

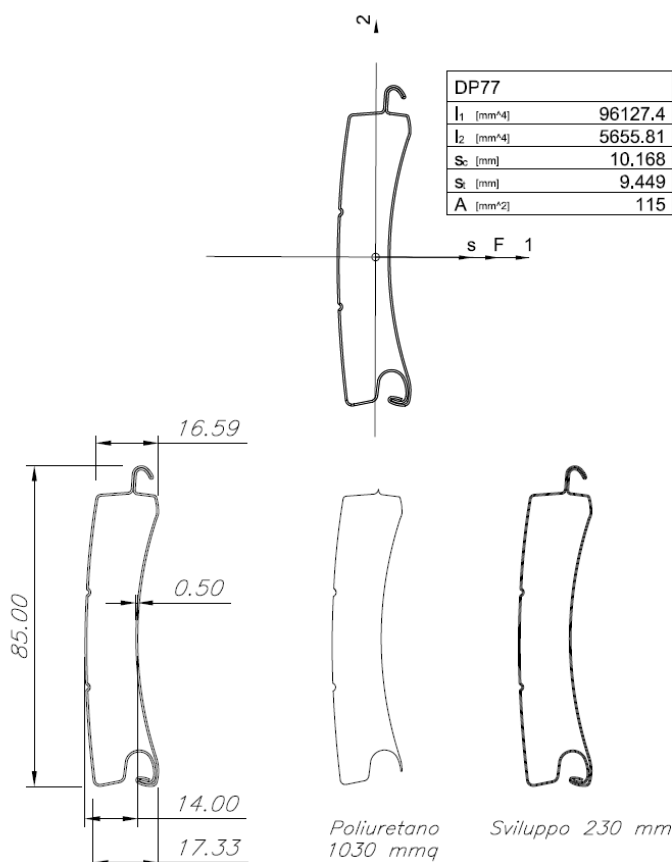
# MASINARA

ACCESSORIES FOR ROLLING SHUTTERS SINCE 1971

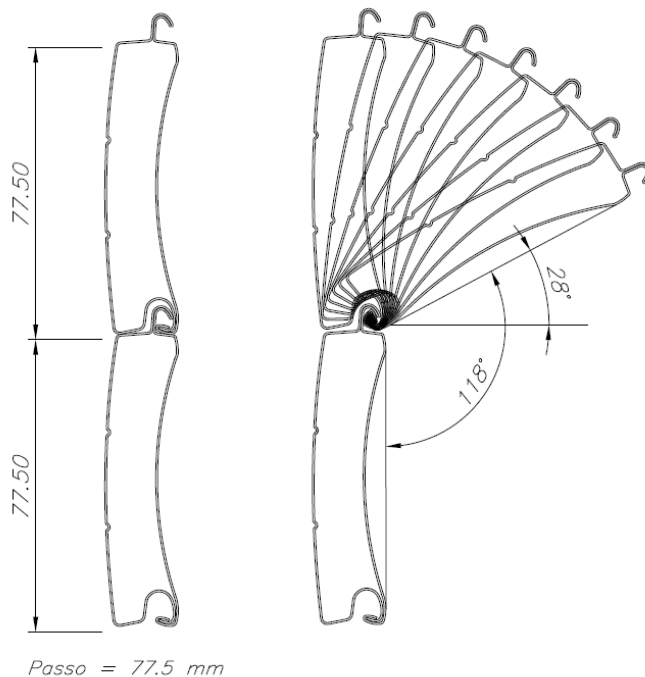
## Components for HIGH PERFORMANCE ROLLING SHUTTER

MASINARA offers innovative solutions for high performance rolling shutters

### SLAT MODEL: P77 ALUMINIUM INSULATED SLAT



PESI TEORICI  
ACCIAIO 5/10 = 0.986 kg/m - 12.723 kg/mq  
ALLUMINIO 5/10 = 0.393 kg/m - 5.071 kg/mq



# MASINARA

ACCESSORIES FOR ROLLING SHUTTERS SINCE 1971

Main characteristics:

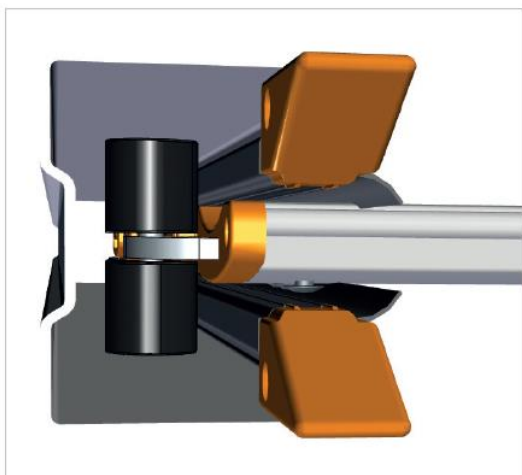
- Resistance and mechanical stability: **50.000 cycles test**
- **Wind load resistance: Class 4 (133km/hr wind load)** up to 7mt width (EN 12424)
- **Thermal transmittance** Steel slat = 4.4 W/m<sup>2</sup> °K - complete door = 4.8 W/m<sup>2</sup> °K  
Aluminium slat = 5.3 W/m<sup>2</sup> °K - complete door = 6.6 W/m<sup>2</sup> °K
- **Air proof:** Class 2 according to EN 12426 (all door edges protected by gaskets)
- **Safe opening:** compliant with EN 12453 (double system: safety edge + wall photocells)
- **Visibility:** Optional polycarbonate panel 100x50mm
- **Anti-scratch:** pre-painted coating with pvc protection in any RAL colour



# MASINARA

ACCESSORIES FOR ROLLING SHUTTERS SINCE 1971

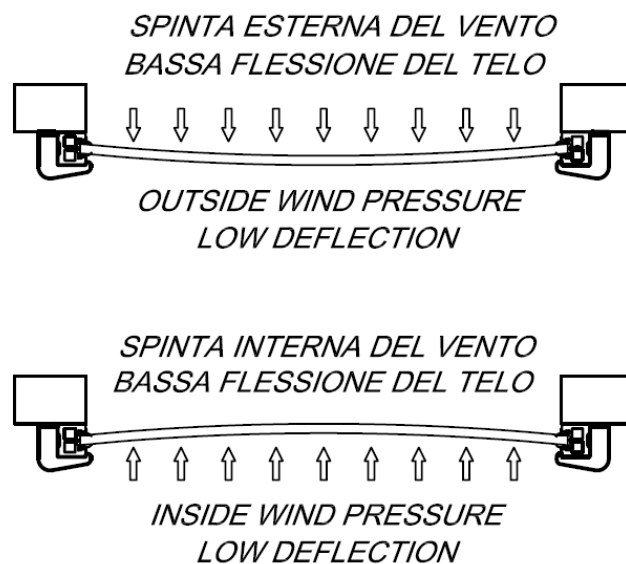
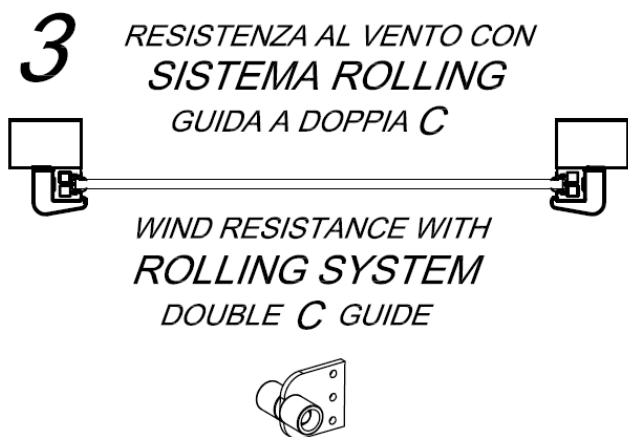
## WIND LOCK SYSTEM "ROLLING"



The rolling system represents a new concept for the protection against the wind pressure. This system is based on the innovative steel wind lock with **double nylon wheels** that allows to operate the door during the wind pressure.

### Resistance

Strong wind load resistance on both sides internal/external of the rolling shutter



### Performance

Better sliding in the side rails with less friction and noise

### Tested and certified

by German institute TUV NORD

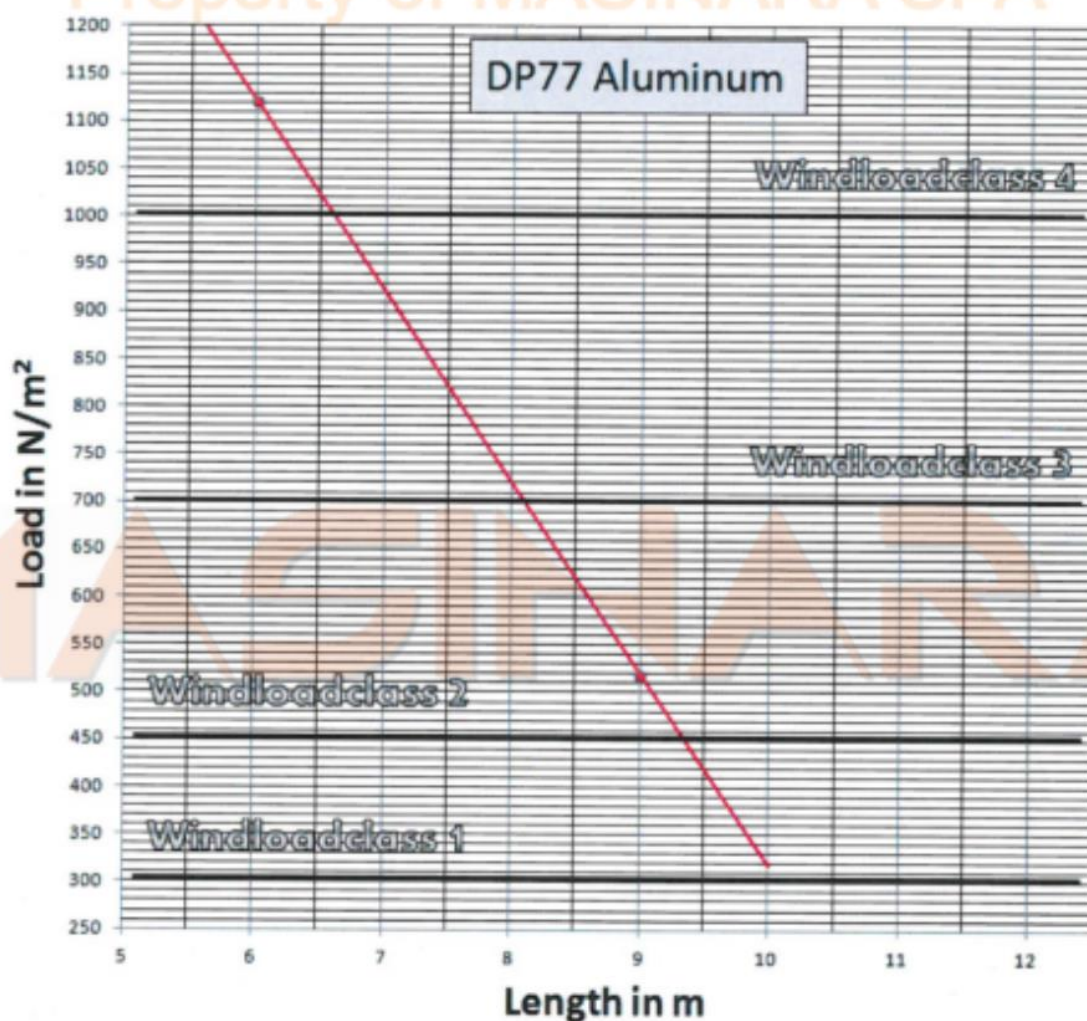
### Patented

## Resistance to wind load according the door width



Technical report no. 16 795 66511 003 dated 02.02.2017  
Seite 8 von 9

Taking into account the results of the tests for a profile length of 6 m (s. test report 15 795 446334; dated 26.05.2015), the wind load classes for the intermediate profile lengths can be read off by using the diagram below.



Max. Wind load class according to EN 12424: 2000	Max. Wind force according to Beaufort scale	Windspeed in km/h
Class 0 (<300 N/m <sup>2</sup> )	up to Class 8	< 75
Class 1 (300 N/m <sup>2</sup> )	Class 9	75 - 88
Class 2 (450 N/m <sup>2</sup> )	Class 10	89 - 102
Class 3 (700 N/m <sup>2</sup> )	Class 11	103 - 117
Class 4 (1000 N/m <sup>2</sup> )	Class 12	118 - 133

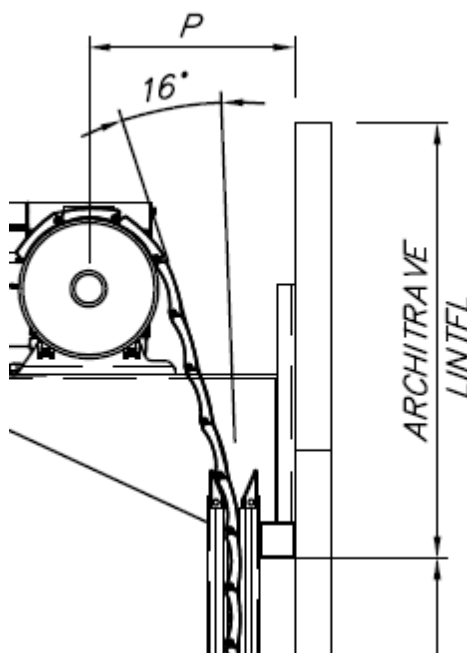
## SHAFT SLIDING SYSTEM



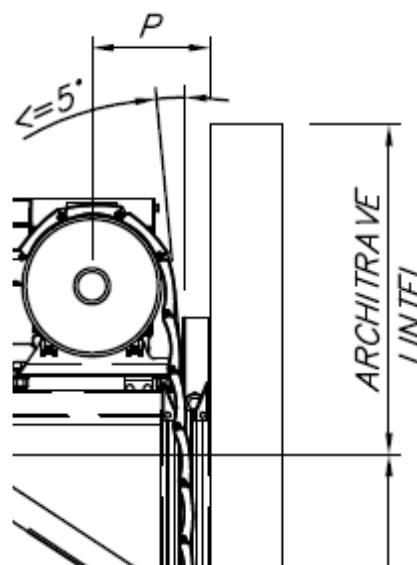
Designed and developed for rolling shutter with tubular motor the Sliding carriage System allows the barrel to slide horizontally pushed by the rolling and unrolling movement of the curtain when the shutter is in operation.

The barrel moves towards the lintel on closing and away from the lintel on opening in order to allow **the curtain to move precisely into the side guides always from a perfect vertical position.**

Standard fixed shaft  
*Curtain in diagonal position and higher lintel*



Sliding shaft  
*Curtain in vertical position and lower lintel*



Without a shaft sliding system the result is a flection of the curtain when the door is in closed position

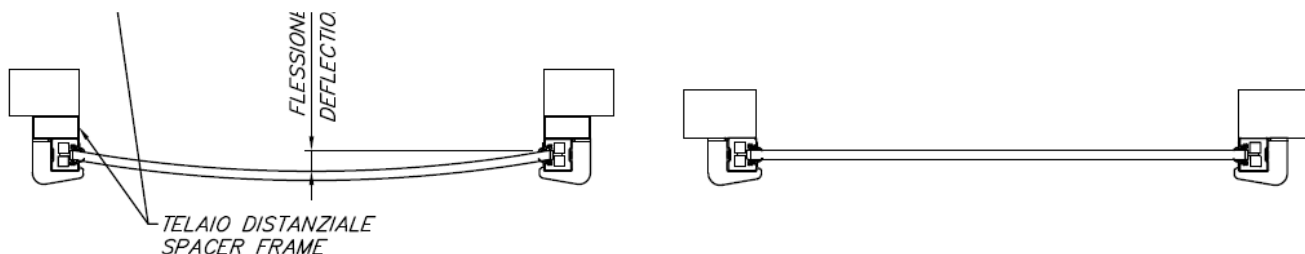
# MASINARA

ACCESSORIES FOR ROLLING SHUTTERS SINCE 1971

and, consequently, a gap in the centre of the lintel area.

Standard fixed shaft  
Gap from the curtain and the lintel

Sliding shaft  
No gap and no deflection of the curtain

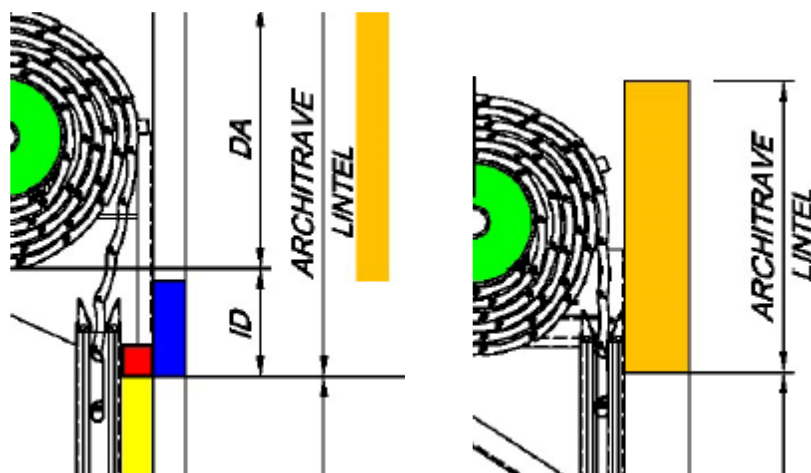


Without the sliding system the door faces many problems of friction and noise that can be solved:

- by increasing the headroom in order to install the barrel in higher position (in blue)
- by installing a steel frame (in yellow) in order to cover the gap between the curtain and the lintel.

Standard fixed shaft  
Steel frame required from wall to rail (in yellow)

Sliding shaft  
No steel frame



With the sliding system many benefits are reached:

- **Less headroom required**
- No gap between the lintel and the curtain (**no flecion of the curtain in closed position**)
- No need for steel frame because **the gap between lintel and curtain is the closest**
- **Reduced friction** thanks to the correct vertical position of the curtain entering into the guides
- **Reduced noise** from the shutter operation

## FULL GASKET RANGE

**MASINARA S.p.A.** Via Einstein 8 - Loc. Monteveglio 40053 Valsamoggia [Bologna] Italy  
Tel. +39 051 969090 - Fax +39 051 969383 - info@masinara.com - www.masinara.com  
Capitale Sociale € 300.000 i.v. Registro Imprese BO - Partita IVA e Codice Fiscale 02384871204

# MASINARA

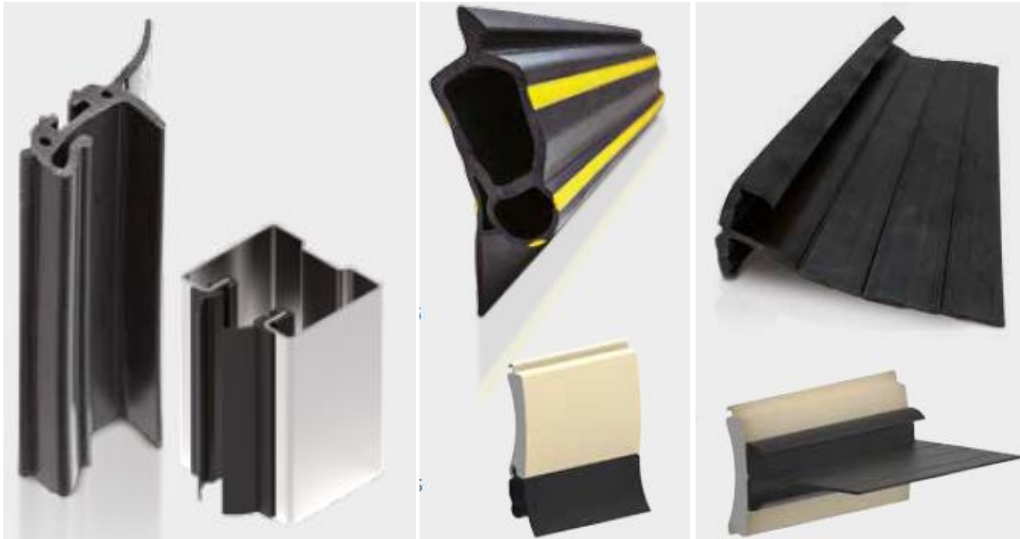
ACCESSORIES FOR ROLLING SHUTTERS SINCE 1971

The door is protected from water, dust and sand in all the opening side

Gasket for side rail

Gasket for bottom slat

Gasket for lintel



The gasket for bottom slat is compatible with optical sensor and may be used also as a Safety Edge.

The gasket for lintel is fixed by screw or rivet and mounted on the curtain (not on the wall) inside the lintel.

This solution is different from standard installations where the gasket is fixed on the wall, not on the curtain, and the curtain becomes marked by the gasket when the door is rolling.

## FULL SAFETY SOLUTIONS

Light barrier (optional)

Wall photocells

Safety edge connected by radio or by spiral cable

