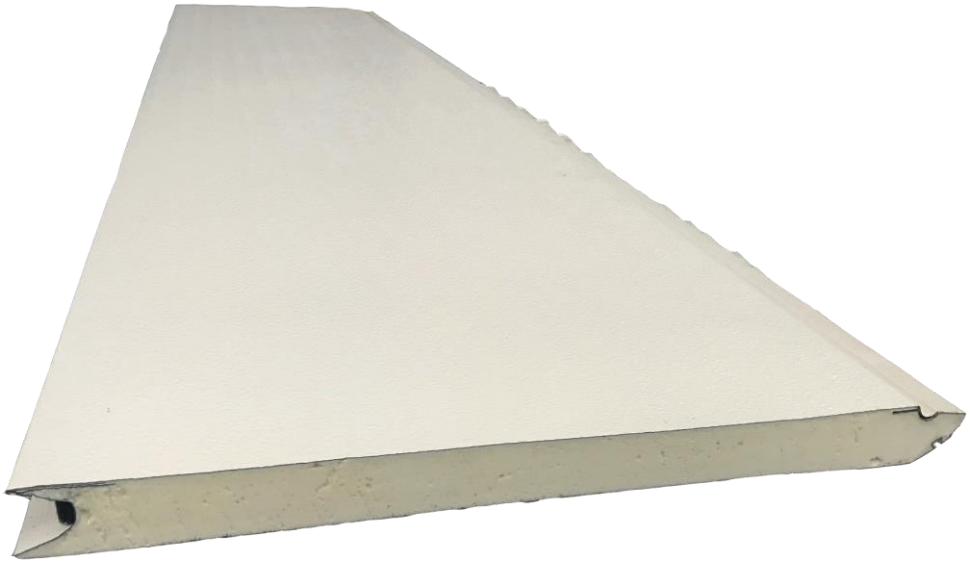
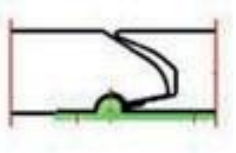
Product Data Sheet

Panel for Residential Sectional Doors “Monocasco”- PRM



Type PRMU 500



Type PRMV

This product meets the requirements of Regulation (EU) No 305/2011 of the European Parliament and of the Council laying down harmonized conditions for the marketing of construction products and complies with Annex ZA of Standard EN 14509:2013.

Designation: Isothermal Panel for Sectional Doors.

Description It consists of two profiled steel sheets interconnected by rigid polyurethane foam insulation (PUR B3, PUR B2) or polyisocyanurate (PIR) to form a panel with a useful width of 500 mm or 610 mm. It fits laterally with other panels to cover a surface. It has reinforcements for fixing

Dimensions

Thickness:

- 40 mm for reference PRMV ou PRMU
- Measurements according to reference
- .A tolerance of +/- 2 mm

Useful width:

- 500 mm and 610 mm
A tolerance of +/- 2 mm

Length:

According to customer request up to a limit of 13,500 mm:
A tolerance of +/- 10 mm is allowed

References:

Panel for Residential Sectional Doors PRMV (V-channel) or PRMU (U-channel):

PRM 500/610 - 40 MS, Panel for residential sectional doors 40 mm thick Modular Stucco PRM 500/610 - 40 MW, Panel for residential sectional doors 40 mm thick Modular Woodgrain PRM 500/610 - 40 ML, Panel for residential sectional doors 40 mm thick Modular Smooth
PRM 500/610 - 40 SL, Panel for residential sectional doors 40 mm thick Semi-Smooth PRM 500/610 - 40 TL, Panel for residential sectional doors 40 mm thick Full-Smooth

Base materials:

- Rolled steel (minimum S220GD; EN 508), galvanized (EN 10346) and pre-painted (EN 10143)
- Rolled, pre-treated and lacquered aluminum alloy (EN 485-2, EN1396) On request

Note: sheet thickness subject to consultation.

Metal support:

- *Standard: primer 5 µm + polyester paint 20 µm*
- For special applications: PVDF, HDX, PVC (suitable for the food industry) On request

Coating

- Rigid polyurethane foam – PUR B3, no reaction to fire class
- Rigid polyurethane foam – PUR B2, with a reaction to fire class of B s2 d0
- Rigid polyisocyanurate foam – PIR, with a reaction to fire class of B s1 d0

Insulating core:

- Average density: 40 kg/m³ ± 10%
- Thermal conductivity λ= 0.025 W/m.K
- Foam free of CFC's

Adhesion (tensile strength on the support) > 0.018 MPa
Compressive strength for 10% deformation > 0.100 MPa

Mechanical characteristics

Characteristics:

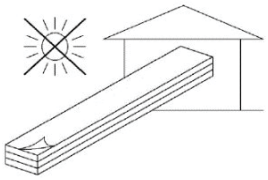
Reference	PR 500-40 MS/MW Thickness 0,5/0,4mm	PR 610-40 MS/MW Thickness 0,5/0,4mm	PR 500-40 ML/ SL/TL Thickness 0,6/0,4 mm	PR 610-40 ML/ SL/TL Thickness 0,6/0,4 mm
Peso Painel* Kg/m²	8.96	8.91	9.91	9.83

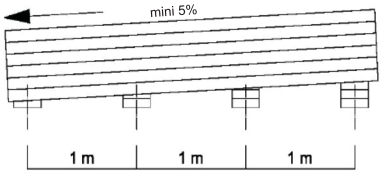
* Approximate weight

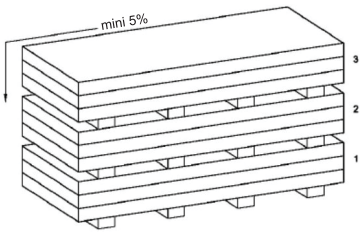
Thermal transmission W/m².K	Panel thickness (mm)
	40
PRM 500	0.86
PRM 610	0.81

Other recommendations:

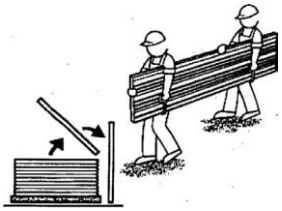
1. **Storage:**

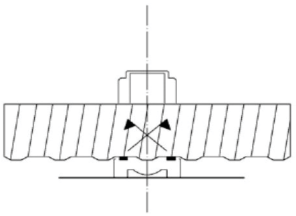


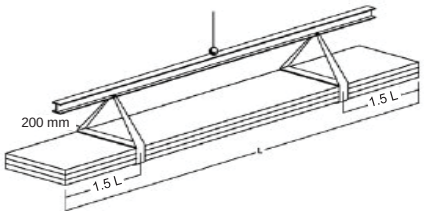


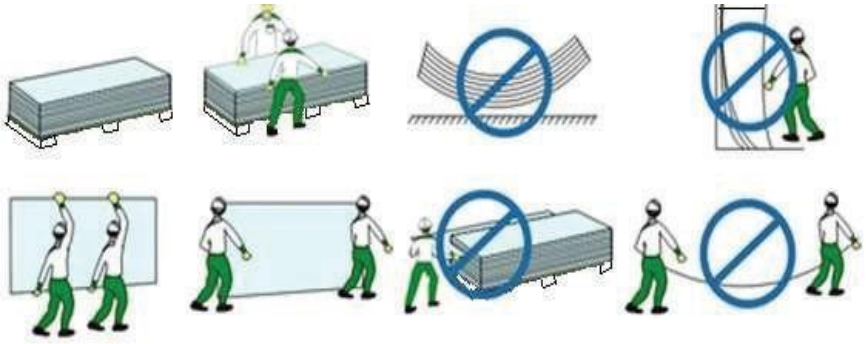


2. Panel application









3. Environmental recommendations

The isothermal panel is a product made up of two different materials: metal and polyurethane foam.

Due to the absence of really dangerous or toxic additives encapsulated in the polyurethane polymer, the foam is considered an inert material, posing no risk to the environment.

At the end of the product's life, its components must be separated:

- The sheet metal should be sent as scrap with the respective **LER code 20 01 40**.
- The polyurethane should be disposed of as waste insulation material whose **Código LER 12 01 99**.
- The packaging used to pack the batch of Panels is all made of plastic materials such as stretch film and styrofoam, this packaging waste should be sent with the code **LER 15 01 02**.