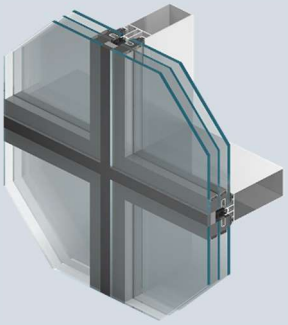
Hansen

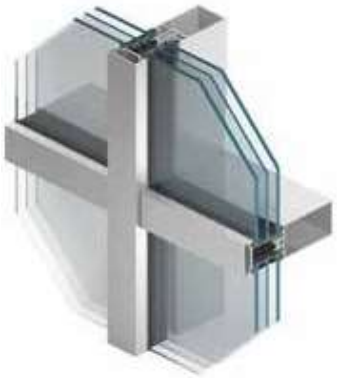


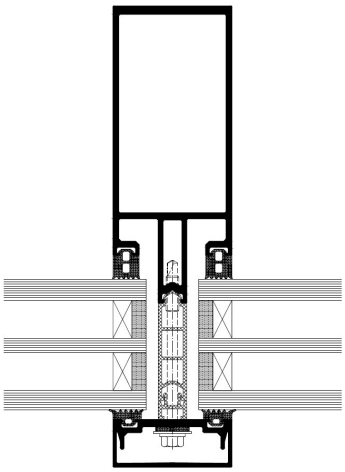
Facade systems
Aluprof MB-SR50N

The MB-SR50N mullion-transom system has been designed to fabricate lightweight curtain walling, roofs, skylights and other spatial structures. On current trends in architecture, it allows aligning of mullion and transom profiles on the inner side of the façade, so obtaining variants of different appearance. This system forms the basis of a variant with enhanced thermal insulation: MB-SR50N HI+, and other fire protection solutions, and is also linked to the structures of different types of windows such as tilt-and-pull windows, roof windows and façade-integrated windows. When it comes to glass and aluminium structures, with this rich variety of solutions based on the MB-SR50N façade, architects and designers can now make their most audacious visions come true.

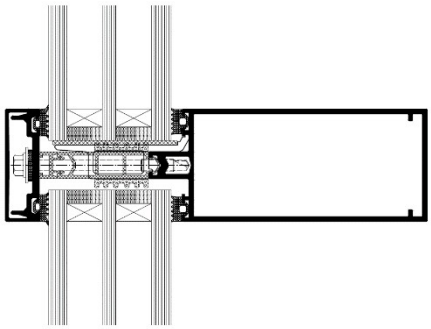
Design:	Elevation width of the profile system is 50 mm.
Variants:	MB-SR50N MB-SR50N HI MB-SR50N HI+ MB-SR50N EFEKT MB-SR50N IW MB-SR50N OW
Air permeability:	MB-SR50N / MB-SR50N HI, HI+, EFEKT: **AE 1200, EN 12152** MB-SR50N IW, OW: **class 4, EN 12152**
Water tightness:	MB-SR50N / MB-SR50N HI+: **RE 1200, EN 12154** MB-SR50N HI: **RE 1500, EN 12154** MB-SR50N EFEKT: **RE 1200, EN 12154** MB-SR50N IW: **E 1500, EN 12208** MB-SR50N OW: **E 1650, EN 12208**
Wind load classification:	MB-SR50N / MB-SR50N HI, HI+, EFEKT: **2400 Pa, EN 13116** MB-SR50N IW: **E 12400, EN 12210** MB-SR50N OW: **class C5, EN 12210**

MB-SR50N / MB-SR50N HI





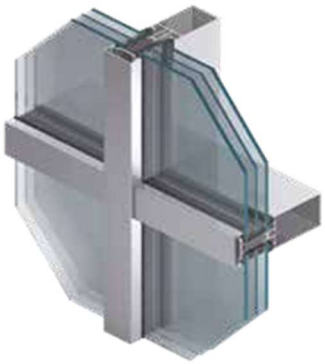
mullion – cross section
MB-SR50N

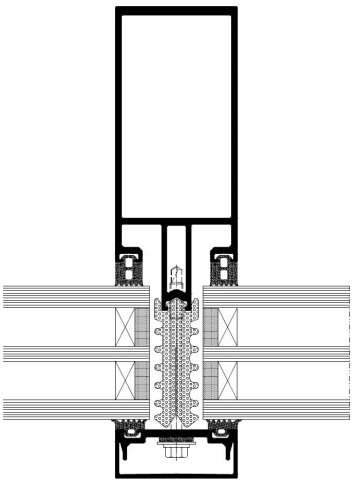


transom – cross section
MB-SR50N HI

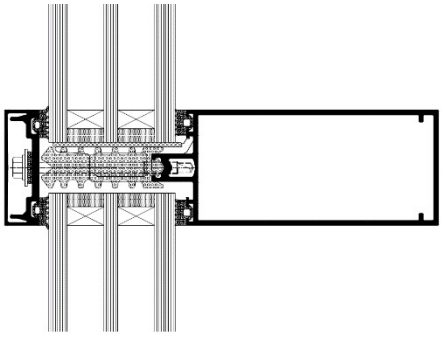
The MB-SR50N and the version with enhanced thermal insulation, the MB-SR50N HI+, is intended for the design and construction of lightweight curtain and infill walls, roofs, skylights and other spatial structures. In line with current architectural trends, this means that the mullion and transom profiles can be flush on the inside of the façade and makes it possible to obtain a host of different looks for the exterior. The system also constitutes a basis for fire-resistant solutions.

MB-SR50N HI +





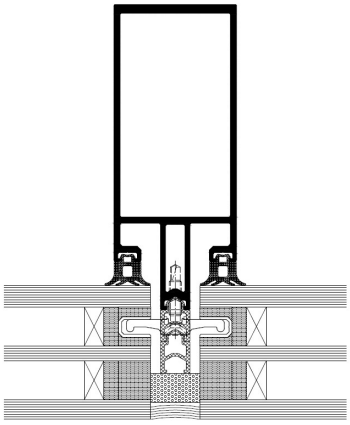
mullion – cross section



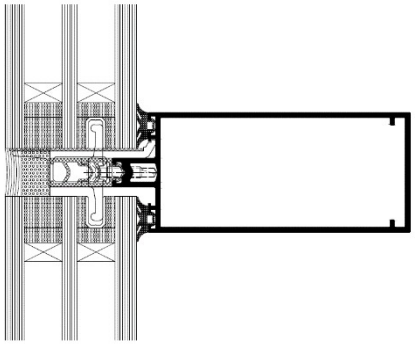
transom – cross section

This version, with the best thermal and acoustic insulation performance, uses a modified insulator made of PE material. The adequate shape of the insulator, in addition to high protection against heat transfer, ensures the proper conduct of screws that fix the clamping strips. This is important during the installation of the façade. For their part, new accessories give more freedom in selection of glazing.

MB-SR50N EFEKT



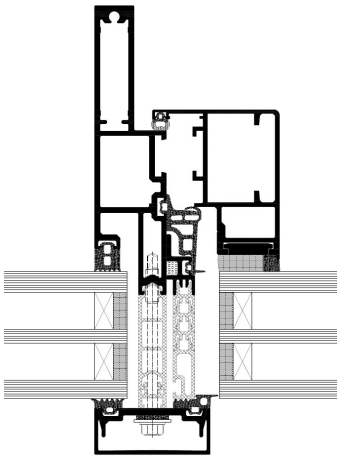
mullion – cross section



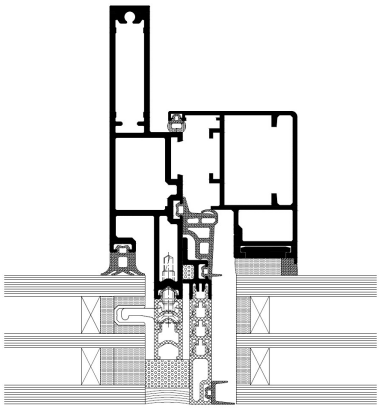
transom – cross section

A curtain wall which uses toggles and channels to fix the glazing to provide a uniform appearance of a smooth glass wall divided by a structure of vertical and horizontal lines of a width of 20 mm. It is possible to use within it large and heavy one- or two chamber glass in-fills, including laminated pane sets and non-transparent panels based on insulated glass.

MB-SR50N IW



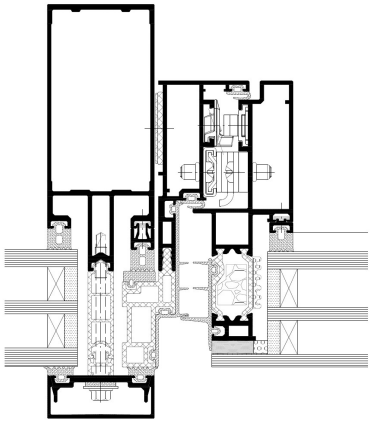
mullion with window, section view MB-SR50N IW – standard variant



mullion with window, section view MB-SR50N IW – EFEKT variant

B-SR50N IW enables the use of inward openable windows integrated with mullion-transom profiles. The area of the façade with tilt-and turn function does not differ, as seen from the outside, from the neighbouring areas with fixed glazing. This systems comes in 3 varieties: standard, with flat strip and EFEKT.

MB-SR50N OW



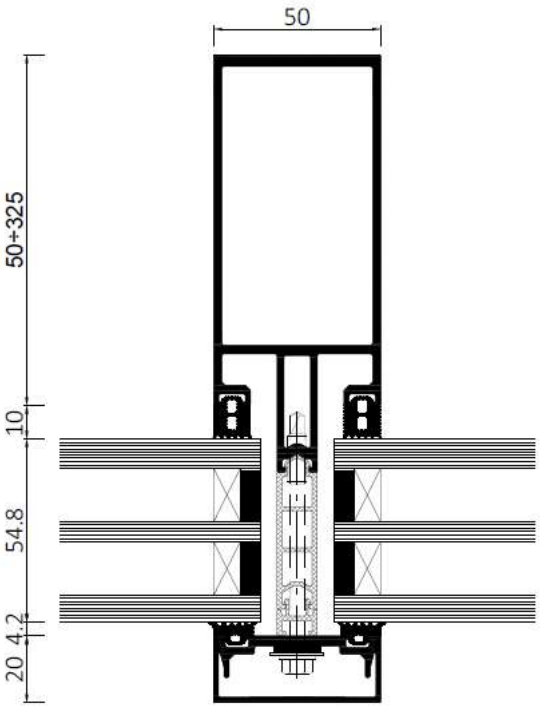
facade with window MB-SR50N OW – variant with strips

Ones of the most important advantages of this solution are the unusually economical shapes, which add lightness to the entire structure. Thanks to application of the most modern technology of structural gluing, based on gluing the outer glass panel to the aluminium frame with structural silicon, we have avoided the necessity to use any aluminium elements from the outside or any mechanical joints for fitting the glass panel.

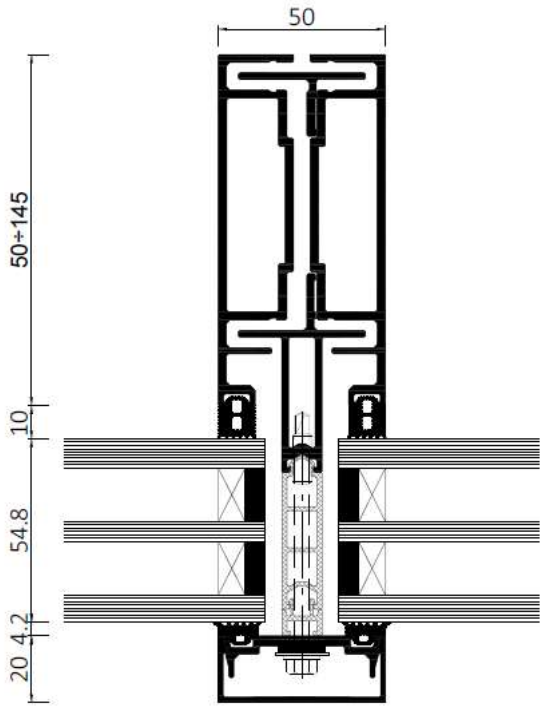
TECHNICAL SPECIFICATION

	Depth of mullion	Depth of transom	Glazing range	Thermal insulation
MB-SR50N / MB-SR50N HI+	50-325 mm	5-209,5mm	24-56 mm	Uf from 0,7 W/m^{2}K
MB-SR50N HI			24-52mm	Uf from 1,0 W/m^{2}K
MB-SR50N EFEKT			24-56mm	Uf from 1,1 W/m^{2}K
MB-SR50N IW	85-125mm	49,5-129,5mm	24-56mm	Uf from 1,6 W/m^{2}K
MB-SR50N OW	-	-	28-41mm	-

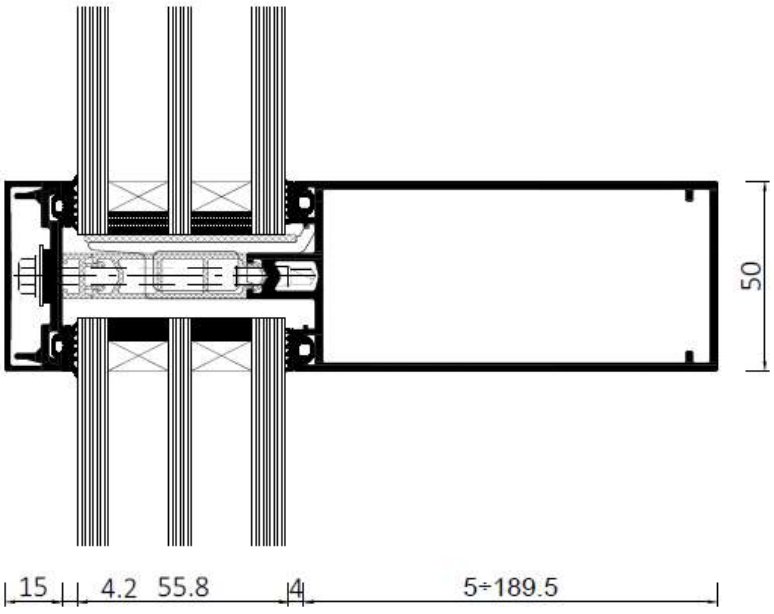
PROFILES



Horizontal section of mullion



Horizontal section of half-mullion



Vertical section of transom

CONNECTORS

Load capacity
(kN)

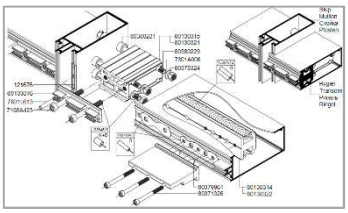
5,5kN

2,5-3kN

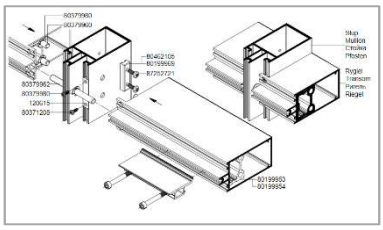
1,2-1,5kN

0,8kN

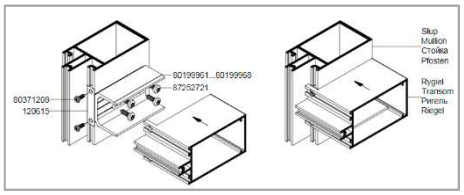
0,45kN



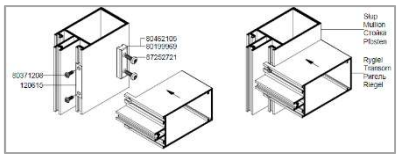
Type I



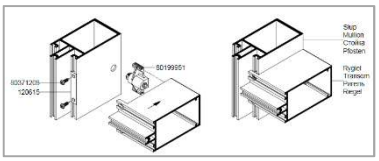
Type E



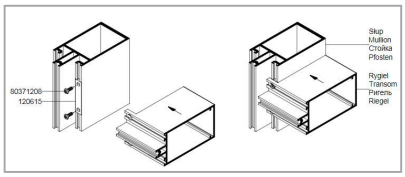
Type C



Type B



Type D



Type A

Transoms
49,5mm-189,5mm