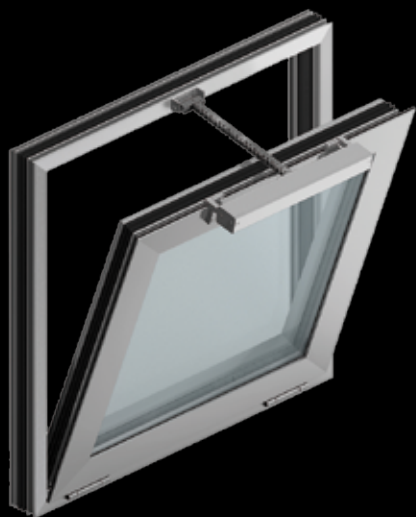




Fire ventilation systems **WINDOWS AND SMOKE VENTILATORS**

Windows and smoke ventilators have a specific role in ensuring safety and comfort of the building residents. If chosen wisely, windows and smoke ventilators can become elements of the gravitational ventilation system and help to quickly get rid of smoke and toxic fumes hazardous to health and life. Smoke exhaust joinery based on MB aluminium systems comes equipped with specialized openers and control systems and has been tested and certified to EN 12101-2. Variety of solutions makes our product well suited for individual or joint integration (with aluminium façades, roof glazings). Smoke exhaust and ventilation system is supplemented by fresh air doors or windows.

■ *large selection of design solutions*



CERTIFICATES

Certificates confirming compliance with the requirements of the EN 12101-2: 2003 standard.



FEATURES AND BENEFITS

- wide range of solutions based on systems such as MB-59S, MB-59S Casement, MB-60, MB-60US, MB-70, MB-70US, MB-86, MB-86US window systems or on façade-dedicated window structures
- various opening options: side or inward bottom/top hung casement, but also roof slope windows used in sloped façades or skylights
- reliable, silent mechanisms, different types of actuators (chain, spindle or rack)
- possibility of using single, double or triple operators of an opening force up to 3,000N, in synchronized "Tandem"-type systems
- mechanisms allowing windows to open wide
- additional functionalities and security features such as "High Speed" functionality, protection against crushing, extra interlocks
- good appearance and possibility of using small openers, disposed parallelly to the surface of the window
- integration with power supply, control and protection systems e.g. emergency power supply, coupling with the building's ventilation system

TECHNICAL SPECIFICATION	WINDOWS AND SMOKE VENTILATORS
Maximum dimensions of the casement [horizontal view] (H×W)	H to 1600 mm, W to 2500 mm
Maximum dimensions of the casement [vertical view] (H×W)	H to 2500 mm, W to 1600 mm
Maximum dimensions of the roof window (H×W)	H to 2200 mm, W to 1500 mm or H to 1500 mm, W to 2200 mm
Max. surface of the vertical / roof smoke exhaust window	to 4,0 m ² / to 3,3 m ²
Max. opening angle of the smoke exhaust window	to 90°