

## TUBULAR ROLL UP SHUTTER TUBONDA – SIMPLE AND REINFORCED

### Description

Shutter with a waved-shaped mesh Tubonda. Composed by 2 waved tubes  $\varnothing 14$ , shaped in order to compose rhombuses linked together with galvanized ribbed bands. In the reinforced Tubonda a third straight tube is interposed between the 2 waved tubes.

Vertical sliding with upper roll up.

Bottom slat height 485 mm, made of 3 blank slats + the bottom slat with handle and gasket stops.

On the top there are 2 or 3 blank slats for the roll up of the shaft.

It can be used as an insert for ventilation in blank shutters P.115.

Conform to UNI EN 13241-1 **CE**

The shutters exposed to the wind, for instance in case of façade installation, must have the Class 2 conforming with the EN 12424.

### Caratteristiche and material

Tube		$\varnothing 14 \times 1,2$	$\varnothing 14 \times 1,5$	$\varnothing 14 \times 1,2$
Material		Galvanized steel	Aluminium	Stainless steel AISI 304
Weight – Tubonda Simple	[kg/m <sup>2</sup> ]	11,00	3,60	11,00
Weight – Reinforced Tubonda	[kg/m <sup>2</sup> ]	16,00	4,80	16,00
Max. Width	[m]	9,00	9,00	4,00
Spaces of use		Shops - various		

### Dimensions

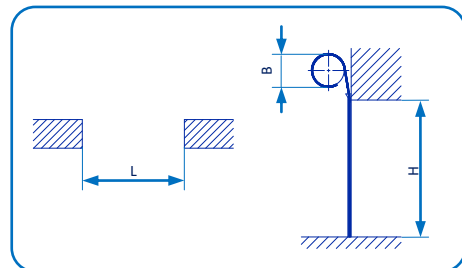
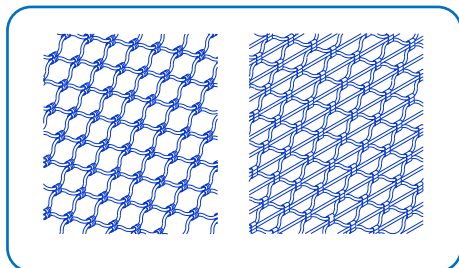
The values are approximates. For specific details contact our Technical Department.

In case of rotating shaft the minimum vertical space is 500 mm (motor + supports).

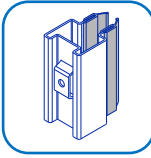
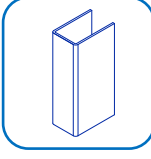
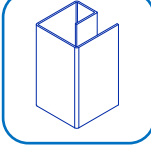
In the case of shutter with spring holder or octagonal shaft D.70 look at the following chart.; for values of dimensions related to other materials, please contact our Technical Department.

H Height	B – Roll Diameter																					
	Spring shaft										Octagonal Shaft D. 70 With adaptor D. 133											
5000	380	380	380	380	400	400	400	400	-	-	-	-	-	-	350	350	-	-	-	-	-	-
4500	370	370	370	370	395	395	395	395	395	-	-	-	-	-	340	340	-	-	-	-	-	-
4000	360	360	360	360	360	380	380	380	380	380	380	-	-	-	330	330	330	-	-	-	-	-
3500	340	340	340	340	340	340	365	365	365	365	365	375	375	-	300	300	300	300	-	-	-	-
3000	320	320	320	320	320	320	350	350	350	350	350	350	350	370	280	280	280	280	-	-	-	-
2500	310	310	310	310	310	310	335	335	335	335	335	335	335	335	270	270	270	270	270	-	-	-
2000	280	280	280	280	280	280	320	320	320	320	320	320	320	320	250	250	250	250	250	250	-	-
	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	6750	7000	7500	1500	2000	2500	3000	3500	4000	4500	5000

L – Width of the opening



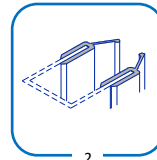
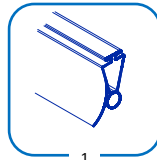
## Sliding guides

<p>Molded guide 60x50 in galvanized steel, thickness 2,0mm With gasket for installation within and behind the opening</p>	
<p>U profiled guides in galvanized steel thickness 1,5 mm - 40 x 22 x 40 width up to 2500 mm - 40 x 25 x 40 width up to 4400 mm - 50 x 25 x 50 width up to 5600 mm - 70 x 27 x 70 width up to 7500 mm</p>	
<p>G profiled guides in galvanized steel thickness 2,0 mm - 60 x 60 – 80 x 60 – 80 x 80 – 100 x 80 - for shutters having a winding diameter higher than 450 mm - for installation behind the opening</p>	

## Accessories

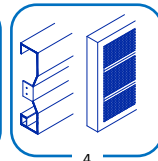
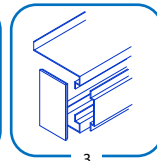
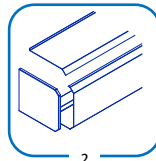
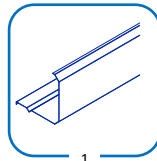
### Anti-noise system

1. Rubber Gasket applied to the bottom slat
2. Gasket in PVC



### Top and Lid

1. Front panel
2. Carter composed by front panel, front upper and pair carter clips
3. Carter with removable front panel
4. External lid in galvanized sheet or composed by micro-perforated/blank elements P.115



### Automation

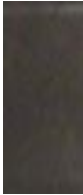
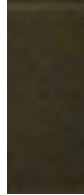

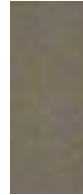
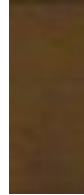



1. Manual operation for shaft with spring  
Round shaft  $\varnothing$  48 – 60 – 76 – 89 – 101
2. Manual operation with torsional spring  
Octagonal shaft L. 70 – 102
3. Axial motor for shaft with spring  
Round shaft  $\varnothing$  48 – 60 – 76 – 89 – 101
4. Tubular motor  
Octagonal shaft L. 70
5. Side motor  
Round shaft  $\varnothing$  193 – 219 – 244 – 273 – 323 – 406
6. Forza motor  
Octagonal shaft L. 70 – 102



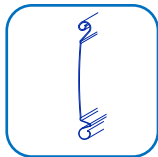
## Finishing

Verniciatura a fuoco RAL Standard					
1000	Beige verde	7004	Grigio segnale F14	8017	Marrone cioccolato
1001	Beige	7016	Grigio antracite	8019	Marrone grigio
1013	Bianco Perla	7021	Grigio scuro	8024	Marrone beige
1015	Avorio chiaro	7024	Grigio grafite	9001	Bianco crema
6005	Verde muschio	7040	Grigio finestra	9002	Bianco grigio
6009	Verde abete	7046	Grigio Tel. 2	9005	Nero profondo
6015	Oliva scuro	7047	Grigio Tel. 4	9010	Bianco puro
6019	Verde bianco	8004	Marrone rame	9011	Nero grafite
6023	Verde montana	8011	Marrone noce	9016	Bianco traffico
7000	Grigio vaio	8014	Marrone seppia		
7001	Grigio argento	8016	Marrone mogano		

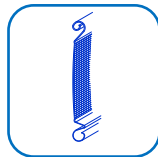
Verniciatura a fuoco Speciali	
RAL 9006	Grey Arsonsisi
Yellow / Red/ Blu	Metallic black
White: Marble (smooth) – Ancient marble (rough)	Black/Brown. Sandy (rough)
Grey: Marble (smooth) - Ancient marble (rough)	Sandy 900
Brown: Marble (smooth) – Ancient Marble (rough)	Gunmetal
Green: Marble (smooth) – Ancient Marble (rough)	Gold for external use
Red: Marble (smooth)	Hammered brown for external use

Oxidation for aliminium shutter											
											
F01	F02	F03	F04	F05	F06	F07	F08	F09	F10	F11	F12

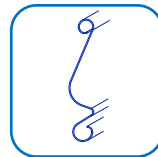
## The complete range of rolling shutter



Blank P.115



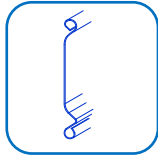
Micro-perforated P.115



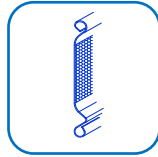
Blank P.97



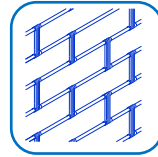
Micro-perforated P.97



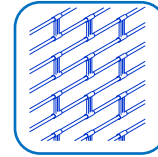
Blank P.73



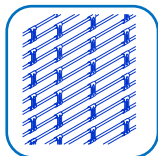
Micro-perforated P.73



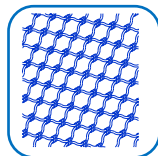
Tubular P.120



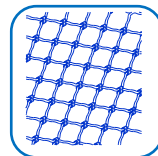
Tubular P.95



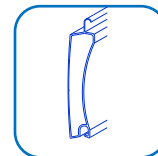
Tubular P.60



Tubonda



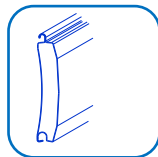
Tondino



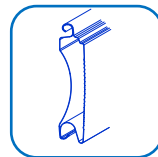
Insulated DP.77



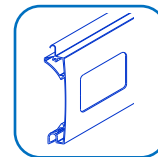
Insulated DP.105



Insulated F.100



Insulated F.140



Windowed



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