
Omero

windows technical specifications

Features

Wooden windows and French window for external application only. The materials we use are stocked in a storehouse that is naturally aired, and it is thermo-hygro-metrically balanced with the environment. It's humidity level, when we start working it, varies according to the type of wood and it can range from 10% to 16%.

Frame

Fixed wooden frame with a 78x92 mm section. The profiles are made so that the ends of stile and transom perfectly match, and they are barbed system together at right angle. Gluing made with adhesive tested in accordance with regulation EN 14257 (ex WATT 91). As regards windows, frame on four sides with wood drip got out of the wood cross piece lower to ease rain drainage. As for French window, frame on three sides and aluminum threshold with thermal break lowered sill with holes for water drainage. The anti-barrier lowered sill in no more than 25 mm-high, in accordance with the current regulations.

Leaf

Fixed or openable wooden sashes with a 80x92 mm section. The profiles are made so that the stile and transom ends perfectly match, and they are barbed system together at right angle through anti-twist tenon. Gluing made with adhesive tested in accordance with regulation EN 14257 (ex WATT 91). In the sash they are made of 4x12 mm holes to avoid the formation of condensation and guarantees airing of the glass, in accordance with the current regulations. Profiling and squaring are made for a 12 mm hardware system, which means that the distance between the two leaves is 12 mm. Standard French window has two cross pieces lower.

Hardware

Silver hardware undergoes a galvanic zinc-coating process which is completely exempt from hexavalent chromium. It is made with steel and highly corrosion-resistant alloys, in conformity with the class 5 resistance requirements, in accordance with regulation DIN EN 1670. In case of application in spaces where a high heat-resistance is required, please fix the suitable hardware system with the windows maker. Locks are certified with the "Ral" quality mark (in accordance with regulation DIN EN 1326-8) and they have been tested upon 10.000 openings and shuttings.

Current supply: tilt-and-turn opening with air flow control gap then double flap opening: turning the handle 180° opening of about 170 mm and turning the handle 45° aperture of only 10-13 mm that allows the exchange of air without cooling the environment, for the arched windows and oblique opening series is turn-only windows; bolt with central level control; grey covering flush hinges adjustable on three axles, maximum weight capacity 110 Kg per leaf; silver anodized aluminium handle.

Product performance features

All windows are packed with the relevant performance declaration made by the window maker in accordance with regulation UE CPR 305/11/CEE as well as with the product regulation UNI EN 14351-1. Every window has its own features shown such as: thermal properties, sound-insulation as well as its air, water and windresistance properties. The turn-only window with frame measuring L 1300x1500 H mm, two sashes,

with lowemission glass ($U_g=0,5$), warm edge spacer, glass with acoustic insulation 41db, features these properties:

Wind-resistance	C5 class	UNI EN 12210
Water-tightness	E900 class	UNI EN 12208
Air-permeability	4 class	UNI EN 12207
Thermal transmittance value	$U_w=0,88$	UNI EN 10077-1 e 2
Acoustic-insulation	$R_w(C,C_{tr})= 43 (-2;-5)$ db	UNI EN ISO 10140-2 e 717-1