CARMINATI

HISTORICO COLLECTION | HMW120 - HISTORICO METAL WOOD 120

TIMBER-ALUMINIUM FRENCH DOOR with concealed hinges and triple glazing

The HMW120 collection is the ideal solution for those seeking the highest levels of thermal and acoustic insulation without compromising the elegance of timber and the durability of aluminium. The timber structure is integrated with high-performance polystyrene insulating profiles and externally protected by an aluminium cladding, a combination that delivers outstanding energy performance and effective protection against the elements.
The 113 mm sash depth accommodates high-performance glazing systems, helping to achieve insulation values that make the HMW120 suitable even for ultra-low-energy buildings, including Passive Houses and CasaClima certified projects. The system's exceptional performance is certified by the Passive House Institute in Darmstadt, the internationally recognised authority on energy-efficient buildings.

Technical specifications – HMW120

Visible sash thickness	83x113 mm	**Ug value**	0.6 W/m²K
Fixed frame profile	92x114 mm	**Hardware burglar resistance classification**	RC2 (RC3 on request)
Minimum standard glazing	33.1/15/4/15/33.1 Argon + Low-E	**Maximum sash dimensions and weight**	visible hinges: 1200x2600 mm (130 kg) 1300x2800 mm (180 kg) 1200x3000 mm (200 kg) concealed hinges: 1200x2600 mm (150 kg) 1000x3000 mm (180 kg)
Water tightness	Class 7A (EN 12208)		
Air permeability	Class 4 (EN 12207)		
Wind resistance	Class C3 (EN 12210)		
Frame thermal transmittance (Uf)	1,18 W/m²K (fir) 1,30 W/m²K (oak)		
Overall window thermal transmittance (Uw)	0,89 W/m²K (fir) 0,94 W/m²K (oak)	**Sample size**	1480x2180 mm

Finishes and customisation

Every HMW120 window and door system is custom-made in-house with artisan precision, combining the quality of timber, the reliability of aluminium, and the outstanding craftsmanship that distinguishes Carminati. The system is available in a range of engineered timber finishes, including fir, oak, larch, and sapeli mahogany, selected for their aesthetic qualities and technical performance. The external aluminium cladding eliminates the need for maintenance on surfaces exposed to atmospheric elements, preserving the appearance and performance of the window and door system over time. Available both in the traditional version with cover trims and visible hinges, and in the flush configuration with wall-aligned installation and concealed hinges, HMW120 offers maximum design flexibility, adapting elegantly to both contemporary architecture and renovation projects.

Designed for

HMW120 represents the ideal solution for professionals seeking a timber window and door system that combines energy efficiency, living comfort, durability, and extensive customisation options. The wide range of timber species, finishes, and construction configurations allows the system to be tailored to specific design requirements, integrating seamlessly into both prestigious residential projects and high-end contract and hospitality developments.

Please note: the sections and performance data provided are for reference purposes only and are intended as examples. They do not constitute a binding or definitive representation of the product. The technical department reserves the right to make changes at any time.

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HISTORICO COLLECTION | HMW120 with applied glazing bead

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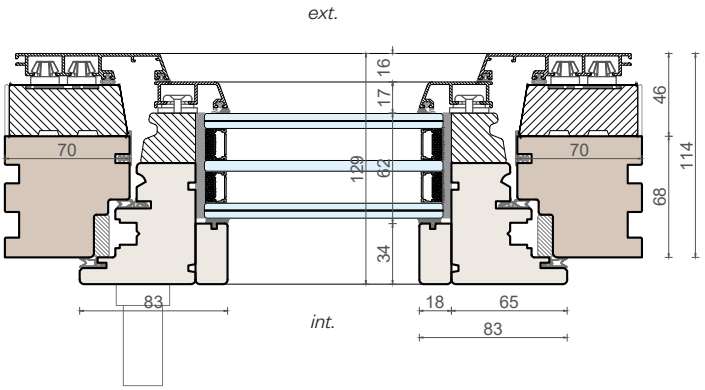
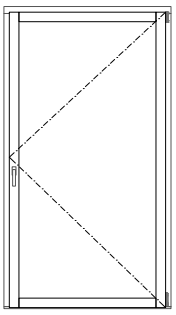
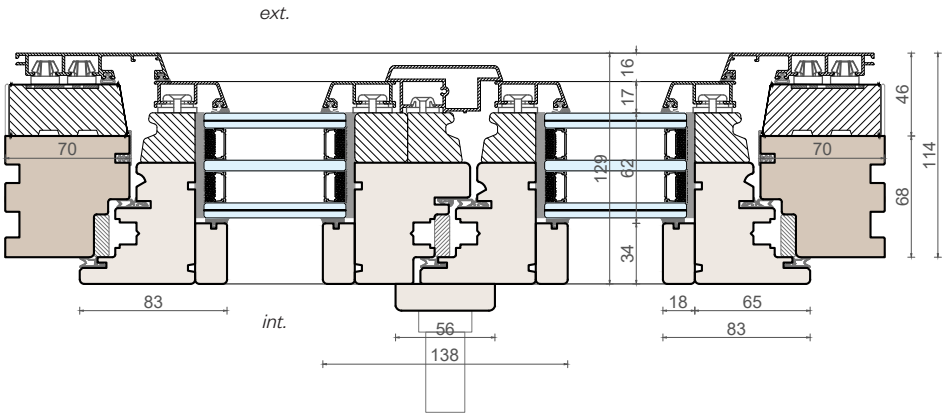
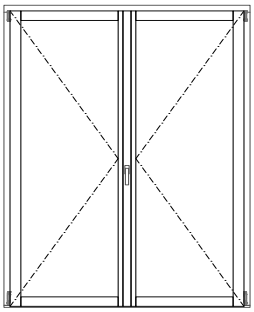
Horizontal section



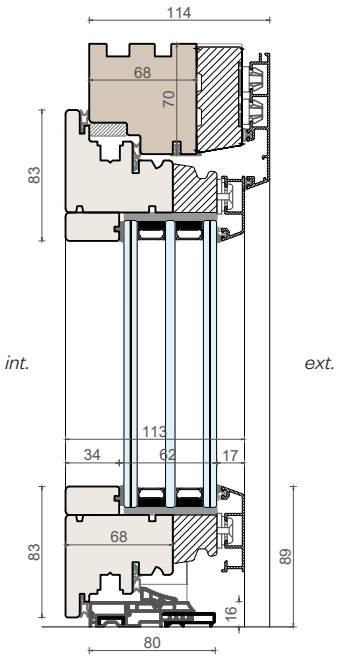
Elevation view







Vertical section



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