

F 140

Roller shutter made of:

a) pre-painted aluminum panel, 0.6mm thick and 140mm wide or

b) galvanized steel, 0.5mm thick and 140mm wide.

The interior consists of ecological polyurethane, density 160 kg/m² and thermal resistance rate 3,7 W/(m²·K).

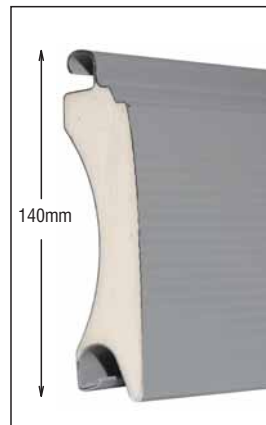
It combines high strength and security standards, low noise during operation, thermal insulation, sound insulation and perfect finishing.

Type F 140 is delivered electrostatically painted in the shades of the main color index.

Ideal for oversized openings in industrial spaces and warehouses.

Certified for wind pressure strength for dimensions 12m x 12m (Class 2 according to UNI EN 12424).

PROFILE A:
ALUMINUM
DIMENSION:
140mm
THICKNESS:
0,6mm



PROFILE B:
STEEL
DIMENSION:
140mm
THICKNESS:
0,5mm

The last profile (endplate) consists of a specially reinforced aluminum profile fitted with a special PVC strip for enhanced sealing.



Special polyamide cap at profile ends that reduces friction and noise.



Specially designed hinge for noise-free operation and higher resistance to wind pressure.



Guides made of 1,5 - 2mm thick, "Ω" shaped galvanized steel with an aluminum profile brush strip. Also fitted with split PVC scroll that facilitates smooth and noise-free movement of the roller shutter and protection against friction.



Ειδικό αντι ανέμο για μέγιστη αντοχή στην ανεμοπίεση.

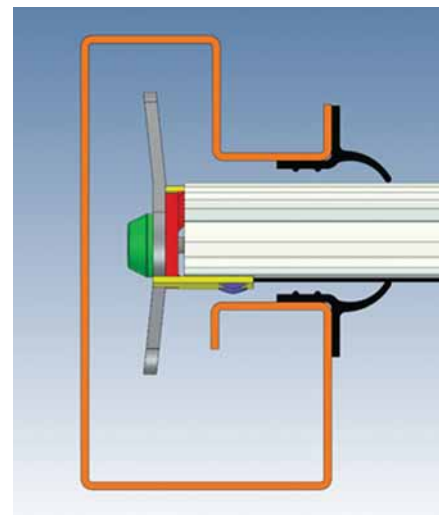


WIND RESISTANT ROLLER SHUTTER SYSTEM F140

The wind resistant roller shutter system consists of the specially designed hooks attached to the sides of the roller shutter's curtain, the Nylon spacers that smoothen winding and the specially designed guides that meet the needs of the overall system.

The advantages of this application are:

- High strength of the roller shutter to bidirectional wind pressure.
- Low noise during motion.
- Low friction.
- Minimization of roller shutter curtain jamming on the guide rails.
- Ability to use very fast motors for large-size roller shutters.
- Ease of installation.
- Better aesthetic result.



The wind resistant hook (1) is shown in **Figure 2**. It consists of two lateral flaps (4) and a central flap (5). It is installed with special rivets of particularly high strength (7) onto the roller shutter's curtain so as to be able to withstand high wind pressure.

The nylon spacers (6) are installed on the body of the wind resistant hook. In case of non-straight movement of the roller shutter, the spacers are the first to contact the guides thus smoothening the winding process.

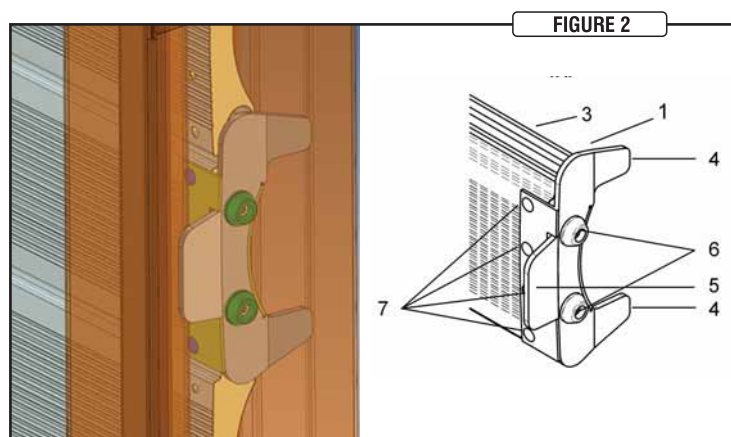
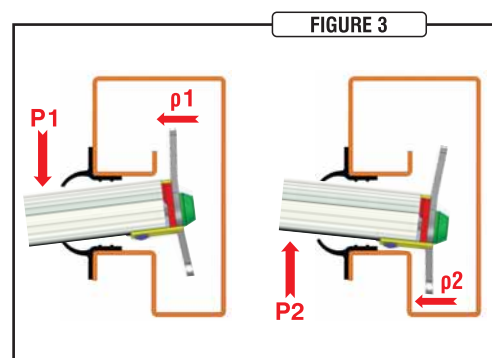


Figure 3 illustrates the wind resistant behavior of the roller shutter's curtain. When the wind flows in the direction illustrated as P1, the wind resistant hook's flap moves in the direction ρ_1 retaining the roller shutter's curtain in place.

Correspondingly, when the wind blows in the direction P2, the wind resistant hook's flap moves in the direction ρ_2 .

This ensures the bidirectional wind protection of the roller shutter.

The new, innovative wind protection system offers excellent resistance to negative and positive pressure and it has already been certified as a CLASS 2 product according to UNI EN 12424 under pressure equal to 450 Pa.



TECHNICALS INFORMATIONS FOR F 140

MATERIALS	ALUMINIUM	STEEL
FINISH	PREPAINTED PAINTED	GALVANIZED PAINTED
PROFILE HIGHT	144 mm	144 mm
PROFILE STEP	123 mm	123 mm
W EIGHT	1,07 kg/m • 8,60 kg/m ²	2,04 kg/m • 16,33 kg/m ²
MAX.DIMENSION	12000 mm X 12000 mm	12000 mm X 12000 mm
WIND RESISTANCE	5 X 5 - CLASS 4 7,5 X 7,5 - CLASS 3 12 X 12 - CLASS 2* According to the UNI EN 12424 *With Wind Hooks	5 X 5 - CLASS 4 7,5 X 7,5 - CLASS 3 12 X 12 - CLASS 2* According to the UNI EN 12424 *With Wind Hooks
THERMAL RESISTANCE	5,00 W/(m ² ·K)	3,70 W/(m ² ·K)

PREPAINTED COLOR

						
RAL 3003 Ruby red	RAL 5010 Gentian blue	RAL 6005 Moss green	RAL 8014 Sepia brown	RAL 9002 Grey white	RAL 9006 White aluminium	RAL 9007 Grey aluminium

PAINTED COLOR

						
RAL 1013 Oyster white	RAL 1015 Light ivory	RAL 3002 Carmine red	RAL 5007 Brillant blue	RAL 5010 Gentian blue	RAL 6005 Moss green	RAL 6009 Fir green
						
RAL 6011 Reseda green	RAL 7005 Mouse grey	RAL 7011 Iron grey	RAL 7012 Basalt grey	RAL 7015 Slate grey	RAL 7030 Stone grey	RAL 7035 Light grey
						
RAL 7037 Dusty grey	RAL 7038 Agate grey	RAL 7039 Quartz grey	RAL 7040 Window grey	RAL 7042 Traffic grey A	RAL 7044 Silk grey	RAL 8007 Fawn brown
						
RAL 8011 Nut brown	RAL 8014 Sepia brown	RAL 9002 Grey white	RAL 9005 Jet black	RAL 9006 White aluminium	RAL 9007 Grey aluminium	RAL 9016 White

*A. GEROLIMATOS S.A. RESERVES THE RIGHT TO CHANGE THE MAIN COLOR INDEX.
*SHADE ILLUSTRATION IS INDICATIVE.