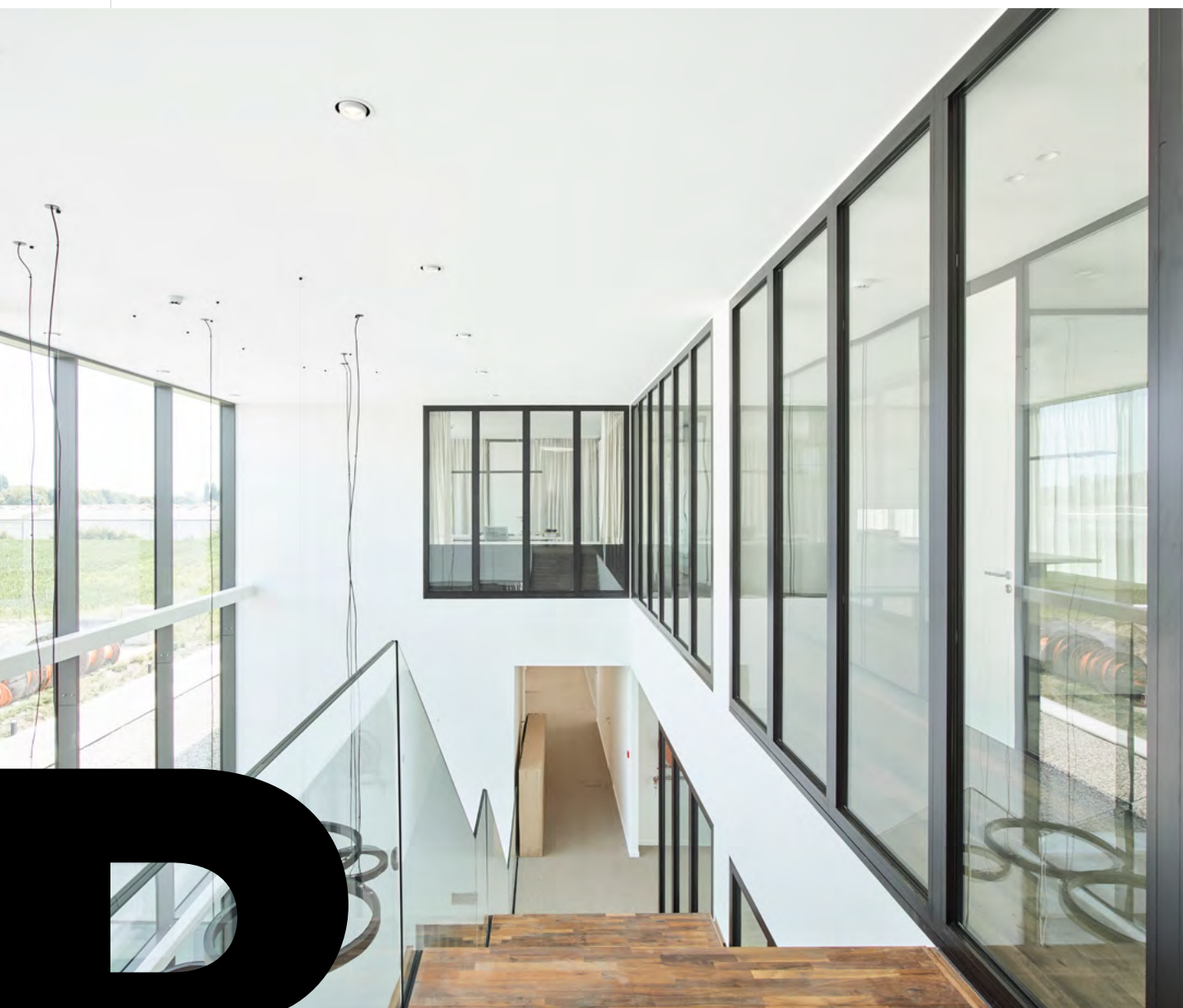




# BEDDELEEM

SYSTEM DESCRIPTION V1901



— JB FIREGLASS





# B

## — JB FIREGLASS

JB FIREGLASS, your partner in the event of fire.

Choose safety in style, choose a fire-resistant, smoke-tight glazed partition for all your compartmentation, choose JB FIREGLASS.

Opting for JB FIREGLASS preserves the open aspect of your building. Thanks to the transparent modules, constructions using this system make the interior of a building look larger. At the same time the system ensures safety, because the compartmentation of the building can be organised and appropriate escape routes for evacuation are guaranteed.

You have a choice of three types for demarcating fire safety zones and evacuation routes. For the walls, you can choose between EI30, EI60 and EI120. For the doors you have a choice between EI130 and EI160.

The constructions in this publication have been successfully tested and the reports obtained have been incorporated in the Benor / ATG.

**BEDDELEEM**





## Glass partition EI30 — EI60 — EI120

In accordance with the construction regulations with which buildings must comply, fire-resistant doors and windows must be designed and installed in such a way that, in the event of fire:

- they prevent the fire from developing;
- they prevent the fire and smoke in the building from spreading to other areas and zones;
- they prevent the fire from spreading to adjacent objects;
- they make it possible to evacuate users by limiting heat radiation;
- they ensure the safety and simplify the activities of rescue teams.

The required fire resistance classes of the partition walls are set out in the current regulations in each country. In Belgium, these are EI30, EI60 or EI120.

JB FIREGLASS has been developed as a partition wall with a single or double door with fire resistance class EI30 or EI60 in accordance with the EN 13501-2:2010 standard.

The construction of the JB FIREGLASS system is based on thermally insulated aluminium profiles 78 or 118 mm wide, with a durable powder coating. They are characterised by a low thermal transmittance value (U).

Special insulation elements ensure that the construction resists high temperatures. These are placed in the profile cavities and in the insulation spaces between the profiles.

The inserts are 16 to 47 mm thick, depending on the specifications. The inserts may consist of diverse types of fire-resistant glass panels. Composite opaque elements with the required fire resistance can also be used. The system can also be used for creating smoke-proof structures (Sm).

Tests and calculations have demonstrated that products made with this system provide exceptional heat and sound insulation. The permitted dimensions of the constructions allow for the installation of fixed partition walls with a height of 4 metres and hinged doors with leaves up to 1.43 x 3 m, depending on the configuration.

Technical information	
Depth of the wall and door frame	EI30 - EI60: 78 mm, EI120: 118 mm
Glazing range	16 - 47 mm
Technical parameters	
Air permeability	Classe 2, PN-EN 12207:2001
Watertightness	Classe 5A, PN-EN 12208:2001
Fire resistance	Classes EI30/EI60/EI120 i.a.w. EN 13501-2
Heat insulation (coeff, U <sub>total</sub> )	of 5,0 - 1,4 W/(m²K)
Sound insulation (Coeff, R <sub>w</sub> )	up to 41 dB



# Unite

# &

# combine—

01 —

FRAME EI30 - EI60 - EI120



The FRAME model has a classic appearance due to its sleek aluminium surround. Thanks to its construction method, the system is able to cope faultlessly with building tolerances.



02 —

CLEAR EI30 - EI60



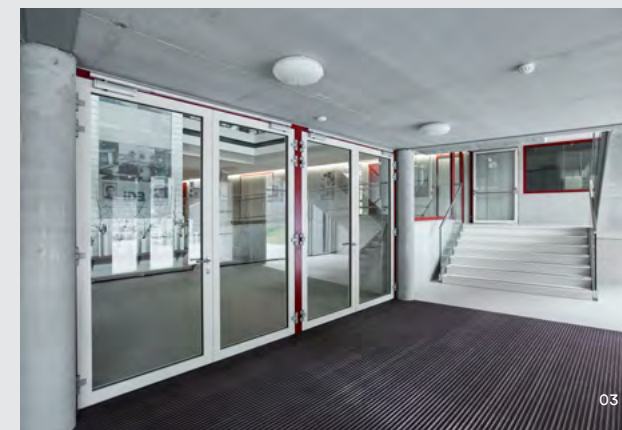
As well as the classic look provided by FRAME, transparency is now an essential aspect of contemporary office design. With the CLEAR model you can now bring transparency to the compartmentation walls.

The seam between the glass plates is only 4 mm wide and is finished with silicones. The silicones are available in three colours: black, grey and white. These fire-resistant partition walls can be up to 3 m high. The modules can be a maximum of 1.5 m wide.

For a more industrial look, the joints between two glass panels can be accentuated. A black material can be applied between the layers of the glass, resulting in smart black joints.

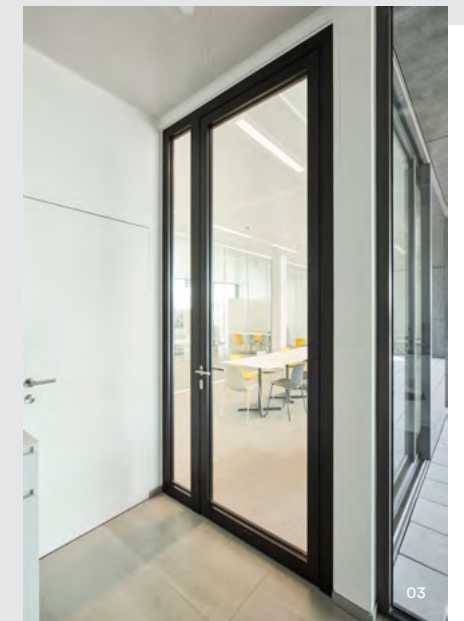
03 —

DOOR EI30 - EI60



JB FIREGLASS glazed system doors can be used either independently or in frames of larger glazed wall constructions. Constructions of this type with single and double doors have been successfully tested in approved laboratories and comply with fire resistance class EI30 or EI60.

The benefits range from extensive construction options to a wide choice of hinges, locks, door closers and other fittings. There is a solution for every design.





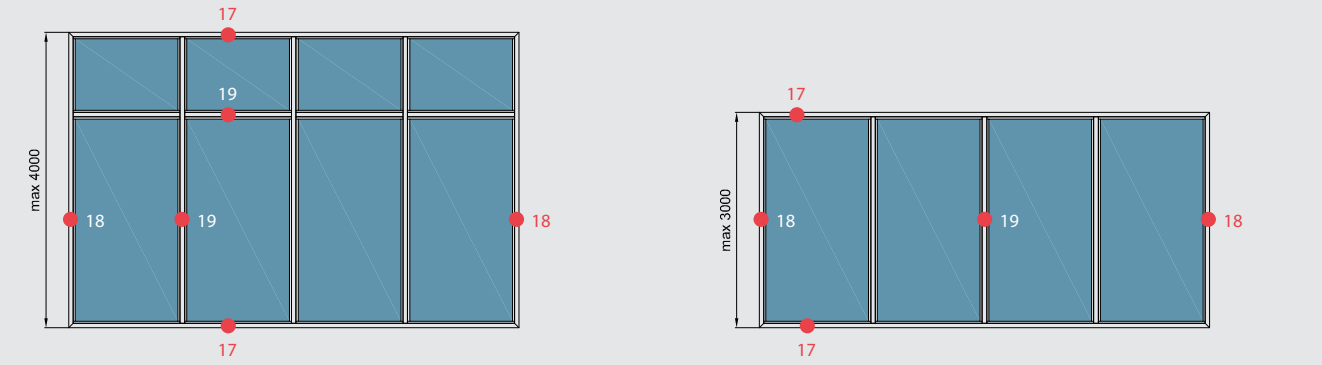
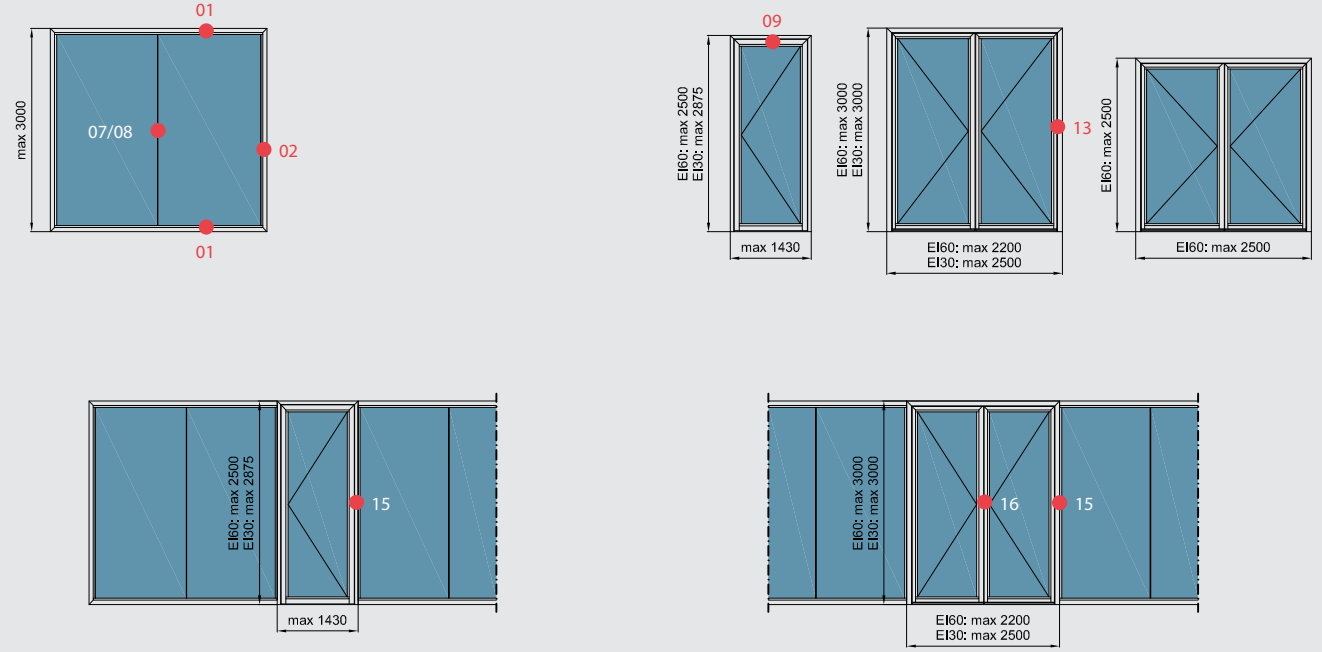
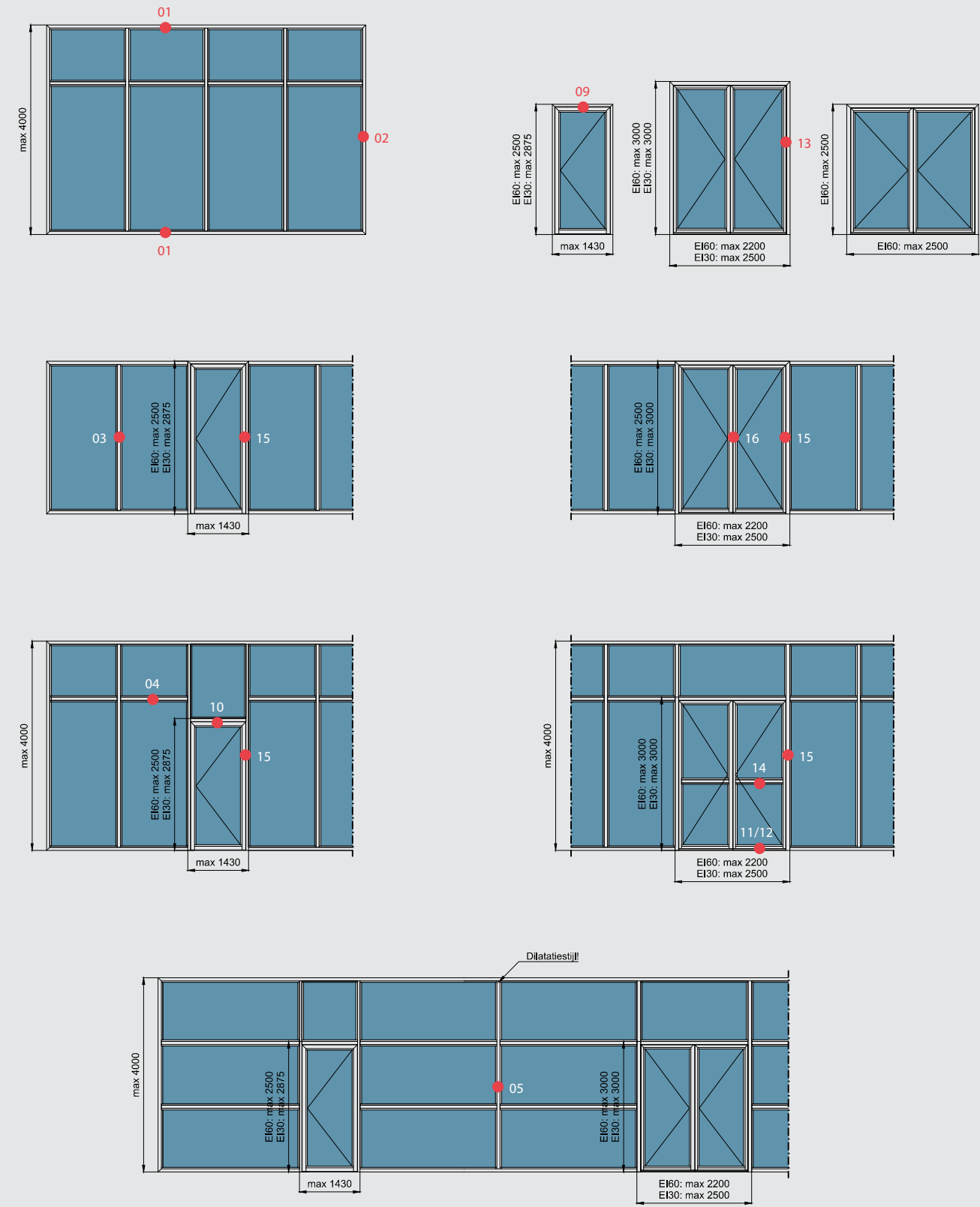
**B**

**Simplicity  
is about  
subtracting  
the obvious  
and adding the  
meaningful**

John Maeda





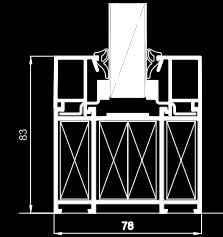




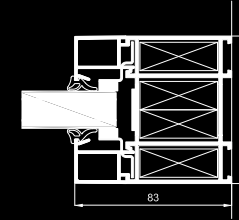
# JB FIREGLASS

## technical details

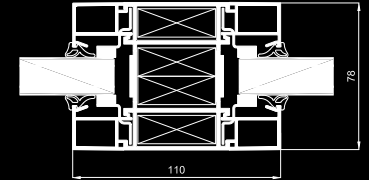
TECHNICAL DETAILS - EI30 & EI60



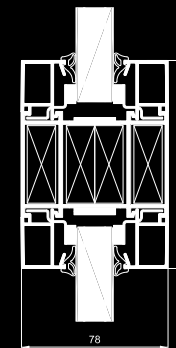
01.  
Glazed partition  
Vertical cross-section



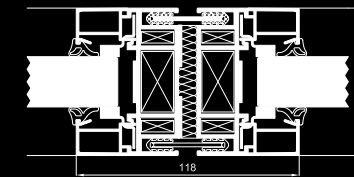
02.  
Glazed partition - wall connection  
Horizontal cross-section



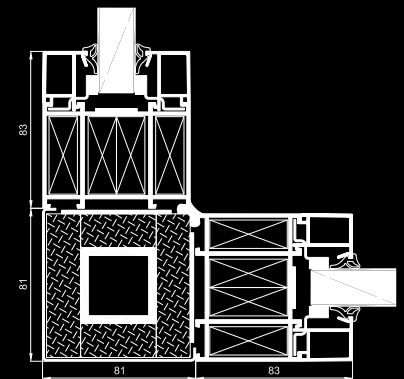
03.  
FRAME glazed partition joint  
Horizontal cross-section



04.  
Glazed partition joint  
Vertical cross-section



05.  
Glazed partition expansion fitting  
Horizontal cross-section



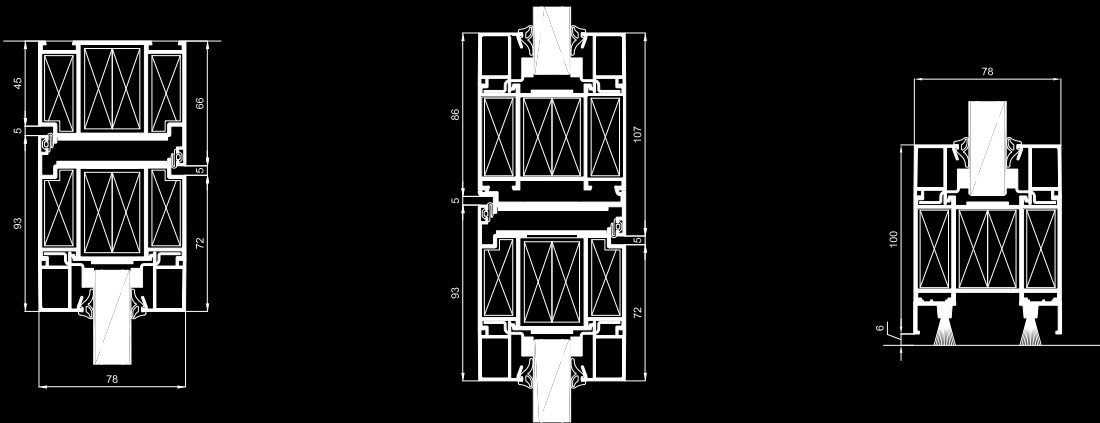
06.  
Glazed partition 90° corner  
Horizontal cross-section



07.  
CLEAR glazed partition joint  
Horizontal cross-section



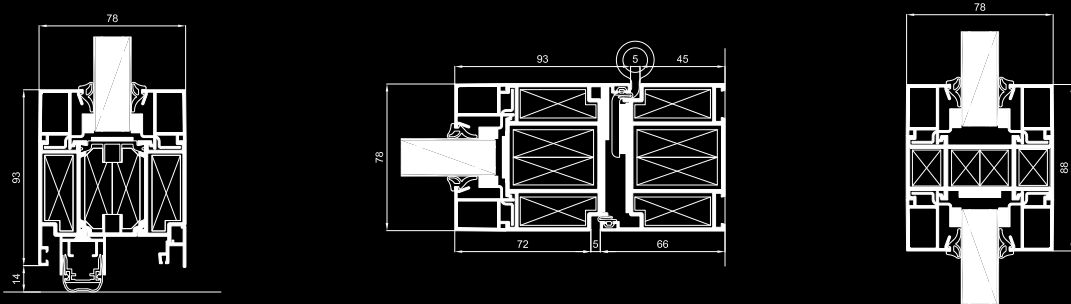
08.  
CLEAR glazed partition accentuated joint  
Horizontal cross-section



09. Door assembly  
Vertical cross-section, top

10. Door assembly - upper panel  
Vertical cross-section

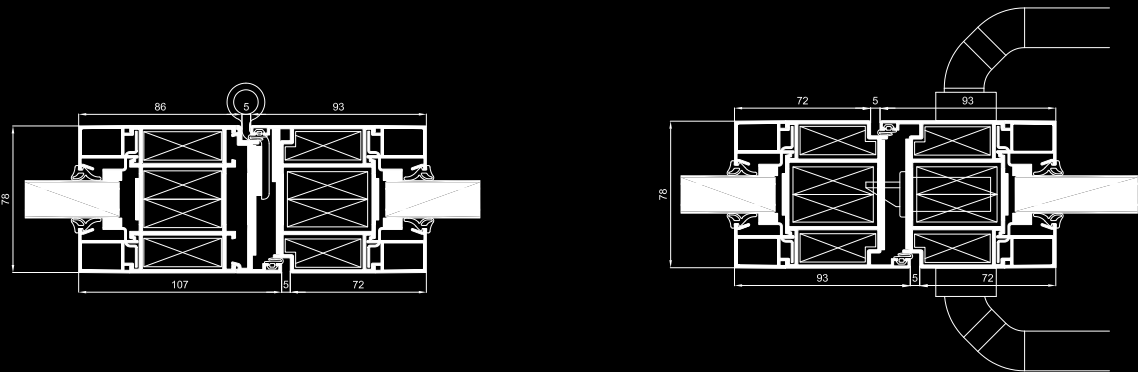
11. Door assembly - brush  
Vertical cross-section, bottom



12. Door assembly - drop seal  
Vertical cross-section, bottom

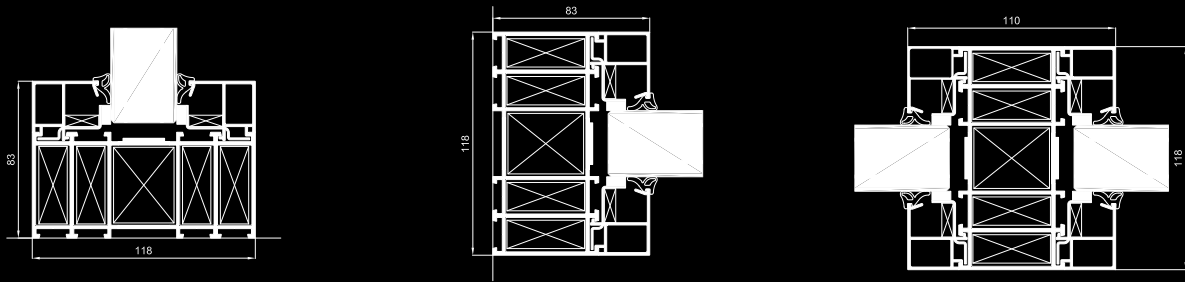
13. Door assembly - wall connection  
Horizontal cross-section

14. Door assembly - double  
Vertical cross-section



15. Door assembly - side light  
Horizontal cross-section

16. Door assembly - double leaves  
Horizontal cross-section



17. Glazed partition FRAME  
Vertical cross-section

18. Glazed partition FRAME - wall connection  
Horizontal cross-section

19. FRAME glazed partition joint  
Horizontal cross-section



# BEDDELEEM

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