

## INSTALLATION AREA

Ninz products are typically used for internal compartmentalization and have been designed for this purpose. For this reason, they must be stored and installed sheltered from direct contact of atmospheric agents, sunlight and UV emitting artificial lightning.

In cases where a product is installed for external use, in order to avoid deteriorations over time, it is mandatory to take some precautions, in particular:

- ▶ select a painting suitable for exterior use
- ▶ select fire-rated glass suitable for exterior use
- ▶ canopies or roofing above installed products.

Only in this way it is possible to avoid any water seeping inside the goods and/or any warping of metal parts, especially in case of darker colors.

For products that incorporate REI or EI fire-rated glass, regardless of whether they are suitable for exterior use, it is further necessary to consider that in any moment (during stocking, handling, transport, installation, use after installation):

- ▶ fire-rated glass remains stable in the range of temperature between -40°C and +50°C; exceeding this limit, the fire-resistant interlayer of the glass reacts and begins to become opaque over the whole surface. Therefore, it is necessary to avoid the installation near any heat source greater than 50°C and/or any lighting that may generate UV radiation
- ▶ exposure to high level of humidity may cause seeps inside of the layers, thus generating a dissolution of the interlayer. Therefore, it is necessary to avoid the installation in areas with high level of humidity.

It is not advisable to use the anti-panic bars EXUS LA or SLASH ALU for marine environments or in particularly humid areas. For these situations the use of the anti-panic bars EXUS LX or SLASH S.S. is recommended.

Buyers should be aware that, pursuant to and in accordance with European legislation, all doors used for emergency exits or escape routes must have a minimum height of 2000 mm.

All products must be installed onto supporting walls which are perfectly vertical, well aligned and onto levelled flooring. In order to not hinder the self-closing of fire-rated doors it is moreover important that the installation area is not subject to strong air currents. The installation can be considered conform only with prior verification that the walls are in good conditions.

Related to the weight of the products, it is moreover necessary to consider preventively:

- ▶ to verify the resistance, the load bearing capacity and the fastening suitability of the walls, divisions, structures and/or crossbeams related to the installation;
- ▶ that the end-user may face difficulties operating the doors, especially people with reduced mobility (disabled, seniors, in poor health, etc.). It is important to take this factor into consideration, therefore while planning the use of products and/or to always hold the leaves open by means of electromagnets.

The protrusion of accessories (for ex. handles, door closers, etc.), in case of interference with walls or other compartmentations, could compromise the opening of the leaf and/or create damages. To avoid that, buyers shall provide appropriate indents in the walls and in any case the installation of appropriate door stoppers.

For the automatic closing of doors exposed to strong winds, the use of a door closer with a higher closing force is recommended.

## **INSTALLATION, USE AND MAINTENANCE**

Installation of all Ninz products must be performed by specialized technicians only, using all supplied and described components, strictly in accordance with the installation, use and maintenance handbook or with the installation instructions supplied by Ninz with the products.

Any installation modifications allowed for door and/or accessories are only those that are indicated in the installation, use and maintenance handbook, which contains also the list of elements that have been tested and approved for use.

For maintenance and/or repair of Ninz products use original spare parts only listed in the installation instructions and also in price list.

The above-mentioned notices are of basic importance in order to provide a high level of safety for humans and goods and to be compliant with the relevant norms.

## **GLAZED FIRE-RATED PRODUCTS**

REI or EI fire-rated glazed panels are submitted to rigorous quality controls during every stage of the production process. Minor optical imperfections or tiny air bubbles may be present due to the specific manufacturing process of fire-rated glass. This does not compromise the fire resistance of the glass and does not constitute ground for claims.

For purpose of better handling, transport and installation, to guarantee the integrity of glazings, fixed elements, in cases indicated by the manufacturer, will be built with more than one window panel.

The glasses for the fixed elements of the glazed doors are delivered non-assembled. Please contact the responsible commercial department should any tears of the protection tape on the perimeter of glass be detected during handling, storage or installation.

The REI or EI fire-rated glazed panes need to be stored in vertical position, as reported in the "Handling and storage instructions". Panes of fire-rated glass should never be leaned upon their corners, nor should concentrated pressure be applied to a single point of fire-rated glass. The protection tape on the borders is an integral part of the final product: it shall not be removed, altered and after installation it shall be fully covered by the silicon strip sealing off the fixing profiles. Fire-rated panes may be handled using glazier's suction pads.

Deformations, degradation, which may be in some cases irreversible, till breaking point of the layers, could arise in case of missed observance of these instructions.