Alumil

SMARTIA M78

CURTAIN WALL UNITIZED SYSTEM

SMARTIA M78 is a cost efficient unitized curtain wall, which combines minimal aesthetics with structural robustness.

Its Structural Silicone Glazing construction offers maximum transparency at the external surface of the façade.

Modular units, including glazing panes, are prefabricated in workshop conditions and this results in a fast and economic installation with minimum manpower and tooling requirements.

This construction mode, renders M78 an ideal system for high rise buildings, where meeting demanding deadlines is a prerequisite.

- Basic system width 78mm
- Structurally bonded glazing, providing a flush exterior appearance.
- Various hinged typologies can be implemented: projected, parallel projected and all and turn windows.
- Horizontal unit joint 12mm
- Vertical unit joint 19mm
- Stack joint height 92mm
- 3 levels of sealing
- Glazing from 32 mm up to 46mm

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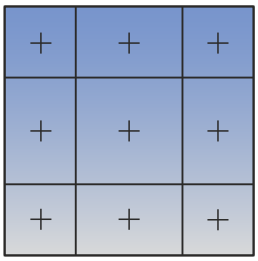
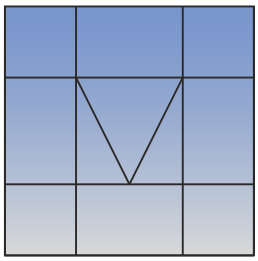
TECHNICAL CHARACTERISTICS

Exterior visible width	78 mm
Mullion depth	160 mm
Transom width	160 mm
Mullion moments of Inertia	Ix=643cm^4 Iy=46cm^4
Transom moments of Inertia	Ix=161cm^4 Iy=568cm^4
Maximum dimensions WxH	1500 x 3500 mm

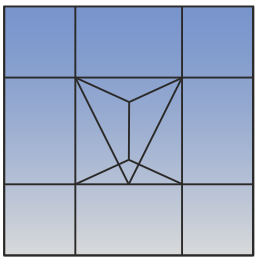
TYPOLOGIES



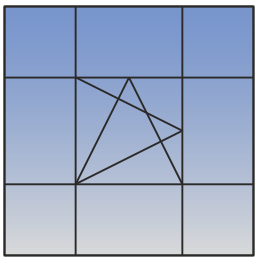
Fixed



Project window



Parallel Projected Window



Tilt and turn window

CERTIFICATES

Air permeability EN 12152	CLASS AE 750
Watertightness EN 12154	CLASS RE 1200
Resistance to wind load EN 13116	Design Load ±2 KN/m^2 Safety Load ±3 KN/m^2
Impact Resistance EN14019	I5/E5
Θερμομόνωση EN 12631	U_f from 2,1 to 2,5W/m^{2}K

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Impact Resistance EN14019	I5/E5

CWCT-Standard test methods for building envelopes

CENTRE FOR WINDOW AND CLADDING TECHNOLOGY

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