



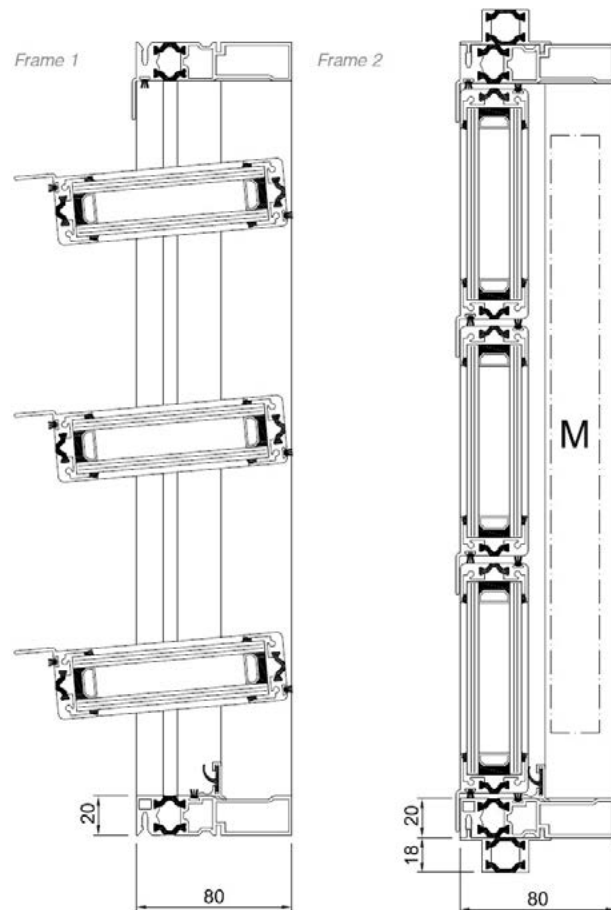
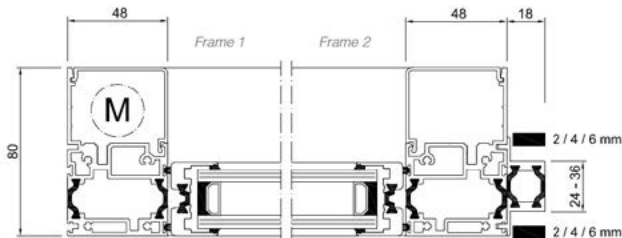
HAHN Integral

Type	Double Glazed Thermally Broken Louvre Window
Width	Min. 250mm / Max. 1800mm
Height	Min. 520mm / Max. unlimited
Frame	Frame 1: For brickwork, timber and metal Frame 2: For curtain wall
Blade height	Min. 150mm / Max. 350mm
Opening angle	83°

HAHN Integral

For the first time (and protected by patent rights) the HAHN-Louvre Window Integral features an electric motor incorporated within the window frame, hidden from view. This aesthetically pleasing appearance also provides protection for the motor against weather and tampering.

The glass louvres are framed with Aluminium sections incorporating a thermal barrier. The Integral is officially certified for natural smoke- and heat extraction (EN 12101-2) and ball protection for sports facilities (DIN 18032-3).



Material and Finish

Aluminium sections with thermal barrier. Natural anodised finish 20um (special colours optional) or powder coated to RAL colour.

Glazing

Double or triple insulated glass (glass thickness 28 mm or 32 mm, in the standard combination of 6/16/6 or 6/20/6).

Glass types

Various combinations of glass in regards to thermal insulation, protection and colour depending on specific requirements. Glass can be either float, semi-tempered, toughened or laminated.

Sandwich panels can be offered in various combinations instead of glazing for better insulation.

Operation

Manual operation by hand lever, crank handle or hand wheel

Electric operation by 24vDC or 240vAC motor
Pneumatic

24vDC electric motor operator is required for NSHEV model compliant to EN12101-2

Aerodynamic performance	0.54
Air permeability (EN 12207)	Class 3
Watertightness (EN 12208)	Class 3A
Wind load (EN12210)	Certified
U Value (EN ISO 10077)	1.5 W/m ² K

Benefits

- Motor is concealed within the framing
- Small and compact frame
- High performance U value due to the thermally broken frame

