

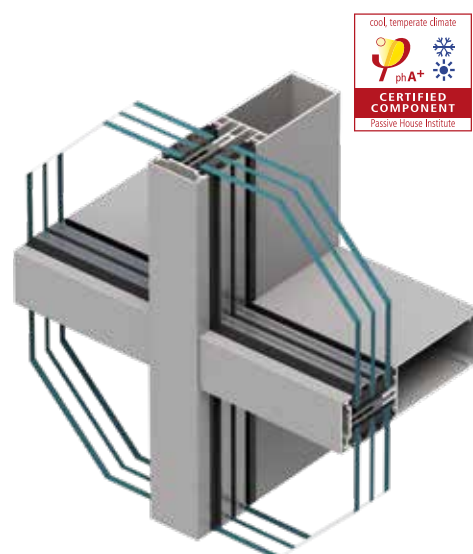


LET'S BUILD A BETTER FUTURE

## Façade system **MB-MT50N**

The MB-SR50N is a system intended for the construction of lightweight suspended and infill curtain walls, glazed roofs, skylights and other spatial structures. The design is rooted in the Cradle to Cradle Certification® guidelines corresponding to the requirements for sustainable development and the circular economy concept. Optimised in terms of the profiles, profile durability and accessories, it also features solutions that simplify on-site installation. It comes in two different thermal versions which are fitted with innovative insulators made using a combination of two materials. The standard version has an ABS/TPE insulator and the SI version is equipped with a PET/PE insulator, making it possible to obtain a very low thermal transmission for the façade.

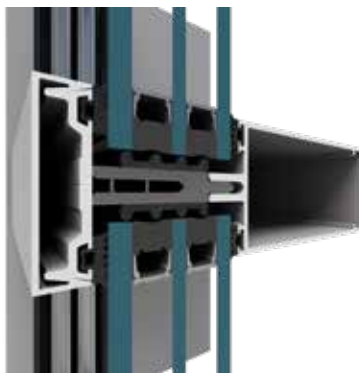
The system also offers designers plenty of freedom, allowing them to create façades with complex structures and guaranteeing their problem-free use. As far as functionality is concerned, the MB-MT50N is also highly flexible when it comes to the use of operable elements based on ALUPROF's classic window and door systems, lift and slide solutions and systems designed solely for façades, such as tilt or tilt and slide windows, not to mention roof windows



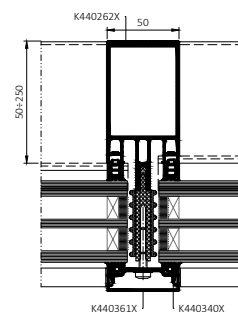
**U<sub>f</sub> from 0,55 W/(m<sup>2</sup>K)**



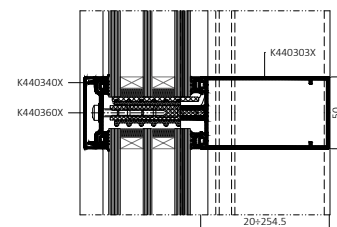
**MB-MT50N**



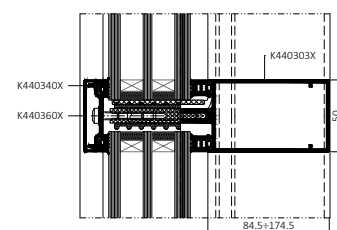
**MB-MT50N SI**



Cross section of an MB-MT50N SI mullion



Cross section of a row 1 MB-MT50N SI transom



Cross section of a row 2 MB-MT50N SI transom

## FUNCTIONS AND AESTHETICS

- a range of mullions and transoms meeting the highest static requirements
- high thermal performance in both the SI and standard versions
- a minimum  $U_f$  value of  $0.55 \text{ W}/(\text{m}^2\text{K})$ ; the system meets the requirements for certification by the Passive House Institute in Darmstadt
- excellent watertightness and wind load resistance
- the socket of the central mullion and transom is open, permitting assembly by screwing without additional drilling
- the width of the central socket is reduced, providing an increased displacement compensation capability
- a three-stage, cascading drainage system for every type of mullion-to-transom and transom-to-transom connection
- the shape of the water channel facilitates the installation of drainage components and connectors from the front of the mullion
- innovative insulators made from a combination of two materials, ABS/TPE or PER/PE, provide a more secure screw installation, easier processing and damage-free transportation
- the new shape of the half-mullion simplifies the assembly from two parts. It features a new sealing system and the possibility of ladder installation
- standardised installation screws with torx sockets simplify installation and provide secure attachment
- the new gasket shape facilitates glazing and guarantees high airtightness performance
- available as a quick-action coupling system for mullion-transom connection which is suitable for glass with a maximum weight of 300 kg

TECHNICAL SPECIFICATION	MB-MT50N
Mullion depth	20 – 250 mm
1st row transom depth	20 – 254.5 mm
2nd row transom depth	85 – 175 mm
Mullion rigidity (Ix ratio)	26.76 – 1665,22 cm <sup>4</sup>
Transom rigidity (Ix ratio)	3.49 – 950,59 cm <sup>4</sup>
Glazing	20 – 64 mm

PERFORMANCE	MB-MT50N
Air permeability	AE 1950, EN 12152
Watertightness	RE 1950, EN 12154
Windload resistance	± 3000 Pa, EN 13116
Impact resistance	I5/E5, EN 14019