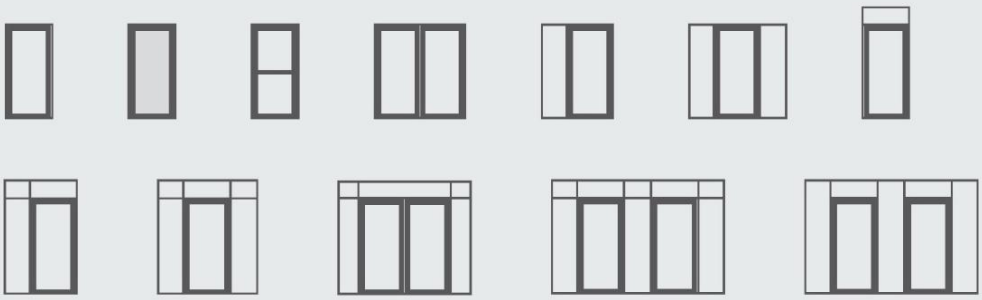
Sapa Door 2050

This door system is based on uninsulated aluminium profiles with a profile depth of 50 mm. The outside glazing bead is integrated in the door profile for asymmetrically installed glazing units. The door leaf profiles are available for all types of locks and with anti-finger trap edge. The doors can be easily combined with our glazed wall and partition system 3050.

- **Versions**. Single-leaf, double-leaf, meeting, folding and sliding doors with or without side and top light.
- **Fire protection**. Available in fire resistance class E 30.
- **Personal safety**. Available with anti-finger trap edge.

Combination possibilities



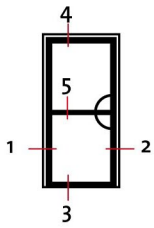
Design, *door leaf profiles with glazing beads for symmetrically installed glazing unit*

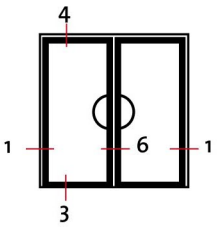
L-shaped glazing bead

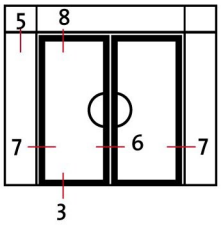
Bevelled glazing bead

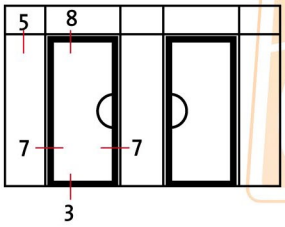
Rectangular glazing bead

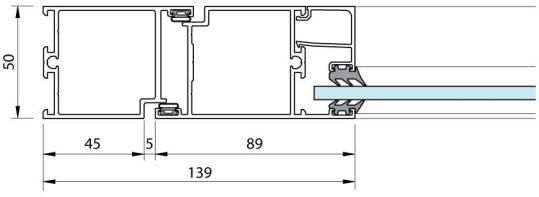
Principle details 2050 system



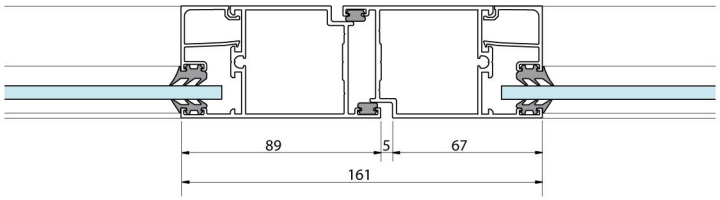




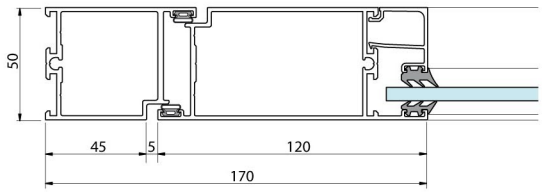




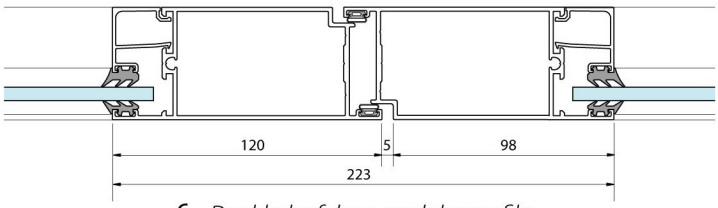
1, 2 - *Door with narrow profile*



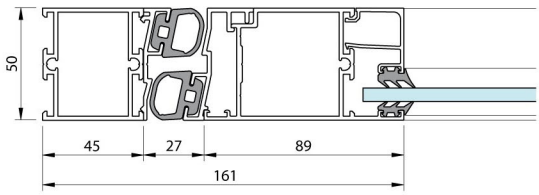
6 - *Double-leaf door, narrow profile*



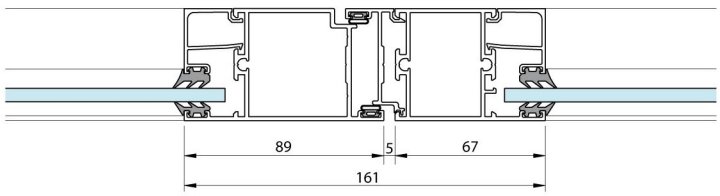
1, 2 - *Door with modular profile*



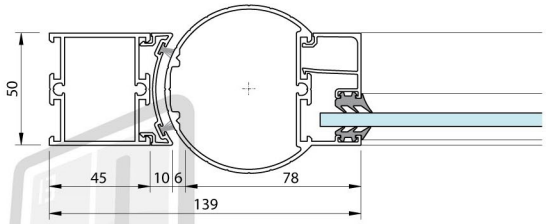
6 - *Double-leaf door, modular profile*



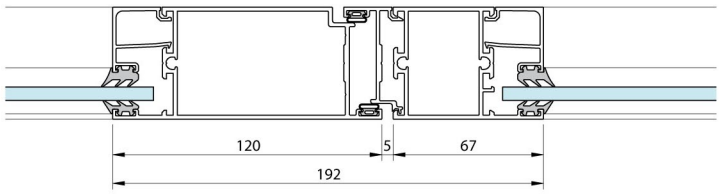
1 - *Door with anti-finger trap, rubber strips*



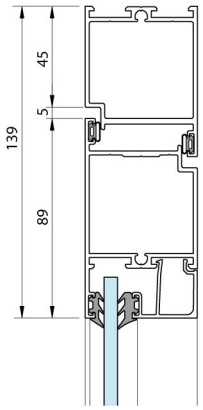
7 - *Door with narrow profile and side light*



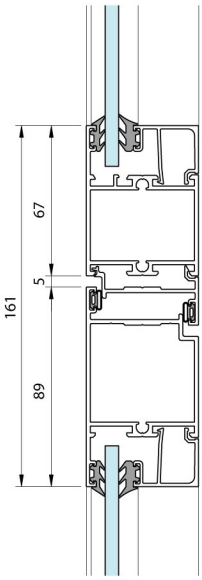
1 - *Door with anti-finger trap, rounded aluminium profile*



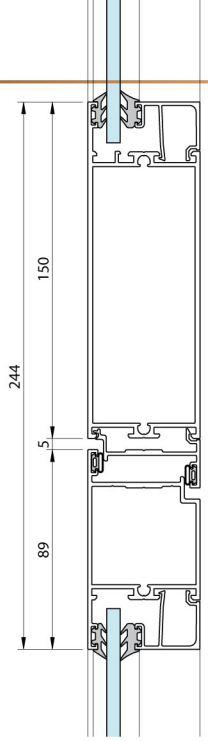
7 - *Door with modular profile and side light*



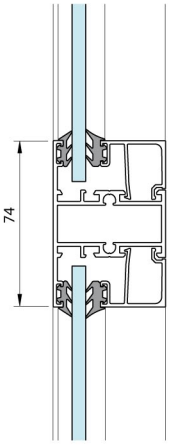
4 - *Top edge of door with frame*



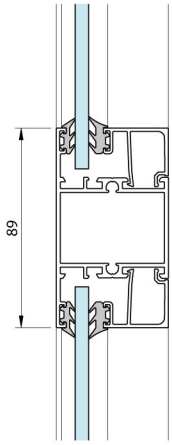
8 - *Top edge of door with top light*



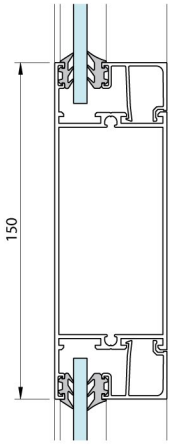
8 - *Top edge of door with top light and profile for large automatic closing/**opening device***



5 - *Cross-bar*



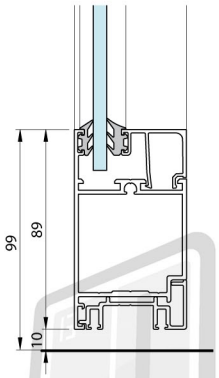
5 - *Cross-bar*



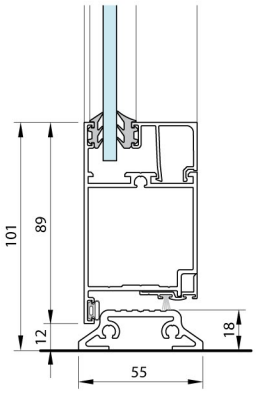
5 - *Cross-bar*

- Clear dimension
- Fixing alternatives
- Glass thickness
- Infill panels

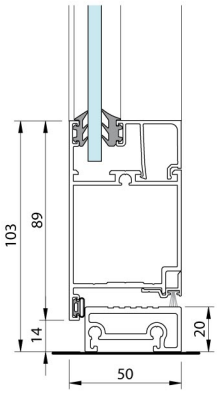
See next page.



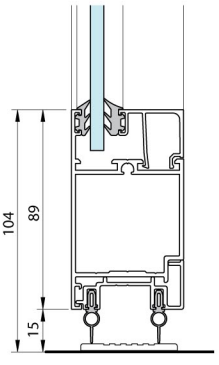
3 - *Door without threshold*



3 - *Door with rebate seal against bevelled threshold*



3 - *Door with rebate seal against threshold*

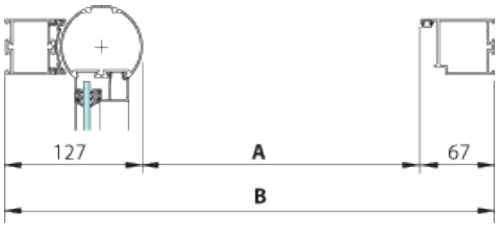


6 - *Door with strip seal*

- **Clear dimension**

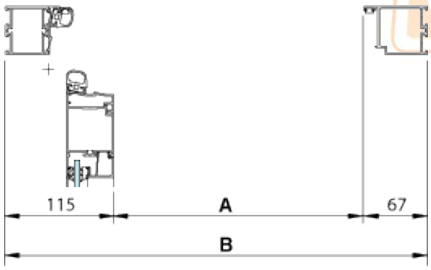
Doors and entries should be designed with enough space (clear dimension) for person traffic and to facilitate passage in a wheel chair. Applicable standards and requirements should be taken into account.

Rounded anti-finger trap edge



A = Clear dimension
B = Frame outside dimension

Anti-finger trap with a rubber strip



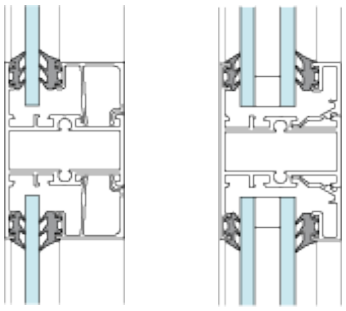
- **Glazing**

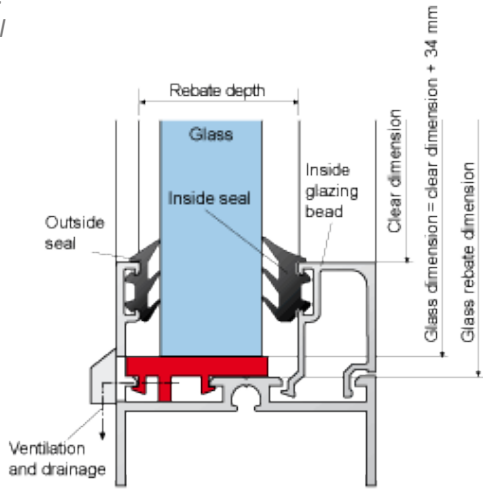
Unprotected glazed surfaces that can be reached by persons shall be designed so as to limit the risk of injury. Such glazed surfaces shall be dimensioned so as to withstand the dynamic influence of a person. Applicable standards and requirements should be taken into account.

Functional dimensions
Glass thickness 3-33 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.

Glazing
Glass thickness 3-33 mm



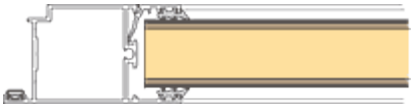


- **Infill panels**

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. If the infill panels are exposed to heavy impacts or mechanical loads, the backing should be made of durable board and the surface layer should be made of stainless or glass enamelled steel sheet.

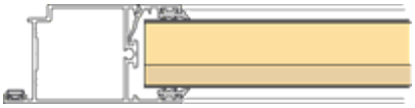
Infill panel F2

1,5 mm Aluminium sheet
3,2 mm Board
25 mm Insulation
3,2 mm Board
1,5 mm Aluminium sheet



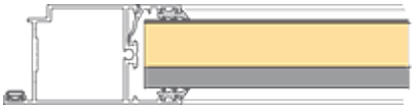
Infill panel F3

1,5 mm Aluminium sheet
12 mm Chipboard
20 mm Insulation
1,5 mm Aluminium



Infill panel F4

1,5 mm Aluminium sheet
20 mm Insulation
10 mm Sapa boarding



- **Fittings**

Our 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.

Standard fittings are shown below.

Hinges

Universal hinge

Lap butt 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

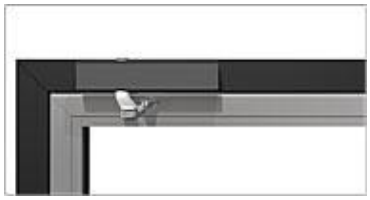
Triangular pull handle
with hidden mounting harmonises with the door leaf.
Height 300 mm, Ø 30 mm.
Art. no.: Sapa 14 129

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

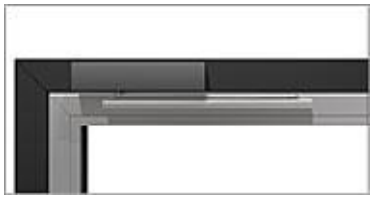
Handles

Handle for modular profile door.
Width 137 mm,
Ø 21 mm.
Art. no.: Sapa 14 132

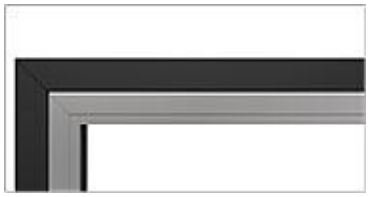
Door closing devices



Door closure with arm.
According to supplier.



Sliding rail door closure.
According to supplier.

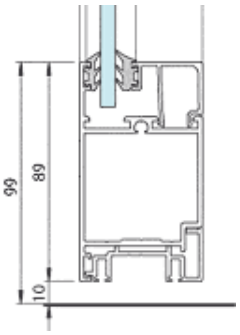


Built-in door closure.
According to supplier.

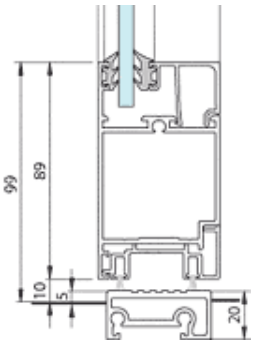
Automatic door closure.
According to supplier.

- **Threshold alternatives**

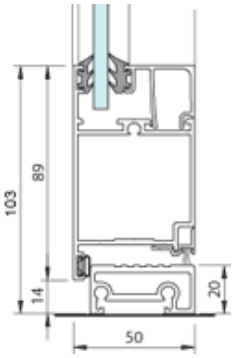
Door openings should be designed without level differences from inside to outside. Sometimes a threshold is not required because of, for example, moisture or non prevailing weather conditions. When a threshold is installed, it should be as low as possible to facilitate passage. Applicable standards and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



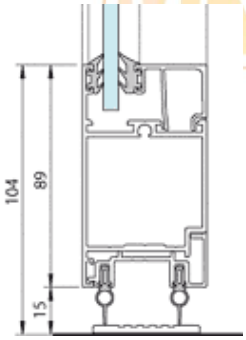
Door without threshold



Door with embedded threshold



Door with rebate seal against threshold



Door with strip seal

- **Anti-finger trap protection**

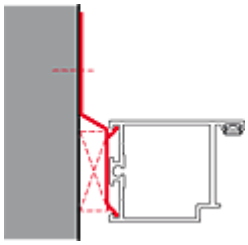
In order to reduce the risk of injury due to squeezing, we have developed a solution based on a socalled anti-finger trap edge. Applicable standards and requirements should be taken into account.

Door system 2050 with anti-finger trap edge with EPDM rubber strips.

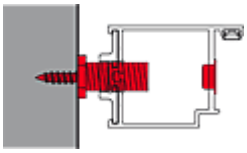
- **Fixing principles**

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.

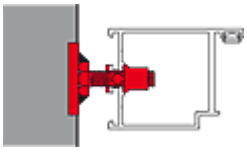
Exemples:



Fixing of frame with **twist anchor**



Fixing of frame with **adjustable frame bushing**



Fixing of frame with bolt and **welded plate**

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