



### **The Details Define the Quality**

**Here are the key construction features of your new high-quality custom wood/aluminum 114pff window:**

Window Value	The $U_w$ window heat transfer coefficient is $0.72 \text{ W}/(\text{m}^2\text{K})$ , according to UNI EN ISO 10077-1.
Construction	Passive window design with triple seals, 78mm sash wood thickness, 78mm frame wood thickness, and an exterior flush aluminum cladding. The sash and frame woods are flush on the interior. The total thickness of the window element is 114mm. Between the wood and aluminum cladding, a polystyrene foam layer with a minimum thickness of 30mm ensures passive-level thermal insulation. The components are mechanically joined. Euromodel windows carry the RAL quality mark, ensuring stringent quality checks on construction, materials, and production.
Aluminum Profile	With a minimum thickness of 1.5mm (alloy P AL Mg Si UNI3569-66), the profile is applied externally. It is mounted invisibly, stress-free, and slide-mounted. Aluminum profiles are available in various anodized finishes, powder-coated RAL colors, or special coatings.
Hardware	Windows and doors are equipped with concealed Roto Designo II tilt-turn hardware with misoperation prevention. Standard basic security against burglary is provided with mushroom head locking points and double-thread screws. Handles are in "Thron" style, titanium anodized, white, or bronze.
Seals	The sealing system for thermal and acoustic insulation consists of three continuous TPE seals without weld seams.
Surface Treatment	The wood is impregnated twice by flooding for protective priming. The final treatment, either translucent or opaque, is done with a special ecological thick-layer varnish coating with UV filters, ensuring long-lasting appearance and protection.
Glass	Energy-saving glass $U_g 0.6 \text{ W}/(\text{m}^2\text{K})$ with a structure of 4:-16Ar-4-16 Ar-Vsg:33.1 or Vsg33.1:-16Ar-4-16Ar-Vsg:33.1, professionally installed and mounted. Super Spacer spacers ( $g 0.032 \text{ W}/(\text{m}^2\text{K})$ ) provide a seamless transition to the wood. The glazing system includes silicone sealing on the inside and profile seals on the outside.

„Ar“ = Argon (gas in the pane interspace)

„Vsg“ = Laminated safety glass

„1“ = 1x 0.38mm film

#### Wood Profile



Laminated spruce of 1st quality is used for transparent colors. For opaque colors and frame woods, finger-jointed wood is used. Other woods are available upon request. For elements over 2500mm in length, multi-part interlocking woods (minimum length of finger joints 800mm) are used. The wood comes from PEFC\*-certified sustainable forestry.

\*PEFC = "Programme for the Endorsement of Forest Certification" (Program for the recognition of forest certification systems).

#### Les cadres aveugles

Ils sont livrés et installés en cadres en bois avec des profils extérieurs en fibre de verre. Les bandes d'étanchéité pré-compressées à l'extérieur, les bandes d'étanchéité pré-compressées avec imprégnation latérale supplémentaire à l'intérieur, et le joint intérieur en silicone garantissent l'étanchéité à l'air. Sur demande, la jonction entre le cadre aveugle et le mur (revêtement lisse ou mur en bois requis) peut être scellée avec une bande en feuille comme pare-vapeur.

#### Sub-Frames

Delivered and installed in wooden profile frames with external fiberglass-reinforced edge profiles. Pre-compressed sealing tape on the outside, pre-compressed tape with additional lateral impregnation on the inside, and interior silicone sealing ensure airtightness. Upon request, the wall connection between the sub-frame and the wall (smooth coat or wooden wall required) can be sealed with foil tape as a vapor barrier.

Wood/Aluminum 114pff



Interior



Exterior