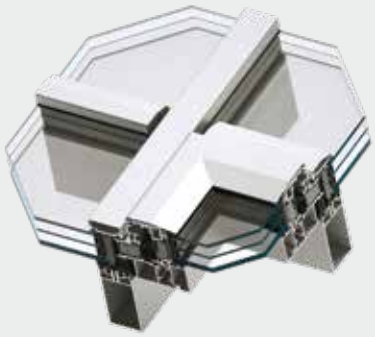
SYSTEM MB-RW ROOF WINDOW



Regardless of the type, windows are a major element of the roof and support the ventilation of important parts of the building. But glazed roof plane's windows should have special features. In addition to the "opening function", windows should as much as possible match the rest of the structure in terms of aesthetics, glazing possibilities and thermal insulation. MB-RW is a modern system which responds to the increasing thermal and functional demands the contemporary roof constructions are facing today. It also complements Aluprof's offering of energy-efficient aluminium systems. Windows fabricated using the MB-RW system are intended for installation on roofs with mullion-transom systems (MB-SR50N & MB-TT50 group of products) of an inclination angle of 3° to 75° in relation to the horizontal plane. In rafters/purlins axes, roof windows can have dimensions up to 2.5 m and weight up to 200 kg.

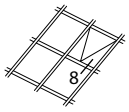
MB-RW's high thermal insulation and a wide range of glazing (from 32 to 51 mm) allows the realization of energyefficient building projects. To do so, special insulating materials were used. A specially-designed glazing gasket and a cover cap allow to obtain excellent tightness parameters while providing an efficient and simple installation of the infill.

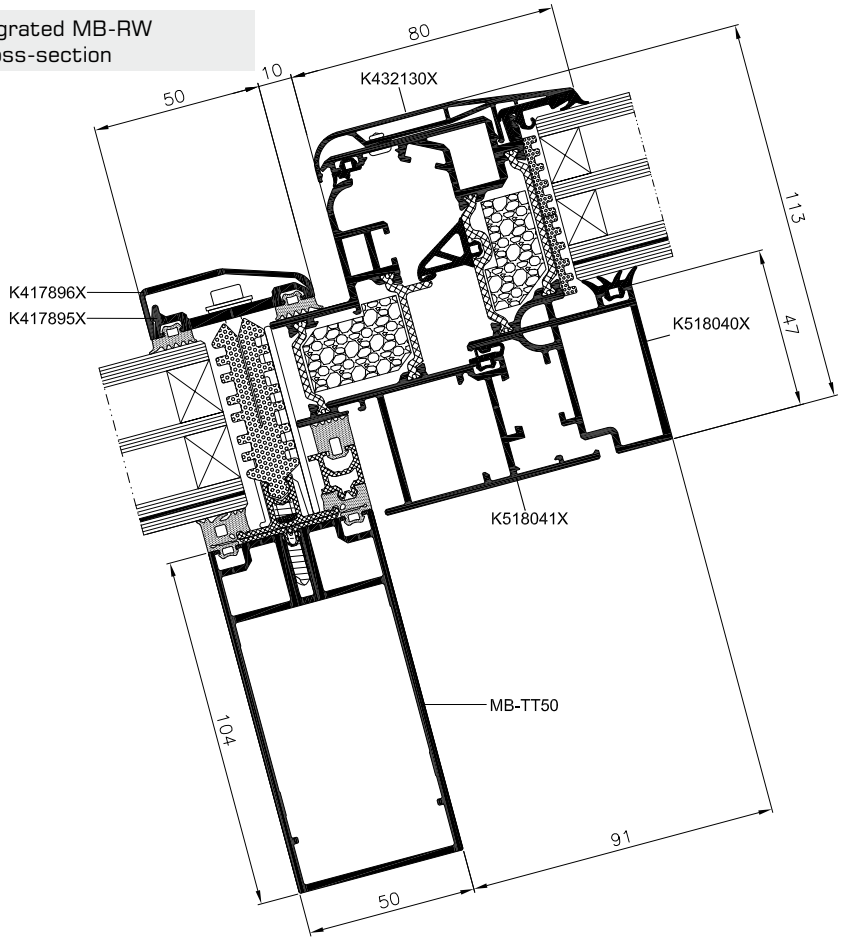
Technical capabilities – in terms of fittings – is yet another advantage of the MBRW system-based window roofs. To simplify fabrication stage, dedicated hinges were developed – these can be installed at the final stage of the construction's fabrication. In order to increase the dimensions of the windows, profiles can be optionally ferruled with standard multi-point locking fixtures, this without prejudice to the tightness of the whole structure. This also allows to fabricate windows opened manually by the handle. The system also allows the installation of electric actuators from different manufacturers in a wide range of constructions – MB-RW windows can therefore be part of the gravitational ventilation system of the building.

Performance:

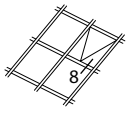
- Thermal insulation: U_f from 1,8 W/(m^{2}K)
- Air permeability: Class 4 (1350 Pa); EN 12207
- Water tightness: E1800; EN 12208
- Wind load resistance: 2,4 kN/m^2; EN 12210
- Impact resistance: Class 4; EN 1873

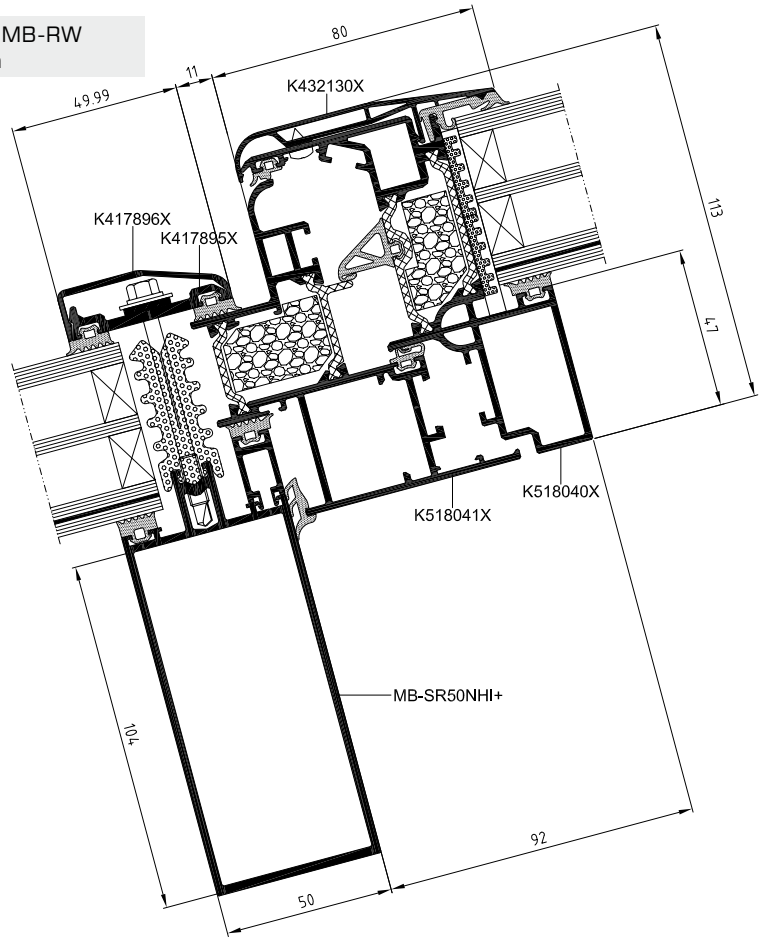
MB-TT50 façade-integrated MB-RW window roof - cross-section





MB-SR50N HI + façade-integrated MB-RW window roof - cross-section





More examples on: www.architects.aluprof.eu **Scale 1:2**