



MOST VERSALITE ALUMINIUM SLIDING SYSTEM

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The DP 180 system intended for the construction of large dimensions overhead sliding doors is a leading solution on the Polish market. Thanks to its functionalities and well-thought structure, it can meet requirements of clients in a comprehensive way, as regards expected structural schemes, technical parameters, or maximum size of the structure.

Structural possibilities of the DP 180:

- ▶ Monorail solution is a popular frame with the so called "fixed part", which improves transparency, reduces costs of the structure, and allows for fixed glazing from the outside, which significantly improves and makes the assembly faster.
- ▶ A double-rail frame has a unique structure of three lines of thermal separators, ensuring a perfect thermal insulation on the circumference of the structure.
- ▶ Three-rail, four-rail, or five-rail frames are based on the same shapes as double-trail frames.



COMFORT AND FUNCTIONALITY

- ▶ The possibility of constructing corners opening at 90° and all-glass corners connected at any angle while maintaining a slim and narrow connection.
- ▶ Automation of the DP180 door opening is available using surface automatic system or an automation system hidden in the frame
- ▶ Easy and smooth operation of door in manual version thanks to sliding (flocked) gaskets and additional accessories of renown fittings manufacturers, which facilitate sliding of even heaviest leaves.
- ▶ The possibility of integrating the door with an intelligent house system.
- ▶ The solution is compatible with a linear drainage system allowing you to efficiently drain rainwater and condensate from the inside of the structure.
- ▶ A unique solution of a low threshold allowing for a thresholdless structure without hollows or structural gaps. It ensures comfort and safety for older people, disabled, and small children.
- ▶ Elimination of the issue of door leaf bending due to temperature differences between the inside and the outside thanks to the use of divided thermal separators.

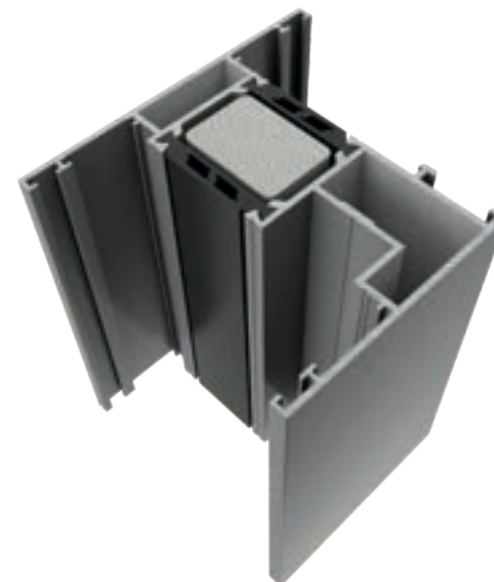


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DP 180 SLIM VERSION

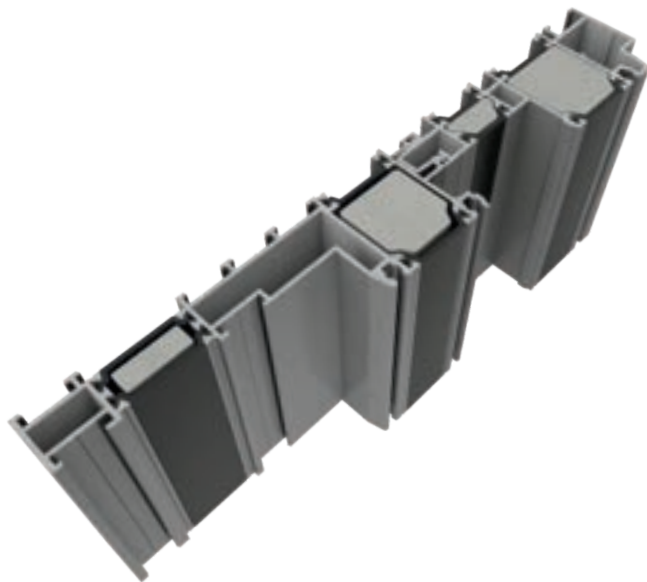
The new DP 180 door leaf profile in the SLIM version. This new leaf offers an intermediate solution between the wide standard leaf and the "narrow mullion" option. The new profile reduces the visible width of the aluminum profiles at the meeting point of sliding door leaves from 125 mm in the previous standard to 92 mm. Of course, the "narrow mullion" solution remains unbeatable in this aspect, offering only 47 mm of visible aluminum. However, the new door leaf profile further enhances the transparency of the entire structure, ensuring elegance and a sleek appearance.



NEW SOLUTION FOR SCHEME G

Scheme G is an increasingly popular design based on a two-track frame, where the two outer leaves are fixed panels positioned on the outer track, while the central leaf is a sliding panel operating on the inner track. YAWAL introduces two new solutions. The existing system has been enhanced with an aesthetic handle, solving the issue of opening such constructions from the outside. The second variant, even more visually appealing, features a profile design at the meeting point of the leaves that ensures a uniform and seamless appearance. This allows for a visible aluminum profile width identical to that of the "narrow mullion" – just 47 mm.





NEW SOLUTION FOR SCHEME C

This scheme has also benefited from a new approach. The wide central section has been redesigned by eliminating the movable mullion profile, significantly improving the transparency of the entire structure. This innovation not only enhances the sealing of the sliding door system in this critical area but also helps reduce the overall cost of the construction.

NEW MONORAIL FRAME VERSION

This is one of the most popular solutions within the DP 180 system. It combines the sliding part of the structure with a window section designed for mounting a fixed panel, all within a single profile. This solution facilitates the installation of even very large insulated glass panes from the outside, eliminating the need to bring them inside the room. The new profile expands the applications of the MONORAIL frame. Previously, this structure allowed for designs based on schemes A, C, and G. Now, the new profile enables the construction of a system with up to six panels, where the four central ones slide open, creating an open space up to 12 meters wide. The two fixed outer panels, installed from the outside, function as window sections that enhance the overall transparency of the structure.

ASYMMETRICAL CORNERS

Asymmetrical corners enable system-based connections between two-track frames and single-track frames, as well as three-track frames with two-track frames, etc., at a 90° angle. This solution optimizes installation depth, allowing wide multi-track structures to be used only where necessary for structural reasons. The remaining parts of the frame, such as those used for mounting fixed panels, are precisely adjusted in depth to meet installation requirements.



DP 180 GLASS

A very effective solution which allows us to eliminate the visibility of aluminium elements from the outside of the structure. The GLASS version also allows the sliding door frames to be completely hidden in the floor, ceiling, and insulation layers.



DP 180 GALANDAGE

A popular and very spectacular solution of the pocket door. DP180 GALENDAGE allows for "hiding" movable leaves in specially prepared for this purpose slots. Yawal, as one of the first system providers, offers the GALENDAGE type solution for a single frame. As a result, a unique visual effect of an open wall is obtained.





SMOOTH TRANSITION INTO FAÇADE

The DP 180 system allows for connection with other Yawal's structures at any angle maintaining slim and narrow connection. A new option for 2021 is the smooth transition of the door into a mullion-transom façade based on FA 50N and FA 50N SL maintaining visual similarity.

MASKING CLIPS FOR THE ASSEMBLY OF THE MOSQUITO NET

Huge sliding glazing needs protection from insects. Usually, the assembly of a mosquito net is to the detriment of transparency or a thresholdless structure. The new masking clips in the monorail frame are designed to fit the popular folding mosquito nets on the market. The way they are mounted means that the additional elements do not obstruct the passage, nor do they form a dangerous barrier at the threshold level.

NARROW MULLION

The solution supports current architectonic trend to use smooth and possible narrow aluminium profiles. Its visible part is only 47 mm. It is one of the best values available on the market. Moreover, leaf sealing elements are hidden under an elegant masking clip. Yawal is the only system provider on the market to offer the solution in the anti-burglary class RC2.

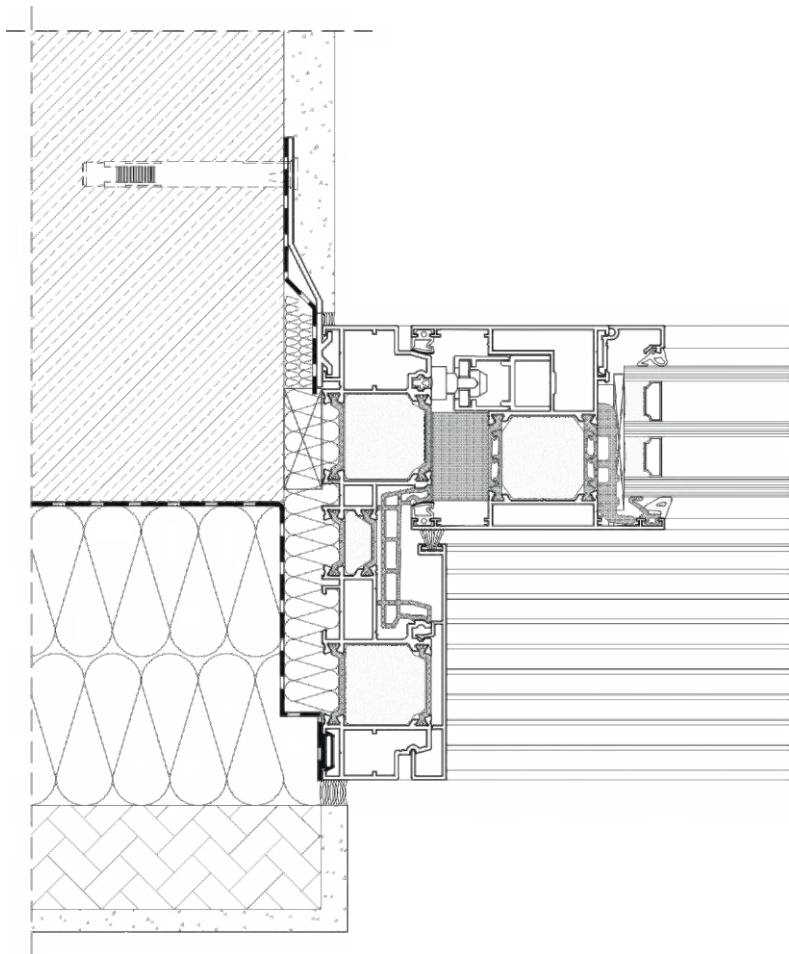
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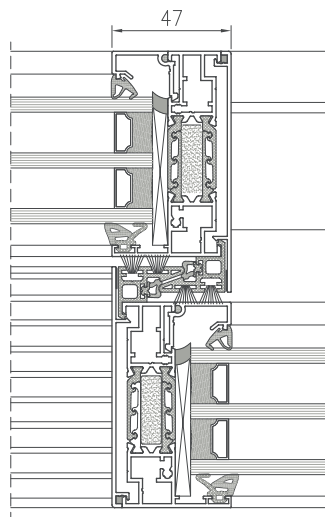
TECHNICAL PARAMETERS

Air permeability	class 4 acc. to PN-EN 12207
Water tightness	class E1350 acc. to PN-EN 12208
Heat transfer coefficient	U_w from 0,7 W/m ² K
Wind load resistance	class C3 acc. to PN-EN 12210
Anti-theft protection	class RC 2 acc. to PN-EN 1627
Acoustic insulation	$R_w = 47$ dB
Maximum leaf height	3300 mm
Maximum leaf width	3300 mm
Maximum leaf weight	440 kg
Infill thickness	29÷63 mm
Two-rail frame depth	180 mm
Leaf structural depth	81 mm
Narrow mullion width	47 mm

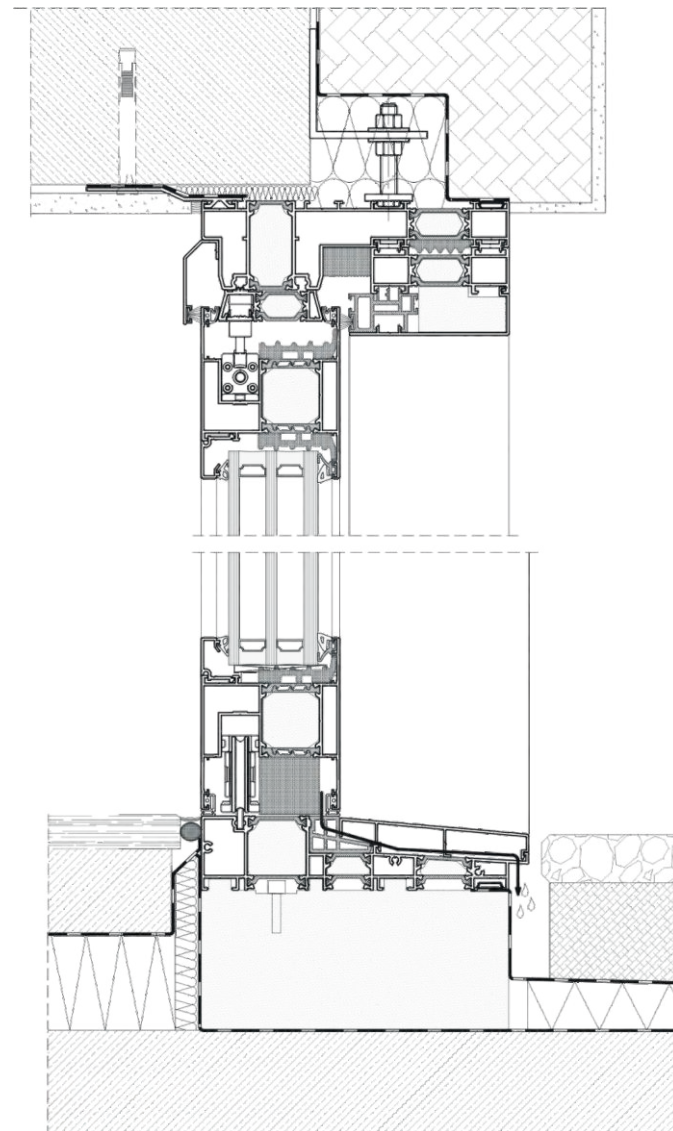
DP 180 - LATERAL CROSS-SECTIONY



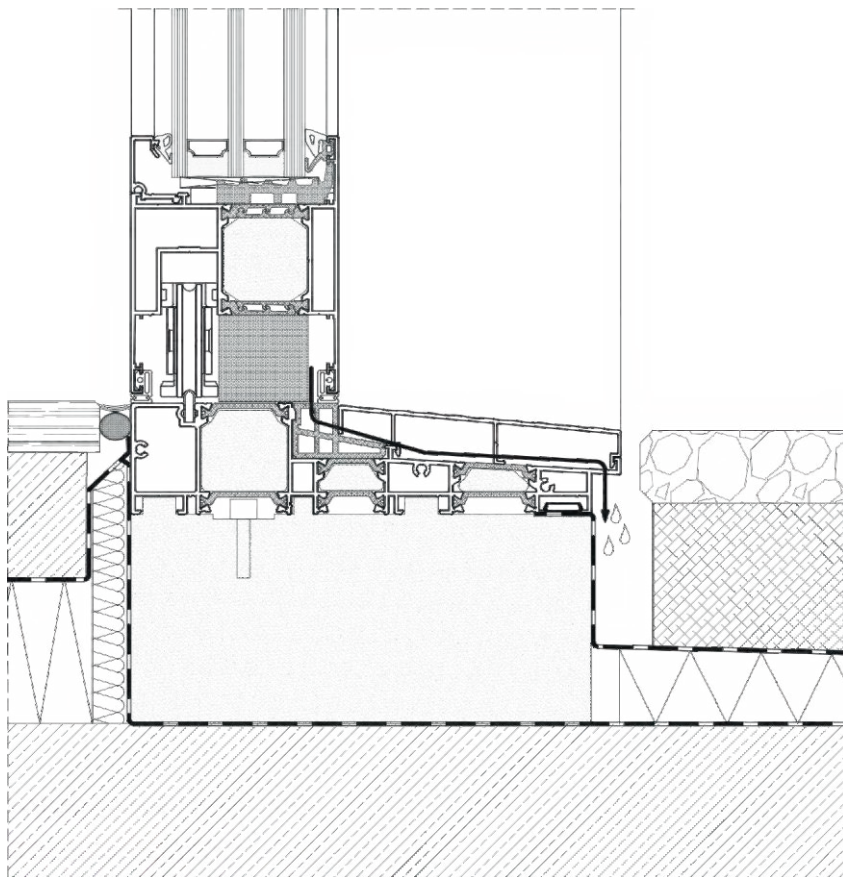
CROSS-SECTION THROUGH
A NARROW POST DP 180



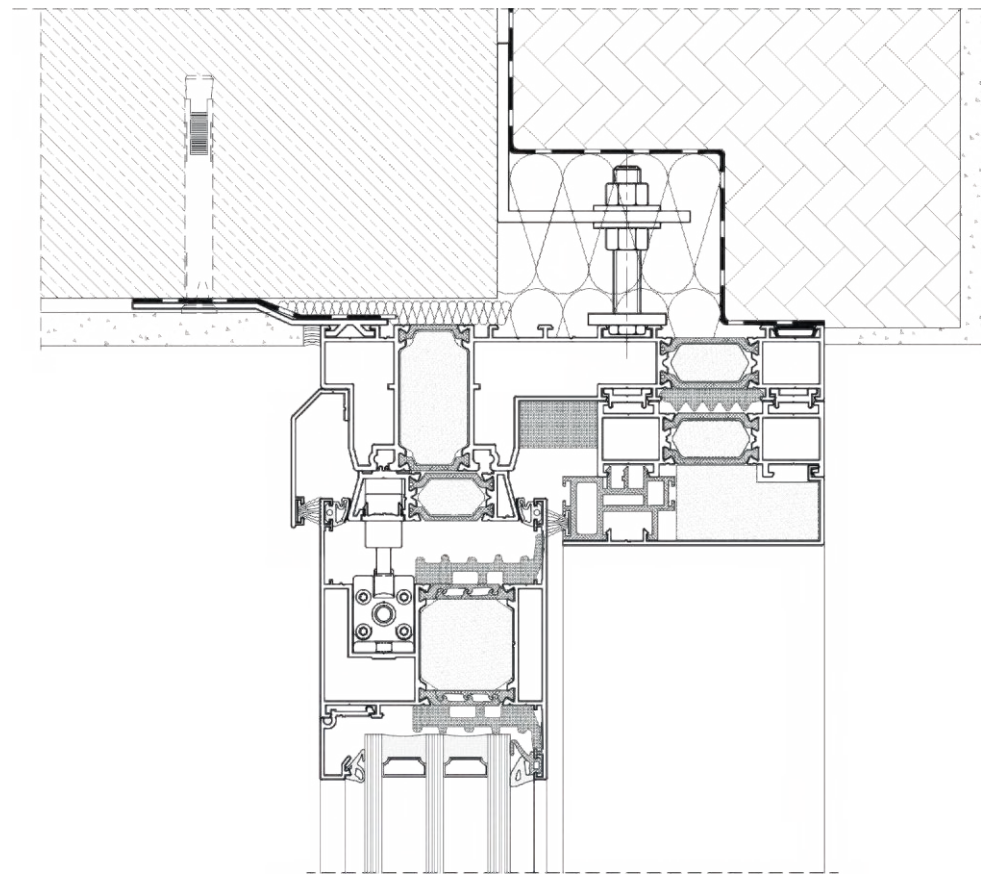
DP 180 LOW THRESHOLD - SLIDING LEAF



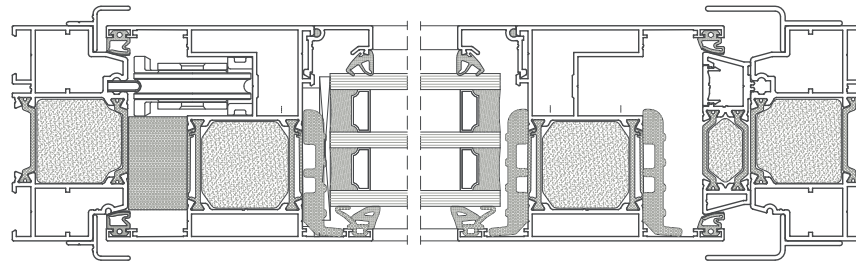
DP 180 BOTTOM SECTION



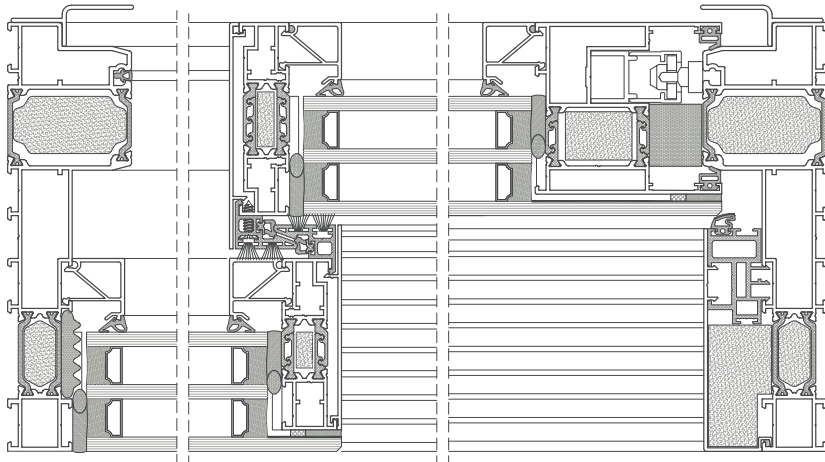
DP 180 TOP SECTION



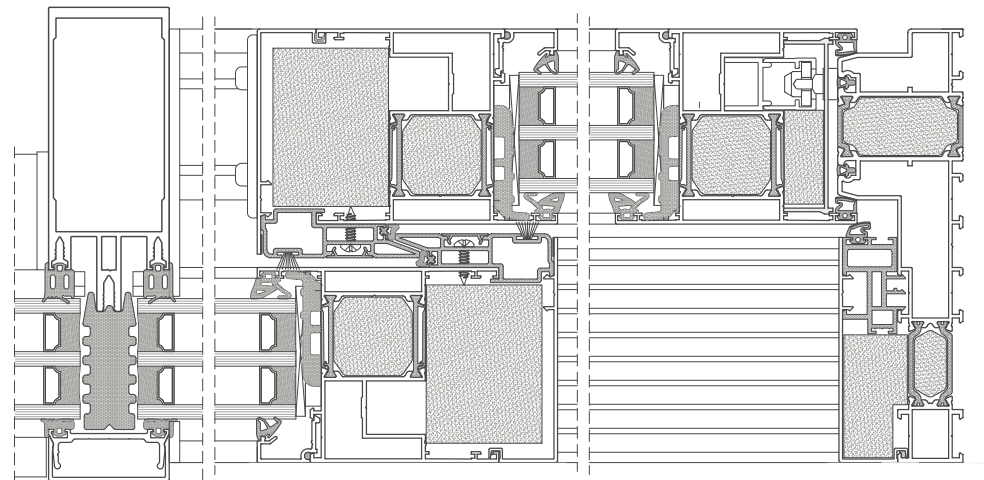
DP 180 GALANDAGE



CROSS-SECTION THROUGH THE DP180 GLASS DOOR



CROSS-SECTION THROUGH THE DP180 DOOR WITH FACADE





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