

## Escape routes certified entrance door technical specifications

### Features

Entrance door certified for escape routes (CE EN 14351-1) are made of both wood and wood with an external aluminum coating. The wood we use are stocked in a storehouse that is naturally aired, and it is thermo-hygrometrically 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%.

### Model NOVECENTO

#### Frame

Fixed wooden frame with a 68x68 mm section. The profiles are made so that the ends of stile and transom perfectly match, and they are double-tenoned together at right angle. Gluing made with adhesive tested in accordance with regulation EN 14257 (ex WATT 91). Frame on three sides and transit 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 114x68 mm section. The profiles are made so that the stile and transom ends perfectly match, and they are double-tenoned together at right angle through anti-twist tenon and dead hole. Gluing made with adhesive tested in accordance with regulation EN 14257 (ex WATT 91). In the sash they are made of 8 mm diameter 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.

### Model OMERO

#### 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 double-tenoned together at right angle. Gluing made with adhesive tested in accordance with regulation EN 14257 (ex WATT 91). Frame on three sides and grey insulated aluminum 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 114x92 mm section. The profiles are made so that the stile and transom ends perfectly match, and they are double-tenoned together at right angle through anti-twist tenon and dead hole. Gluing made with adhesive tested in accordance with regulation EN 14257 (ex WATT 91). In the sash they are made of 4X12 mm 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.

## Features valid for the Novecento and Omero models

### Panels

The panels are made of veneered MDF waterproof essence request and insulated. All the panels can be replaced with the glasses. The subdivision of panels in all models can be varied and customized by adding one or two vertical uprights and/or horizontal crossbars.

### 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:** crash bar; adjustable "anuba" hinges, maximum capacity 90 kg per leaf; in case of two leafs on the semi-fixed leaf do not insert the bolts, it is the mechanism of the crash bar that blocks the entrance door.

The front door with frame measuring L 900x2200 H mm, one sash, with insulated panels features these properties:

### NOVECEN TO with crash bar

<b>Wind-resistance</b>	NPD	UNI EN 12210
<b>Water-tightness</b>	NPD	UNI EN 12208
<b>Air-permeability</b>	1 class	UNI EN 12207
<b>Thermal transmittance value</b>	Uw=1,3 (panel Up=1,14)	UNI EN 10077-1 e 2

### OMERO with crash bar

<b>Wind-resistance</b>	NPD	UNI EN 12210
<b>Water-tightness</b>	NPD	UNI EN 12208
<b>Air-permeability</b>	1 class	UNI EN 12207
<b>Thermal transmittance value</b>	Uw=0,95 (panel Up=0,77)	UNI EN 10077-1 e 2

### **Model with external aluminium cladding**

The aluminium profiles are joint to the wood at a distance of 5 mm through turning clips in order to let the two materials distend naturally as well as to favour a proper internal ventilation. The reason why we do this is to avoid the formation of condensation, which is harmful to wood. Aluminium is varnished in full obedience of the European quality mark "Qualicoat" as well as of the German quality mark "Ral".

Nuvola: aluminum coating is shaped featuring an accentuated curvature of leaf profile, the coating frame and leaf are complanar.

Nuvola Tecnica: aluminum coating is shaped featuring and linear leaf profile.

The corners of the aluminum coating are joined for both.

### **Frame**

Fixed wooden frame with aluminum covering of 114x92 mm section, profiles made in counter shape and jointed to each other at 90 ° with double tenon, gluing carried out with adhesive tested according to EN 14257 (ex WATT 91). The frame is on three sides with a gray pultruded floor threshold with holes for draining the water. The floor threshold has a height of no more than 25 mm, therefore it does not constitute an obstacle to passage according to current legislation.

### **Leaf**

Fixed or openable wooden sashes with aluminum coating of 110x74 mm section, wooden profiles made in counter shape and joined together at 90 ° with double tenon plus anti-torsion tenon and with closed groove, gluing carried out with adhesive tested according to EN 14257 (ex WATT 91). The ventilation of the glass seat, as required by current legislation, to facilitate the elimination of any condensation, is guaranteed by the distance between wood and aluminum. The squaring and profiling are made for an air hardware system 12. Standard French window has two cross pieces lower.

### **Panels**

The panels are made of veneered MDF waterproof essence request and insulated. All the panels can be replaced with the glasses. The standard aluminum panels are smooth, on request it is possible to have them embossed. The subdivision of panels in all models can be varied and customized by adding one or two vertical uprights and/or horizontal crossbars.

### **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.

escape routes certified entrance door

---

**Current supply:** crash bar; "3 wings" hinges, maximum 125 kg per leaf; gray cover hinges; in case of two leafs on the semi-fixed leaf do not insert the bolts, it is the mechanism of the crash bar that blocks the entrance door.

The front door with frame measuring L 900x2200 H mm, one sash, with insulated panels features these properties:

<b>Wind-resistance</b>	NPD	UNI EN 12210
<b>Water-tightness</b>	NPD	UNI EN 12208
<b>Air-permeability</b>	1 class	UNI EN 12207
<b>Thermal transmittance value</b>	Uw=1,4 (panel Up=1,14)	UNI EN 10077-1 e 2