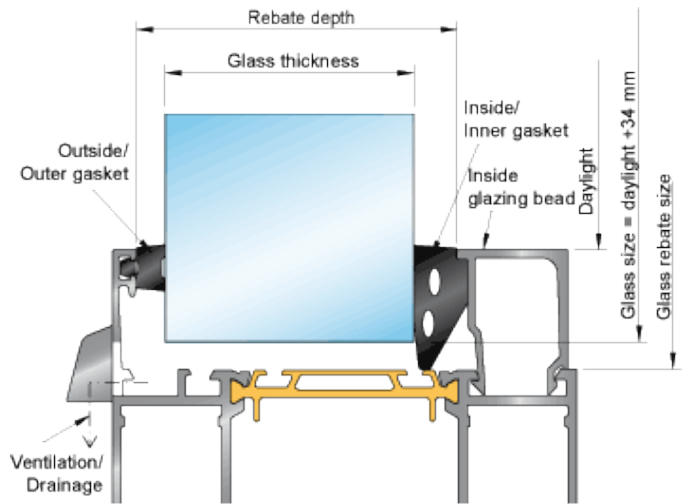
- A = Clear dimension
- B = Frame outside dimension
- D = 98,5 mm or 101,5 mm with replaceable rebate profile
- E = 67 mm or 70 mm with replaceable rebate profile

o Glazing

Unprotected glazed surfaces that can be reached by persons shall be designed so as to limit the risk of injury. Such glazed surfaces shall be dimensioned so as to withstand the dynamic influence of a person. Applicable standards and requirements should be taken into account.

Functional dimensions

Glass thickness 20-64 mm



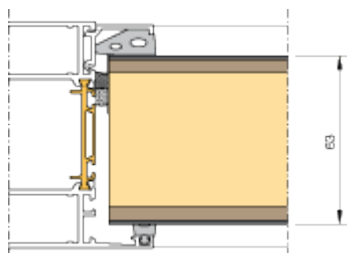
The illustration shows the different functional dimensions commonly used by the window industry and established by the MTK. The gaskets are made of EPDM rubber and are available in several versions.





o **Infill panels**

Certain parts of the elements can or must be filled with infill panels. It is important to consider the backing and the surface layer of the panels.



The example shows infill panel F2:

Infill panel F1	Infill panel F2	Infill panel F3
1,5 mm aluminium sheet 60 mm insulation 1,5 mm aluminium sheet	1,5 mm aluminium sheet 4,8 mm board 50 mm insulation 4,8 mm board 1,5 mm aluminium sheet	1,5 mm aluminium sheet 50 mm insulation 10 mm chip board 1,5 mm aluminium sheet
U-value at middle point down to 0,54 W/m ² K. For areas with little mechanical impact, such as high-level infill panels.	U-value at middle point down to 0,61 W/m ² K. For areas with moderate mechanical impact, such as low-level infill panels	U-value at middle point down to 0,61 W/m ² K. For areas with high mechanical impact from outside.

o **Fittings**

SAPA door system can be easily equipped with the most common fittings available on the market. For optimum functionality it is important that the fittings work together.

Hinges, examples



Universal hinge



Lap butt hinge



Hidden hinge



Pull handles



D pull handle
with hidden mounting
harmonises with the door
leaf.
Height 300 mm, Ø 30 mm.
Art. no.: Sapa 14 128



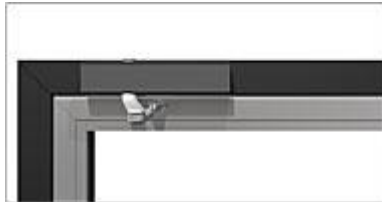
Triangular pull handle
with hidden mounting
harmonises with the door
leaf.
Height 300 mm, Ø 30 mm.
Art. no.: Sapa 14 129



Semi-circular pull handle
with hidden mounting
harmonises with the door
leaf.
Height 300 mm, Ø 30 mm.
Art. no.: Sapa 14 130



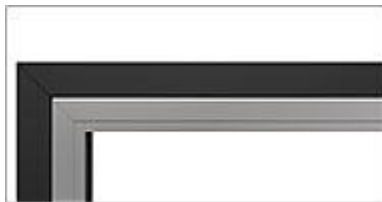
Door closing devices



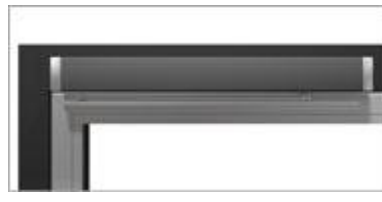
Door closure with arm.
According to supplier.



Sliding rail door closure.
According to supplier.

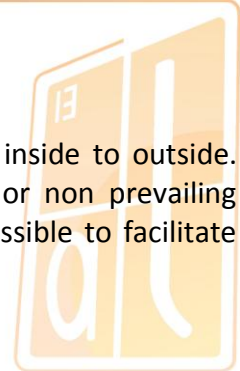


Built-in door closure.
According to supplier.



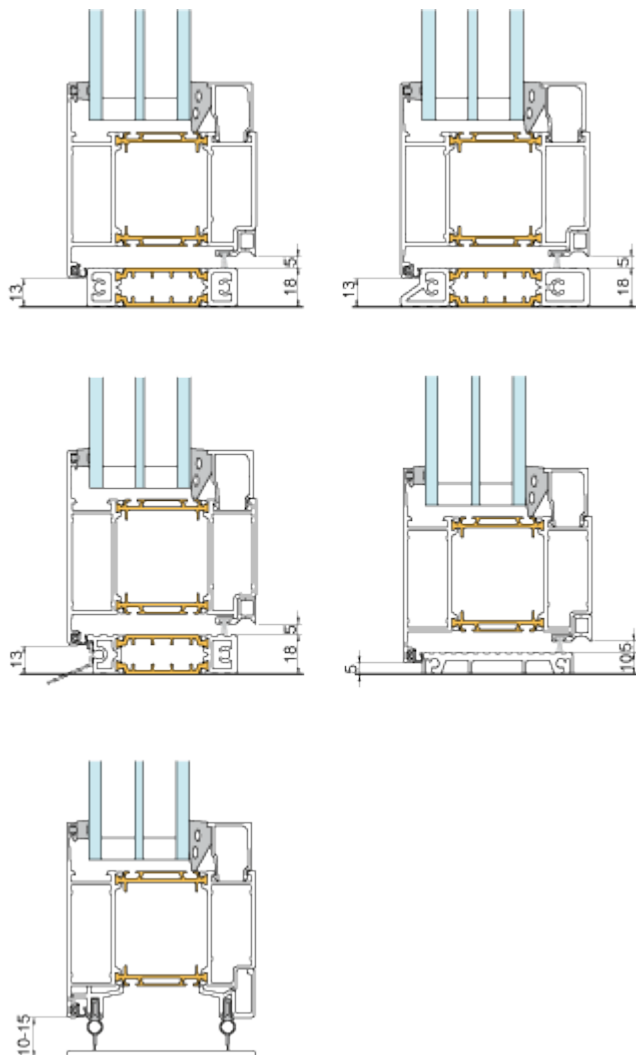
Automatic door closure.
According to supplier.





o **Threshold alternatives**

Door openings should be designed without level differences from inside to outside. Sometimes a threshold is not required because of, for example, moisture or non prevailing weather conditions. When a threshold is installed, it should be as low as possible to facilitate passage. Applicable standards and requirements should be taken into account.

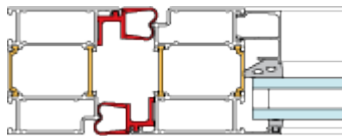




o **Anti-finger trap protection**

In order to reduce the risk of injury due to squeezing, we have developed a solution based on a so-called anti-finger trap edge. Applicable standards and requirements should be taken into account.

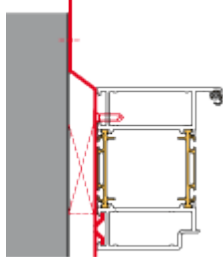
Door system 2074 with anti-finger trap edge with EPDM rubber strips.



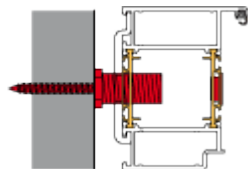
o **Fixing principles**

Door elements must be fixed to a stable and suitable wall structure. The choice of fixing method depends on the wall type. The number and location of fixing points depends on the size of the element.

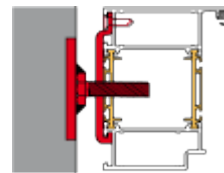
Examples:



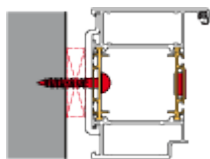
Fixing of frame with twist anchor



Fixing of frame with adjustable frame bushing



Fixing of frame with bolt and welded plate



Fixing of frame with screw

For more information please contact „Al Construction“ Manager-Constructor Support!

