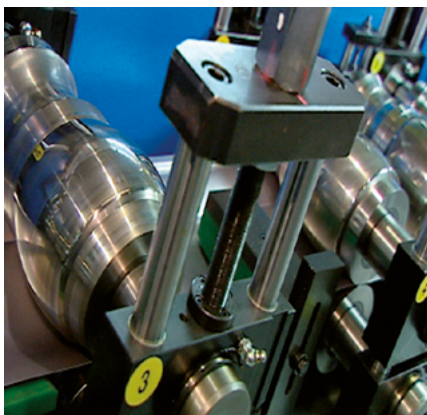


# THE SAFETY shutter

From pre-sales and after-sales assistance to technical, commercial and marketing consultancy, from the widespread distribution network to the continuous training courses, Croci takes care of every detail to always guarantee high levels of professionalism.



The company works with a constant attention to quality at all times, from the choice of the best suppliers of raw materials to the monitoring during processing, up to the total guarantee of 5 years and 3 insurance on products in the post-sale phase: a winning formula to give you and your customers the maximum reliability.



# WORLD CLASS ROLLING SHUTTERS



# ITALIAN STYLE





 **Croci**®





**A SHUTTER WORLD**

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## ROLLING SHUTTERS

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## INFO

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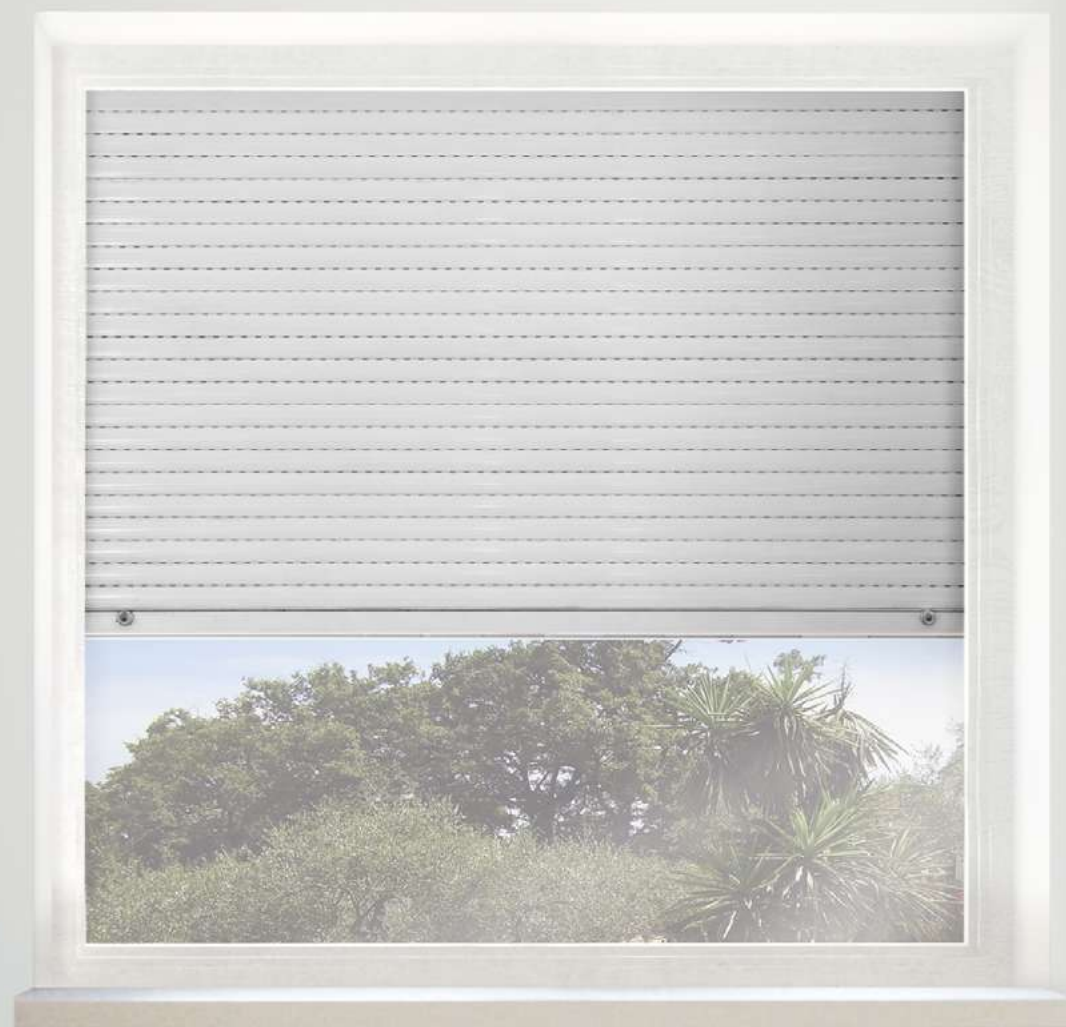
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ROLLING  
SHUTTERS



**ROLLING SHUTTERS**



Rolling shutters filter the external light, ensure your privacy and increase the tranquillity and the comfort of your house. They are the best solution to live in harmony with the environment and the most common and advantageous means of home closure.

Crosi rolling shutters combine all the pleasing aspects of living at home: from safety to comfort, quietness, aesthetics and energy saving. They also guarantee a high ease of use, both in everyday life and during installation and maintenance.

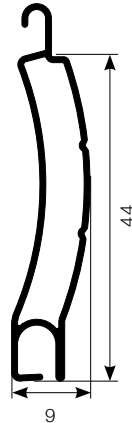


# SAR-117

# ROLLING SHUTTERS

TAP SECURITY

ALUMINUM PROFILE WITH HIGH DENSITY FOAM



## TECHNICAL DATA

Weight per lm: 0,162 kg approx.

Weight per sqm: 3,70 kg approx.

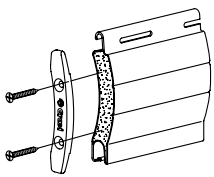
Profiles per sqm: 22,70

Max sizes: Max width: 3,70m

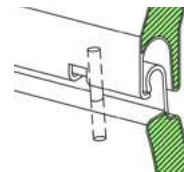
Max height: 3,50m Max surface: 9,50sqm

Standard packing: 30 slats 6,5lm

## ROLLING SHUTTERS



Assembled rolling shutter (punched) with junction spring, conic stoppers and side plugs (TLSAR117C), standard aluminum end slat TE7x56



Variation: assembled with nails

## ROLL DIAMETER

### SHUTTER HEIGHT (mm) - with junction spring 5001

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3500
ROLL TUBE 40MM	135	150	165	180	185	199	205	219	219	230
ROLL TUBE 60MM	145	159	169	175	189	195	205	209	225	225
ROLL TUBE 70MM	155	169	169	185	191	199	215	215	225	229

### SHUTTER HEIGHT (mm) - with anti-lifting system SEC

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3500
ROLL TUBE 40MM	155	175	175	185	205	205	225	225	235	235
ROLL TUBE 60MM	165	171	185	195	205	221	225	229	235	235
ROLL TUBE 70MM	160	173	189	189	207	207	219	219	233	233

## OPENING HEIGHT FOR SHUTTERBOX UNIBOX

### SHUTTERBOX SIZE JUNCTION SPRING 5001\*

	137	150	165	180	205	230
ROLL TUBE 40MM	1100	1450	1800	2240	3000	3500
ROLL TUBE 60MM	830	1230	1710	2110	3000	3500



\*SHUTTERBOX APPLICATION 5



## WIND RESISTANCE CLASS

GUIDE RAIL	ROLLING SHUTTER FINISHED WIDTH (mm) - with side plugs								
	3700	3400	3100	2800	2500	2200	1900	1600	1300
TYPE A	1	2	2	3	3	4	5	6	6
TYPE B	1	2	2	3	3	4	5	6	6

## SUITABLE GUIDE RAILS (PAGE 34- PAGE 72)

TO BE USED WITH STANDARD PVC GASKET/BRUSH (GG35NOR -SP35NOR)

TYPE A Standard system: GE26X21 - GE28X17 (for replacement) - Shutterbox UNIBOX : GE53X21 - GE53X21A - GE53X28R

TYPE B Standard system: GE35X21 - GE40X21 - Shutterbox UNIBOX: GE62X21

## SUITABLE END SLATS (PAGE 30)

TE7X56 Extruded aluminum end slat 7,5x56mm

TE7X56U Extruded aluminum end slat inside/outside rolling 7,5x56mm

LIF4307 Extruded aluminum end slat 7,5x43mm

## SUITABLE SECURITY ACCESSORIES (PAGE 45)

SEC40 Anti-lifting security system for roll tube 40mm

SEC60 Anti-lifting security system for roll tube 60mm

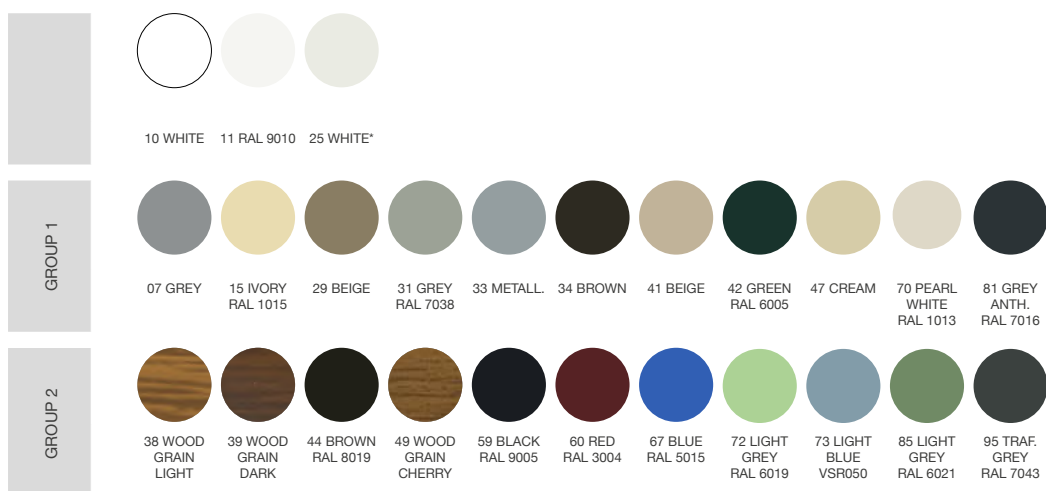
SEC70 Anti-lifting security system for roll tube 70mm

SE43I Handle lock, inside lock (only for TE7X56)

SE43E Lock with double key hole - inside and outside (only for TE7X56)

CA42AC Steel security latch (only for TE7X56)

## COLOR RANGE



Standard end slat TE7X56

Available matching colors for end slats pages 32-33

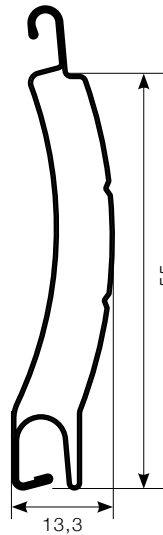
\* At clearance

# SAR-132

# ROLLING SHUTTERS

TAP SECURITY

ALUMINUM PROFILE WITH HIGH DENSITY FOAM



### TECHNICAL DATA

Weight per 1m: 0,275 kg approx.

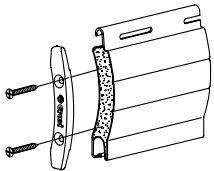
Weight per sqm: 5,10 kg approx.

Profiles per sqm: 18,18

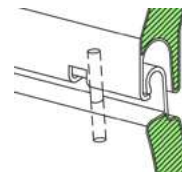
Max sizes: Max width 4,60m;  
Max height: 3,00; Max. surface: 11,50sqm

Standard packing: 15 slats 6,51m

## ROLLING SHUTTERS



Assembled rolling shutter (punched) with junctions to roll tube, conic stoppers and side plugs (TLSAR132C), standard aluminum end slat TS12X55



Variation: assembled with nails

## ROLL DIAMETER

SHUTTER HEIGHT (mm) - with junction spring 5002

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3600	4000
ROLL TUBE 60MM	179	179	195	215	215	235	235	255	255	265	275
ROLL TUBE 70MM	175	175	195	199	215	225	235	240	255	265	275

SHUTTER HEIGHT (mm) - with anti-lifting system SEC

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3500	4000
ROLL TUBE 60MM	179	189	215	215	235	235	255	255	265	275	285
ROLL TUBE 70MM	179	195	199	219	221	235	245	255	265	275	285

## OPENING HEIGHT FOR SHUTTERBOX UNIBOX

SHUTTERBOX SIZE JUNCTION SPRING 5002\*

	137	150	165	180	205	230	250	300
ROLL TUBE 60MM			700	1080	1900	2490	3200	4000
ROLL TUBE 70MM							3250	4000



\*SHUTTERBOX APPLICATION 5

## WIND RESISTANCE CLASS

GUIDE RAIL	ROLLING SHUTTER FINISHED WIDTH (mm) - with side plugs									
	4600	4300	4000	3700	3400	3100	2800	2500	2200	1900
TYPE C	1	1	2	2	3	3	4	4	5	6
TYPE D	1	1	2	2	3	3	4	4	5	6

## SUITABLE GUIDE RAILS (PAGE 34- PAGE 72)

TO BE USED WITH MAXI PVC GASKET/BRUSH (GG35MAG-SP35MAG)	
TYPE C	Standard system: GS28X117 (replacement)* GE30X27 - GE30X25 - GE30X19 (replacement)
TYPE D	Standard system: GE40X27 - GE60X28 Shutterbox UNIBOX: GE62X28 - GE80X28 - GE458028

\*to be used only with GG35NOR

## SUITABLE END SLATS (PAGE 30)

TS12X55	Extruded aluminum end slat 12x55mm
TS12X55U	Extruded aluminum end slat inside/outside rolling 12x55mm
GT	PVC end slat gasket

## SUITABLE SECURITY ACCESSORIES (PAGE 45)

SEC60	Anti-lifting security system for roll tube 60mm
SEC70	Anti-lifting security system for roll tube 70mm
SE43I	Handle lock, inside lock (only for TS12X55)
SE43E	Lock with double key hole - inside and outside (only for TS12X55)
CA42AC	Steel security latch (only for TS12X55)
CA32F	Reinforced steel security latch with lock handle
CAT-INT	Intermediate security latch

## COLOR RANGE

The color range chart displays 30 color swatches arranged in three groups:

- GROUP 1:** 10 WHITE, 11 RAL 9010, 25 WHITE, 07 GREY, 15 IVORY RAL 1015, 29 BEIGE, 31 GREY RAL 7038, 33 METALL., 34 BROWN, 41 BEIGE, 42 GREEN RAL 6005, 47 CREAM, 70 PEARL WHITE RAL 1013, 81 GREY ANTH. RAL 7016
- GROUP 2:** 08 GREY TELE4 RAL 7047, 13 CREAM RAL 9001, 16 BROWN RAL 8017, 28 GREEN RAL 6011, 30 OXIDE RED RAL 3009, 38 WOOD GRAIN LIGHT, 39 WOOD GRAIN DARK, 44 BROWN RAL 8019, 46 BRONZE, 49 WOOD GRAIN CHERRY, 53 WOOD GRAIN DOUGLAS, 54 RENOLIT DARK, 55 WOOD GRAIN MEDIUM, 59 BLACK RAL 9005, 61 RED RAL 3005
- GROUP 2:** 64 GREY RAL 7035, 65 GREY NCS 3000, 66 OCHRE, 67 BLUE RAL 5015, 68 MINT GREEN RAL 6029, 72 LIGHT GREEN RAL 6019, 73 LIGHT BLUE VSR050, 78 WOOD GRAIN OAK, 79 WOOD GRAIN WALNUT, 85 LIGHT GREEN RAL 6021, 89 BROWN RAL 8003, 91 GREY RAFFAELLO, 92 GREEN RAFFAELLO, 94 BROWN RAFFAELLO, 95 TRAFFIC GREY RAL 7043

Standard end slat TS12X55

Available matching colors for end slats pages 32-33



# AR-28

# ROLLING SHUTTERS

ALUMINUM PROFILE  
WITH MEDIUM DENSITY  
FOAM

ROLLITA



## TECHNICAL DATA

Weight per lm: 0,105 kg approx.

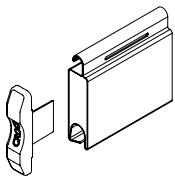
Weight per sqm: 3,70 kg approx.

Profiles per sqm: 22,70

Max sizes: Max width:3,40lm  
Max height: 2,50lm; Max surface: 4,50sqm

Standard packing: 50 slats 6,50lm

## ROLLING SHUTTERS



Assembled rolling shutter (punched) with junction spring, conic stoppers and side plugs (TLAR/28), standard aluminum end slat TE7x56

## ROLL DIAMETER

### SHUTTER HEIGHT (mm) - with junction spring 5002

	1000	1300	1600	1900	2200	2500
ROLL TUBE 40MM	155	165	185	195	205	225
ROLL TUBE 60MM	159	179	199	205	225	225
ROLL TUBE 70MM	170	185	195	211	215	235

### SHUTTER HEIGHT (mm) - with anti-lifting system SEC

	1000	1300	1600	1900	2200	2500
ROLL TUBE 40MM	165	179	199	205	225	225
ROLL TUBE 60MM	175	185	205	211	225	231
ROLL TUBE 70MM	175	191	211	215	235	241

## OPENING HEIGHT FOR SHUTTERBOX UNIBOX

### SHUTTERBOX SIZE JUNCTION SPRING 5002\*

	137	150	165	180	205	230
ROLL TUBE 40MM	1000	1340	1480	1840	2430	2500
ROLL TUBE 60MM	810	950	1310	1480	2260	2500



\*SHUTTERBOX APPLICATION 5

## WIND RESISTANCE CLASS

GUIDE RAIL	ROLLING SHUTTER FINISHED WIDTH (mm) - with side plugs							
	3400	3100	2800	2500	2200	1900	1600	1300
TYPE A	2	3	3	4	5	6	6	6
TYPE B	2	3	3	4	5	6	6	6

## SUITABLE GUIDE RAILS (PAGE 34- PAGE 72)

TO BE USED WITH STANDARD PVC GASKET/BRUSH (GG35NOR -SP35NOR)

TYPE A	Standard system: GE26X21 - GE28X17 (for replacement) - Shutterbox UNIBOX : GE53X21 - GE53X21A - GE53X28R
TYPE B	Standard system: GE35X21 - GE40X21 - Shutterbox UNIBOX: GE62X21

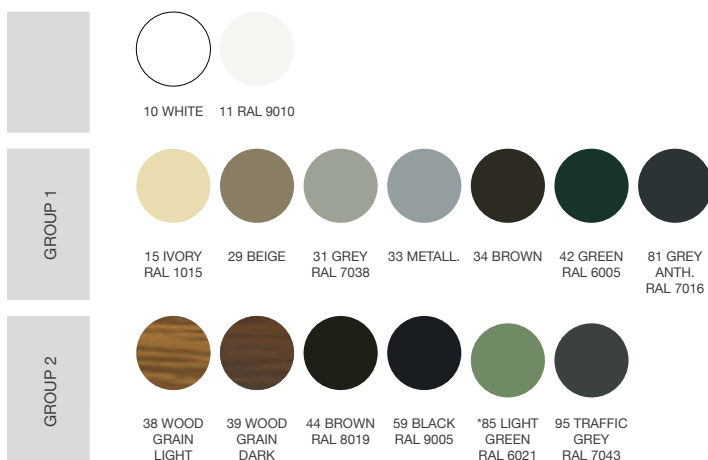
## SUITABLE END SLATS (PAGE 30)

TE7X56	Extruded aluminum end slat 7,5x56mm
TE7X56U	Extruded aluminum end slat inside/outside rolling 7,5x56mm

## SUITABLE SECURITY ACCESSORIES (PAGE 45)

SEC40	Anti-lifting security system for roll tube 40mm
SEC60	Anti-lifting security system for roll tube 60mm
SEC70	Anti-lifting security system for roll tube 70mm
SE43I	Handle lock, inside lock (only for TE7X56)
SE43E	Lock with double key hole - inside and outside (only for TE7X56)
CA42AC	Steel security latch (only for TE7X56)

## COLOR RANGE

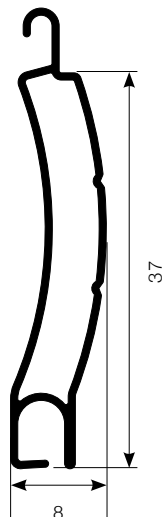


Standard end slat TE7X56  
Available matching colors for end slats pages 32-33

\* At clearance

ALUMINUM PROFILE  
WITH MEDIUM DENSITY  
FOAM

ROLLITA



### TECHNICAL DATA

Weight per lm: 0,103 kg approx.

Weight per sqm: 2,75 kg approx.

Profiles per sqm: 27,00

Max sizes: Max width:3,40lm

Max height: 2,50lm; Max surface: 4,50sqm

Standard packing: 50 slats 6,50lm

## ROLLING SHUTTERS



Assembled rolling shutter (punched) with junction spring, conic stoppers and side plugs (TLAR/37), standard aluminum end slat TE7x56

## ROLL DIAMETER

### SHUTTER HEIGHT (mm) - with junction spring 5001

	1000	1300	1600	1900	2200	2500
ROLL TUBE 40MM	133	145	153	165	175	185
ROLL TUBE 60MM	137	155	165	181	181	191
ROLL TUBE 70MM	135	145	155	169	175	181

### SHUTTER HEIGHT (mm) - with anti-lifting system SEC

	1000	1300	1600	1900	2200	2500
ROLL TUBE 40MM	140	150	165	165	180	190
ROLL TUBE 60MM	160	160	175	185	190	195

## OPENING HEIGHT FOR SHUTTERBOX UNIBOX

### SHUTTERBOX SIZE JUNCTION SPRING 5001\*

	137	150	165	180	205	230
ROLL TUBE 40MM	1480	1810	2250	2500		
ROLL TUBE 60MM	1110	1510	1990	2440	2500	



\*SHUTTERBOX APPLICATION 5

## WIND RESISTANCE CLASS

GUIDE RAIL	ROLLING SHUTTER FINISHED WIDTH (mm) - with side plugs							
	3400	3100	2800	2500	2200	1900	1600	1300
TYPE A	1	1	2	3	3	4	5	6
TYPE B	1	1	2	3	4	5	5	6

## SUITABLE GUIDE RAILS (PAGE 34- PAGE 72)

TO BE USED WITH STANDARD PVC GASKET/BRUSH (GG35NOR -SP35NOR)

TYPE A	Standard system: GE26X21 - GE28X17 (for replacement) - Shutterbox UNIBOX : GE53X21 - GE53X21A - GE53X28R
TYPE B	Standard system: GE35X21 - GE40X21 - Shutterbox UNIBOX: GE62X21

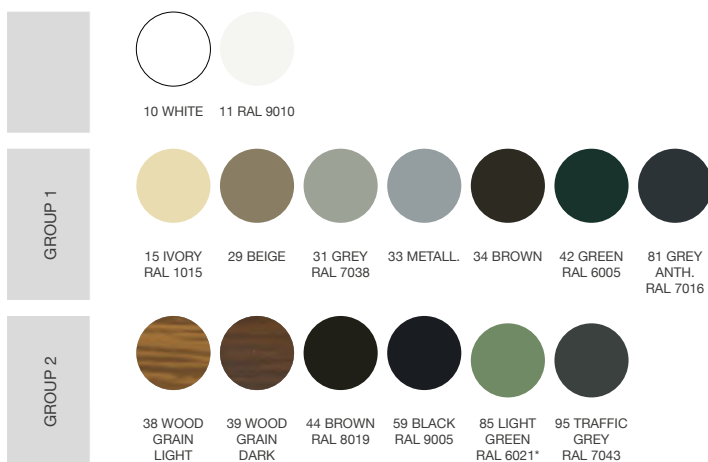
## SUITABLE END SLATS (PAGE 30)

TE7X56	Extruded aluminum end slat 7,5x56mm
TE7X56U	Extruded aluminum end slat inside/outside rolling 7,5x56mm
LIF4307	Extruded aluminum end slat 7,5x43mm

## SUITABLE SECURITY ACCESSORIES (PAGE 45)

SEC40	Anti-lifting security system for roll tube 40mm
SEC60	Anti-lifting security system for roll tube 60mm
SE43I	Handle lock, inside lock (only for TE7X56)
SE43E	Lock with double key hole - inside and outside (only for TE7X56)
CA42AC	Steel security latch (only for TE7X56)

## COLOR RANGE



Standard end slat TE7X56  
Available matching colors for end slats pages 32-33

\* At clearance



## ROLLITA

ALUMINUM PROFILE  
WITH  
MEDIUM DENSITY FOAM



### TECHNICAL DATA

Weight per lm: 0,115 kg approx.

Weight per sqm: 2,65 kg approx.

Profiles per sqm: 22,70

Max sizes: Max width:3,40lm

Max height: 3,00; Max surface: 8sqm

Standard packing: 50 slats 6,50lm

## ROLLING SHUTTERS



Assembled rolling shutter (punched) with junction spring, conic stoppers and side plugs (TLAR/17), standard aluminum end slat TE7x56

## ROLL DIAMETER

### SHUTTER HEIGHT (mm) - with junction spring 5001

	1000	1300	1600	1900	2200	2500	2800	3000
ROLL TUBE 40MM	135	150	165	180	185	199	205	219
ROLL TUBE 60MM	145	159	169	175	189	195	205	209
ROLL TUBE 70MM	155	169	169	185	191	199	215	215

### SHUTTER HEIGHT (mm) - with anti-lifting system SEC

	1000	1300	1600	1900	2200	2500	2800	3000
ROLL TUBE 40MM	155	175	175	185	205	205	225	225
ROLL TUBE 60MM	165	171	185	195	205	221	225	229
ROLL TUBE 70MM	160	173	189	189	207	207	219	219

## OPENING HEIGHT FOR SHUTTERBOX UNIBOX

### SHUTTERBOX SIZE JUNCTION SPRING 5001\*

	137	150	165	180	205
ROLL TUBE 40MM	1100	1450	1800	2240	3000
ROLL TUBE 60MM	830	1230	1710	2110	3000



\*SHUTTERBOX APPLICATION 5

## WIND RESISTANCE CLASS

GUIDE RAIL	ROLLING SHUTTER FINISHED WIDTH (mm) - with side plugs							
	3400	3100	2800	2500	2200	1900	1600	1300
TYPE A	1	1	2	3	4	5	6	6
TYPE B	1	2	3	4	4	5	6	6

## SUITABLE GUIDE RAILS (PAGE 34- PAGE 72)

TO BE USED WITH STANDARD PVC GASKET/BRUSH (GG35NOR -SP35NOR)

TYPE A	Standard system: GE26X21 - GE28X17 (for replacement) - Shutterbox UNIBOX : GE53X21 - GE53X21A - GE53X28R
TYPE B	Standard system: GE35X21 - GE40X21 - Shutterbox UNIBOX: GE62X21

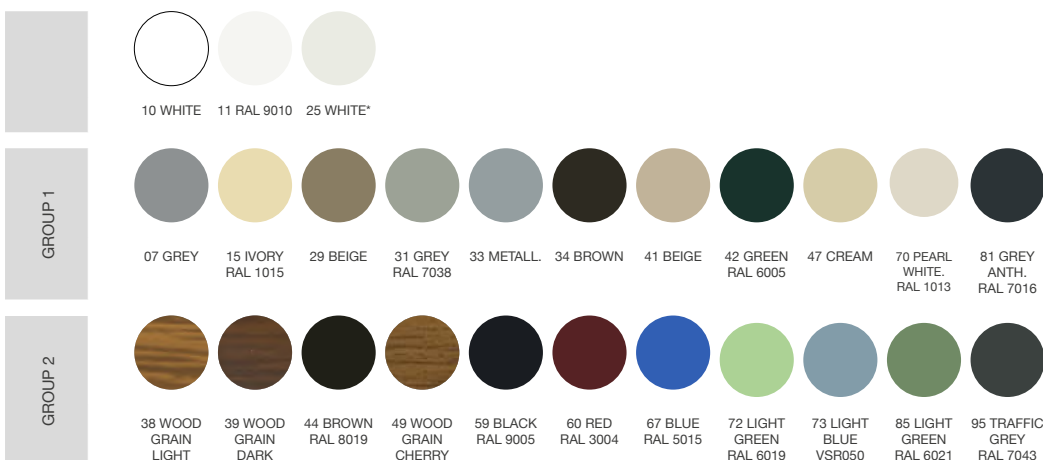
## SUITABLE END SLATS (PAGE 30)

TE7X56	Extruded aluminum end slat 7,5x56mm
TE7X56U	Extruded aluminum end slat inside/outside rolling 7,5x56mm
LIF4307	Extruded aluminum end slat 7,5x43mm

## SUITABLE SECURITY ACCESSORIES (PAGE 45)

SEC40	Anti-lifting security system for roll tube 40mm
SEC60	Anti-lifting security system for roll tube 60mm
SEC70	Anti-lifting security system for roll tube 70mm
SE43I	Handle lock, inside lock (only for TE7X56)
SE43E	Lock with double key hole - inside and outside (only for TE7X56)
CA42AC	Steel security latch (only for TE7X56)

## COLOR RANGE



Standard end slat TE7X56

Available matching colors for end slats pages 32-33

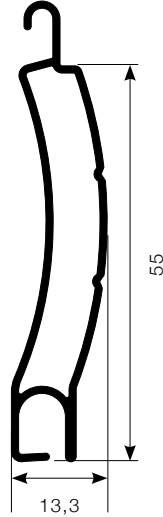
\* At clearance

# AR-32

# ROLLING SHUTTERS

ROLLITA

ALUMINUM PROFILE  
WITH  
MEDIUM DENSITY FOAM



### TECHNICAL DATA

Weight per 1m: 0,176 kg approx.

Weight per sqm: 3,25 kg approx.

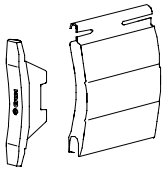
Profiles per sqm: 18,18

Max sizes: Max width: 4,301m

Max height: 3,50m Max surface: 10sqm

Standard packing: 30 slats 6,51m

## ROLLING SHUTTERS



Assembled rolling shutter (punched) with junction spring, conic stoppers and side plugs (TLAR/55), standard aluminum end slat TS12X55

## ROLL DIAMETER

### SHUTTER HEIGHT (mm) - with junction spring 5002

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3500
ROLL TUBE 60MM	179	179	195	215	215	235	235	255	255	265
ROLL TUBE 70MM	175	175	195	199	215	225	235	239	255	265

### SHUTTER HEIGHT (mm) - with anti-lifting system SEC

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3500
ROLL TUBE 60MM	169	189	215	215	235	235	255	255	265	275
ROLL TUBE 70MM	179	195	199	219	221	235	245	255	265	275

## OPENING HEIGHT FOR SHUTTERBOX UNIBOX

### SHUTTERBOX SIZE JUNCTION SPRING 5002\*

	137	150	165	180	205	230	250	300
ROLL TUBE 60MM			700	1080	1900	2490	3200	3500
ROLL TUBE 70MM							3250	3500



\*SHUTTERBOX APPLICATION 5



## WIND RESISTANCE CLASS

ROLLING SHUTTER FINISHED WIDTH (mm) - with side plugs									
GUIDE RAIL	4300	4000	3700	3400	3100	2800	2500	2200	1900
TYPE C	1	1	2	2	3	4	4	5	6
TYPE D	1	2	2	3	3	4	5	5	6

## SUITABLE GUIDE RAILS (PAGE 34- PAGE 72)

TO BE USED WITH MAXI PVC GASKET/BRUSH (GG35MAG-SP35MAG)	
TYPE C	Standard system: GS28X17 (replacement)* GE30X27 - GE30X25* - GE30X19 (replacement)
TYPE D	Standard system: GE40X27 - GE60X28 Shutterbox UNIBOX: GE62X28 - GE80X28 - GE458028

\*to be used only with GG35NOR

## SUITABLE END SLATS (PAGE 30)

TS12X55	Extruded aluminum end slat 12x55mm
TS12X55U	Extruded aluminum end slat inside/outside rolling 12x55mm
GT	PVC end slat gasket

## SUITABLE SECURITY ACCESSORIES (PAGE 45)

SEC60	Anti-lifting security system for roll tube 60mm
SEC70	Anti-lifting security system for roll tube 70mm
SE43I	Handle lock, inside lock (only for TS12X55)
SE43E	Lock with double key hole - inside and outside (only for TS12X55)
CA42AC	Steel security latch (only for TS12X55)
CA32F	Reinforced steel security latch with lock handle
CAT-INT	Intermediate security latch

## COLOR RANGE

The color range chart displays 30 color swatches arranged in three rows. The first row shows three white swatches (10 WHITE, 11 RAL 9010, 25 WHITE). The second row, labeled 'GROUP 1', contains 11 swatches: 07 GREY, 15 IVORY RAL 1015, 29 BEIGE, 31 GREY RAL 7038, 33 METALL., 34 BROWN, 41 BEIGE, 42 GREEN RAL 6005, 47 CREAM, 70 PEARL WHITE. RAL 1013, and 81 GREY ANTH. RAL 7016. The third row, labeled 'GROUP 2', contains 16 swatches: 08 GREY TELE4 RAL 7047, 13 CREAM RAL 9001, 16 BROWN RAL 8017, 28 GREEN RAL 6011, 30 OXIDE RED RAL 3009, 38 WOOD GRAIN LIGHT, 39 WOOD GRAIN DARK, 44 BROWN RAL 8019, 46 BRONZE, 49 WOOD GRAIN CHERRY, 53 WOOD GRAIN DOUGLAS, 54 RENOLIT DARK, 55 WOOD GRAIN MEDIUM, 59 BLACK RAL 9005, and 61 RED RAL 3005. The fourth row, also labeled 'GROUP 2', contains 17 swatches: 64 GREY RAL 7035, 65 GREY NCS 3000, 66 OCHRE, 67 BLUE RAL 5015, 68 MINT GREEN RAL 6029, 72 LIGHT GREEN RAL 6019, 73 LIGHT BLUE VSR050, 78 WOOD GRAIN OAK, 79 WOOD GRAIN WALNUT, 85 LIGHT GREEN RAL 6021, 89 BROWN RAL 8003, 91 GREY RAFFAELLO, 92 GREEN RAFFAELLO, 94 BROWN RAFFAELLO, and 95 TRAFFIC GREY RAL 7043.

Standard end slat TS12X55  
Available matching colors for end slats pages 32-33



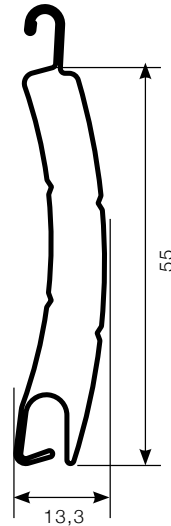
UNI EN 13659:2009

# AC-55

# ROLLING SHUTTERS

TAP SECURITY

STEEL PROFILE WITH  
MEDIUM DENSITY FOAM



## TECHNICAL DATA

Weight per 1m: 0,518 kg approx.

Weight per sqm: 9,40 kg approx.

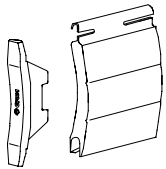
Profiles per sqm: 18,18

Max sizes: Max width; 4,50sqm

Max height: 3,00; Max Surface: 10sqm

Standard packing: 10 slats 6,51m

## ROLLING SHUTTERS



Assembled rolling shutter (punched) with aluminum profile for junction (PT45ALLL) , conic stoppers and side plugs (TLAR/55), standard aluminum end slat TS12X55

## ROLL DIAMETER

### SHUTTER HEIGHT (mm) - with junction spring 5002 - PT45ALL

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3600	4000
ROLL TUBE 60MM	185	185	205	205	221	229	241	245	265	265	283
ROLL TUBE 70MM	165	180	203	203	221	227	245	249	255	275	275

### SHUTTER HEIGHT (mm) - with anti-lifting system SEC

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3500	4000
ROLL TUBE 60MM	183	201	209	225	243	243	261	265	265	285	285
ROLL TUBE 70MM	189	213	213	229	229	249	249	273	273	281	293

## OPENING HEIGHT FOR SHUTTERBOX UNIBOX

### SHUTTERBOX SIZE JUNCTION SPRING 5002\*

	137	150	165	180	205	230	250	300
ROLL TUBE 60MM			990	1050	1540	2090	3080	4000
ROLL TUBE 70MM							2800	4000



\*SHUTTERBOX APPLICATION 5

## WIND RESISTANCE CLASS

GUIDE RAIL	ROLLING SHUTTER FINISHED WIDTH (mm) - with side plugs									
	4500	4300	4000	3700	3400	3100	2800	2500	2200	1900
TYPE C	2	2	3	3	4	5	5	6	6	6
TYPE D	3	3	3	3	4	5	6	6	6	6

## SUITABLE GUIDE RAILS (PAGE 34- PAGE 72)

TO BE USED WITH MAXI PVC GASKET/BRUSH (GG35MAG-SP35MAG)

TYPE C	Standard system: GS28X17 (replacement)* GE30X27 - GE30X25* - GE30X19 (replacement)
TYPE D	Standard system: GE40X27 - GE60X28 Shutterbox UNIBOX: GE62X28 - GE80X28 - GE458028

*\*to be used only with GG35NOR*

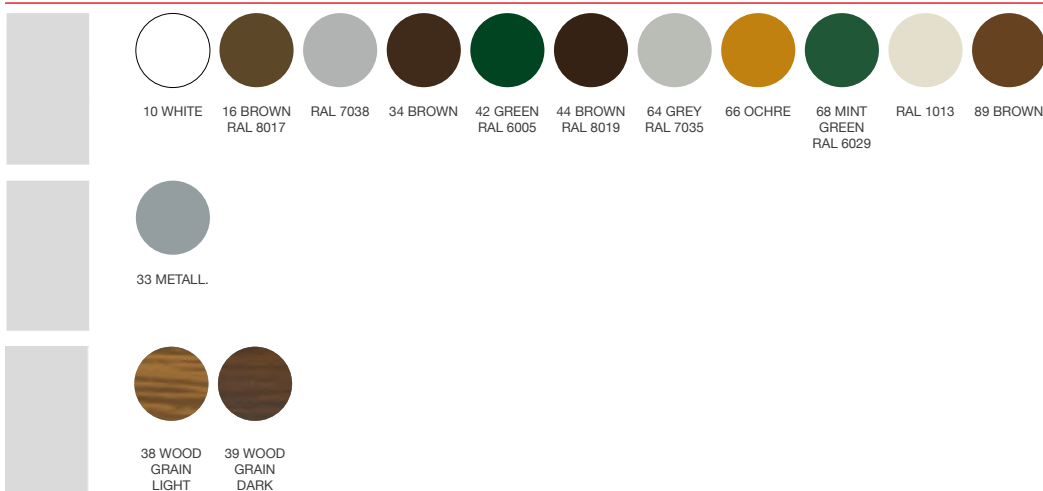
## SUITABLE END SLATS (PAGE 30)

TS12X55	Extruded aluminum end slat 12x55mm
TS12X55U	Extruded aluminum end slat inside/outside rolling 12x55mm
GT	PVC end slat gasket

## SUITABLE SECURITY ACCESSORIES (PAGE 45)

SEC60	Anti-lifting security system for roll tube 60mm
SEC70	Anti-lifting security system for roll tube 70mm
SE43I	Handle lock, inside lock (only for TS12X55)
SE43E	Lock with double key hole - inside and outside (only for TS12X55)
CA42AC	Steel security latch (only for TS12X55)
CA32F	Reinforced steel security latch with lock handle

## COLOR RANGE



Standard end slat TS12X55  
Available matching colors for end slats pages 32-33



TAP SECURITY

EXTRUDED ALUMINUM PROFILE



### TECHNICAL DATA

Weight per 1m: 0,240 kg approx.

Weight per sqm: 8,57 kg approx.

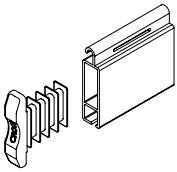
Profiles per sqm: 35,70

Max sizes: Max width: 4,901m

Max height: 3,50m Max surface: 10sqm

Standard packing: 10 slats 6,51m

## ROLLING SHUTTERS



Assembled rolling shutter (punched) with junction spring, conic stoppers and side plugs (TLES/28), standard aluminum end slat TE7x56

## ROLL DIAMETER

### SHUTTER HEIGHT (mm) - with junction spring 5002

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3500
ROLL TUBE 40MM	145	161	180	191	201	225	225	241	245	250
ROLL TUBE 60MM	159	175	180	199	215	219	235	241	245	259
ROLL TUBE 70MM	160	175	189	199	209	225	229	239	249	255

### SHUTTER HEIGHT (mm) - with anti-lifting system SEC

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3500
ROLL TUBE 40MM	155	179	179	200	220	220	240	240	240	259
ROLL TUBE 60MM	173	185	205	205	225	225	245	247	269	269
ROLL TUBE 70MM	179	199	199	219	235	239	245	259	259	279

## OPENING HEIGHT FOR SHUTTERBOX UNIBOX

### SHUTTERBOX SIZE JUNCTION SPRING 5002\*

	137	150	165	180	205	230
ROLL TUBE 40MM	750	1230	1340	1480	1930	2630
ROLL TUBE 60MM	610	1090	1260	1340	1820	2350



\*SHUTTERBOX APPLICATION 5

## WIND RESISTANCE CLASS

GUIDE RAIL	ROLLING SHUTTER FINISHED WIDTH (mm) - with side plugs												
	4900	4600	4300	4000	3700	3400	3100	2800	2500	2200	1900	1600	1300
TYPE A	1	2	2	3	3	3	4	5	6	6	6	6	6
TYPE B	1	2	2	3	3	4	5	6	6	6	6	6	6

## SUITABLE GUIDE RAILS (PAGE 34- PAGE 72)

TO BE USED WITH STANDARD PVC GASKET/BRUSH (GG35NOR -SP35NOR)

TYPE A	Standard system: GE26X21 - GE28X17 (for replacement) - Shutterbox UNIBOX : GE53X21 - GE53X21A - GE53X28R
TYPE B	Standard system: GE35X21 - GE40X21 - Shutterbox UNIBOX: GE62X21

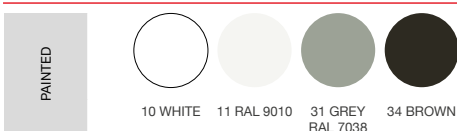
## SUITABLE END SLATS (PAGE 30)

TE7X56	Extruded aluminum end slat 7,5x56mm
TE7X56U	Extruded aluminum end slat inside/outside rolling 7,5x56mm

## SUITABLE SECURITY ACCESSORIES (PAGE 45)

SEC40	Anti-lifting security system for roll tube 40mm
SEC60	Anti-lifting security system for roll tube 60mm
SEC70	Anti-lifting security system for roll tube 70mm
SE43I	Handle lock, inside lock (only for TE7X56)
SE43E	Lock with double key hole - inside and outside (only for TE7X56)
CA42AC	Steel security latch (only for TS12X55)

## COLOR RANGE



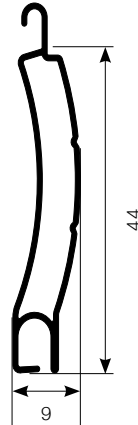
Standard end slat TE7X56  
Further colors on request. Contact our office for delivery time and prices.

# ES-44

# ROLLING SHUTTERS

TAP SECURITY

EXTRUDED ALUMINUM PROFILE



### TECHNICAL DATA

Weight per lm: 0,305 kg approx.

Weight per sqm: 6,90 kg approx.

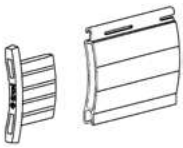
Profiles per sqm: 22,70

Max sizes: Max width: 4lm

Max height: 3,50lm Max surface: 9,50sqm

Standard packing: 10 slats 6,5lm

## ROLLING SHUTTERS



Assembled rolling shutter (punched) with junction spring, conic stoppers and side plugs (TLES/44), standard aluminum end slat TE7x56

## ROLL DIAMETER

### SHUTTER HEIGHT (mm) - with junction spring 5001

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3500
ROLL TUBE 40MM	145	155	169	175	185	199	205	215	219	230
ROLL TUBE 60MM	145	165	165	185	201	201	215	215	235	235
ROLL TUBE 70MM	161	161	175	193	193	205	209	221	225	235

### SHUTTER HEIGHT (mm) - with anti-lifting system SEC

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3500
ROLL TUBE 40MM	159	175	179	189	195	205	225	225	225	235
ROLL TUBE 60MM	175	175	189	195	205	219	225	225	235	239
ROLL TUBE 70MM	165	189	189	200	215	215	229	229	239	239

## OPENING HEIGHT FOR SHUTTERBOX UNIBOX

### SHUTTERBOX SIZE JUNCTION SPRING 5001\*

	137	150	165	180	205	230
ROLL TUBE 40MM	790	1140	1540	2020	2900	3500
ROLL TUBE 60MM	790	920	1270	1710	2680	3300



\*SHUTTERBOX APPLICATION 5

## WIND RESISTANCE CLASS

GUIDE RAIL	ROLLING SHUTTER FINISHED WIDTH (mm) - with side plugs									
	4000	3700	3400	3100	2800	2500	2200	1900	1600	1300
TYPE A	1	2	3	4	4	5	6	6	6	6
TYPE B	1	2	3	4	4	5	6	6	6	6

## SUITABLE GUIDE RAILS (PAGE 34- PAGE 72)

TO BE USED WITH STANDARD PVC GASKET/BRUSH (GG35NOR -SP35NOR)

TYPE A	Standard system: GE26X21 - GE28X17 (for replacement) - Shutterbox UNIBOX : GE53X21 - GE53X21A - GE53X28R
TYPE B	Standard system: GE35X21 - GE40X21 - Shutterbox UNIBOX: GE62X21

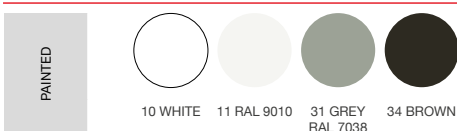
## SUITABLE END SLATS (PAGE 30)

TE7X56	Extruded aluminum end slat 7,5x56mm
TE7X56U	Extruded aluminum end slat inside/outside rolling 7,5x56mm

## SUITABLE SECURITY ACCESSORIES (PAGE 45)

SEC40	Anti-lifting security system for roll tube 40mm
SEC60	Anti-lifting security system for roll tube 60mm
SEC70	Anti-lifting security system for roll tube 70mm
SE43I	Handle lock, inside lock (only for TE7X56)
SE43E	Lock with double key hole - inside and outside (only for TE7X56)
CA42AC	Steel security latch (only for TS12X55)

## COLOR RANGE

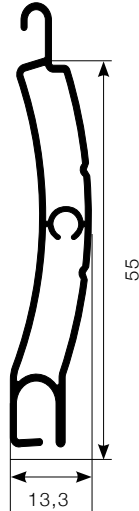


Standard end slat TE7X56  
Further colors on request. Contact our office for delivery time and prices.



## TAP SECURITY

## EXTRUDED ALUMINUM PROFILE



### TECHNICAL DATA

Weight per lm: 0,435 kg approx.

Weight per sqm: 7,92 kg approx.

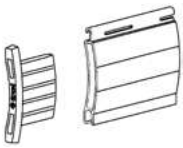
Profiles per sqm: 18,18

Max sizes: Max width; 5,50lm

Max height: 5,00lm Max surface: 14sqm

Standard packing: 10 slats 6,5lm

## ROLLING SHUTTERS



Assembled rolling shutter (punched) with junction spring, conic stoppers and side plugs (TLES/55), standard aluminum end slat TS12X55

## ROLL DIAMETER

### SHUTTER HEIGHT (mm) - with junction spring 5002

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3600	3900	4200	4500	5000
ROLL TUBE 60MM	175	179	195	211	215	235	235	245	255	265	270	275	295	299
ROLL TUBE 70MM	165	175	195	199	215	225	235	245	255	259	271	275	285	295

### SHUTTER HEIGHT (mm) - with anti-lifting system SEC

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3600	3900	4200	4500	5000
ROLL TUBE 60MM	165	185	205	205	229	229	249	249	255	269	269	295	295	315
ROLL TUBE 70MM	175	195	199	215	219	239	239	259	259	275	279	285	300	305

## OPENING HEIGHT FOR SHUTTERBOX UNIBOX

### SHUTTERBOX SIZE JUNCTION SPRING 5002\*

	137	150	165	180	205	230	250	300
ROLL TUBE 60MM			930	1430	1810	2360	3080	4950
ROLL TUBE 70MM							3190	4950



\*SHUTTERBOX APPLICATION 5

## WIND RESISTANCE CLASS

GUIDE RAIL	ROLLING SHUTTER FINISHED WIDTH (mm) - with side plugs												
	5500	5200	4900	4600	4300	4000	3700	3400	3100	2800	2500	2200	1900
TYPE C	1	1	1	2	2	3	3	4	5	5	6	6	6
TYPE D	1	1	2	3	3	4	4	4	5	5	6	6	6

## SUITABLE GUIDE RAILS (PAGE 34- PAGE 72)

TO BE USED WITH MAXI PVC GASKET/BRUSH (GG35MAG-SP35MAG)	
TYPE C	Standard system: GS28X17 (replacement)* GE30X27 - GE30X25* - GE30X19 (replacement)
TYPE D	Standard system: GE40X27 - GE60X28 Shutterbox UNIBOX: GE62X28 - GE80X28 - GE458028

*\*to be used only with GG35NOR*

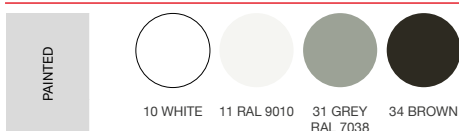
## SUITABLE END SLATS (PAGE 30)

TS12X55	Extruded aluminum end slat 12x55mm
TS12X55U	Extruded aluminum end slat inside/outside rolling 12x55mm

## SUITABLE SECURITY ACCESSORIES (PAGE 45)

SEC60	Anti-lifting security system for roll tube 60mm
SEC70	Anti-lifting security system for roll tube 70mm
SE43I	Handle lock, inside lock (only for TS12X55)
SE43E	Lock with double key hole - inside and outside (only for TS12X55)
CA42AC	Steel security latch (only for TS12X55)
CA32F	Reinforced steel security latch with lock handle

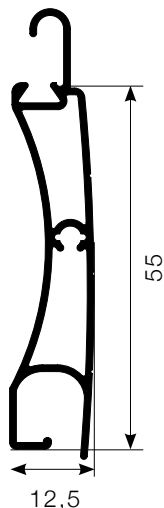
## COLOR RANGE



Standard end slat TS12X55  
Further colors on request. Contact our office for delivery time and prices.

## TAP SECURITY

## EXTRUDED ALUMINUM PROFILE



### TECHNICAL DATA

Weight per lm: 0,475 kg approx.

Weight per sqm: 8,50 kg approx.

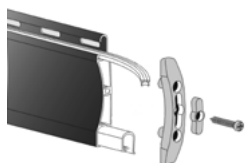
Profiles per sqm: 18

Max sizes: Max width; 5,50lm  
Max height: 5,00lm Max surface: 14sqm

Standard packing: 10 slats 6,5lm

*To be used with anti-noise gaskets GG35NOR and GG12PVC*

## ROLLING SHUTTERS



Assembled rolling shutter (punched) with junction (PT45ALL), conic stoppers and side plugs (TLSAR/115C), standard aluminum end slat TE12X55

## ROLL DIAMETER

SHUTTER HEIGHT (mm) - with junction 5002 - PT45ALL

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3600	3900	4200	4500	5000
ROLL TUBE 60MM	175	195	215	225	245	245	265	269	269	295	295	395	325	325
ROLL TUBE 70MM	179	205	209	229	235	255	255	280	280	285	305	305	325	330

SHUTTER HEIGHT (mm) - with anti-lifting system SEC

	1000	1300	1600	1900	2200	2500	2800	3000	3300	3600	3900	4200	4500	5000
ROLL TUBE 60MM	180	205	215	235	235	259	265	275	279	285	305	305	309	335
ROLL TUBE 70MM	195	219	225	249	249	265	275	275	305	305	309	329	329	355

## OPENING HEIGHT FOR SHUTTERBOX UNIBOX

SHUTTERBOX SIZE JUNCTION SPRING 5002\*

	137	150	165	180	205	230	250	300
ROLL TUBE 60MM			770	1040	1480	2090	2640	4230
ROLL TUBE 70MM							2640	4120



\*SHUTTERBOX APPLICATION 5

## WIND RESISTANCE CLASS

GUIDE RAIL	ROLLING SHUTTER FINISHED WIDTH (mm) - with side plugs												
	5500	5200	4900	4600	4300	4000	3700	3400	3100	2800	2500	2200	1900
TYPE C	1	1	2	3	3	3	3	4	5	5	6	6	6
TYPE D	1	2	2	3	3	4	4	4	5	5	6	6	6

## SUITABLE GUIDE RAILS (PAGE 34- PAGE 72)

TO BE USED WITH MAXI PVC GASKET/BRUSH (GG35SUP-SP35MAG)

TYPE C	Standard system: GE30X27 - GE30X25* - GE30X19 (replacement)
TYPE D	Standard system: GE40X27 - GE60X28 Shutterbox UNIBOX: GE62X28 - GE80X28 - GE458028

*\*to be used with GG35MAG - SP35MAG*

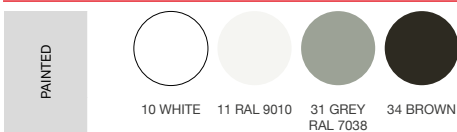
## SUITABLE END SLATS (PAGE 30)

TE12X55	Extruded aluminum end slat 12x55mm
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## SUITABLE SECURITY ACCESSORIES (PAGE 45)

SEC60	Anti-lifting security system for roll tube 60mm
SEC70	Anti-lifting security system for roll tube 70mm
SE43I	Handle lock, inside lock
SE43E	Lock with double key hole - inside and outside
CA42AC	Steel security latch

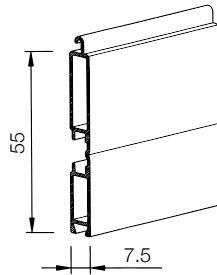
## COLOR RANGE



Further colors on request. Contact our office for delivery time and prices.



TE7X56



**DESCRIPTION**

EXTRUDED ALUMINUM END SLAT 7,5X55 FOR PROFILES 7,5 AND 9MM, WEIGHT 377 G/LM

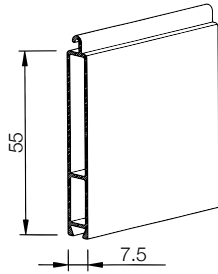
**STD PACK.**

5 SLATS  
6,50 LM

**U.M.**

LM

TE7X56U



**DESCRIPTION**

EXTRUDED ALUMINUM END SLAT 7,5X55 INSIDE/OUTSIDE ROLLING, FOR PROFILES 7,5 AND 9MM WEIGHT 370 G/LM

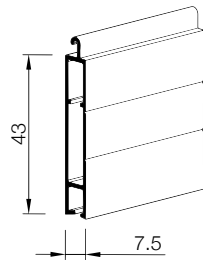
**STD PACK.**

5 SLATS  
6,50 LM

**U.M.**

LM

LIF4307



**DESCRIPTION**

EXTRUDED ALUMINUM END SLAT 43X7,5, OBLIGATORY FOR STRAP AND CRANK OPERATION SHUTTER WITH INSECT SCREEN WEIGHT 301 G/LM

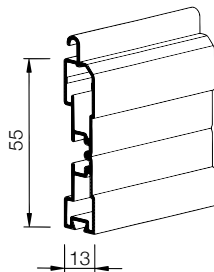
**STD PACK.**

5 SLATS  
6,50 LM

**U.M.**

LM

TS12X55



**DESCRIPTION**

EXTRUDED ALUMINUM END SLAT 13X55MM FOR PROFILES 12-14MM WEIGHT 512 G/LM

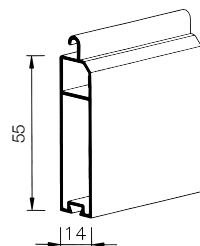
**STD PACK.**

5 SLATS  
6,50 LM

**U.M.**

LM

TS12X55U



**DESCRIPTION**

EXTRUDED ALUMINUM END SLAT 14X55 INSIDE/OUTSIDE ROLLING, FOR PROFILES 12-14MM, WEIGHT 457 G/LM

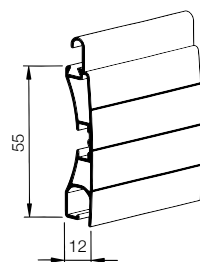
**STD PACK.**

5 SLATS  
6,50 LM

**U.M.**

LM

TE12X55



**DESCRIPTION**

EXTRUDED ALUMINUM END SLAT 12X55MM FOR PROFILE SAR-115 WEIGHT 472 G/LM

**STD PACK.**

5 SLATS  
6,50 LM

**U.M.**

LM

GT



**DESCRIPTION**

**STD PACK.**

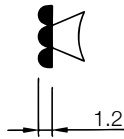
**U.M.**

PVC END SLAT GASKET FOR  
PROFILES AR-32, SAR-132, AC-55

5 SLATS  
6,50 LM

LM

GG35NOR



**DESCRIPTION**

**STD PACK.**

**U.M.**

PVC GASKET FOR PROFILE SAR-115,  
END SLATS AND GUIDE RAILS

275 LM

LM

TE12X10P



**DESCRIPTION**

**STD PACK.**

**U.M.**

PVC GASKET  
FOR END SLAT TE12X55

ROLL  
32,5 LM

LM

## END SLATS COLORS

		PROFILES 55 MM		PROFILES 37 MM AND 44 MM	
		STANDARD MATCHING TS12X55	AVAILABILITY TS12X55U	STANDARD MATCHING TE7X56	AVAILABILITY TE7X56U
WHITE		10 WHITE	10	10	10
		11 RAL9010	11	11	11
		25 WHITE	25		
GROUP 1		07 GREY	07		07
		15 IVORY RAL 1015	15	15	15
		29 BEIGE	29		29
		31 GREY RAL 7038	31		31
		33 METALLIZED	33		33
		34 BROWN	34	34	34
		41 BEIGE	70		70
		42 GREEN RAL 6005	42		42
		47 CREAM	15		15
		70 PEARL WHITE RAL 1013	70		70
		81 GREY RAL 7016	81	81	81
GROUP 2		08 GREY TELE4 RAL 7047	08		
		13 CREAM RAL 9001	13		
		16 BROWN RAL 8017	16		
		28 GREEN RAL 6011	28		
		30 RED RAL 3009	30		
		38 WOOD GRAIN MEDIUM	89		89
		39 WOOD GRAIN DARK	16		16
		44 BROWN RAL 8019	44		44
		46 BRONZE	44		

Further colors on request. Contact our office for delivery time and prices.

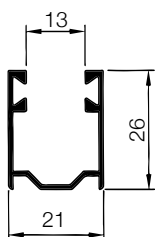
### END SLATS COLORS

		PROFILES 55 MM		PROFILES 37 MM AND 44 MM	
		COLOR MATCHING TS12X55	AVAILABILITY TS12X55U	COLOR MATCHING TE7X56	AVAILABILITY TE7X56U
	 33 SILVER	X	X	X	X
GROUP 2	 49 WOOD GRAIN CHERRY	89		89	
	 53 WOOD GRAIN DOUGLAS	89			
	 54 DARK RENOLIT	16			
	 55 WOOD GRAIN MEDIUM	89			
	 59 BLACK RAL 9005	59		59	
	 60 RED RAL 3004			60*	
	 61 RED RAL 3005	61			
	 63 GOLD	63		63	
	 64 GREY RAL 7035	64			
	 65 GREY NCS 3000	50			
	 66 OCHRE	66			
	 67 BLUE RAL 5015	67		67	
	 68 GREEN MINT RAL 6029	68			
	 72 GREEN RAL 6019	72		72	
	 72 LIGHT BLUE VSR050	73		73	
	 78 LIGHT WOOD GRAIN OAK	89			
	 79 WOOD GRAIN WALNUT	16			
	 85 PALE GREEN RAL 6021	85		85	
	 89 BROWN RAL 8003	89			
	 91 GREY RAFFAELLO	91			
 92 GREEN RAFFAELLO	92				
 94 BROWN RAFFAELLO	94				
 95 GREY TRAFFIC RAL 7043	95		95		

\*AT CLEARANCE.

Further colors on request. Contact our office for delivery time and prices.

GE26X21



### DESCRIPTION

EXTRUDED ALUMINUM GUIDE RAIL  
26X21MM WITH SEAT FOR ANTI-  
NOISE GASKET OR BRUSH  
FOR PROFILES 7,5-9MM  
WEIGHT 267 G/LM APPROX

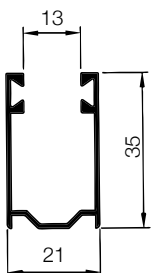
### STD PACK.

20 SLATS  
6,50LM

### U.M.

LM

GE35X21



### DESCRIPTION

EXTRUDED ALUMINUM GUIDE RAIL  
35X21MM WITH SEAT FOR ANTI-  
NOISE GASKET OR BRUSH  
FOR PROFILES 7,5-9MM  
WEIGHT 313 G/LM APPROX

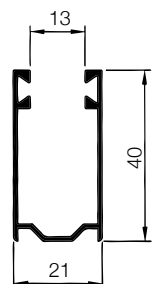
### STD PACK.

20 SLATS  
6,50LM

### U.M.

LM

GE40X21



### DESCRIPTION

EXTRUDED ALUMINUM GUIDE RAIL  
40X21MM WITH SEAT FOR ANTI-  
NOISE GASKET OR BRUSH  
FOR PROFILES 7,5-9MM  
WEIGHT 340 G/LM APPROX

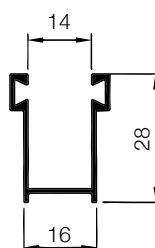
### STD PACK.

20 SLATS  
6,50LM

### U.M.

LM

GE28X17



### DESCRIPTION

EXTRUDED ALUMINUM GUIDE RAIL  
28X16MM FOR REPLACEMENT WITH  
SEAT FOR ANTI-NOISE GASKET  
OR BRUSH, FOR PROFILES  
7,5-9MM WEIGHT 280 G/LM APPROX

### STD PACK.

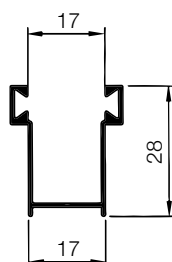
20 SLATS  
6,50LM

### U.M.

LM

## FOR PROFILES 11-14MM

GS28X17



### DESCRIPTION

EXTRUDED ALUMINUM GUIDE RAIL  
28X17MM, FOR REPLACEMENT, WITH  
SEAT FOR ANTI-NOISE GASKET  
OR BRUSH, FOR PROFILES  
11-12-14MM WEIGHT 240 G/LM  
APPROX

### STD PACK.

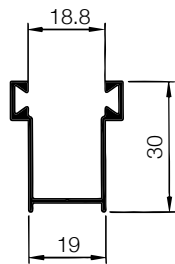
20 SLATS  
6,50LM

### U.M.

LM



**GE30X19**



**DESCRIPTION**

EXTRUDED ALUMINUM GUIDE RAIL 30X19MM FOR REPLACEMENT, WITH SEAT FOR ANTI-NOISE GASKET OR BRUSH, FOR PROFILES 11-12-14MM WEIGHT 281 G/LM APPROX

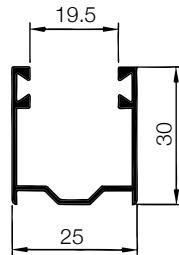
**STD PACK.**

20 SLATS  
6,50LM

**U.M.**

LM

**GE30X25**



**DESCRIPTION**

EXTRUDED ALUMINUM GUIDE RAIL 30X25MM WITH SEAT FOR ANTI-NOISE GASKET OR BRUSH FOR PROFILES 12-14MM WEIGHT 299 G/LM APPROX

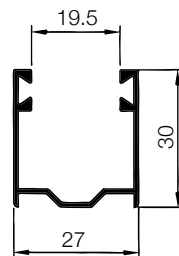
**STD PACK.**

20 SLATS  
6,50LM

**U.M.**

LM

**GE30X27**



**DESCRIPTION**

EXTRUDED ALUMINUM GUIDE RAIL 30X27MM WITH SEAT FOR ANTI-NOISE GASKET OR BRUSH FOR PROFILES 11-14MM WEIGHT 305 G/LM APPROX

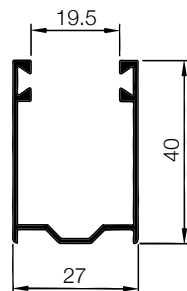
**STD PACK.**

20 SLATS  
6,50LM

**U.M.**

LM

**GE40X27**



**DESCRIPTION**

EXTRUDED ALUMINUM GUIDE RAIL 40X27MM WITH SEAT FOR ANTI-NOISE GASKET OR BRUSH FOR PROFILES 12-14MM WEIGHT 362 G/LM APPROX

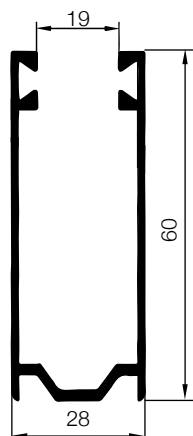
**STD PACK.**

20 SLATS  
6,50LM

**U.M.**

LM

**GE60X28**



**DESCRIPTION**

EXTRUDED ALUMINUM GUIDE RAIL 60X28MM WITH SEAT FOR ANTI-NOISE GASKET OR BRUSH FOR PROFILES 11-12-14MM WEIGHT: 773 G/LM APPROX

**STD PACK.**

10 SLATS  
6,50LM

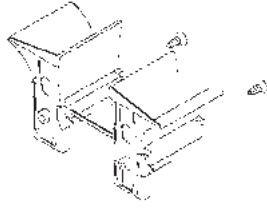
**U.M.**

LM

# ENTRY GUIDES FOR GUIDE RAILS

# ROLLING SHUTTERS

TR-TENYP



**DESCRIPTION**

PAIR OF MINI ENTRY GUIDES  
FOR GUIDE RAILS  
GE26X21,GE35X21,GE40X21

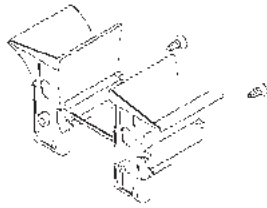
**STD PACK.**

40 PAIRS

**U.M.**

PAIR

TR-TENYG



**DESCRIPTION**

PAIR OF MAXI ENTRY GUIDES  
FOR GUIDE RAILS GE30X27,  
GE40X27

**STD PACK.**

40 PAIRS

**U.M.**

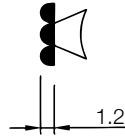
PAIR

## COLOR RANGE

	DESCRIPTION	STANDARD GUIDE RAILS
COLORS	10 WHITE	●
	34 BROWN	●
	33 METALLIZED	●
	63 RAL 1035 GOLD	●
	70 RAL 1013 PEARL WHITE	●

Further colors on request. Contact our office for delivery time and prices.

GG35NOR



**DESCRIPTION**

PVC GASKET FOR PROFILE SAR-115,  
END SLATS AND GUIDE RAILS

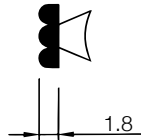
**STD PACK.**

275LM

**U.M.**

LM

GG35MAG



**DESCRIPTION**

MAXI PVC GASKET  
FOR EXTRUDED ALUMINUM  
GUIDE RAILS

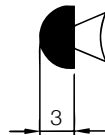
**STD PACK.**

275LM

**U.M.**

LM

GG35SUP



**DESCRIPTION**

MAXI PVC GASKET  
FOR EXTRUDED ALUMINUM GUIDE  
RAILS AND FOR SAR-115

**STD PACK.**

275LM

**U.M.**

LM

GG12PVC



**DESCRIPTION**

PLASTIC GASKET FOR CAVITY  
OF PROFILE SAR-115 AND  
FOR INTERMEDIATE SLAT TE12X55

**STD PACK.**

5 SLATS  
6,50LM

**U.M.**

LM

SP35NOR



**DESCRIPTION**

BRUSH GASKET  
FOR EXTRUDED ALUMINUM GUIDE  
RAILS

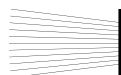
**STD PACK.**

275LM

**U.M.**

LM

SP35MAG



**DESCRIPTION**

MAXI BRUSH GASKET  
FOR EXTRUDED ALUMINUM GUIDE  
RAILS

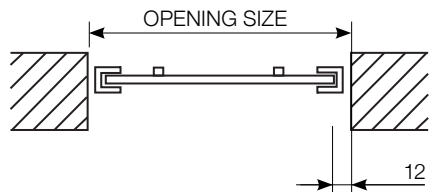
**STD PACK.**

275LM

**U.M.**

LM

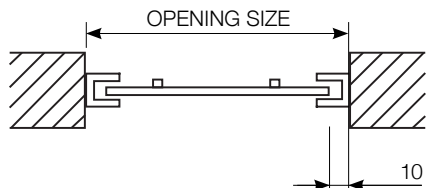
## PROJECTION FRAME



SHUTTER WIDTH = OPENING WIDTH - 24 MM  
SHUTTER HEIGHT = OPENING HEIGHT + 100 MM

No matter which guide is used, it is necessary to leave enough space for the projection frame and for the shutter sliding.

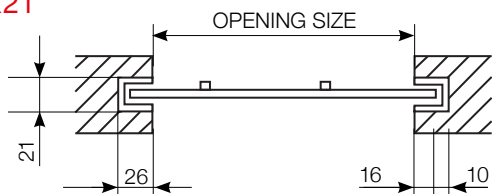
## GUIDE RAILS IN OPENING SIZE



SHUTTER WIDTH = OPENING WIDTH - 20 MM  
SHUTTER HEIGHT = OPENING HEIGHT + 100 MM

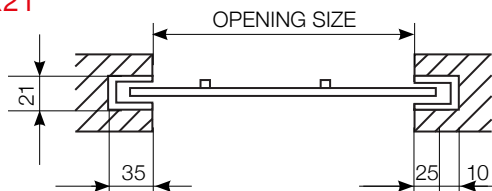
No matter which guide is used, it is necessary to leave enough space for the shutter sliding.

## GE26X21



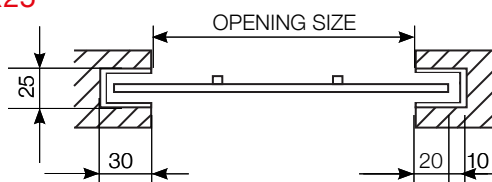
SHUTTER WIDTH = OPENING WIDTH + 32 MM  
SHUTTER HEIGHT = OPENING HEIGHT + 100 MM

## GE35X21



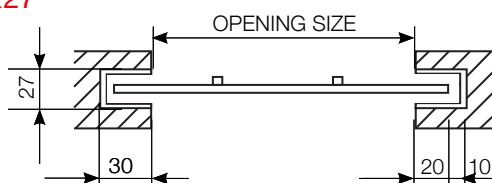
SHUTTER WIDTH = OPENING WIDTH + 50 MM  
SHUTTER HEIGHT = OPENING HEIGHT + 100 MM

## GE30X25



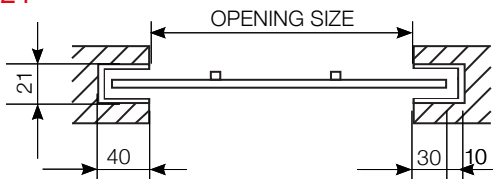
SHUTTER WIDTH = OPENING WIDTH + 40 MM  
SHUTTER HEIGHT = OPENING HEIGHT + 100 MM

## GE30X27



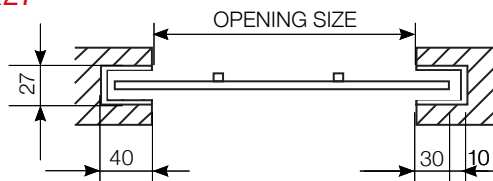
SHUTTER WIDTH = OPENING WIDTH + 40 MM  
SHUTTER HEIGHT = OPENING HEIGHT + 100 MM

### GE40X21



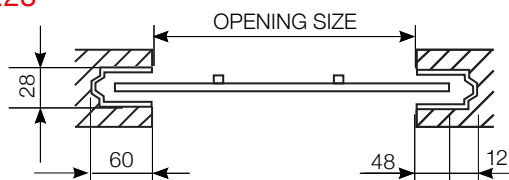
SHUTTER WIDTH = OPENING WIDTH + 60 MM  
SHUTTER HEIGHT = OPENING HEIGHT + 100 MM

### GE40X27



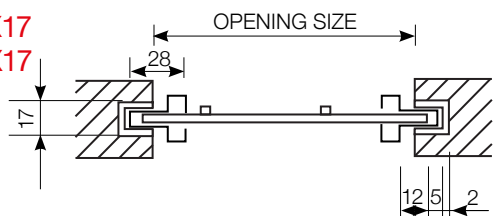
SHUTTER WIDTH = OPENING WIDTH + 60 MM  
SHUTTER HEIGHT = OPENING HEIGHT + 100 MM

### GE60X28



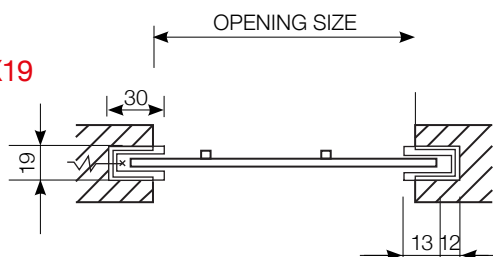
SHUTTER WIDTH = OPENING WIDTH + 96 MM  
SHUTTER HEIGHT = OPENING HEIGHT + 100 MM

### GE28X17 GS28X17



SHUTTER WIDTH = OPENING WIDTH + 24 MM  
SHUTTER HEIGHT = OPENING HEIGHT + 100 MM

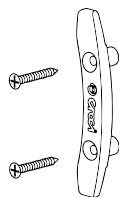
### GE30X19



SHUTTER WIDTH = OPENING WIDTH + 26 MM  
SHUTTER HEIGHT = OPENING HEIGHT + 100 MM



**TLSAR-132C**



**DESCRIPTION**

PVC SIDE PLUG WITH SCREWS FOR PROFILE SAR-132

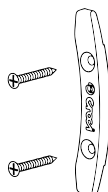
**STD PACK.**

500

**U.M.**

PACK.

**TLSAR-132PC**



**DESCRIPTION**

FLAT PVC SIDE PLUG WITH SCREWS, FOR PROFILE SAR-132

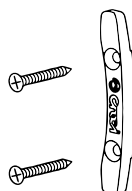
**STD PACK.**

500

**U.M.**

PACK.

**TLSAR-117C**



**DESCRIPTION**

FLAT PVC SIDE PLUG WITH SCREWS, FOR PROFILE SAR-117

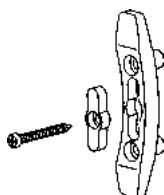
**STD PACK.**

500

**U.M.**

PACK.

**TLSAR-115C**



**DESCRIPTION**

PVC SIDE PLUG WITH SCREWS AND INSERT FOR PROFILE SAR-115

**STD PACK.**

500

**U.M.**

PACK.

**TLES-55**



**DESCRIPTION**

PVC SIDE PLUG FOR PROFILE ES-55

**STD PACK.**

500

**U.M.**

PACK.

**TLES-44**



**DESCRIPTION**

PVC SIDE PLUG FOR PROFILE ES-44

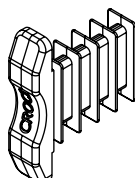
**STD PACK.**

500

**U.M.**

PACK.

**TLES-28**



**DESCRIPTION**

PVC SIDE PLUG FOR PROFILE ES-28

**STD PACK.**

500

**U.M.**

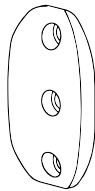
PACK.

TLAR-28  
TLAR-17  
TLAR-55  
TLAR-37



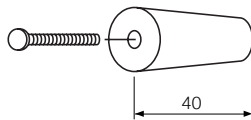
DESCRIPTION	STD PACK.	U.M.
PVC SIDE PLUG FOR PROFILES		
- AR-28	1000	PACK.
- AR-17;	1000	
- AR-32;AC-55;	1000	
- AR-37;	500pairs	

INS-AT



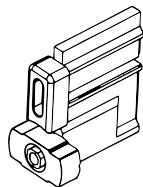
DESCRIPTION	STD PACK.	U.M.
ANTI-STORM INSERT FOR PROFILES SAR-115 AND ES-55 TO APPLY ON SIDE PLUGS TLSAR115C	500	PACK.
The anti-storm insert increases the roll diameter		

TC40



DESCRIPTION	STD PACK.	U.M.
PLASTIC CONIC STOPPER WITH SCREWS	100	PACK.
(COLORS 25-31-34-42-46)		

EM4080E

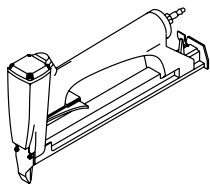


DESCRIPTION	STD PACK.	U.M.
ADJUSTABLE SIDE PLUG FOR END SLAT LIF4307	100	PACK.

# STAPLER AND STAPLES

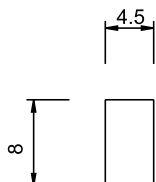
# ROLLING SHUTTERS

P70PNE



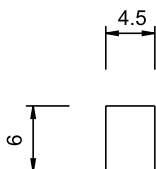
DESCRIPTION	STD PACK.	U.M.
PNEUMATIC STAPLER	1	PACK.

PM703



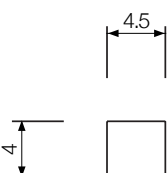
DESCRIPTION	STD PACK.	U.M.
METALLIC STAPLES H408 FOR P70PNE, FOR PROFILES AR-28, AR-32, AR-77	28.000	PACK.

PM704



DESCRIPTION	STD PACK.	U.M.
METALLIC STAPLES H406 FOR P70PNE FOR PROFILE AC-55	25.000	PACK.

PM705



DESCRIPTION	STD PACK.	U.M.
METALLIC STAPLES H404 FOR P70PNE FOR PROFILES AR-17, AR-37	25.000	PACK.

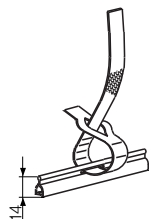
# JUNCTION STRAP

PT45ALL



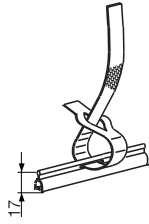
DESCRIPTION	STD PACK.	U.M.
EXTRUDED ALUMINUM PROFILE FOR JUNCTION STRAP FOR PROFILES AC-55 AND SAR-115, PUNCHED SLATS	2 SLATS 3,00LM	LM

5101



DESCRIPTION	STD PACK.	U.M.
JUNCTION STRAP FOR ROLL TUBE WITH ALU PROFILE AND STRAP FOR PROFILES AR-37, AR-17, SAR-117, ES-44	100	PACK.

5102



**DESCRIPTION**

JUNCTION STRAP  
FOR ROLL TUBE WITH ALU PROFILE  
FOR PROFILES  
AR-28, AR-32, SAR-132  
ES-55, ES-28

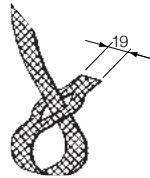
**STD PACK.**

100

**U.M.**

PACK.

CINY1



**DESCRIPTION**

NYLON STRAP - 1 HOLE - 45CM  
FOR ALUMINUM PROFILES

**STD PACK.**

50

**U.M.**

PACK.

CI71RT



**DESCRIPTION**

COTTON-NYLON STRAP

**STD PACK.**

50ML

**U.M.**

PACK.

5001



**DESCRIPTION**

SECURITY SPRING L=100MM  
FOR PROFILES  
AR-37, AR-17, SAR-117, ES-44

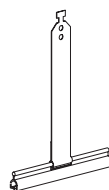
**STD PACK.**

100

**U.M.**

PACK.

5002



**DESCRIPTION**

SECURITY SPRING L=195MM  
FOR PROFILES  
AR-28, AR-32, SAR-132  
ES-28, ES-55

**STD PACK.**

100

**U.M.**

PACK.

2030



**DESCRIPTION**

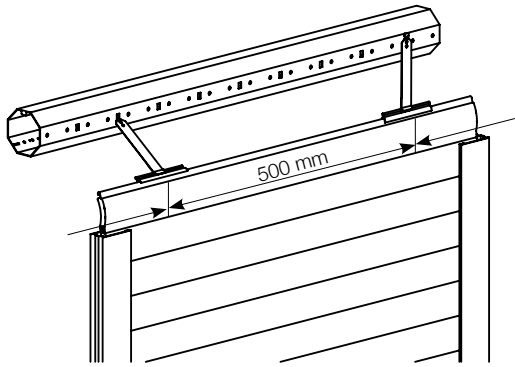
GALVANIZED HOOK - CONNECTING  
THE STRAP TO THE ROLL TUBE

**STD PACK.**

100

**U.M.**

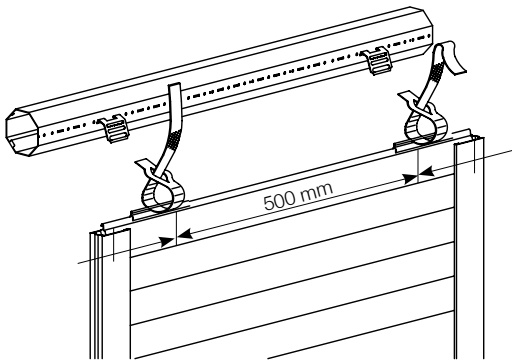
PACK.



**JUNCTION** **PROFILES**

5001 SAR-117, ES-44, AR-37  
AR-17

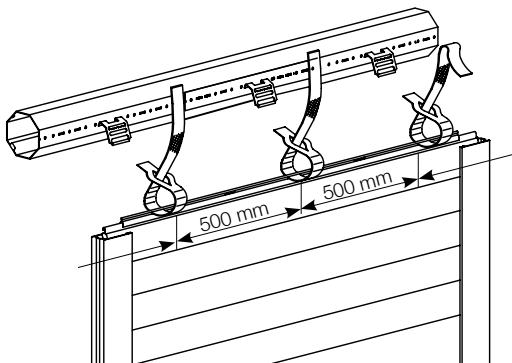
5002 AR-28, SAR-132, ES-28  
AR-32, ES-55



**JUNCTION** **PROFILES**

5101 SAR-117, ES-44, AR-37  
AR-17

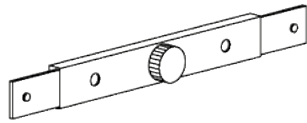
5102 SAR-132, AR-28, AR-32  
ES-55, ES-28



**JUNCTION** **PROFILES**

PT45ALL + CINY1 EVERY 50CM AC-55, SAR-115

SE43I



**DESCRIPTION**

HANDLE LOCK, INSIDE LOCK WITH 2LM STEEL BAR  
*only for standard end slat (not inside/outside rolling)*

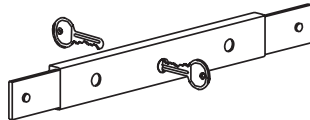
**STD PACK.**

10

**U.M.**

PACK.

SE43E



**DESCRIPTION**

LOCK WITH DOUBLE KEY HOLE - INSIDE AND OUTSIDE WITH 2,00LM STEEL BAR  
*only for standard end slat (not inside/outside rolling)*

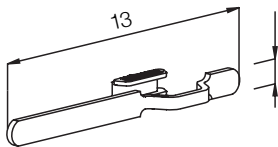
**STD PACK.**

10

**U.M.**

PACK.

CA42AC



**DESCRIPTION**

STEEL SECURITY LATCH ONLY FOR STANDARD END SLAT (NOT INSIDE/OUTSIDE ROLLING)

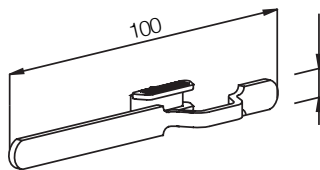
**STD PACK.**

100

**U.M.**

PACK.

CA42ACM100



**DESCRIPTION**

STEEL SECURITY LATCH CUT TO 100CM ONLY FOR STANDARD END SLAT (NOT INSIDE/OUTSIDE ROLLING)

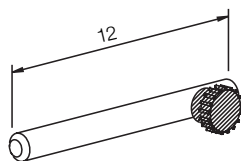
**STD PACK.**

10

**U.M.**

PACK.

CA32F



**DESCRIPTION**

REINFORCED STEEL SECURITY LATCH WITH LOCK HANDLE FOR END SLAT TS12X55 AND TS12X55U

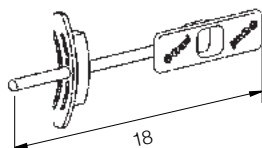
**STD PACK.**

10

**U.M.**

PACK.

CAT-INT



**DESCRIPTION**

INTERMEDIATE SECURITY LATCH SAR-132, AC-55

**STD PACK.**

100

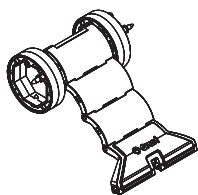
**U.M.**

PACK.



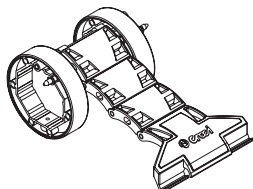
# ROLLING SHUTTERS

SEC40



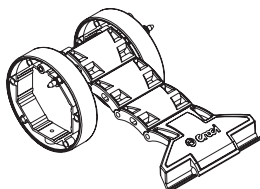
DESCRIPTION	STD PACK.	U.M.
ANTI-LIFTING SECURITY SYSTEM FOR ROLL TUBE 40MM, MINI PROFILES 7,5-9 MM	25	PC

SEC60

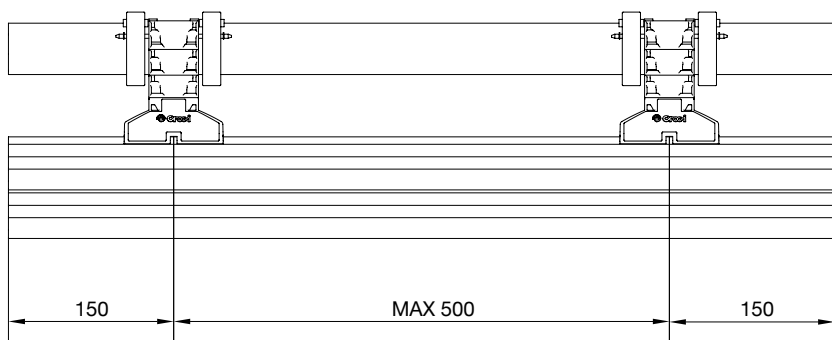


DESCRIPTION	STD PACK.	U.M.
ANTI-LIFTING SECURITY SYSTEM FOR ROLL TUBE 60MM	25	PC

SEC70



DESCRIPTION	STD PACK.	U.M.
ANTI-LIFTING SECURITY SYSTEM FOR ROLL TUBE 70MM	25	PC



## TYPES OF JUNCTIONS

SEC40: PROFILES 7,5-9MM ROLL TUBE 40MM

SEC60: PROFILES 7,5-14MM ROLL TUBE 60MM

SEC60: PROFILES 7,5-14MM ROLL TUBE 70MM

## HOW TO CHOOSE THE SECURITY SYSTEM:

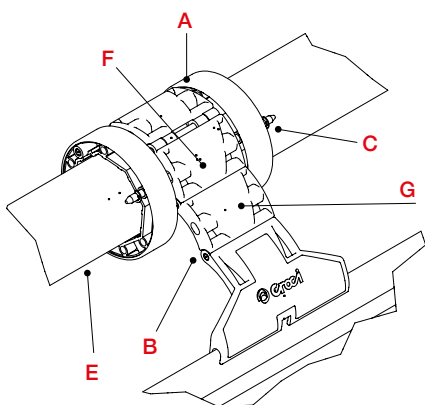
THE SECURITY SYSTEM TYPE IS CHOSEN ACCORDING TO THE ROLL TUBE DIAMETER (40MM - 60MM - 70MM).

A SINGLE CENTRAL PART (B) WITH SEVERAL MESHES BLOCKABLE BY A MOBILE PIN (C) INTO THE MESH LEANING ON THE ROLL TUBE (F)

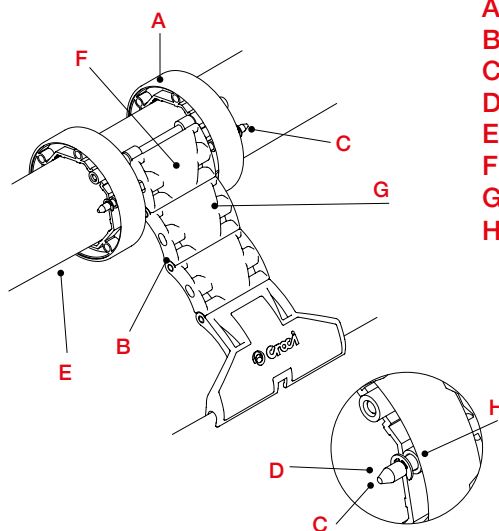
## HOW TO PLACE SECURITY SYSTEM

EXTERNAL UNITS: 150 MM FROM GUIDE RAIL  
INTERMEDIATE UNITS: MAX 500 MM

SHUTTER CLOSE TO THE ROLL TUBE



SHUTTER FAR AWAY FROM THE ROLL TUBE



## LEGENDA

- A** RINGS FOR ROLL TUBE 40-60-70MM
- B** CENTRAL PART
- C** MOBILE PIN
- D** ELASTIC RING
- E** SCREW
- F** MESH LEANING ON ROLL TUBE
- G** FREE MESH
- H** RING HOLES

# LUX Serie





# AriaLUX®

THE VENTED ROLLING SHUTTER  
MORE AIR AND LIGHT



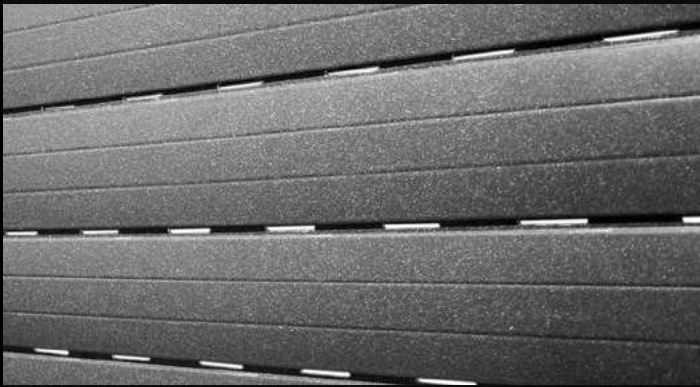
# VisioLUX®

THE MICRO ROLLING SHUTTER  
TRANSPARENCY AND VISIBILITY



# SecurLUX®

THE SAFER ROLLING SHUTTER  
MORE SAFETY AND COMFORT



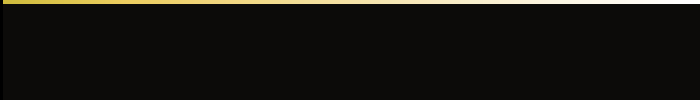
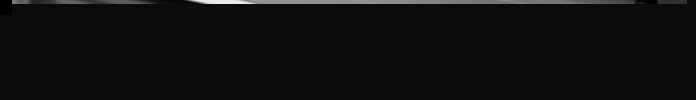
# ThermoLUX®

THE SMART ROLLING SHUTTER  
ENERGY EFFICIENCY AND COMFORT



# AxioLUX®

THE TILTING SHUTTER  
SUN CONTROL AND SAFETY



LUX  
SERIE

# Aria LUX<sup>®</sup>

EXTRUDED ALUMINUM



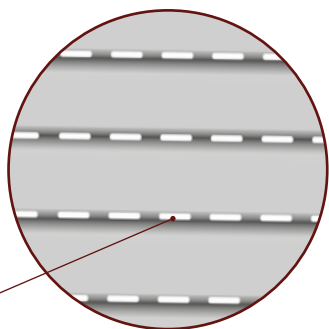
THE SHUTTER ARIALUX IN FULL LOWER POSITION WITH OPEN SLOTS ALLOWS MORE SUNLIGHT AND AIR RECYCLING.

ARIALUX is a shutter with an innovative Design that differently from common shutters brings remarkable natural light and ventilation thanks to innovative longer slots. Keeping rooms well-illuminated and ventilated is an essential requisite for a healthy living and to protect your home from mould and microorganisms.\*

Modern life-rhythms in combination with the need of safety often prevent sufficient ventilation through open windows during the daytime.

ARIALUX thanks to its special slotted profiles allows an adequate air recycling even with the shutter in full lower position.

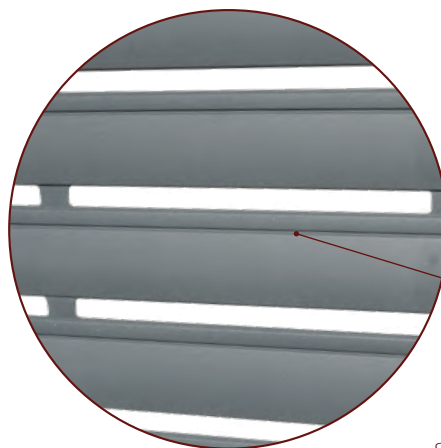
\* Green Building Council UK "Health and Wellbeing in Homes" London, Sept 2017.



**TRADITIONAL SHUTTER**

slot: **20x1,5 mm**

Air permeability (sqm): 0,013 sqm about



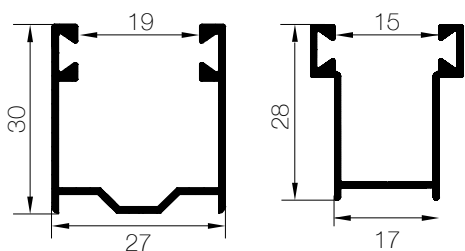
**ARIALUX**

slot: **240x13 mm**

Air permeability (sqm): 0,17 sqm

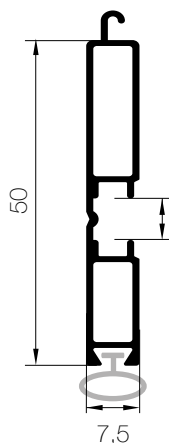
**13 TIME MORE VENTILATION AND NATURAL LIGHTING THAN A TRADITIONAL ROLLING SHUTTER**

**GUIDE RAILS**

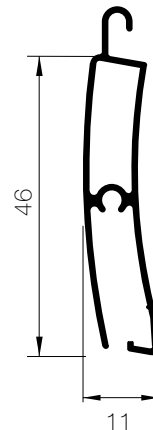


N.B. ARIALUX can be installed with traditional guide rails (also for replacement) using the suitable gasket

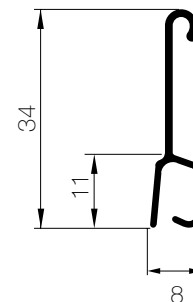
**BOTTOM PROFILE**



**SLATS**



**CONNECTOR**



**TECHNICAL SPECIFICATIONS**

Width: max recommended 3000 mm

Weight/sqm 9,2 kg

Height: max recommended 3000 mm

17 slats/m

**ROLLING DIAMETER**

	HEIGHT (mm)							
	1000	1300	1600	1900	2200	2500	2800	3000
Roll Ø70*	170	190	205	205	225	230	250	250

\*The using of 60 mm roll tube after technical approval only.

**STOCK COLORS ALUMINIUM PROFILES**

RAL 9010	RAL 1013	RAL 6005	RAL 8017	RAL 7016	RAL 7035	RAL 9006
g-tot*: 0,02	g-tot*: 0,02	g-tot*: 0,07	g-tot*: 0,08	g-tot*: 0,07	g-tot*: 0,04	g-tot*: 0,04





LUX  
SERIE

# Visio LUX<sup>®</sup>

EXTRUDED ALUMINUM



VISIOLUX SHUTTER ALLOWS NATURAL VENTILATION AND A HIGH VISIBILITY THROUGH THE SLATS STILL GRANTING PRIVACY.

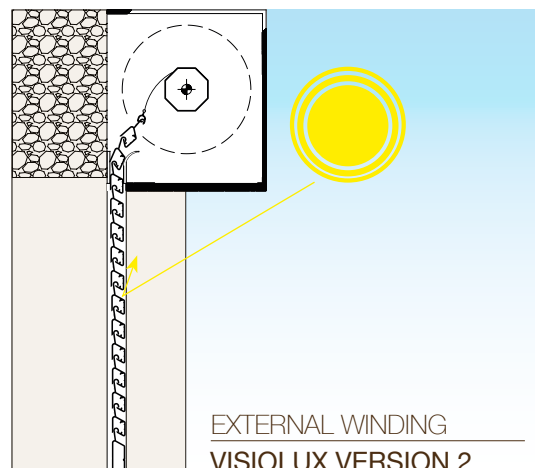
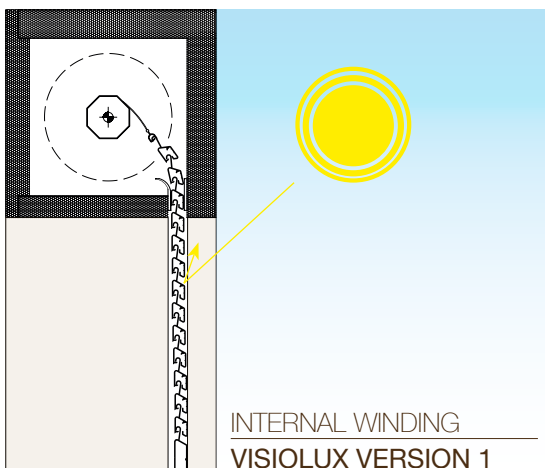
VISIOLUX is available in two versions: with internal or external winding.

The special asymmetrical design of the slats allows to reduce the visual obstruction towards the exterior, granting an optimal level of contact with the external environment still avoiding to be seen from outside.

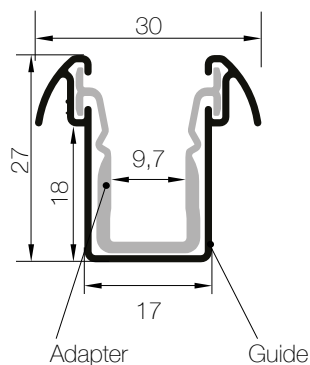
VISIOLUX rolling shutter is a terrific mix combination of design, technology and performance. It is one-of-a-kind and it will provide privacy, by increasing the visibility to the outside and reducing it towards the inside.

VISIOLUX with closed slats provides complete black out (darkening). With open slats regulates the natural light to allow high living comfort and intimacy levels.





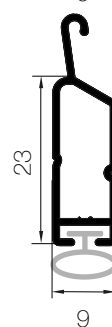
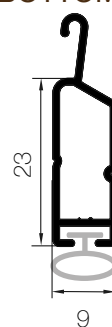
### GUIDE RAILS



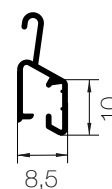
N.B. Standard guide rails for VISIOLUX system with pvc internal adapter profile guarantee high level of quietness.

Check the matching adapter profile if using different kind of guide rails.

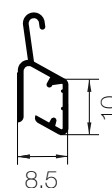
### BOTTOM PROFILE



### SLATS



version 1



version 2

## TECHNICAL SPECIFICATIONS

Width: max recommended 2350 mm	Weight/sqm 12,3 kg
Height: max recommended 3000 mm	100 slats/m

RESISTANCE CLASS 5 up to maximum recommended width.

### ROLLING DIAMETER

Roll Ø 60	HEIGHT (mm)															
	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000
	155	170	175	190	195	205	220	225	235	240	245	250	255	265	270	275

### STOCK COLORS ALUMINIUM PROFILES

RAL 9010	RAL 1013	RAL 6005	RAL 8017	RAL 7016	RAL 7035	RAL 9006
g-tot*: 0,02	g-tot*: 0,02	g-tot*: 0,07	g-tot*: 0,08	g-tot*: 0,07	g-tot*: 0,04	g-tot*: 0,04



\* EN 14501- glass type C-external shading device

Further colors can be available upon request.

LUX  
SERIE

# Secur LUX<sup>®</sup>

EXTRUDED ALUMINUM



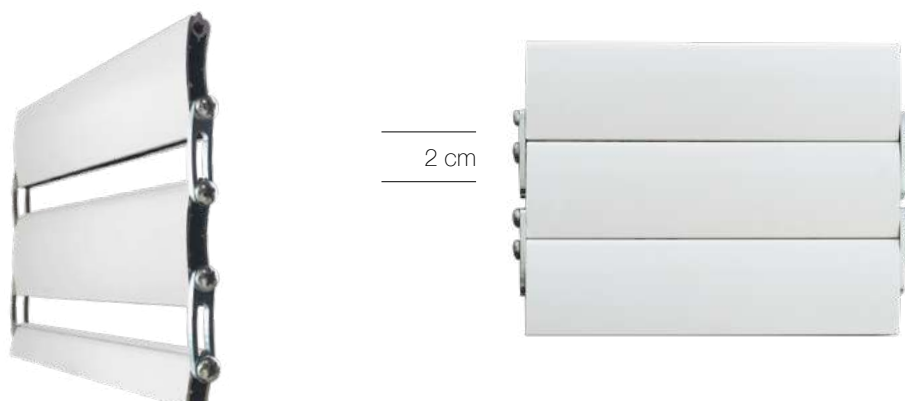
THE SECURITY SHUTTER SECURLUX MADE OF EXTRUDED ALUMINUM WITH A MODERN DESIGN AND EASY TO INSTALL.

SECURLUX means three functions in one: + safety + sunlight and fresh air.

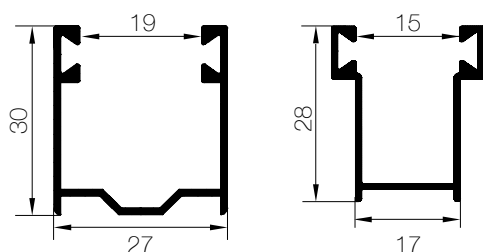
Thanks to the larger gap between the slats, securlux improves natural lighting and air recycling in the rooms without needing to raise the shutter completely, making your privacy and security safer.

SECURLUX does not need masonry installation works, so it is ideal for renovations.

AIR GAP IN GRILLE  
POSITION: 2 cm

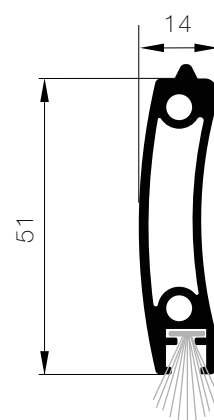


### GUIDE RAILS



N.B. SECURLUX can be installed with traditional guide rails (also for replacement) using the suitable gasket

### PROFILES



Slat = bottom profile

### TECHNICAL SPECIFICATIONS

Width: max recommended 2300 mm

Weight/sqm 19 kg

Height: max recommended 2500 mm

20 slats/m

### ROLLING DIAMETER

Roll Ø 70*	HEIGHT (mm)															
	800	1000	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
	220	220	230	230	230	240	240	250	250	255	255	260	265	265	265	270

\*The using of 60 mm roll tube after technical approval only.

### STOCK COLORS ALUMINIUM PROFILES

RAL 9010	RAL 1013	RAL 6005	RAL 8017	RAL 7016	RAL 7035	RAL 9006
g-tot*: 0,02	g-tot*: 0,02	g-tot*: 0,07	g-tot*: 0,08	g-tot*: 0,07	g-tot*: 0,04	g-tot*: 0,04



\* EN 14501- glass type C-external shading device

Further colors can be available upon request.



LUX  
SERIE

# Thermo LUX<sup>®</sup>

EXTRUDED ALUMINUM



THERMOLUX IS A NEW GENERATION SHUTTER THAT COMBINES WITH ELEGANCE ENERGY SAVING AND SECURITY.

The external part in extruded aluminium provides a high security level against intrusions, while the inner part in PVC (white color) provides high thermal insulation.

The high quality of the materials used grants the product durability.

THERMOLUX shutter has been tested in laboratory to measure the additional thermal resistance<sup>1</sup> and the level of resistance to break-in attempts.<sup>2</sup>

<sup>1</sup> UNI EN ISO 10077-1:2007 THERMAL TRANSMITTANCE

<sup>2</sup> UNI EN 1627:2011 BURGLAR RESISTANCE

<sup>2</sup> UNI EN 1628:2016 RESISTANCE UNDER STATIC LOADING

<sup>2</sup> UNI EN 1629:2016 RESISTANCE UNDER DYNAMIC LOADING

<sup>2</sup> UNI EN 1630:2016 RESISTANCE TO MANUAL BURGLARY ATTEMPTS



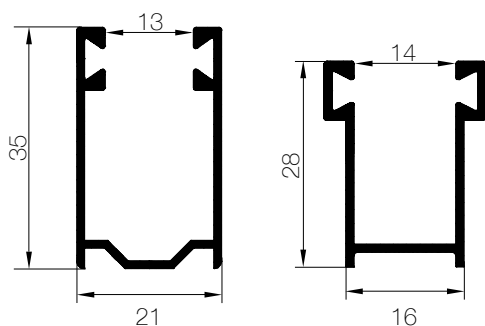
PVC available color: white

The inner part, in PVC, reduces thermal transmittance.

$\Delta R = 0,119 (m^2 \cdot K) / W$

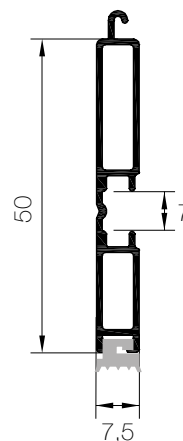
The extruded aluminum exterior shell guarantees a high rate of security against intrusions.

### GUIDE RAILS

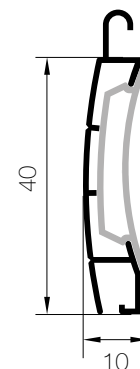


N.B. THERMOLUX can be installed with traditional guide rails (also for replacement) using the suitable gasket

### BOTTOM PROFILE



### PROFILES



## TECHNICAL SPECIFICATIONS

Width: max recommended 2500 mm	Weight/sqm 7 kg
Height: max recommended 2600 mm	25 slats/m

## ROLLING DIAMETER

Roll Ø 60	HEIGHT (mm)							
	1200	1400	1600	1800	2000	2200	2400	2600
	145	155	160	170	180	185	190	195

## STOCK COLORS ALUMINIUM PROFILES

RAL 9010	RAL 1013	RAL 6005	RAL 8017	RAL 7016	RAL 7035	RAL 9006
g-tot*: 0,02	g-tot*: 0,02	g-tot*: 0,07	g-tot*: 0,08	g-tot*: 0,07	g-tot*: 0,04	g-tot*: 0,04



\* EN 14501- glass type C-external shading device

Further colors can be available upon request.

LUX  
SERIE

# AXIO LUX<sup>®</sup>

EXTERNAL WINDING



AXIOLUX IS A ROLLING SHUTTER WITH TILTING SLATS FOR AN OPTIMAL SUN CONTROL, DARKENING, INSULATION AND ANTI-INTRUSION SECURITY

AXIOLUX is composed of fixed and tilting slats.

Fixed slats are placed on the upper and lower sectors of the shutter to grant rigidity. The tilting slats, while descending, are open and gradually close at the end-stop.

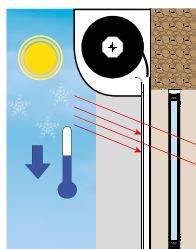
AXIOLUX Design is minimal and it has been conceived to grant durability by assuring resistance and safety.

AXIOLUX with the slats open, allows natural ventilation in the house and the integrated version, in combination with an insect screen, adds protection against insects.

AXIOLUX provides an important contribution to both managing the passive heat gains and the home security.

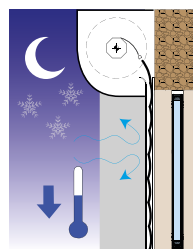


### WINTER



#### DAY TIME:

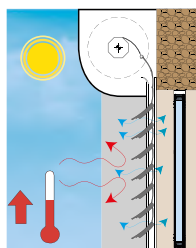
Completely rolled up AXIOLUX contributes to energy saving by allowing the solar heat to enter the windows and heat up the room.



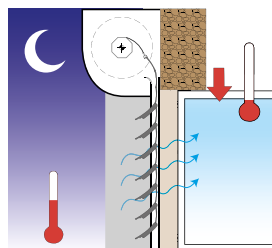
#### NIGHT TIME:

With closed slats AXIOLUX protects the room and contributes to increase thermal insulation of the window. EN 10077-1

### SUMMER

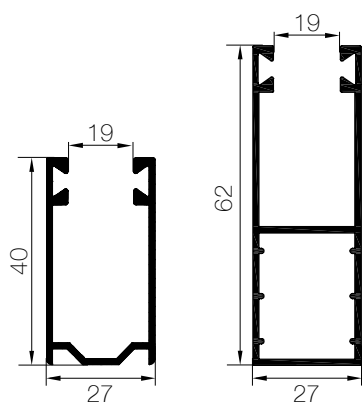


With closed slats AXIOLUX insulates from heat while with tilted slats, reduces passive solar heat gains (g-tot), by creating natural ventilation through the slats.

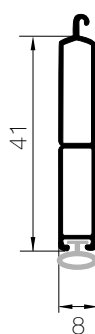


With tilted slats AXIOLUX keeps safety allowing good natural ventilation. When installed with an integrated insect screen it combines natural ventilation and insect protection.

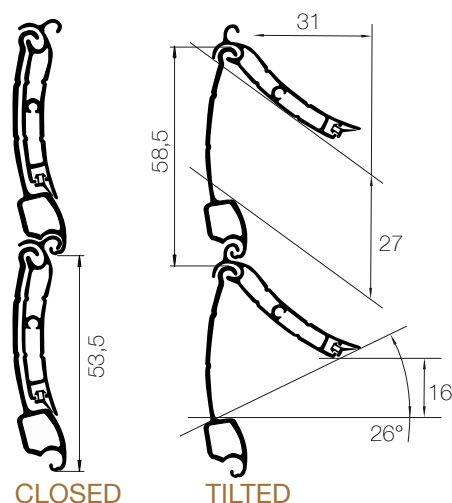
### GUIDING PROFILES



### BOTTOM PROFILE



### SLATS



Attention: AXIOLUX could be installed in traditional side guide rails and with external shutterboxes. (min.width 13 mm, max depth 35 mm)

### TECHNICAL SPECIFICATIONS

Width: max recommended 2400 mm	Weight/sqm 10,5 kg
Height: max recommended 3000 mm	18 slats/m

### ROLLING DIAMETER

Roll Ø 60	HEIGHT (mm)					
	1200	1500	1800	2000	2500	3000
	165	180	200	200	220	240

### STOCK COLORS ALUMINIUM PROFILES

RAL 9010	RAL 1015	RAL 7038	RAL 8019	RAL 7016
g-tot*: 0,02 g-tot* 45°: 0,10	g-tot*: 0,03 g-tot* 45°: 0,10	g-tot*: 0,04 g-tot* 45°: 0,10	g-tot*: 0,08 g-tot* 45°: 0,09	g-tot*: 0,07 g-tot* 45°: 0,09



\* EN 14501- glass type C-external shading device

Further colors can be available upon request.



GIRASOLE.2

**GIRASOLE.2**



GIRASOLE.2 The adjustable shutter with mosquito net.

The shutter, thanks to its adjustable slats, becomes a sunscreen that allows us to regulate the flow of light and air.

Easy to install, to use and to maintain, this product is the most adaptable for any requirement.

# GIRASOLE.2

## THE ADJUSTABLE SHUTTER



SHUTTER

### TECHNICAL DATA

Max width: 3000 mm

Max height: 3000 mm

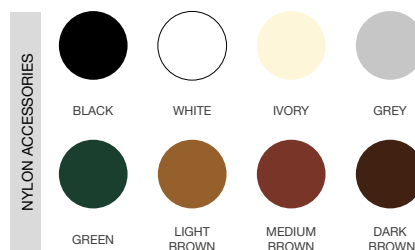
Weight per sqm 9,2 kg



SUNSCREEN



MOSQUITO NET



The company plans to add further colors on request. For updates: [zanzar.it /colori/service](http://zanzar.it/colori/service)

## HORIZONTAL SECTION

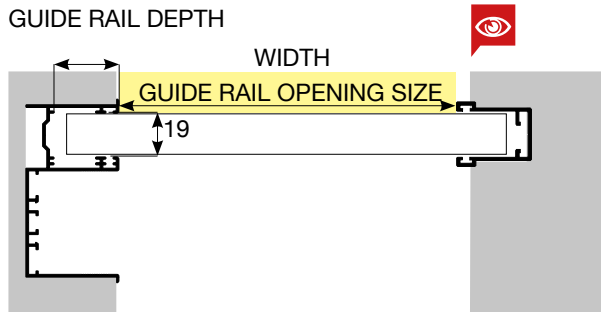


Fig. 1

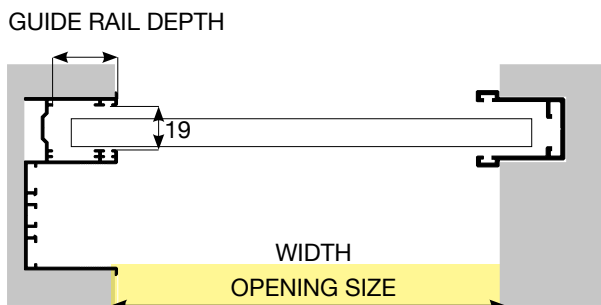


Fig. 2

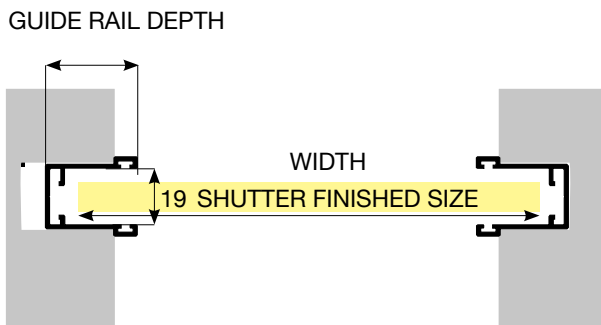


Fig. 3

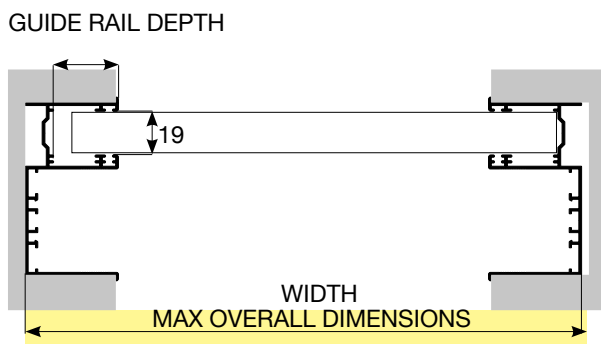


Fig. 4

### HOW TO ORDER

Sizes should be indicated in mm. width x height possibly in the guide rail opening size (fig.1) (fig. 5)

The guide rail depth must be indicated and included between a minimum of 20 mm and a maximum of 30mm

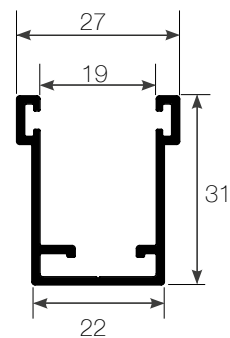
NOTE: Sizes invoiced will be the finished ones: approx. 20% more than the opening sizes (when the shutter turns into a sunscreen, the slats will fit into the slot, each one for approx. 8mm; like in figure 6-7).

### ATTENTION

Make sure that the internal width of the guide rail is minimum 19mm.

The shutterbox having 150 mm centre distance will be considered to be standard; higher centre distances must be specified in the order.

### STANDARD GUIDE RAIL



## INTERNAL ROLLING

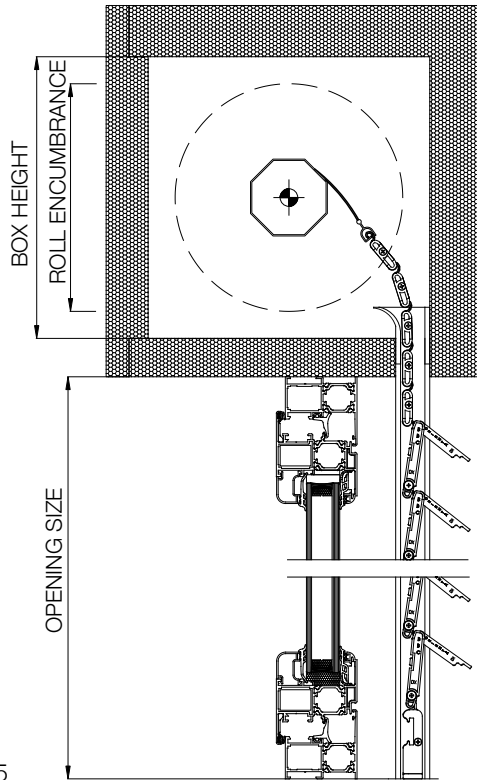
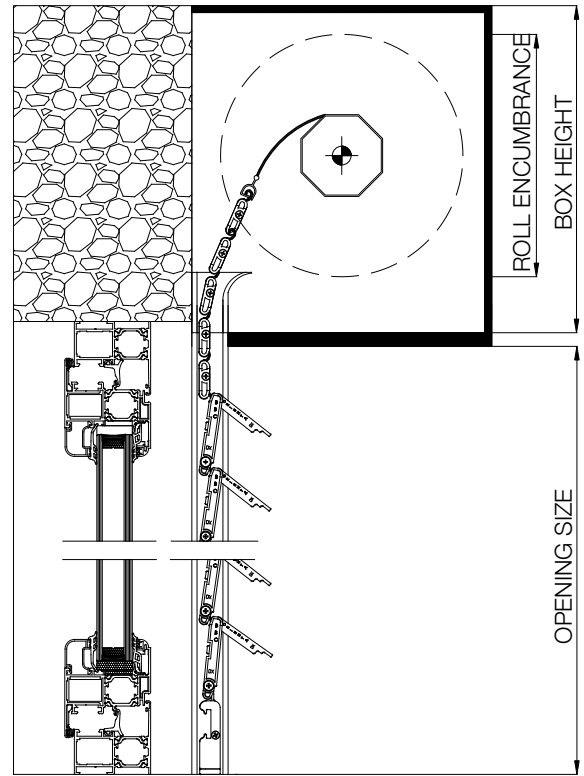


Fig. 5

## EXTERNAL ROLLING



## VERTICAL SECTION

### SLATS OPEN

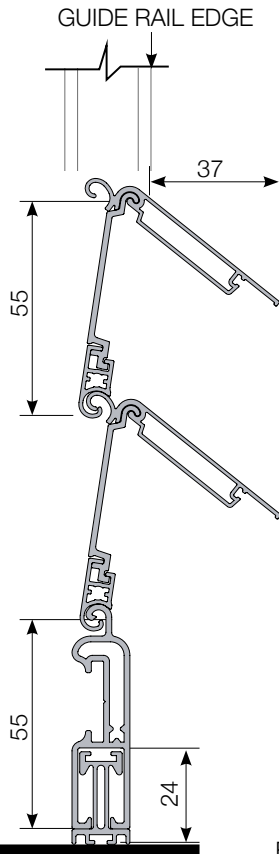


Fig. 6

### SLATS CLOSED

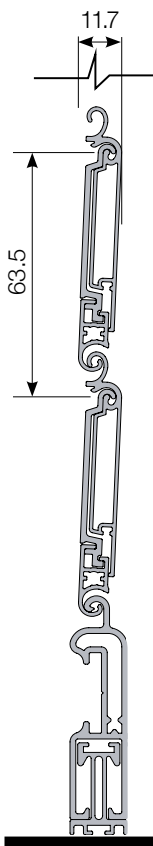


Fig. 7

The chart indicates the maximum encumbrance of the shutter completely rolled on the basis of the finished height size.

### ROLL TUBE ENCUMBRANCE

HEIGHT (mm) Opening size	Encumbrance with Ø 60 roll tube
1600	175
1800	185
2000	200
2200	205
2400	220
2600	225
2800	240
3000	250

Minimum order 1,50 sqm.

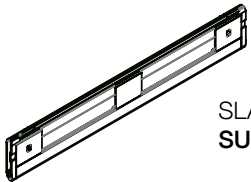


## INTERMEDIATE SUPPORT

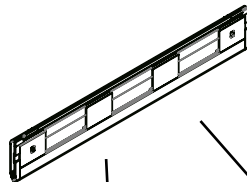
WIDTH BELOW 1000 MM WITHOUT SUPPORT

WIDTH FROM 1001 TO 2000 MM

WIDTH FROM 2001 TO 3000 MM



SLAT WITH ONE INTERMEDIATE SUPPORT



SLAT WITH 2 INTERMEDIATE SUPPORTS







SHUTTERBOX



# SHUTTERBOX

The demand for security, privacy or room darkening; together with new needs of energy saving and acoustic protection lead consumers to close and protect even those places where rolling shutters (or other types of locking systems) were not planned.



### CROCI SOLUTION: UNIBOX

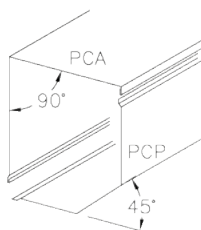
Shutterbox which allows the installation of security rolling shutters with an external application in the window opening. It is perfect for houses with verandas and glass doors. Moreover, its use has been successful in businesses like seaside resorts, stalls and shopping mall windows.

Pre-painted aluminum UNIBOX shutterbox is available in two models (round and 45degrees) and in different sizes to minimize the obstruction according to the rolling diameter of the rolling shutter that it will contain.

MINI-SHUTTERBOX  
PROFILES  
UNIBOX

# SHUTTERBOX

CA45-137  
CA45-150  
CA45-165  
CA45-180  
CA45-205\*  
CA45-230\*



**DESCRIPTION**

45° SHUTTERBOX  
IN 2 ALUMINUM PARTS  
DIM. 137, 150, 165, 180, 205  
AND 230MM

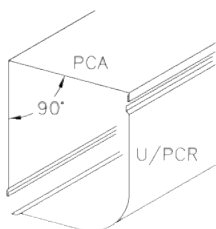
**STD PACK.**

5 SLATS  
6,50LM  
\*3 SLATS  
6,50LM

**U.M.**

LM

U-CARD-137  
U-CARD-150  
U-CARD-165  
U-CARD-180  
U-CARD-205\*  
U-CARD-230\*



**DESCRIPTION**

ROUND SHUTTERBOX IN 2  
ALUMINUM PARTS  
DIM. 137, 150, 165, 180, 205  
AND 230MM

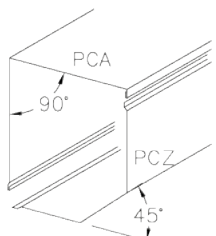
**STD PACK.**

5 SLATS  
6,50LM  
\*3 SLATS  
6,50LM

**U.M.**

LM

Z-CA45-165  
Z-CA45-180  
Z-CA45-205\*  
Z-CA45-230\*



**DESCRIPTION**

45° SHUTTERBOX  
IN 2 ALUMINUM PARTS  
DIM. 165,180, 205 AND 230MM  
FOR INSECT SCREEN

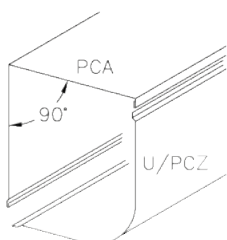
**STD PACK.**

5 SLATS  
6,50LM  
\*3 SLATS  
6,50LM

**U.M.**

LM

Z-U-CARD-165  
Z-U-CARD-180  
Z-U-CARD-205  
Z-U-CARD-230



**DESCRIPTION**

ROUND SHUTTERBOX IN 2  
ALUMINUM PARTS  
DIM. 165,180, 205 AND 230MM  
FOR INSECT SCREEN

**STD PACK.**

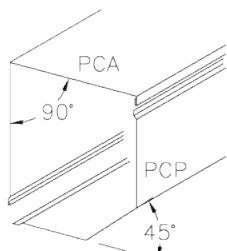
5 SLATS  
6,50LM  
\*3 SLATS  
6,50LM

**U.M.**

LM

MAXI-SHUTTERBOX  
UNIBOX

CA45-250  
CA45-300



**DESCRIPTION**

45° SHUTTERBOX  
IN 2 ALUMINUM PARTS  
DIM. 250 AND 300MM

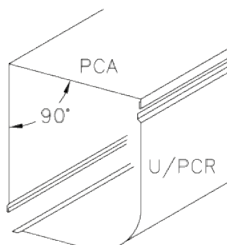
**STD PACK.**

3 SLATS  
6,50LM

**U.M.**

LM

U-CARD-250  
U-CARD-300



**DESCRIPTION**

ROUND SHUTTERBOX IN 2  
ALUMINUM PARTS  
DIM. 250 AND 300MM

**STD PACK.**

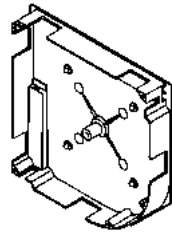
3 SLATS  
6,50LM

**U.M.**

LM



U-FI137-45  
U-FI150-45  
U-FI165-45  
U-FI180-45  
U-FI205-45\*  
U-FI230-45\*



**DESCRIPTION**

45° ALUMINUM SIDE FRAME  
FOR MINI-SHUTTERBOX

DIM. 137, 150, 165, 180, 205  
AND 230MM

**STD PACK.**

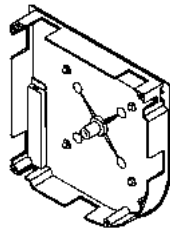
20 PAIRS

\*10 PAIRS

**U.M.**

PAIR

U-FI137-RD  
U-FI150-RD  
U-FI165-RD  
U-FI180-RD  
U-FI205-RD\*  
U-FI230-RD\*



**DESCRIPTION**

ROUND ALUMINUM SIDE FRAME  
FOR MINI-SHUTTERBOX

DIM. 137, 150, 165, 180, 205  
AND 230MM

**STD PACK.**

20 PAIRS

\*10 PAIRS

**U.M.**

PAIR

U-BAY



**DESCRIPTION**

GALVANIZED BAYONET 16X3MM FOR  
SIDE FRAMES 137, 150, 165, 180, 205  
AND 230MM.

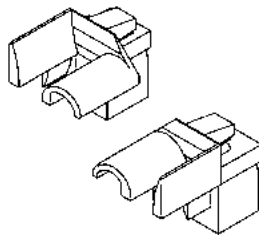
**STD PACK.**

10 PAIRS

**U.M.**

PAIR

U-TENYP  
U-TENYG



**DESCRIPTION**

NYLON ENTRY GUIDE  
FOR SIDE FRAMES 137, 150, 165,  
180, 205 AND 230MM  
FOR PROFILES 7,5-9MM  
FOR PROFILES 11-14MM

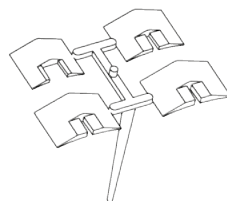
**STD PACK.**

10 PAIRS

**U.M.**

PAIR

U-SPL01



**DESCRIPTION**

FILLING SPACES  
FOR 45 ° SIDE FRAMES 137, 150, 165  
AND 180

**STD PACK.**

40

**U.M.**

PC

U-FB137-40  
U-FB150-60  
U-FB165-60  
U-FB180-60  
U-FB205-60  
U-FB230-60



**DESCRIPTION**

LATERAL GALVANIZED SAFETY  
PLATE, SUITABLE FOR SIDE FRAMES  
45° AND ROUND, ROLL TUBE 40-  
60MM DIM. 137 (ONLY ROLL TUBE  
40MM), 150, 165, 180, 205 AND  
230MM

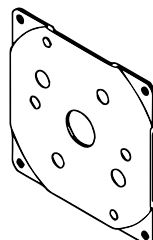
**STD PACK.**

10 PAIRS

**U.M.**

PAIR

U-SUP01



**DESCRIPTION**

GALVANIZED ACCESSORIES PLATE  
FOR CRANK

**STD PACK.**

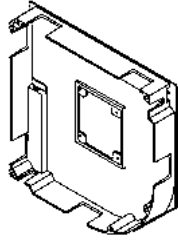
10

**U.M.**

PC

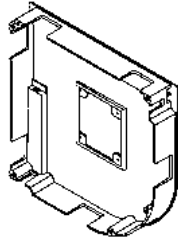
# SHUTTERBOX

U-FI250-45  
U-FI300-45



DESCRIPTION	STD PACK.	U.M.
45° ALUMINUM SIDE FRAME FOR MAXI-SHUTTERBOX	5 PAIRS	PAIR
DIM. 250 AND 300MM		

U-FI250-RD  
U-FI300-RD



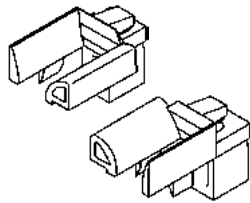
DESCRIPTION	STD PACK.	U.M.
ROUND ALUMINUM SIDE FRAME FOR MAXI-SHUTTERBOX	5 PAIRS	PAIR
DIM. 250 AND 300MM		

U-BAY2



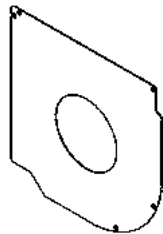
DESCRIPTION	STD PACK.	U.M.
GALVANIZED BAYONET 20X4MM FOR SIDE FRAMES 250 AND 300MM	5 PAIRS	PAIR

U-TENYG2



DESCRIPTION	STD PACK.	U.M.
NYLON ENTRY GUIDE FOR SIDE FRAMES 250 AND 300MM FOR PROFILES 12-14MM	5 PAIRS	PAIR

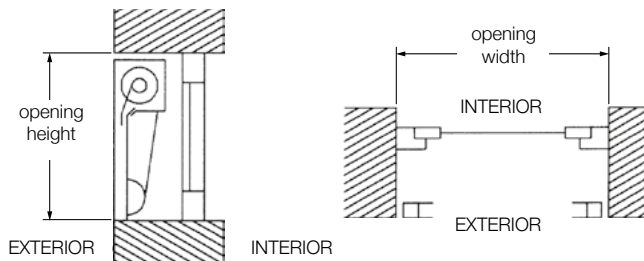
U-FB250-60



DESCRIPTION	STD PACK.	U.M.
45° AND ROUNDED LATERAL GALVANIZED SAFETY PLATE, SUITABLE FOR SIDE FRAMES 250MM	5 PAIRS	PAIR
FOR ROLL TUBE 60-70MM		

## APPLICATION NR. 1

SHUTTERBOX IN OPENING WIDTH AND HEIGHT WITH INTERNAL ROLLING (NORMAL)



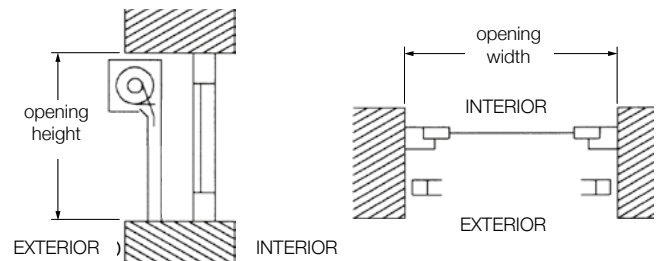
TAPE GUIDE AND JOINT MOUNTED IN LOWER PART

### FINISHED SIZES

SHUTTERBOX PROFILE	ROLLING SHUTTER WITH SIDE PLUGS
<b>MINI*</b> L=OPEN. WIDTH - 0,7CM	<b>MINI*</b> L=OPEN. WIDTH - 6,6CM
<b>MAXI*</b> L=OPEN WIDTH - 0,9CM	<b>MAXI*</b> L= OPEN. WIDTH -8,4CM

## APPLICATION NR. 2

SHUTTERBOX IN OPENING WIDTH AND HEIGHT WITH EXTERNAL ROLLING (INVERSION)

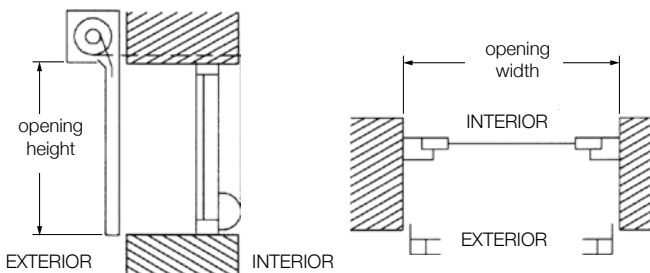


### FINISHED SIZES

SHUTTERBOX PROFILE	ROLLING SHUTTER WITH SIDE PLUGS
<b>MINI*</b> L=OPEN. WIDTH - 0,7CM	<b>MINI*</b> L=OPEN. WIDTH - 6,6CM
<b>MAXI*</b> L=OPEN WIDTH - 0,9CM	<b>MAXI*</b> L= OPEN. WIDTH -8,4CM

## APPLICATION NR. 3

SHUTTERBOX IN OPENING WIDTH AND HEIGHT OUT OF OPENING SIZE WITH EXTERNAL ROLLING (INVERSION)



### FINISHED SIZES

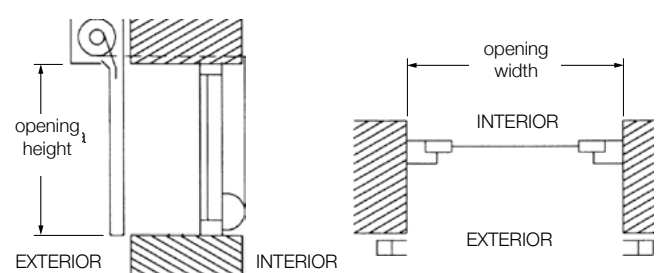
SHUTTERBOX PROFILE	ROLLING SHUTTER WITH SIDE PLUGS
<b>MINI*</b> L=OPEN. WIDTH - 0,7CM	<b>MINI*</b> L=OPEN. WIDTH - 6,6CM
<b>MAXI*</b> L=OPEN WIDTH - 0,9CM	<b>MAXI*</b> L= OPEN. WIDTH -8,4CM

To calculate finished sizes we consider a gap of 2mm

only for "L" guide rails

## APPLICATION NR. 5

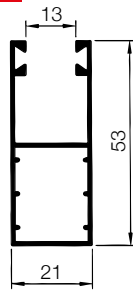
SHUTTERBOX OUT OF OPENING WIDTH AND HEIGHT WITH EXTERNAL ROLLING (INVERSION)



### FINISHED SIZES

SHUTTERBOX PROFILE	ROLLING SHUTTER WITH SIDE PLUGS
<b>MINI</b>	<b>MINI</b>
GE53X21: W = OPEN. W. + 10,1CM	GE53X21: W = OPEN. W. +4,2 CM
GE62X21: W = OPEN W. + 11,9 CM	GE62X21: W = OPEN W. + 6 CM
GE62X28: W = OPEN W. + 11,9 CM	GE62X28: W = OPEN W. + 6 CM
GE80X28: W. = OPEN W. +15,5 CM	GE80X28: W. = OPEN W. + 9,4 CM
<b>MAXI</b>	<b>MAXI</b>
GE458028: W = OPEN. W. + 15,3 CM	GE458028: W = OPEN. W. + 7,6 CM

**GE53X21**



**DESCRIPTION**

EXTRUDED ALUM. GUIDE RAIL  
53X21MM WITH SEAT FOR ANTI-  
NOISE GASKET OR BRUSH FOR  
PROFILES 7,5-9MM  
WEIGHT: 477 G/LM APPROX

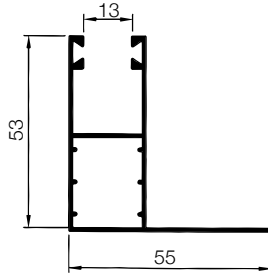
**STD PACK.**

10 SLATS  
6,50LM

**U.M.**

LM

**GE53X21A**



**DESCRIPTION**

EXTRUDED ALUM. GUIDE RAIL  
53X21MM WITH "L" WITH SEAT FOR  
ANTI-NOISE GASKET OR BRUSH FOR  
PROFILES  
7,5-9MM WEIGHT 569 G/LM APPROX.

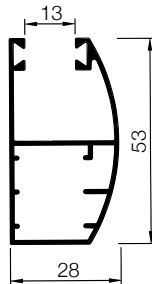
**STD PACK.**

10 SLATS  
6,50LM

**U.M.**

LM

**GE53X28R**



**DESCRIPTION**

EXTRUDED ALUM. ROUNDED GUIDE  
RAIL 53X28MM WITH SEAT FOR  
ANTI-NOISE GASKET OR BRUSH,  
FOR PROFILES 7,5-9MM WEIGHT 541  
G/LM APPROX.

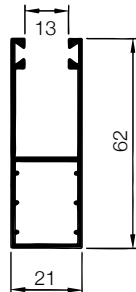
**STD PACK.**

10 SLATS  
6,50LM

**U.M.**

LM

**GE62X21**



**DESCRIPTION**

EXTRUDED ALUM. RAIL 62X21MM  
WITH SEAT FOR ANTI-NOISE GASKET  
OR BRUSH FOR PROFILES 7,5-9MM  
WEIGHT 598 G/LM APPROX.

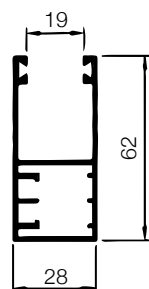
**STD PACK.**

10 SLATS  
6,50LM

**U.M.**

LM

**GE62X28**



**DESCRIPTION**

EXTRUDED ALUM. GUIDE RAIL  
62X28MM WITH SEAT FOR ANTI-  
NOISE GASKET OR BRUSH  
FOR PROFILES 12-14MM  
WEIGHT: 750 G/LM APPROX

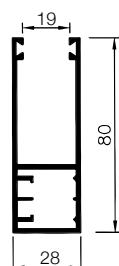
**STD PACK.**

10 SLATS  
6,50LM

**U.M.**

LM

**GE80X28**



**DESCRIPTION**

GUIDE RAIL 80X28MM  
WITH SEAT FOR ANTI-NOISE GASKET  
OR BRUSH  
FOR PROFILES 12-14MM  
WEIGHT 1164 G/LM APPROX

**STD PACK.**

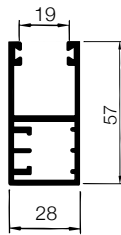
5 SLATS  
6,50LM

**U.M.**

LM

ALL GUIDE RAILS CAN BE SUPPLIED WITH INSERTED PVC GASKET OR BRUSH.

GG57X28



**DESCRIPTION**

EXTRUDED ALUM. GUIDE RAIL 57X28MM WITH SEAT FOR ANTI-NOISE GASKET OR BRUSH, FOR GIRASOLE AND AXIOLUX, WEIGHT 675 G/LM APPROX.

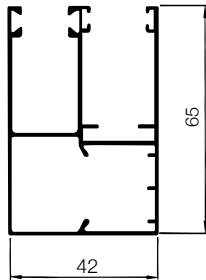
**STD PACK.**

5 SLATS  
6,50LM

**U.M.**

LM

GE65X42



**DESCRIPTION**

EXTRUDED SLUM. GUIDE RAIL FOR INSECT SCREEN AND ROLLING SHUTTER 65X42MM PROFILES 7,5-9MM, WEIGHT 917 G/LM APPROX.

**STD PACK.**

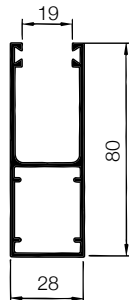
5 SLATS  
6,50LM

**U.M.**

LM

## GUIDE RAILS MAXI-SHUTTERBOX

GE458028



**DESCRIPTION**

EXTRUDED ALUM. GUIDE RAIL 80X28MM WITH SEAT FOR ANTI-NOISE GASKET OR BRUSH FOR PROFILES 12-14MM WEIGHT 1023 G/LM APPROX.

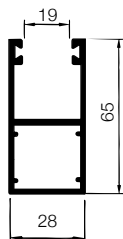
**STD PACK.**

5 SLATS  
6,50LM

**U.M.**

LM

GG65X28



**DESCRIPTION**

EXTRUDED ALUM. GUIDE RAIL 65X28MM WITH SEAT FOR ANTI-NOISE GASKET OR BRUSH, FOR GIRASOLE AND AXIOLUX, WEIGHT 820 G/LM APPROX.

**STD PACK.**

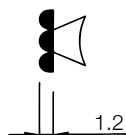
5 SLATS  
6,50LM

**U.M.**

LM

## GASKETS AND BRUSHES

GG35NOR



**DESCRIPTION**

PVC GASKET FOR PROFILE SAR-115, END SLATS AND EXTRUDED ALUM. GUIDE RAILS

**STD PACK.**

275LM

**U.M.**

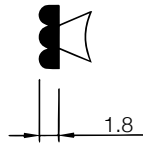
LM



# GASKETS AND BRUSHES

# SHUTTERBOX

GG35MAG



**DESCRIPTION**

MAXI PVC GASKET FOR EXTRUDED ALUMINUM GUIDE RAILS

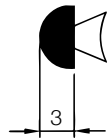
**STD PACK.**

275LM

**U.M.**

LM

GG35SUP



**DESCRIPTION**

MAXI PVC GASKET FOR EXTRUDED ALUMINUM GUIDE RAILS FOR PROFILE SAR-115

**STD PACK.**

275LM

**U.M.**

LM

SP35NOR



**DESCRIPTION**

BRUSH FOR EXTRUDED ALUMINUM GUIDE RAILS

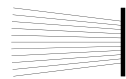
**STD PACK.**

275LM

**U.M.**

LM

SP35MAG



**DESCRIPTION**

MAXI BRUSH FOR EXTRUDED ALUMINUM GUIDE RAILS

**STD PACK.**

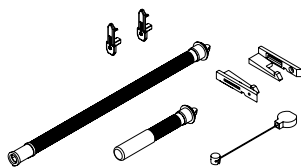
275LM

**U.M.**

LM

## MINI-SHUTTERBOX WITH INSECT SCREEN

Z-KIT



**DESCRIPTION**

KIT FOR INSECT SCREEN WITH PAIR OF HOOKINGS, LONG SPRING, BRAKE, PULLING CORD AND COUPLE OF LOCK PLUGS FOR END SLAT

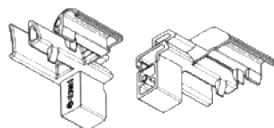
**STD PACK.**

KIT

**U.M.**

KIT

Z-TENYP



**DESCRIPTION**

ENTRY GUIDE FOR INSECT SCREEN AND FOR PROFILES 7-5-9MM

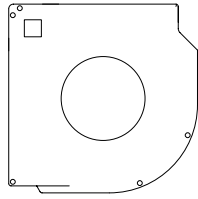
**STD PACK.**

1 PAIR

**U.M.**

PAIR

Z-FB165  
Z-FB180  
Z-FB205  
Z-FB230



**DESCRIPTION**

GALVANIZED SAFETY PLATE  
WITH HOLE  
FOR FIXING INSECT SCREEN ROLL  
TUBE

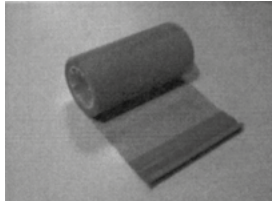
**STD PACK.**

10 PAIRS

**U.M.**

PAIR

Z-RETE01



**DESCRIPTION**

ROLL TUBE WITH MESH 170CM H

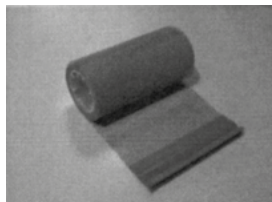
**STD PACK.**

1 SLAT  
6,00 LM

**U.M.**

LM

Z-RETE02



**DESCRIPTION**

ROLL TUBE WITH MESH 260CM H

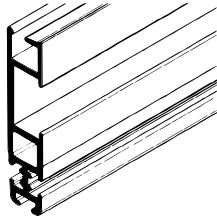
**STD PACK.**

1 SLAT  
6,00 LM

**U.M.**

LM

Z-TERM



**DESCRIPTION**

EXTRUDED ALUMINUM END SLAT  
FOR INSECT SCREEN

**STD PACK.**

5 SLATS  
6,00 LM

**U.M.**

LM

Z-SPTERM



**DESCRIPTION**

BRUSH 13MM  
FOR Z-TERM END SLAT

**STD PACK.**

1 ROLL 100LM

**U.M.**

LM

Z-SPGE



**DESCRIPTION**

BRUSH 10MM  
FOR GE65X42 GUIDE RAIL

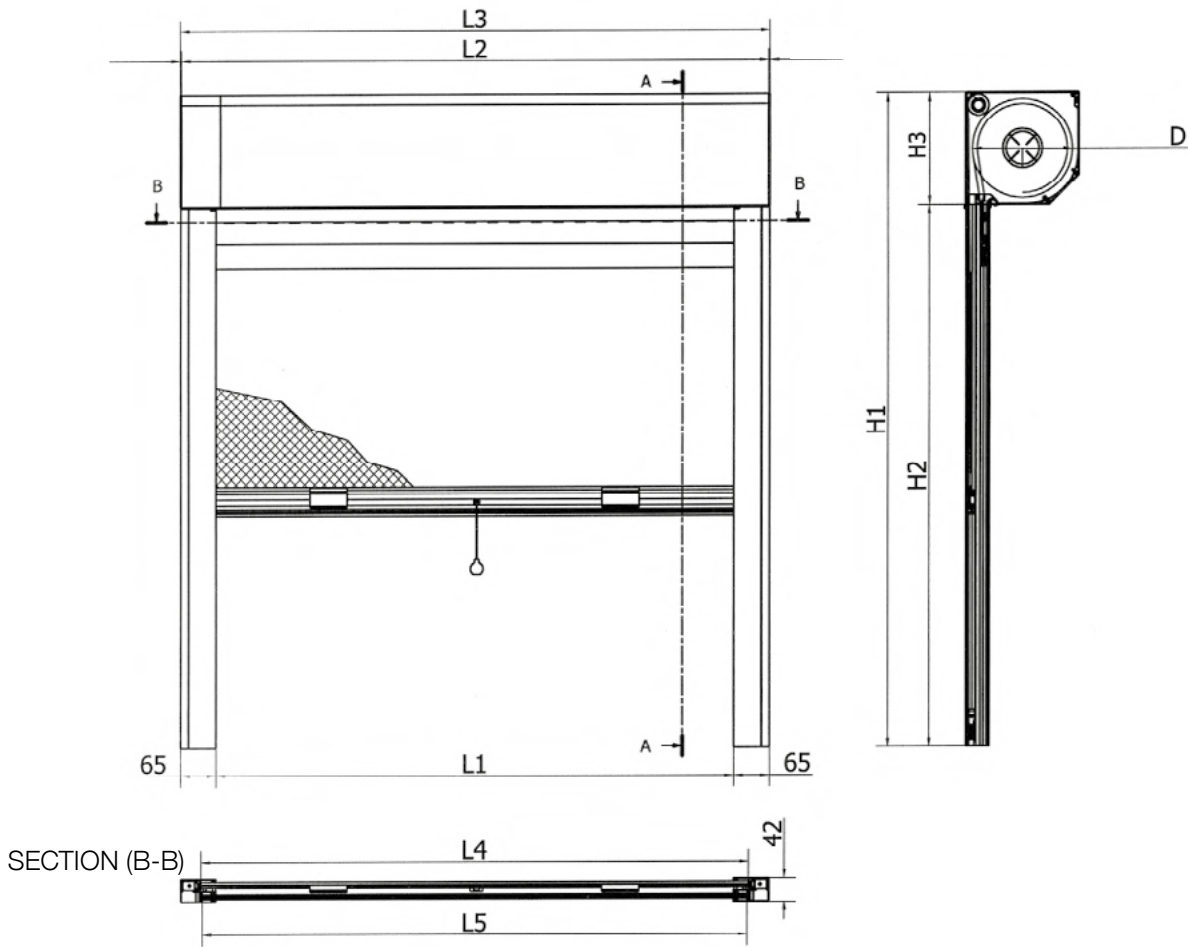
**STD PACK.**

1 ROLL 100LM

**U.M.**

LM

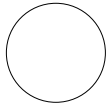







# SHUTTERBOX



**SIZES AND ENCUMBRANCES**

L1	NET WIDTH	MIN. 600MM MAX 1800MM
L2	SHUTTERBOX PROFILE WIDTH	L1 + 123MM
L3	SHUTTERBOX TOTAL WIDTH	L1 + 130MM
L4	INSECT SCREEN WIDTH (MESH)	L1 + 60 L=L4-64MM (INSECT SCREEN END SLAT)
L5	ROLLING SHUTTER WIDTH EXCLUDED SIDE PLUGS (PROFILES AND END SLAT)	L1 + 50MM
H1	TOTAL MAX HEIGHT	H2+H3 MAX 1690MM WITH MESH H 1800MM MAX 2590MM WITH MESH H 2500MM
H2	NET HEIGHT	H1 - H3
H3	SHUTTERBOX HEIGHT	166MM WITH SIDE FRAME 165 166MM WITH SIDE FRAME 180 206MM WITH SIDE FRAME 205 231MM WITH SIDE FRAME 230
D	MAX ROLL FOR ROLLING SHUTTER	125MM WITH SIDE FRAME 165 145MM WITH SIDE FRAME 180 180MM WITH SIDE FRAME 205 215MM WITH SIDE FRAME 230

### COLOR RANGE SHUTTERBOX AND SIDE FRAMES

		SIZE IN MM									SIDE FRAMES	GUIDE RAILS
		137	150	165	180	205	230	250	300			
WHITE		10 WHITE	●	●	●	●	●	●	●	●	●	●
		11 RAL 9010	●*	●*	●*	●*	●	●	●	●	●	●
		25 WHITE		●	●	●	●	●	●			
GROUP 1		15 IVORY RAL 1015		●	●	●	●	●	●	●	●	●
		31 GREY RAL 7038		●	●	●	●	●	●		●	●
		33 METALLIZED	●	●	●	●	●	●	●	●	●	●
		34 BROWN	●	●	●	●	●	●	●	●	●	●
		41 BEIGE		●	●	●	●	●	●			
		47 CREAM		●	●	●	●	●	●			
		81 GREY ANTH. RAL 7016		●	●	●	●	●	●	●	●	●
GROUP 2		44 BROWN RAL 8019		●		●	●		●		●	●
		59 BLACK RAL 9005			●	●	●	●	●		●	●

\* At clearance

# OPERATIONS

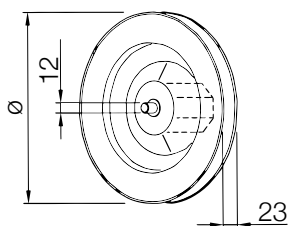






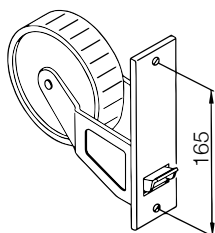
# OPERATIONS

2020  
2021  
2022



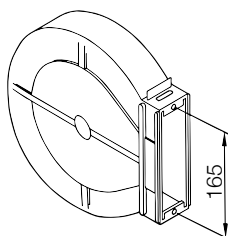
DESCRIPTION	STD PACK.	U.M.
PLASTIC PULLEY WITH CAP FOR ROLL TUBE 60MM 175MM H, TAPE LENGTH 5LM 195MM H, TAPE LENGTH 6LM 215MM H, TAPE LENGTH 8LM	10	PC

3001  
3002



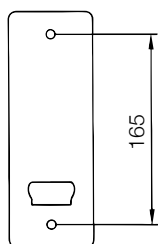
DESCRIPTION	STD PACK.	U.M.
AUTOMATIC GALVANIZED TAPE COILER WITH STEEL PLATE 3001 TAPE LENGTH 6LM 3002 TAPE LENGTH 8LM	10	PC

3005  
3006



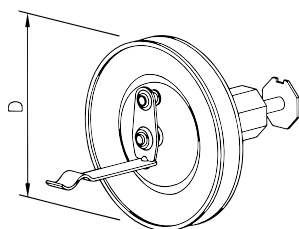
DESCRIPTION	STD PACK.	U.M.
PLASTIC WALL BOX FOR LIFTING TAPE TAPE LENGTH 6LM TAPE LENGTH 12LM	10	PC

3003



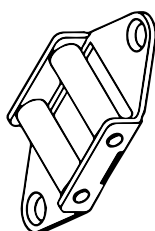
DESCRIPTION	STD PACK.	U.M.
STEEL COVER PLATE WITH 165MM INTERAXIS	10	PC

3030  
3031



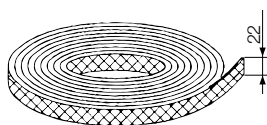
DESCRIPTION	STD PACK.	U.M.
COG WHEEL REDUCTOR WITH SUPPORT, FOR ROLL TUBE 60MM FOR ROLLING SHUTTERS UNTIL: 30KG (RATIO 1:2,5) = 200MM 40KG (RATIO 1:2,5) = 250MM	1	PC

2031



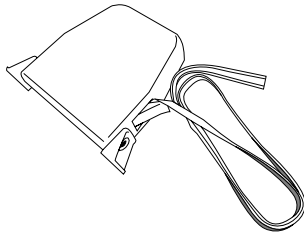
DESCRIPTION	STD PACK.	U.M.
GALVANIZED TAPE GUIDE WITH TWO NYLON ROLLERS FOR TAPE 20-22MM	10	PC

CI71RT



DESCRIPTION	STD PACK.	U.M.
LIFTING TAPE, MIXED COTTON-NYLON 22MM	50LM	ROLL

2340



**DESCRIPTION**

**STD PACK.**

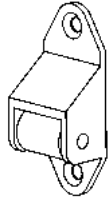
**U.M.**

TAPE COILER  
(COL 25-34) WITH TAPE LENGTH 5LM

10

PC

2351



**DESCRIPTION**

**STD PACK.**

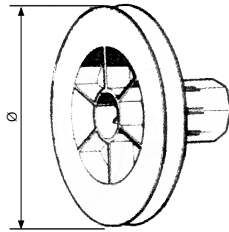
**U.M.**

FRONTAL NYLON TAP GUIDE  
53X22MM (COL 25-34)

10

PC

2361  
2362  
2363  
2364  
2365



**DESCRIPTION**

**STD PACK.**

**U.M.**

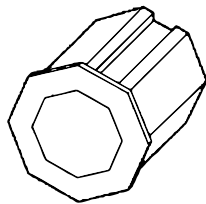
PLASTIC PULLEY WITH CAP  
FOR ROLL TUBE 40MM  
AND FOR ROLL TUBE 60MM  
(WITH ADAPTOR 2370)

10

PC

100MM FOR SIDE FRAMES 150  
115MM FOR SIDE FRAMES 165  
125MM FOR SIDE FRAMES 180  
155MM FOR SIDE FRAMES 205  
190MM FOR SIDE FRAMES 230

2370



**DESCRIPTION**

**STD PACK.**

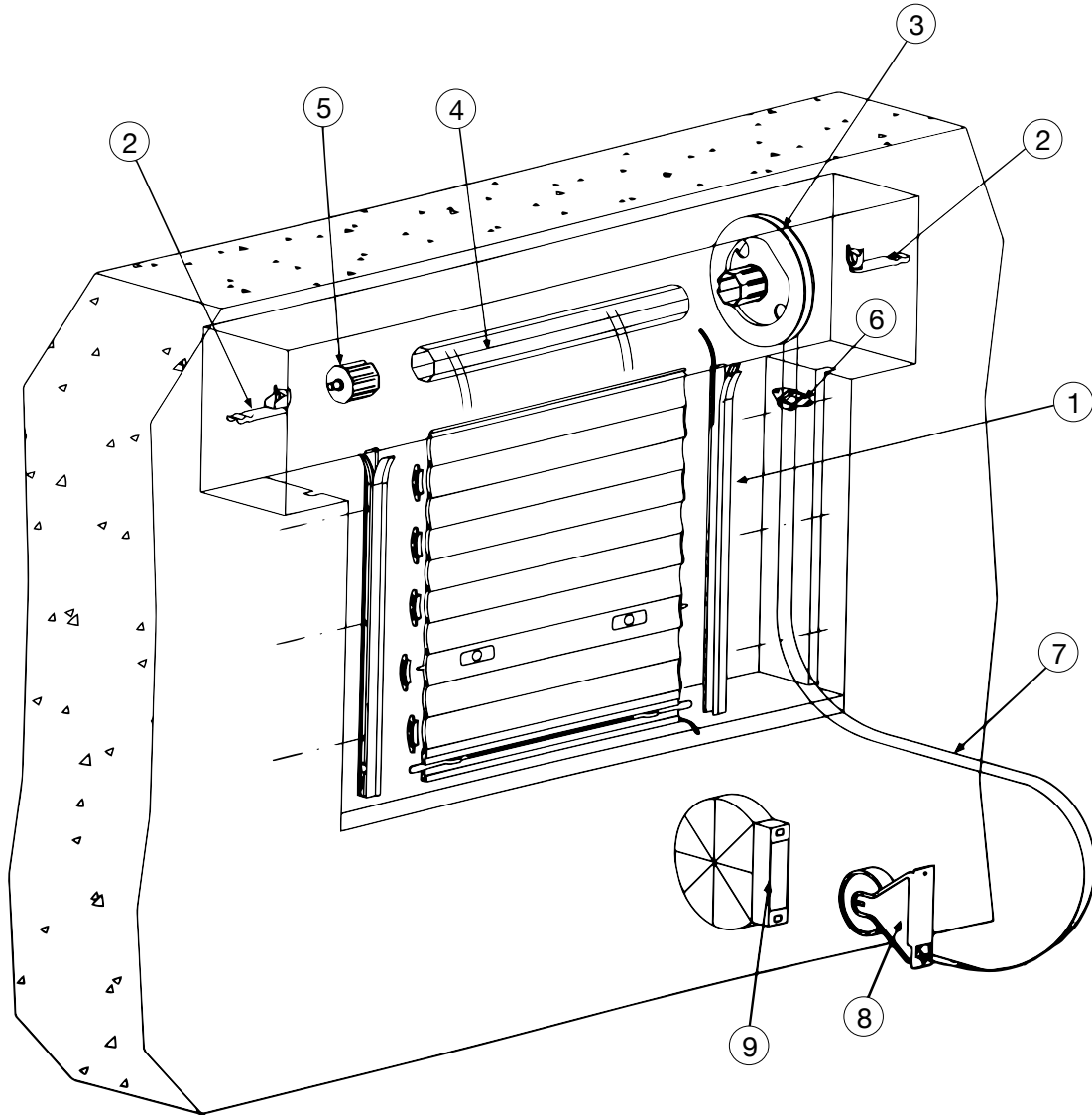
**U.M.**

PULLEY ADAPTOR FOR 60 MM ROLL  
TUBE

10

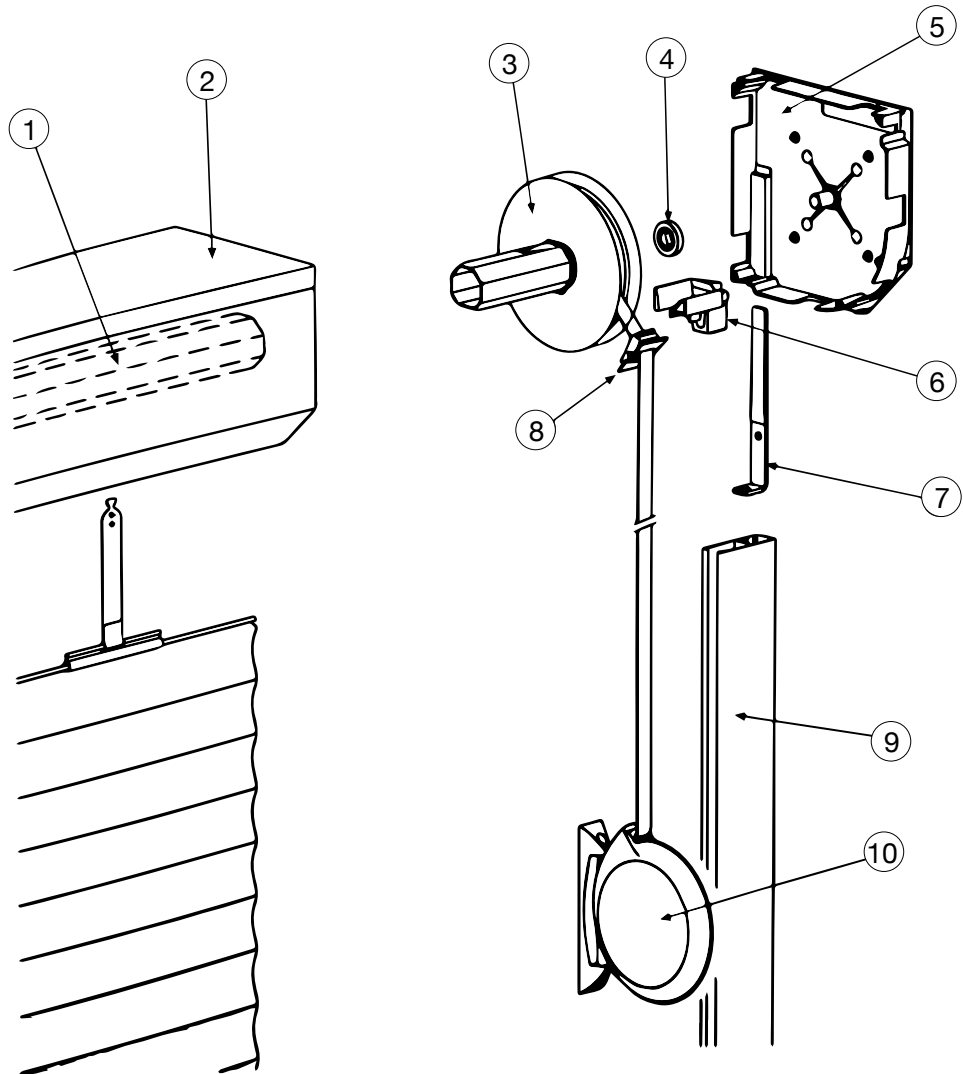
PC

## STANDARD SYSTEM



1	LATERAL GUIDE RAILS
2	SUPPORT
3	PULLEY
4	OCTOGONAL ROLL TUBE
5	PLASTIC CAP
6	TAPE GUIDE
7	STRAP
8	TAPE COILER
9	WALL BOX

## MINI-SHUTTERBOX UNIBOX SYSTEM



1	OCTOGONAL ROLL TUBE
2	SHUTTERBOX PROFILE
3	PULLEY (WITH CAP)
4	BALL BEARING
5	SIDE FRAME
6	ENTRY GUIDE
7	BAYONET
8	TAPE GUIDE
9	LATERAL GUIDE RAIL
10	TAPE COILER

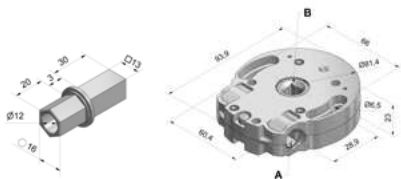


# CRANK OPERATION

STANDARD SYSTEM  
AND SHUTTERBOX SYSTEM

# OPERATIONS

4521



## DESCRIPTION

UNIVERSAL GEAR WITH END OF STROKE,  
SQUARE PIVOT 13MM  
CAPACITY KG 30 RATIO 1:11

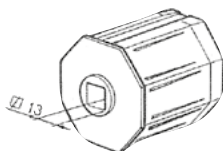
STD PACK.

10

U.M.

PC

4530



## DESCRIPTION

CAP WITH 13MM SQUARE PIVOT  
FOR CRANK 4521  
FOR ROLL TUBE 40MM  
AND FOR ROLL TUBE 60MM

STD PACK.

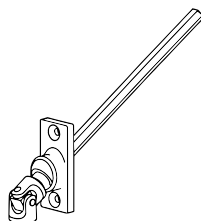
10

U.M.

PC

4531

4527



## DESCRIPTION

45° JOINT FOR CRANK, WITH  
HEXAGONAL BAR 7MM  
LENGTH 300MM

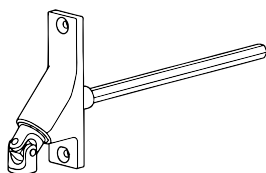
STD PACK.

10

U.M.

PC

4528



## DESCRIPTION

45° JOINT FOR CRANK, WITH  
HEXAGONAL BAR 7MM  
LENGTH 500MM

STD PACK.

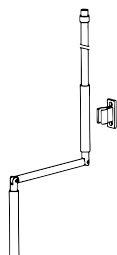
10

U.M.

PC

4223

4229



## DESCRIPTION

OPERATION CRANK WITH  
HOLDER  
(WHITE AND SILVER)  
LENGTH 150CM  
LENGTH 180CM

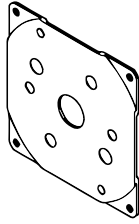
STD PACK.

10

U.M.

PC

U-SUP01



**DESCRIPTION**

**STD PACK.**

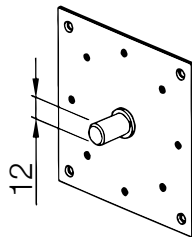
**U.M.**

GALVANIZED PLATE FOR ACCESSORIES  
FOR MINI SIDE FRAMES

10

PC

2356



**DESCRIPTION**

**STD PACK.**

**U.M.**

PLATE 100X100 WITH CENTRAL PIVOT  
12MM FOR SIDE FRAMES 250  
AND 300MM

10

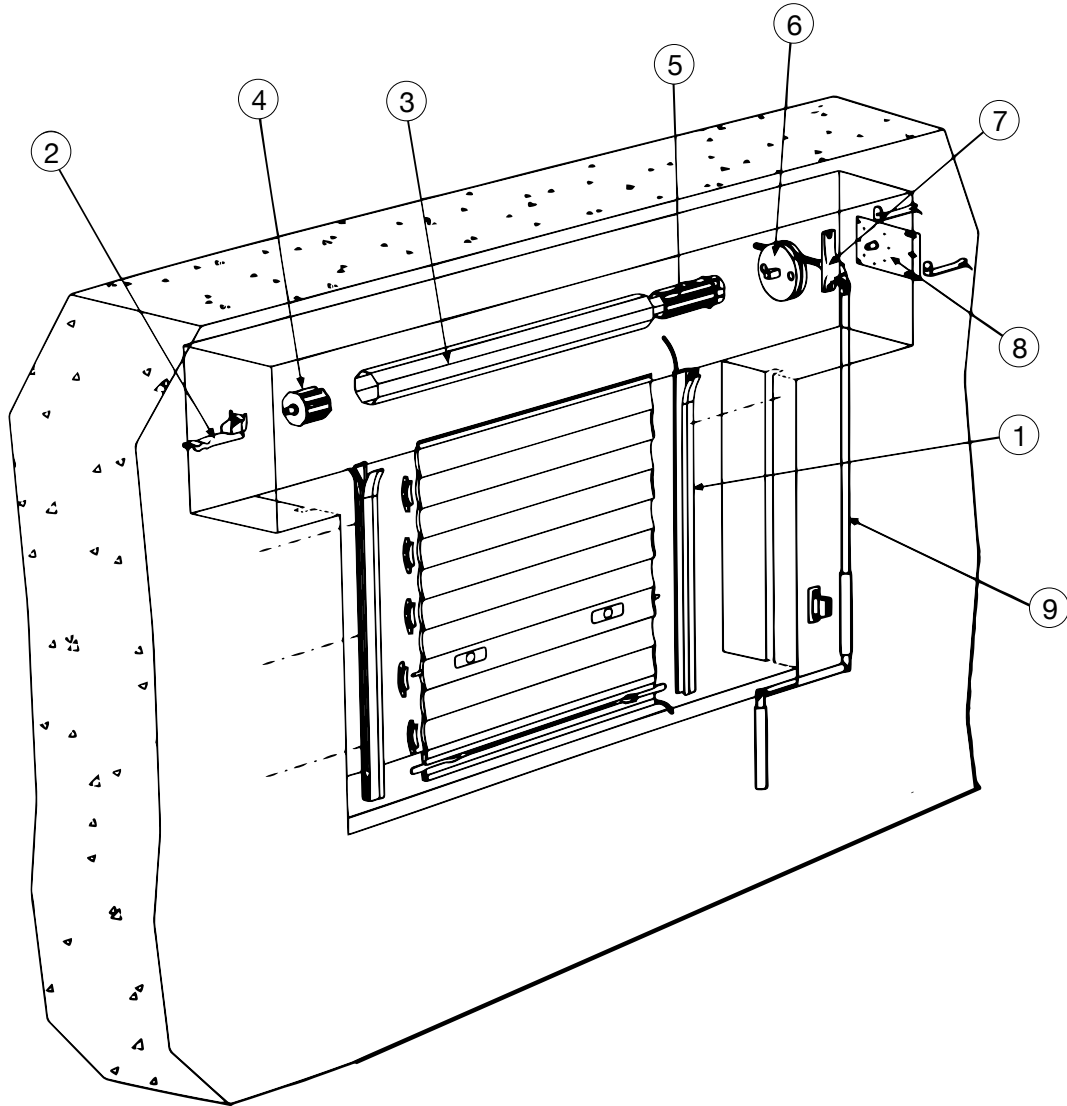
PC

# CRANK OPERATION

STANDARD SYSTEM  
AND SHUTTERBOX SYSTEM

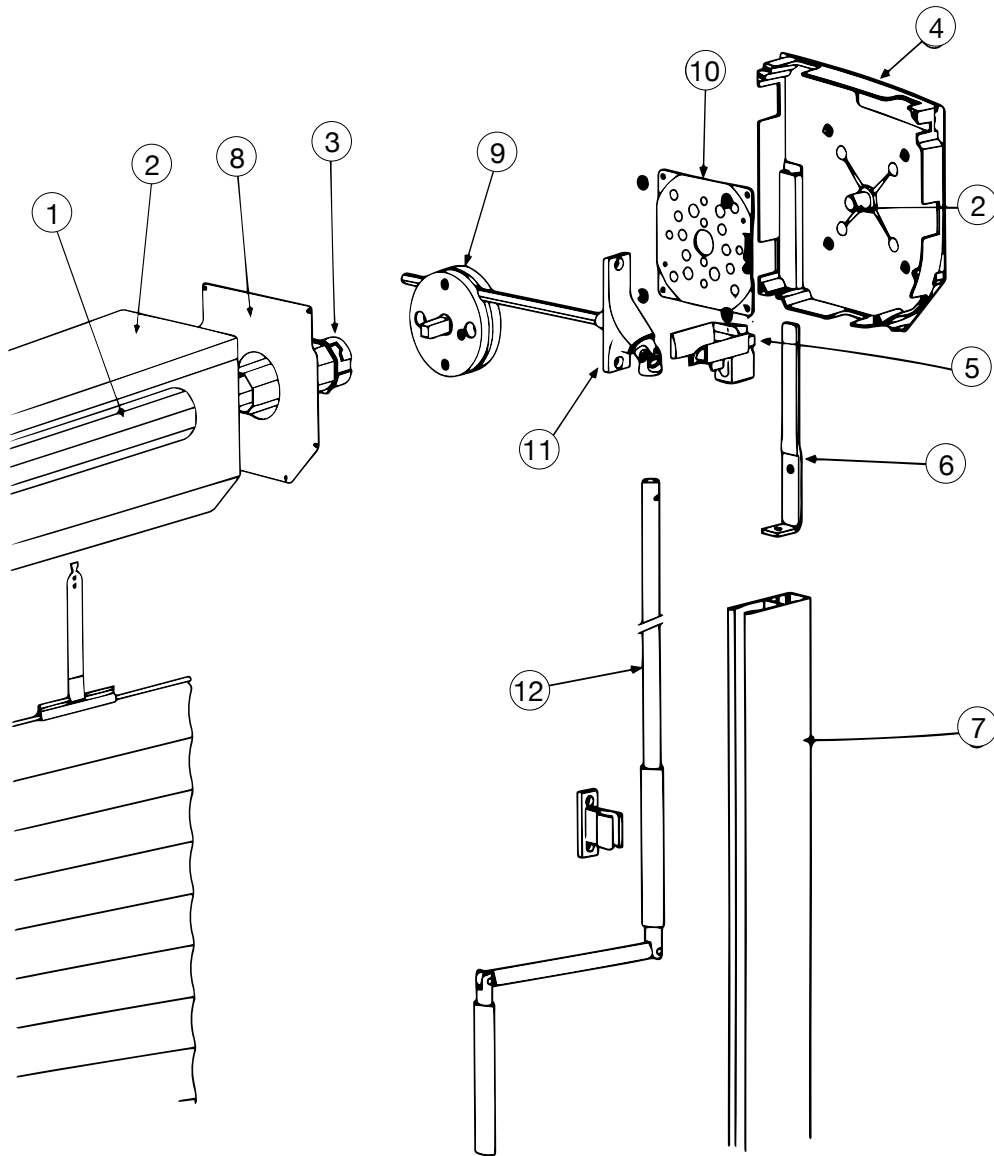
# OPERATIONS

## STANDARD SYSTEM



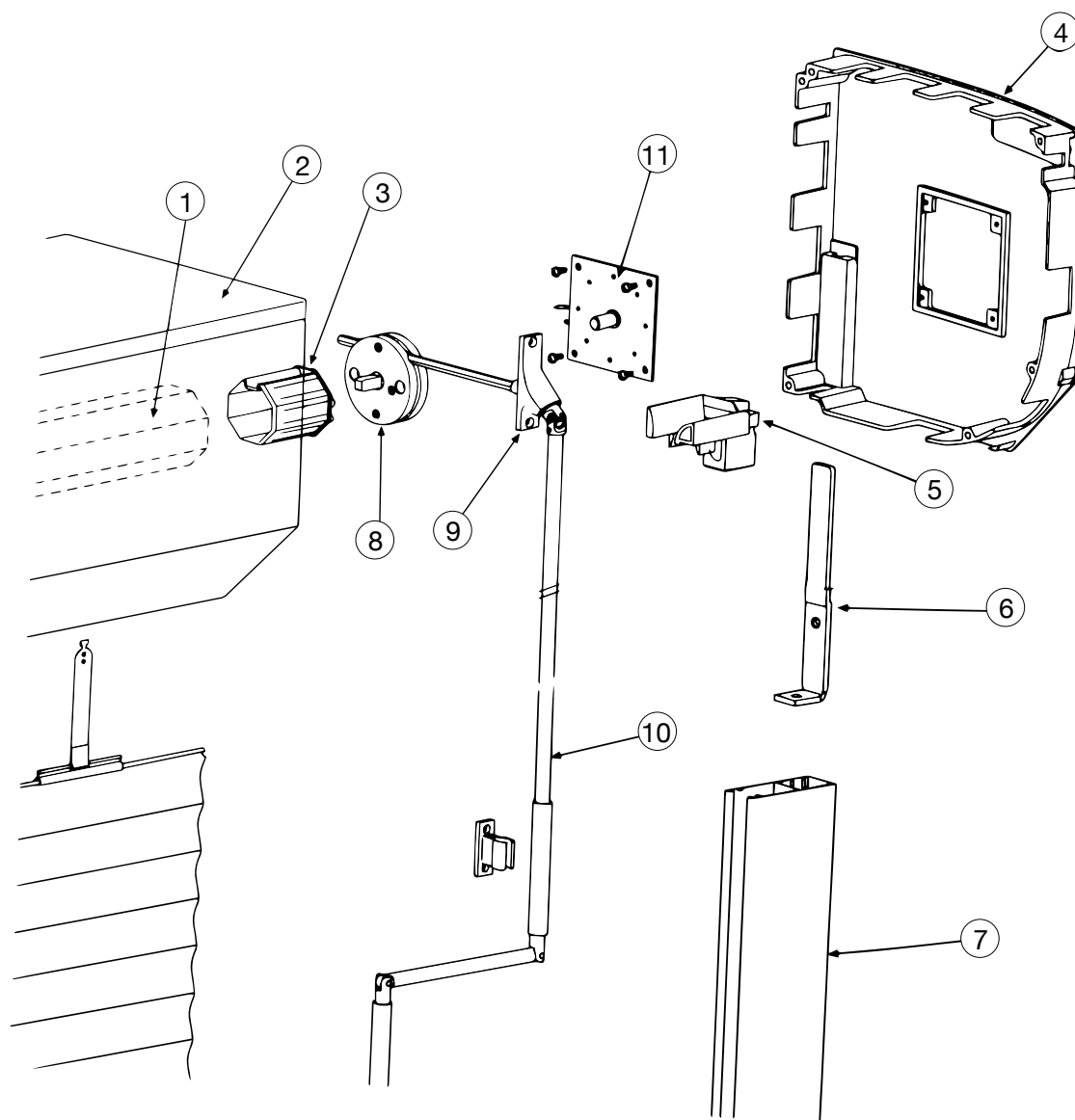
1	LATERAL GUIDE RAILS
2	IDLE SIDE SUPPORT
3	OCTOGONAL ROLL TUBE
4	PLASTIC CAPE
5	OPERATION SIDE CAP
6	CRANK
7	45° OR 90° JOINT
8	CRANK SUPPORT
9	OPERATING CRANK

### MINISHUTTERBOX UNIBOX SYSTEM



1	OCTOGONAL ROLL TUBE
2	SHUTTERBOX PROFILE
3	CRANK CAP
4	SIDE FRAME
5	ENTRY GUIDE
6	BAYONET
7	LATERAL GUIDE RAIL
8	SAFETY PLATE
9	CRANK
10	PLATE FOR ACCESSORIES
11	45° OR 90° JOINT
12	OPERATING CRANK WITH HOLDER


## MAXI-SHUTTERBOX UNIBOX SYSTEM



1	OCTOGONAL ROLL TUBE
2	SHUTTERBOX PROFILE
3	CRANK CAP
4	SIDE FRAME
5	ENTRY GUIDE
6	BAYONET
7	LATERAL GUIDE RAIL
8	CRANK OPERATION
9	45° OR 90° JOINT
10	OPERATING CRANK WITH HOLDER
11	CRANK SUPPORT




**WITHOUT MANUAL OVERRIDE**


		<b>DESCRIPTION</b>	<b>STD PACK.</b>	<b>U.M.</b>
<b>MC4009</b>		FOR ROLL TUBE 40MM WITH ADAPTOR	1	PC
		- 9NM		

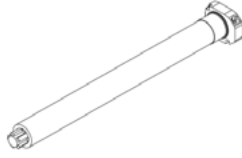
		<b>DESCRIPTION</b>	<b>STD PACK.</b>	<b>U.M.</b>
<b>MC6010SH</b>		FOR ROLL TUBE 60MM WITH ADAPTOR, SHORT L=43CM	1	PC
		- 10NM		

		<b>DESCRIPTION</b>	<b>STD PACK.</b>	<b>U.M.</b>
<b>MC6015</b> <b>MC6030</b> <b>MC6050</b>		FOR ROLL TUBE 60-70MM WITH ADAPTOR	1	PC
		- 15NM		
		- 30NM		
		- 50NM		

		<b>DESCRIPTION</b>	<b>STD PACK.</b>	<b>U.M.</b>
<b>MC7085</b> <b>MC70120</b>		FOR ROLL TUBE 70MM WITH ADAPTOR	1	PC
		- 85NM		
		- 120NM		

**WITH MANUAL OVERRIDE**

		<b>DESCRIPTION</b>	<b>STD PACK.</b>	<b>U.M.</b>
<b>MC6015S</b> <b>MC6030S</b> <b>MC6050S</b>		FOR ROLL TUBE 60 - 70MM WITH ADAPTOR	1	PC
		- 15NM		
		- 30NM		
		- 50NM		

		<b>DESCRIPTION</b>	<b>STD PACK.</b>	<b>U.M.</b>
<b>MC7085S</b> <b>MC70120S</b>		FOR ROLL TUBE 70MM WITH ADAPTOR	1	PC
		- 85NM		
		- 120NM		

## RADIO MOTOR

MC6030LUX  
MC6050LUX  
MC70120LUX



DESCRIPTION	STD PACK.	U.M.
MOTORS WITH 3 ELECTRONIC LIMIT SWITCHES FOR: - ROLL TUBE 60 MM; 32 NM - ROLL TUBE 60 MM; 50 NM - ROLL TUBE 70 MM; 120 NM	1	PC

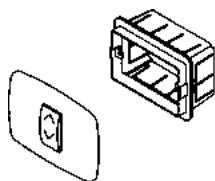
## ACCESSORIES

ADMC70



DESCRIPTION	STD PACK.	U.M.
ADAPTORS FOR MOTORS SERIE 60 FOR OCTOGONAL ROLL TUBE Ø 70 MM	1	PC

INT.CAS



DESCRIPTION	STD PACK.	U.M.
UNIPOLAR SWITCH FOR RECESS MOUNT	1	PC

CENTRAL2



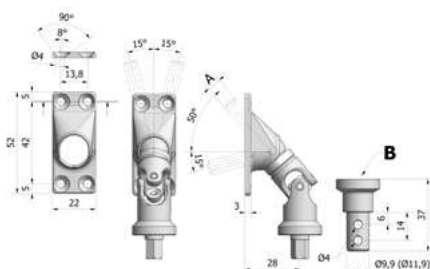
DESCRIPTION	STD PACK.	U.M.
REMOTE CONTROL RECEIVER (433.920 MHZ)	1	PC

TRASM2



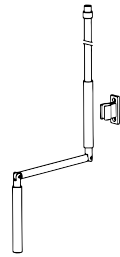
DESCRIPTION	STD PACK.	U.M.
2 BUTTON RADIO CONTROL TRANSMITTER + STOP BUTTON	1	PC

4240



DESCRIPTION	STD PACK.	U.M.
90° MAGNETIC JOINT	1	PC

4223  
4229



**DESCRIPTION**

OPERATING CRANK WITH HOLDER  
HOLDER (WHITE AND SILVER):

LENGTH 150 CM.  
LENGTH 180 CM.

**STD PACK.**

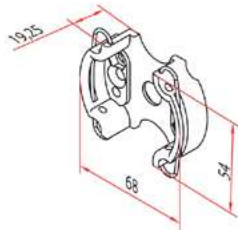
**U.M.**

10

PC

## MOTOR STANDARD SYSTEM

SMT6070



**DESCRIPTION**

STANDARD SUPPORT MOTORS  
SERIE 60 AND 70

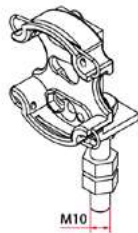
**STD PACK.**

**U.M.**

10

PC

SMS6070



**DESCRIPTION**

REPLACEMENT SUPPORT  
FOR MOTORS SERIE 60 AND 70

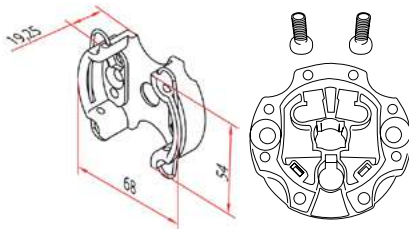
**STD PACK.**

**U.M.**

10

PC

SMT6070S



**DESCRIPTION**

STANDARD SUPPORT  
FOR 60 AND 70 SERIE MOTORS  
WITH MANUAL OVERRIDE

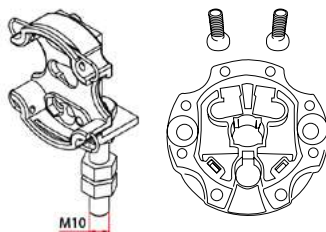
**STD PACK.**

**U.M.**

10

PC

SMS6070S



**DESCRIPTION**

REPLACEMENT SUPPORT  
FOR MOTORS SERIE 60 AND 70 WITH  
MANUAL OVERRIDE

**STD PACK.**

**U.M.**

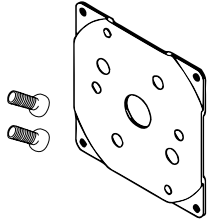
10

PC

# MOTOR MINI-SHUTTERBOX

# OPERATIONS

SMC40



## DESCRIPTION

SUPPORT FOR MOTORS SERIE 40

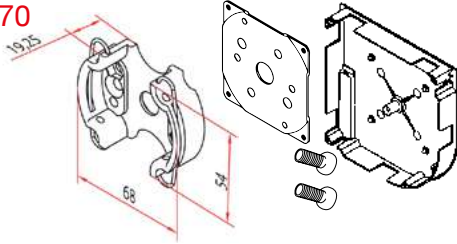
STD PACK.

10

U.M.

PC

SMC6070



## DESCRIPTION

SUPPORT FOR 60 AND 70 SERIE MOTORS

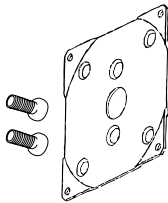
STD PACK.

10

U.M.

PC

SMC6070S



## DESCRIPTION

SUPPORT FOR 60 AND 70 SERIE MOTORS WITH MANUAL OVERRIDE

STD PACK.

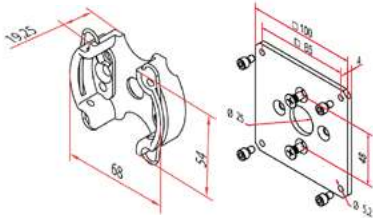
10

U.M.

PC

# MOTOR MAXI-SHUTTERBOX

PMC6070



## DESCRIPTION

100X100 PLATE WITH SUPPORT FOR MOTORS SERIE 60 AND 70

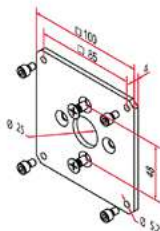
STD PACK.

10

U.M.

PC

PMC6070S



## DESCRIPTION

100X100 PLATE FOR MOTORS SERIE 60 AND 70 WITH MANUAL OVERRIDE

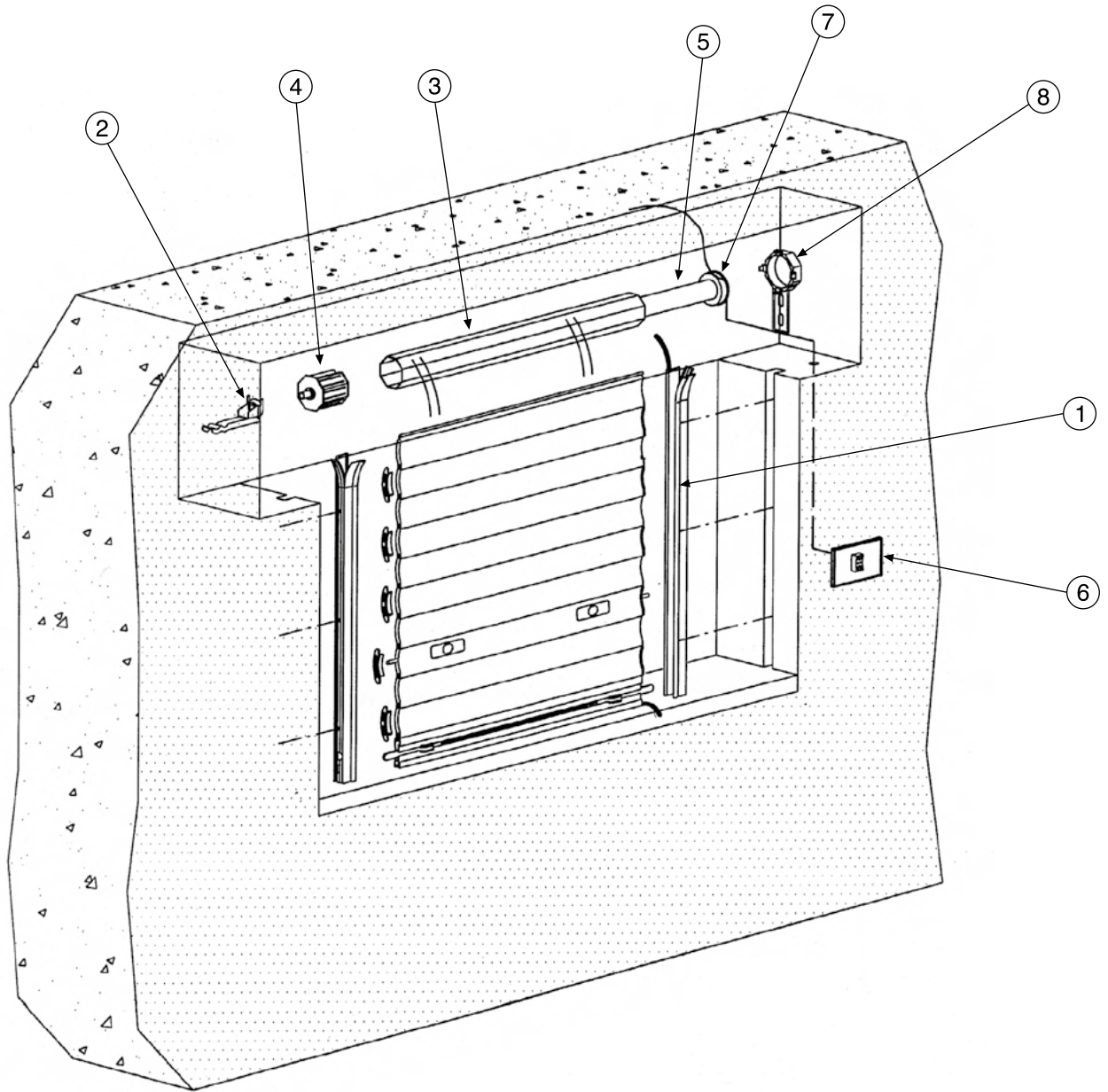
STD PACK.

10

U.M.

PC

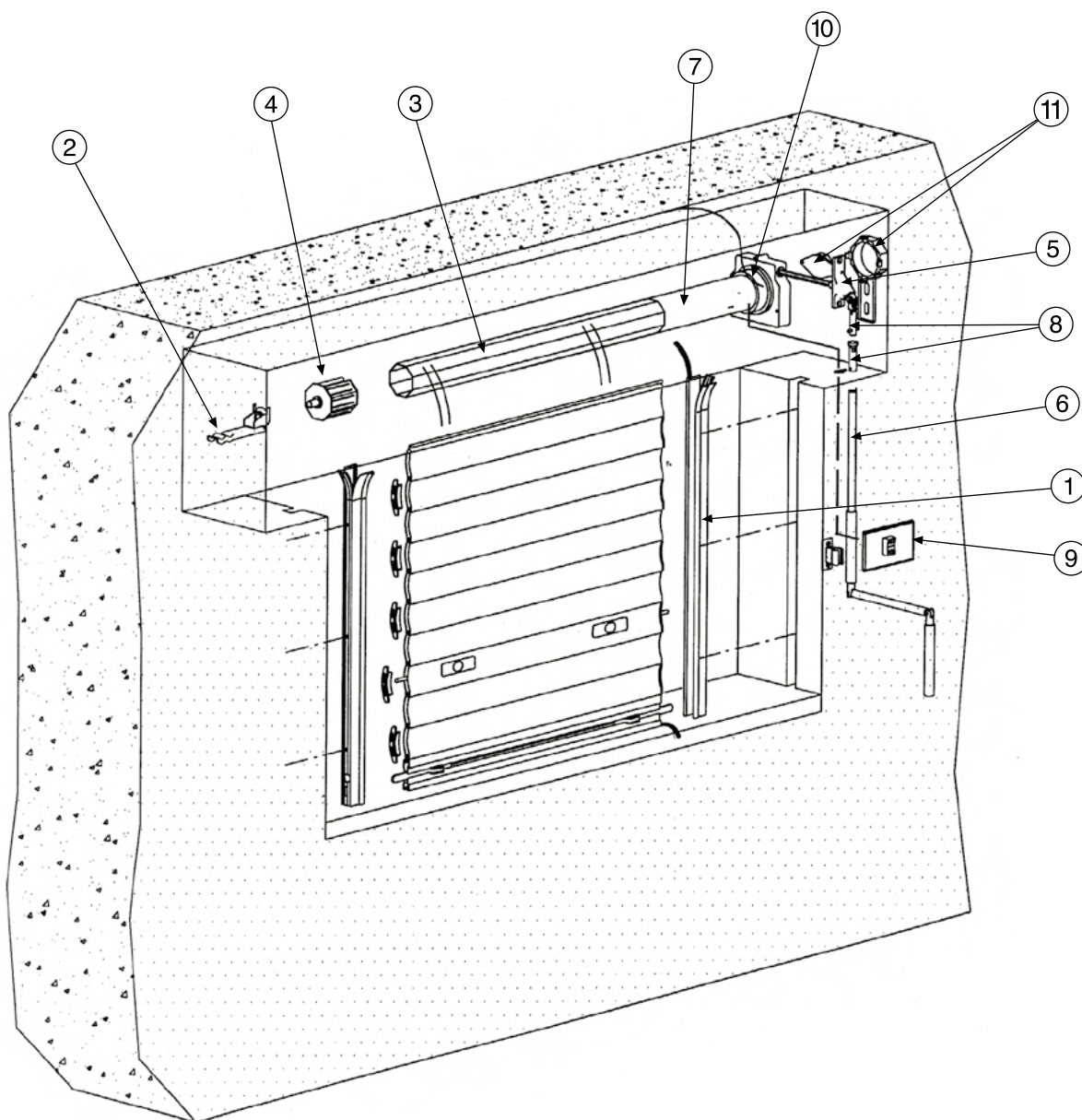
## STANDARD SYSTEM - MOTOR OPERATION WITHOUT MANUAL OVERRIDE



1	LATERAL GUIDE RAILS
2	IDLE SIDE SUPPORT
3	OCTOGONAL ROLL TUBE
4	PLASTIC CAP
5	STANDARD MOTOR
6	SWITCH
7	ADAPTOR
8	MOTOR SUPPORT

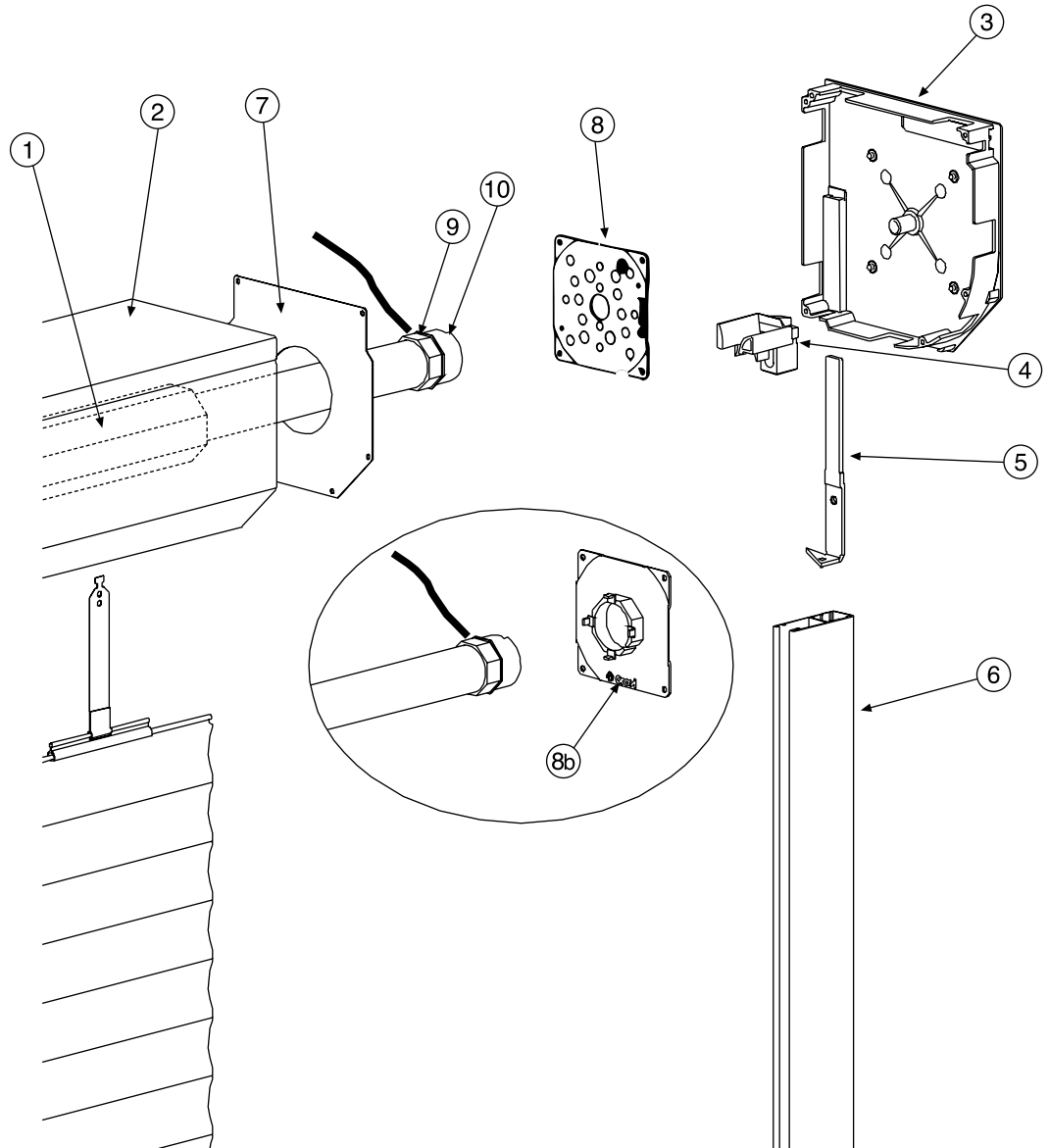


## STANDART SYSTEM - MOTOR OPERATION WITH MANUAL OVERRIDE



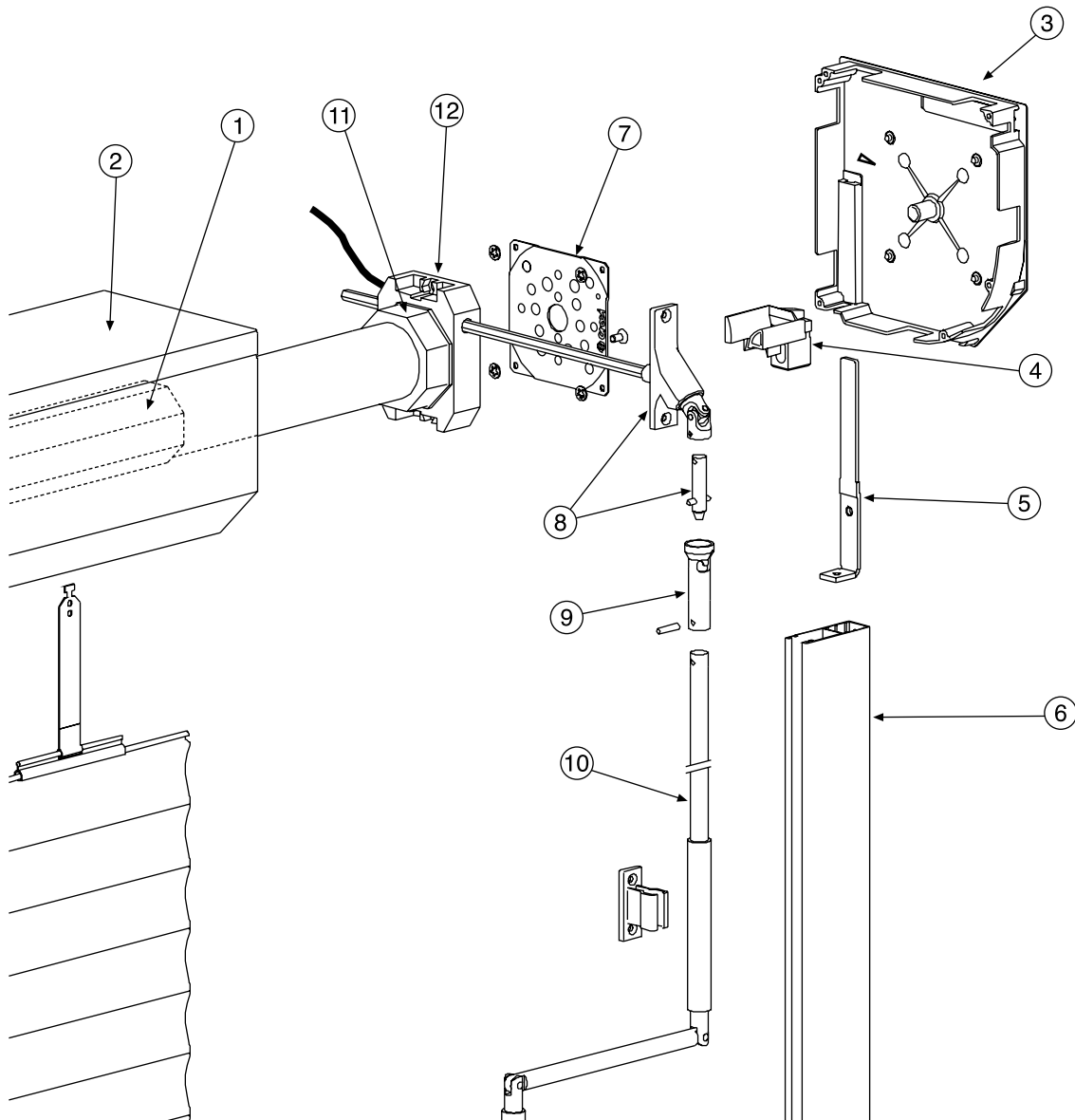
1	LATERAL GUIDE RAILS
2	IDLE SIDE SUPPORT
3	OCTOGONAL ROLL TUBE
4	IDLE SIDE CAP
5	90° JOINT WITH FAST CLUTCH
6	OPERATION CRANK
7	MOTOR WITH MANUAL OVERRIDE
8	MAGNETIC CONNECTION
9	SWITCH
10	ADAPTOR
11	MOTOR SUPPORT

## MINI-SHUTTERBOX UNIBOX SYSTEM MOTOR OPERATION WITHOUT MANUAL OVERRIDE



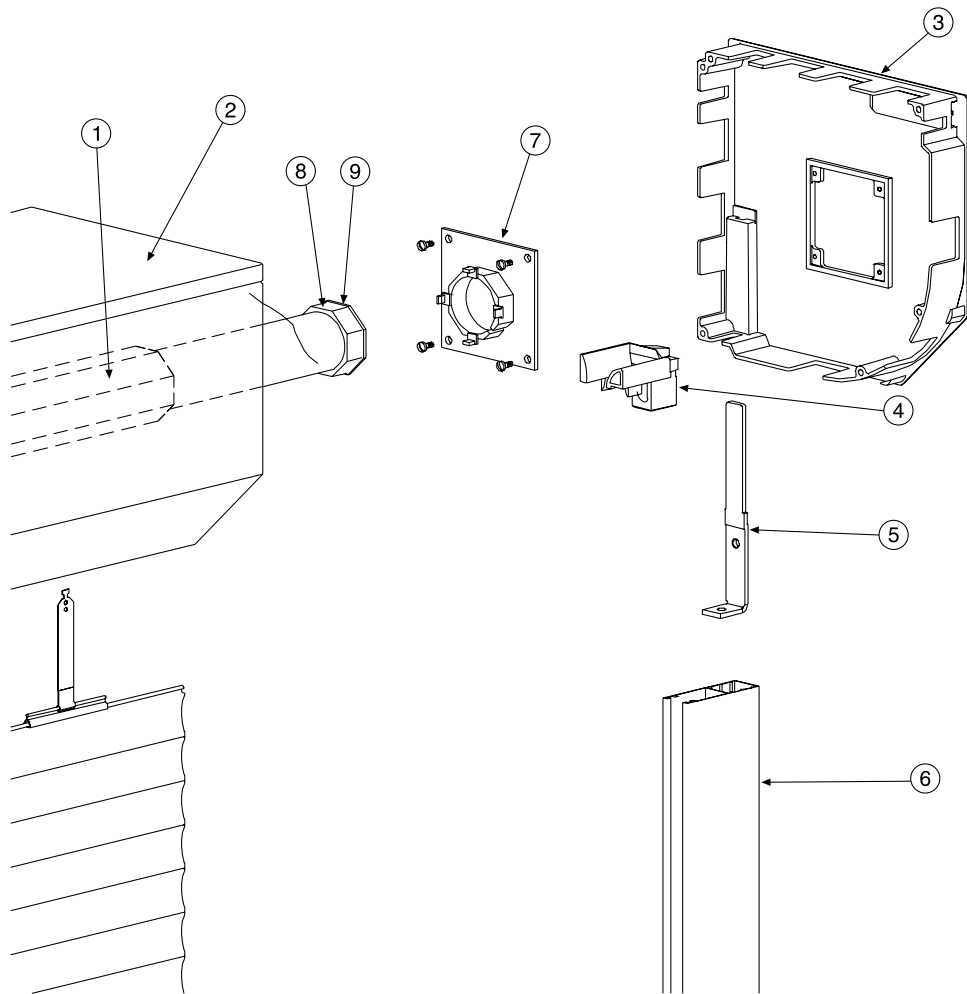
1	OCTOGONAL ROLL TUBE
2	SHUTTERBOX PROFILE
3	SIDE FRAME
4	ENTRY GUIDE
5	BAYONET
6	LATERAL GUIDE RAIL
7	SAFETY PLATE
8	MOTOR SUPPORT - SERIE 40
8b	MOTOR SUPPORT - SERIE 60
9	ADAPTOR
10	MOTOR

## MINI-SHUTTERBOX UNIBOX SYSTEM MOTOR OPERATION WITH MANUAL OVERRIDE



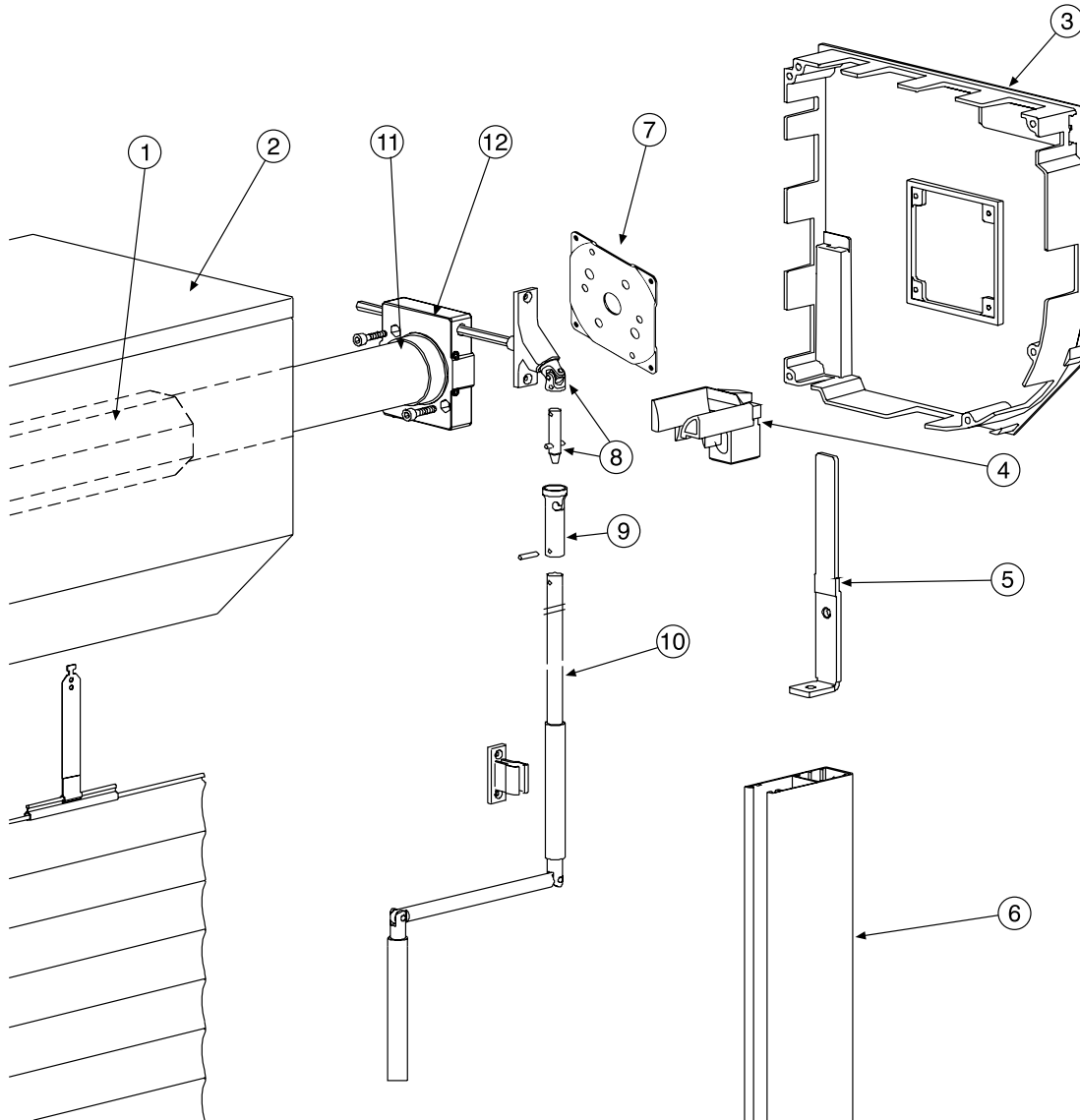
1	OCTOGONAL ROLL TUBE
2	SHUTTERBOX PROFILE
3	SIDE FRAME
4	ENTRY GUIDE
5	BAYONET
6	LATERAL GUIDE RAIL
7	MOTOR SUPPORT
8	90° JOINT WITH FAST CLUTCH
9	MAGNETIC CONNECTION
10	OPERATION CRANK
11	ADAPTOR
12	MOTOR

## MAXI-SHUTTERBOX SYSTEM MOTOR OPERATION WITHOUT MANUAL OVERRIDE



1	OCTOGONAL ROLL TUBE
2	SHUTTERBOX PROFILE
3	SIDE FRAME
4	ENTRY GUIDE
5	BAYONET
6	LATERAL GUIDE RAIL
7	MOTOR SUPPORT
8	ADAPTOR
9	MOTOR

## MAXI- SHUTTERBOX SYSTEM MOTOR OPERATION WITH MANUAL OVERRIDE

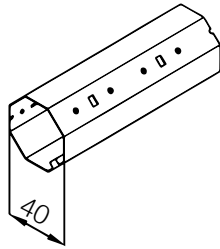


1	OCTOGONAL ROLL TUBE
2	SHUTTERBOX PROFILE
3	SIDE FRAME
4	ENTRY GUIDE
5	BAYONET
6	LATERAL GUIDE RAIL
7	MOTOR SUPPORT
8	90° JOINT WITH FAST CLUTCH
9	MAGNETIC CONNECTION
10	OPERATION CRANK
11	ADAPTOR
12	MOTOR



### ROLL TUBES

2100



**DESCRIPTION**

Ø 40 MM OCTOGONAL ROLL TUBE  
THICKNESS 5 - 10

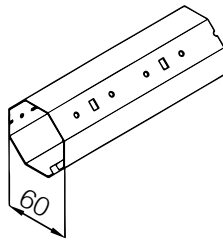
**STD PACK.**

12 SLATS  
5,8 LM

**U.M.**

LM

2000  
2001



**DESCRIPTION**

Ø 60 MM OCTOGONAL ROLL TUBE  
THICKNESS 5 - 10  
THICKNESS 8 - 10

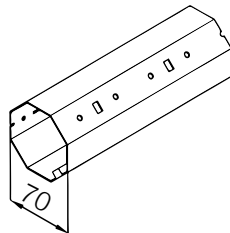
**STD PACK.**

6 SLATS  
5,8 LM

**U.M.**

LM

2003



**DESCRIPTION**

Ø 70 MM OCTOGONAL ROLL TUBE  
THICKNESS 10 - 10

**STD PACK.**

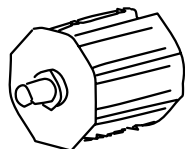
1 SLATS  
5,8 LM

**U.M.**

LM

### STANDARD SYSTEM

2010



**DESCRIPTION**

PVC CAP WITH GALVANIZED PIVOT  
Ø12 MM FOR ROLL TUBE Ø 60 MM

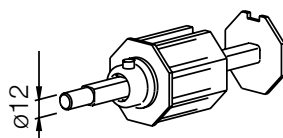
**STD PACK.**

10

**U.M.**

PC

2013  
2013-70



**DESCRIPTION**

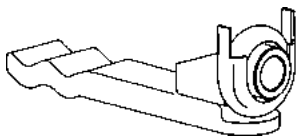
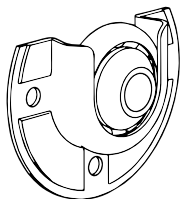
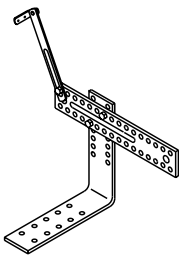
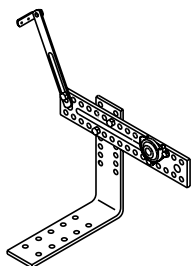

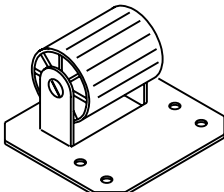
PVC ADJUSTABLE CAP  
- FOR Ø 60 MM ROLL TUBE  
- FOR Ø 70 MM ROLL TUBE

**STD PACK.**

10

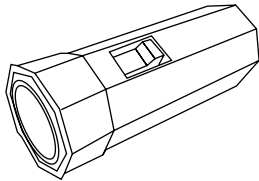
**U.M.**

PC

7000		<p><b>DESCRIPTION</b></p> <p>WALL FIXING SUPPORT WITH BALL BEARING FOR MAX 30 KG SHUTTERS</p>	<p><b>STD PACK.</b></p> <p>10</p>	<p><b>U.M.</b></p> <p>PC</p>
7011		<p><b>DESCRIPTION</b></p> <p>SCREWING SUPPORT WITH REMOVABLE BALL BEARING FOR MAX 60 KG SHUTTERS</p>	<p><b>STD PACK.</b></p> <p>10</p>	<p><b>U.M.</b></p> <p>PC</p>
7013		<p><b>DESCRIPTION</b></p> <p>ADJUSTABLE FIXING BRACKET</p>	<p><b>STD PACK.</b></p> <p>10</p>	<p><b>U.M.</b></p> <p>PC</p>
7012		<p><b>DESCRIPTION</b></p> <p>ADJUSTABLE FIXING BRACKET WITH REMOVABLE BALL BEARING</p>	<p><b>STD PACK.</b></p> <p>10</p>	<p><b>U.M.</b></p> <p>PC</p>
7104		<p><b>DESCRIPTION</b></p> <p>BALL BEARING FOR REPLACEMENT, 12 MM PIVOT WITH SAFETY PIN</p>	<p><b>STD PACK.</b></p> <p>10</p>	<p><b>U.M.</b></p> <p>PC</p>
9005		<p><b>DESCRIPTION</b></p> <p>GUIDE ROLLER</p>	<p><b>STD PACK.</b></p> <p>10</p>	<p><b>U.M.</b></p> <p>PC</p>

### MINI-SHUTTERBOX

2330



**DESCRIPTION**

ADJUSTABLE CAP  
FOR 40MM ROLL TUBE

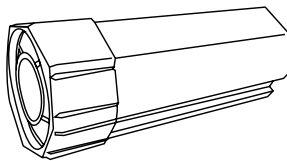
**STD PACK.**

10

**U.M.**

PC

2331



**DESCRIPTION**

ADJUSTABLE CAP  
FOR 60MM ROLL TUBE

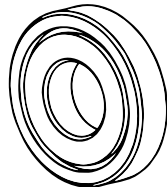
**STD PACK.**

10

**U.M.**

PC

7105



**DESCRIPTION**

Ø 28 MM BALL BEARING  
FOR CAPS 2330 - 2331

**STD PACK.**

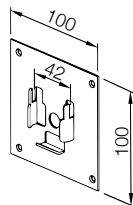
10

**U.M.**

PC

### MAXI-SHUTTERBOX

2357



**DESCRIPTION**

100X100 PLATE  
FOR Ø 42 MM BALL BEARING  
FOR 250 AND 300 MM SIDE FRAMES

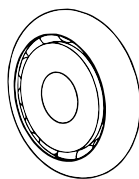
**STD PACK.**

10

**U.M.**

PC

2359



**DESCRIPTION**

Ø 42 MM BALL BEARING WITH  
NYLON BUSHING FOR PLATE 2357

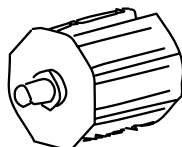
**STD PACK.**

10

**U.M.**

PC

2010



**DESCRIPTION**

PVC CAP WITH Ø 12 MM  
GALVANIZED PIVOT FOR Ø 60 MM  
ROLL TUBE

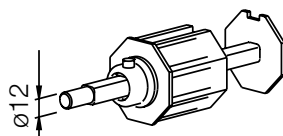
**STD PACK.**

10

**U.M.**

PC

2013  
2013-70



**DESCRIPTION**

PVC ADJUSTABLE CAP  
- FOR Ø 60 MM ROLL TUBE  
- FOR Ø 70 MM ROLL TUBE

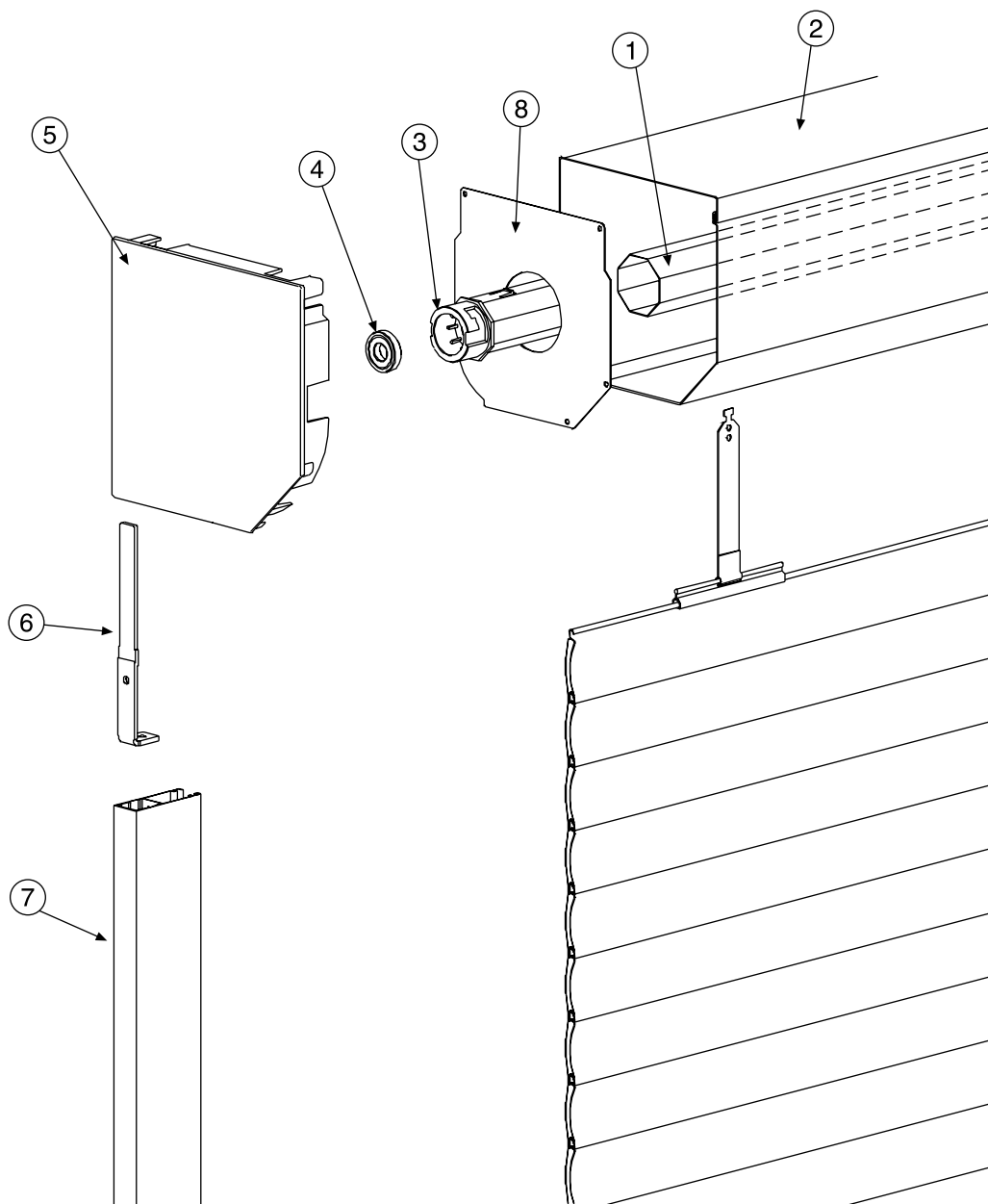
**STD PACK.**

10

**U.M.**

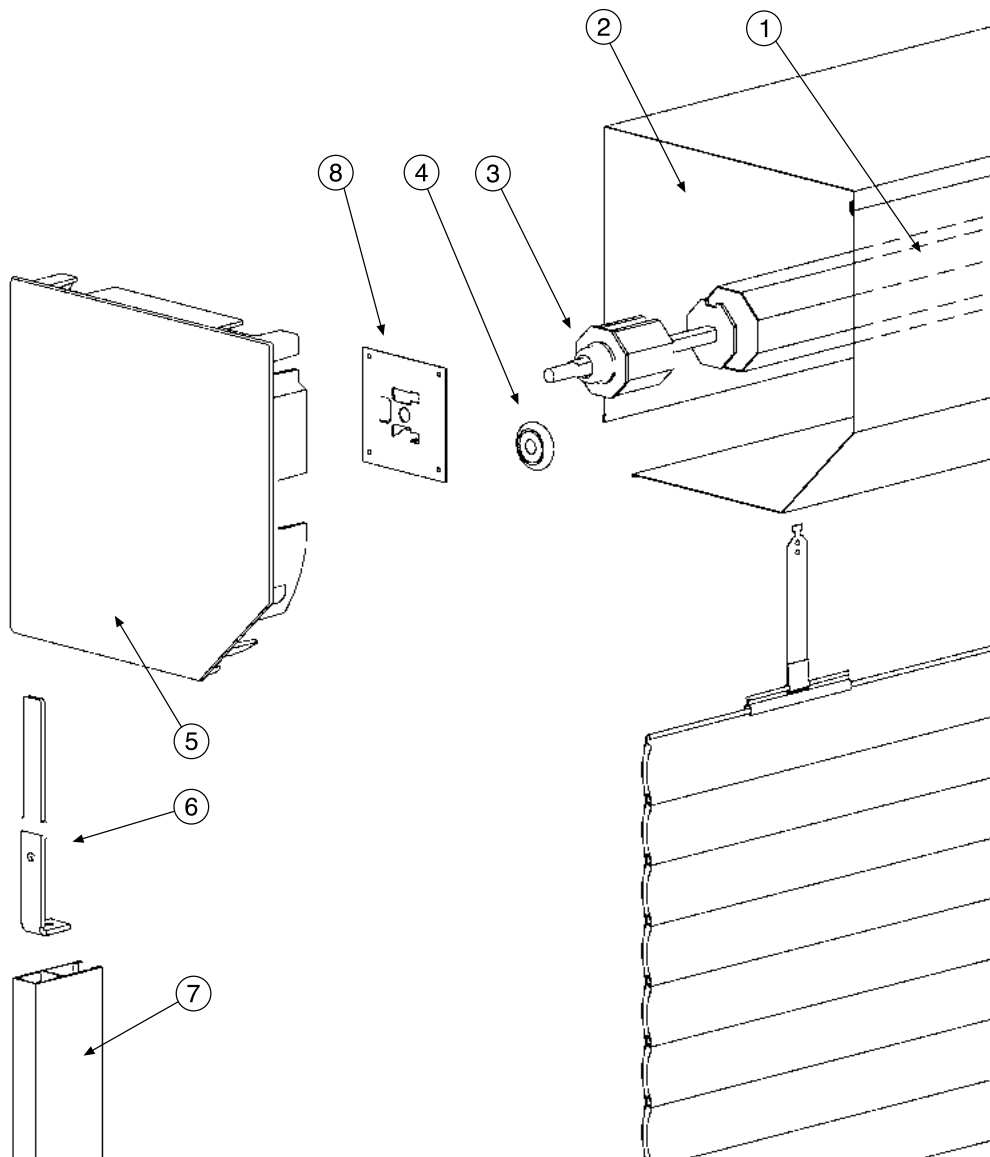
PC

## MINI-SHUTTERBOX UNIBOX SYSTEM - IDLE SIDE



1	OCTOGONAL ROLL TUBE
2	SHUTTERBOX PROFILE
3	CAP
4	BALL BEARING
5	SIDE FRAME
6	BAYONET
7	LATERAL GUIDE RAIL
8	SAFETY PLATE

### MAXI-SHUTTERBOX UNIBOX SYSTEM - IDLE SIDE



1	OCTOGONAL ROLL TUBE
2	SHUTTERBOX PROFILE
3	CAP
4	BALL BEARING
5	SIDE FRAME
6	BAYONET
7	LATERAL GUIDE RAIL
8	BALL BEARING SUPPORT



TAP-GARAGE



# TAP-GARAGE

**Tap - Garage**, Croci new locking system for all types of garages and shops, is the most innovative garage door which assures to your customers the highest protection, quietness and comfort, respecting the building architecture and gives remarkable elegance.





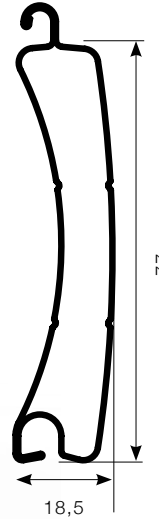
Crocì garage doors respect the existing laws and is able to meet many customers' needs. It is available in ceiling, shutterbox and support-to-wall systems; it can be easily fixed and used in any type of building. Tap Garage is also equipped with intermediate extruded aluminum profiles of the same color, to illuminate and ventilate the rooms.

Garage and shop shutters manufactured by Crocì comply with the existing EC norms (EN 292-2/60204-1/418, UNI EN 13241-1/12453/12445/12604-1/ 12605, EN 12978, UNI EN 12444/12424) with the following Directives: Machinery Directive 2006/42/CE, Low Tension Directive 73/23/cee and Electromagnetic Compatibility Directive 89/336.

# AR-77

# TAP-GARAGE

## ALUMINUM PROFILE WITH MEDIUM DENSITY FOAM



### TECHNICAL DATA

Kg/lm weight: 0,380 kg approx.

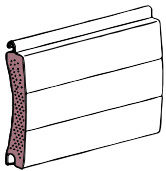
Kg/sqm weight: 4,94 kg approx.

Slats per sqm: 13

Max sizes: max width: 4,00 lm  
max height: 5,00 lm - max surface: 16 sqm

Standard packaging: 15 slats - 6,5 ml

## SHUTTERS



Assembled rolling shutter with junction to roll tube, side plugs (TLAR/77), standard end slat (TE19X77)

## ROLL DIAMETER

### SHUTTERBOX SYSTEM - SHUTTER HEIGHT (mm) with anti-lifting system SEC

	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4600	4800	5000
Roll tube Ø60	251	273	275	281	309	309	309	309	309	335	341	341	345	355	375	375	375
Roll tube Ø70	259	259	291	291	291	299	325	325	325	325	355	361	361	361	365	385	385

### SUPPORT TO WALL SYSTEM - SHUTTER HEIGHT (mm) with extruded junction 77SEC

	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4600	4800	5000
Roll tube Ø102	255	259	281	289	289	293	319	321	321	323	345	351	351	351	359	379	385

## EXTRUDED PROFILES

ESA-77 19X77 extruded profile for ventilation

ESF-77 19X77 extruded profile for lighting

## SUITABLE END SLATS *(PAG. 110)*

TE19x77 Aluminum extruded end slat 19x77 mm

## SUITABLE GUIDE RAILS *(PAG. 111)*

SHUTTERBOX AND WALL SYSTEMS (to be used with GG35NOR standard gasket) GE90X35 - GE100X35

CEILING SYSTEM (to be used with SP35MAG maxi brush) GE85X38

## SUITABLE SECURITY ACCESSORIES *(PAG. 112)*

SEC60 Anti-lifting security system for 60mm roll tube

SEC70 Anti-lifting security system for 70mm roll tube

SE43E-77 Double sided key lock (inside/outside) with bar

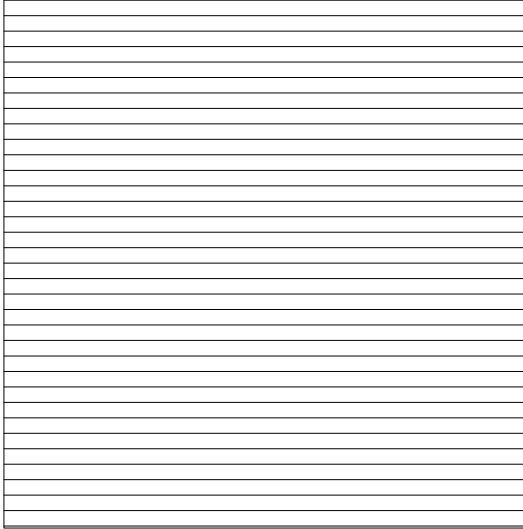
AT-77E Anti-storm insert for ESA/77 and ESF/77 extruded profiles

## COLOR RANGE

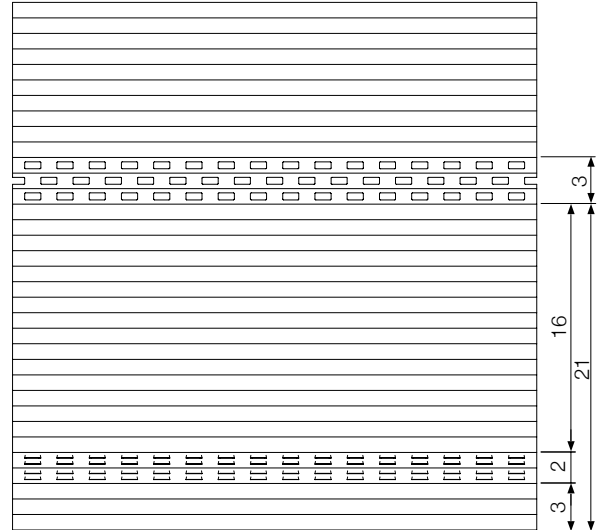




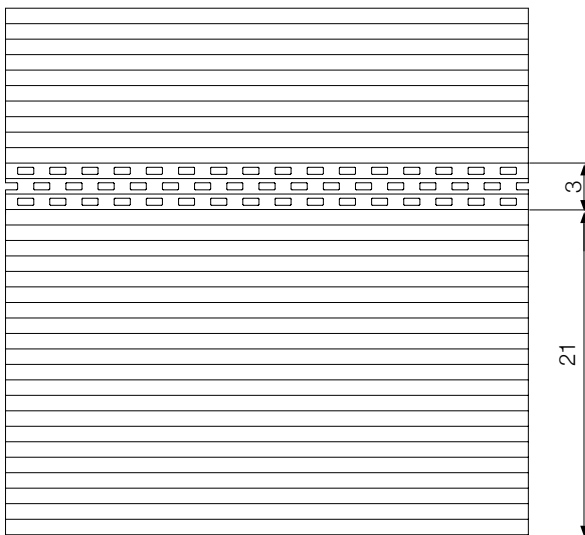
## SHUTTER DOOR COMBINATIONS



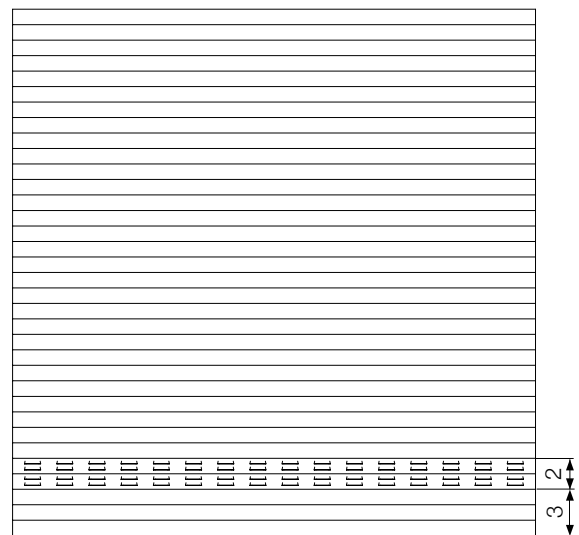
PROFILED SLAT SHUTTER WITH END SLAT  
AR-77T  
AR-77T-SF (ceiling system)



PROFILED SHUTTER WITH 3 SLATS FOR LIGHTING, 2 FOR VENTILATION AND END SLAT  
AR-77TFA  
AR-77TFA-SF (ceiling system)

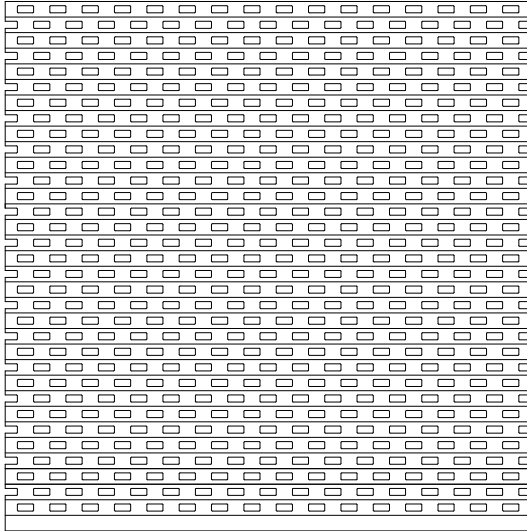


PROFILED SHUTTER WITH 3 SLATS FOR LIGHTING AND END SLAT  
AR-77TF  
AR-77TF-SF (ceiling system)



PROFILED SHUTTER WITH 2 SLATS FOR VENTILATION AND END SLAT  
AR-77TA  
AR-77TA-SF (ceiling system)

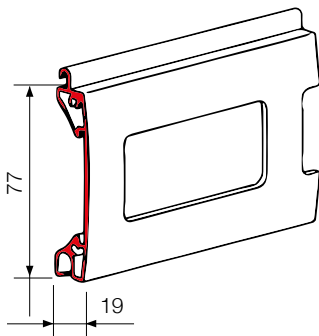
## TAP SHOP



In order to meet the growing demand of security closures for shops, Croci has conceived an additional Tap Garage version called **Tap Shop**, entirely made of extruded profiles for lighting (without insert). The 110 mm hole pitch allows an excellent visibility inside the shop.

**Tap Shop** is recommended both for new building and for replacements.

ESF/77T  
SHUTTER WITH EXTRUDED PROFILES  
FOR LIGHTING

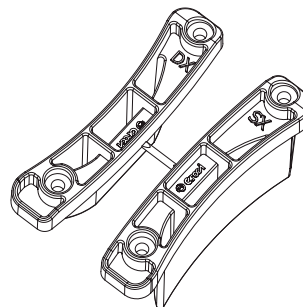


ESF/77  
INTERMEDIATE ALUMINUM  
EXTRUDED PROFILE

For lighting

Weight per sqm: kg 10,860 abt

Slats per sqm: 13 pcs

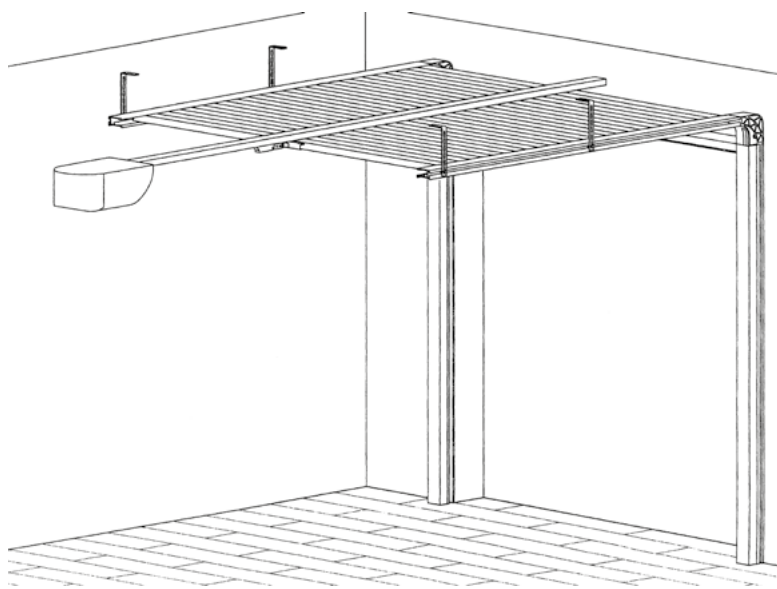


TLESF/77  
PLUGS FOR TAP SHOP



## TAP-GARAGE

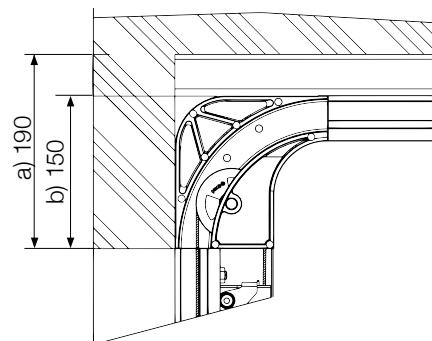
Thanks to its ability to slide on horizontal guide rails supplied with plugs with rollers, this system takes up less room, which is suitable for low-ceiling houses. Its motorized operation uses a particular compensation spring system and is also supplied with manual lifting.



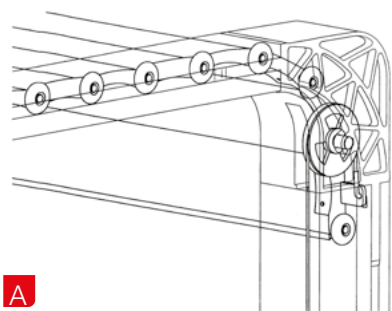
Max opening size  
Width 3,5 lm  
Height 3 lm  
Surface 9 sqm

Minimum opening size  
Width 2 lm  
Height 1,7 lm \*

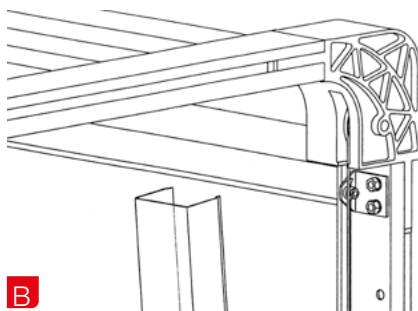
\* Wall mount



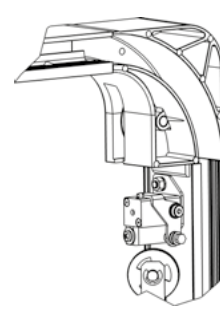
Connector total encumbrance  
a) motorized ceiling system  
b) manual ceiling system



**A**



**B**



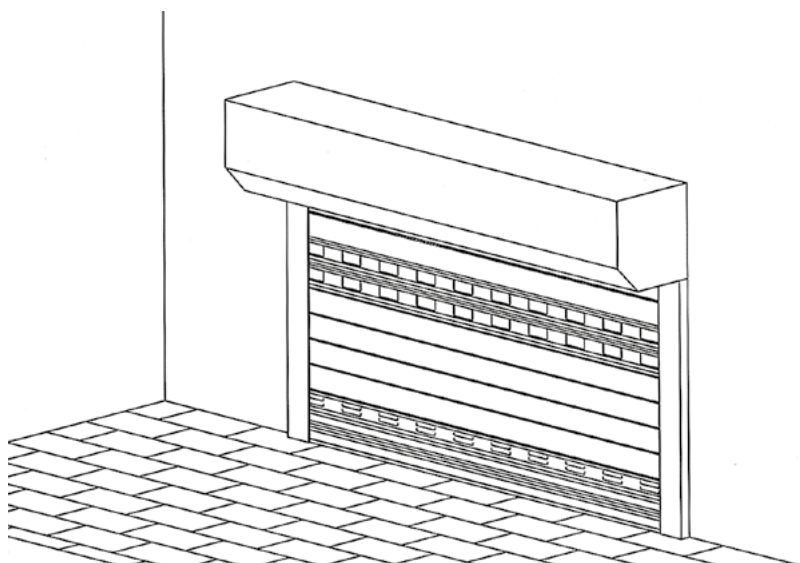
**C**

**A** The sliding system, with nylon plugs provided with rollers reduces noise and friction.

**B** The spring counterbalance system allows the use of double sided manual emergency inside or outside (on request).

**C** The anti-falling system (patent n. BO2006A 000807 of 27/11/06).

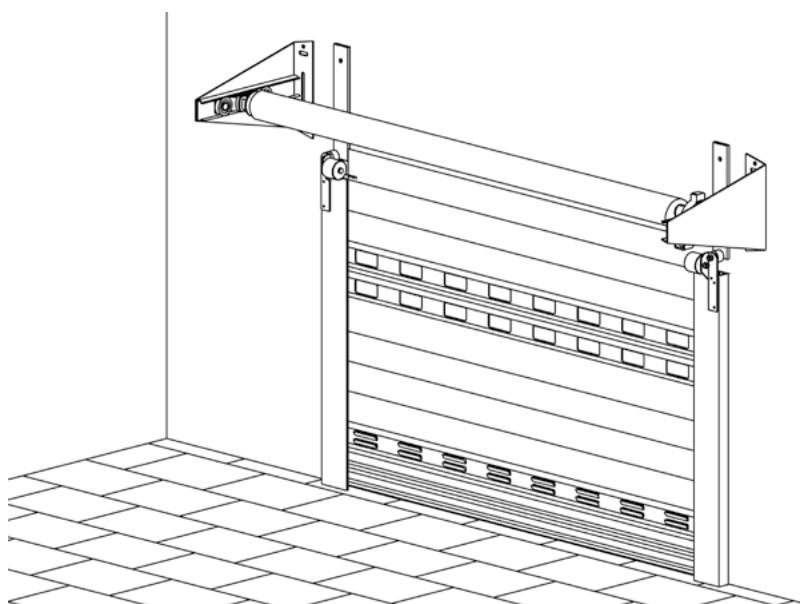
This system is extremely easy to be assembled and respects the architectural features of the place in which it is assembled.



Max opening size  
AR-77  
Width 4 lm  
Height 2,6 lm  
Surface 10 sqm

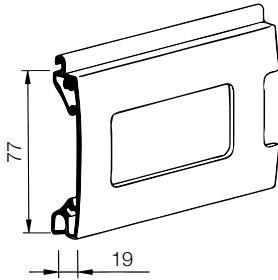
## SUPPORT TO WALL SYSTEM

This system, which has the same features of the previous one, allows you to close largest surfaces.



Max opening size  
Width 4 m  
Height 5 m  
Surface 16 sqm

ESF-77



**DESCRIPTION**

INTERMEDIATE PROFILE FOR LIGHTING AND FOR ESF-77T SHUTTER (TAP SHOP) 19X77 MM WITH PLEXIGLASS INSERT SLOT  
  
WEIGHT 835 G/LM  
WEIGHT 10,860 KG/SQM APPROX.  
SLATS PER SQM 13

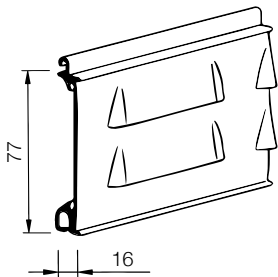
**STD PACK.**

5 SLATS  
5,30 LM

**U.M.**

LM

ESA-77



**DESCRIPTION**

INTERMEDIATE PROFILE FOR VENTILATION 16X77 MM  
  
WEIGHT 732 G/LM  
WEIGHT 9,520 KG/SQM APPROX.  
SLATS PER SQM 13

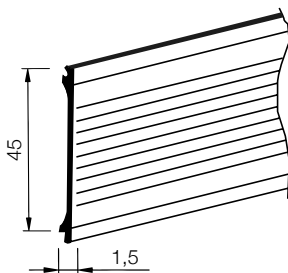
**STD PACK.**

5 SLATS  
5,30 LM

**U.M.**

LM

FI-77



**DESCRIPTION**

POLYCARBONATE TRASPARENT INSERT FOR EXTRUDED PROFILE ESF-77

**STD PACK.**

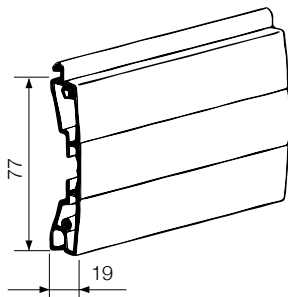
2 SLATS  
2,5 LM

**U.M.**

LM

**END SLATS AND GASKETS**

TE19X77



**DESCRIPTION**

ALUMINUM EXTRUDED END SLAT 19X77 MM

**STD PACK.**

5 SLATS  
OF 5,30 LM

**U.M.**

LM

GGTE-77



**DESCRIPTION**

PVC GASKET FOR END SLAT TE19X77

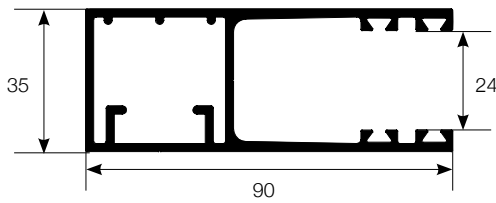
**STD PACK.**

1 SLAT  
5,30 LM

**U.M.**

LM

#### GE90X35



#### DESCRIPTION

ALUMINUM EXTRUDED GUIDE RAIL 90X35 WITH DOUBLE SEAT FOR ANTINOISE GASKET WEIGHT 1890 G/LM APPROX.

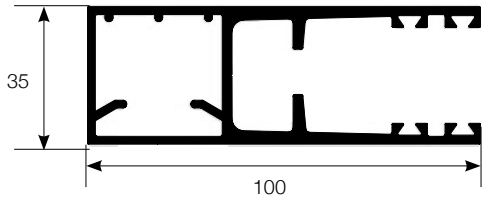
#### STD PACK.

3 SLATS  
6,50 LM

#### U.M.

LM

#### GE100X35



#### DESCRIPTION

EXTRUDED ALUMINUM ANTISTORM GUIDE RAIL 100X35 MM WITH DOUBLE SEAT FOR GASKET WEIGHT 2148 G/LM APPROX.

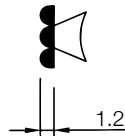
#### STD PACK.

3 SLATS  
6,50 LM

#### U.M.

LM

#### GG35NOR



#### DESCRIPTION

PVC GASKET FOR EXTRUDED ALUMINUM GUIDE RAILS

#### STD PACK.

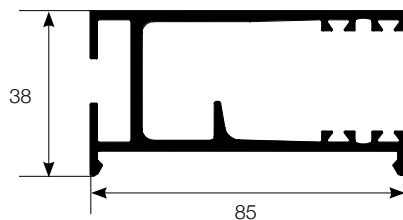
275 LM

#### U.M.

LM

### CEILING SYSTEM

#### GE85X38



#### DESCRIPTION

ALUMINUM EXTRUDED GUIDE RAIL 85X38 MM WITH DOUBLE SEAT FOR GASKET AND BRUSH WEIGHT 1938 G/LM APPROX.

#### STD PACK.

2 SLATS  
5,30 LM

#### U.M.

LM

#### SF-CARTER



#### DESCRIPTION

ALUMINUM EXTRUDED PROTECTION GUARD FOR GE85X38 GUIDE RAIL WEIGHT 815 G/LM

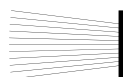
#### STD PACK.

2 SLATS  
5,30 LM

#### U.M.

LM

#### SP35MAG



#### DESCRIPTION

MAXI BRUSH FOR ALUMINUM EXTRUDED GUIDE RAILS

#### STD PACK.

275 LM

#### U.M.

LM

TLAR-77



**DESCRIPTION**

**STD PACK.**

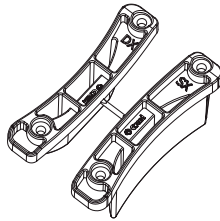
**U.M.**

PLASTIC SIDE PLUG  
FOR AR-77 PROFILE

500

PACK

TLESF-77



**DESCRIPTION**

**STD PACK.**

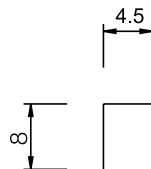
**U.M.**

PLASTIC SIDE PLUG WITH SCREWS  
FOR ESF-77 AND ESA-77 PROFILES

500

PACK

PM703



**DESCRIPTION**

**STD PACK.**

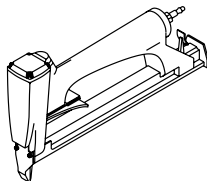
**U.M.**

METAL STAPLES H408 FOR P70PNE  
STAPLER - PROFILE AR-77

28.000

PACK

P70PNE



**DESCRIPTION**

**STD PACK.**

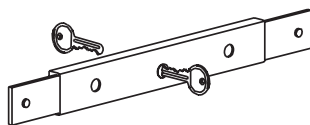
**U.M.**

PNEUMATIC STAPLER

1

PACK.

SE43E-77



**DESCRIPTION**

**STD PACK.**

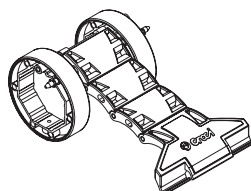
**U.M.**

DOUBLE SIDED KEY LOCK (INSIDE/  
OUTSIDE) WITH BAR  
FOR PROFILE TE19X77

1

PC

SEC60



**DESCRIPTION**

**STD PACK.**

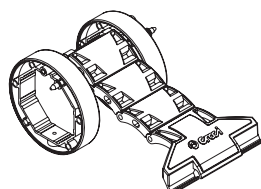
**U.M.**

ANTI-LIFTING SYSTEM FOR Ø 60 MM  
ROLL TUBE  
ONLY FOR SHUTTERBOX SYSTEM

25

PC

SEC70



**DESCRIPTION**

**STD PACK.**

**U.M.**

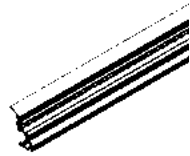
ANTI-LIFTING SYSTEM  
FOR Ø 70 MM ROLL TUBE

25

PC



77-SEC



**DESCRIPTION**

ALUMINUM JUNCTION SHUTTER FOR 102X2MM ROLL TUBE FOR SUPPORT TO WALL SYSTEM

**STD PACK.**

1 SLAT  
3,00 LM

**U.M.**

ML

AT-77E



**DESCRIPTION**

ALUMINUM ANTI-STORM INSERT WITH SCREW 5X50, FOR EXTRUDED PROFILES TO BE USED WITH TLESF-77 PLUG (ESF-77 AND ESA-77)

**STD PACK.**

100

**U.M.**

PACK

**CEILING SYSTEM**

SF-TLAR



**DESCRIPTION**

NYLON ROLLING SIDE PLUG FOR CEILING GARAGE DOORS

**STD PACK.**

50

**U.M.**

PACK

SF-RIV



**DESCRIPTION**

Ø 3,8X7MM ALUMINUM RIVETS FOR FIXING SF-TLAR PLUG TO AR-77 PROFILE

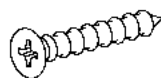
**STD PACK.**

100

**U.M.**

PACK

SF-VIT



**DESCRIPTION**

Ø 3,5X20MM AUTO THREADING SCREWS, FOR FIXING SF-TLAR AND SF-TLTE PLUGS TO TE19X77, ESF-77 AND ESA-77 PROFILES

**STD PACK.**

100

**U.M.**

PACK

SF-TLTE



**DESCRIPTION**

NYLON PLUG FOR TE19X77 END SLAT

**STD PACK.**

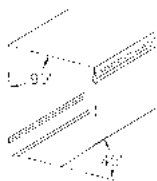
10 PAIRS

**U.M.**

PACK

## SHUTTERBOX AND SIDE FRAMES

CA45-300



**DESCRIPTION**

45° ALUMINUM SHUTTERBOX  
IN 2 PARTS 300MM

**STD PACK.**

3 SLATS  
6,50 LM

**U.M.**

LM

U-CARD-300



**DESCRIPTION**

ROUND ALUMINUM SHUTTERBOX  
IN 2 PARTS 300MM

**STD PACK.**

3 SLATS  
6,50LM

**U.M.**

LM

U-FI300-45



**DESCRIPTION**

45° SIDE FRAME  
FOR MAXI-SHUTTERBOX, 300MM

**STD PACK.**

5 PAIRS

**U.M.**

PAIR

U-FI300-RD



**DESCRIPTION**

ROUND SIDE FRAME  
FOR MAXI-SHUTTERBOX, 300MM

**STD PACK.**

5 PAIRS

**U.M.**

PAIR

U-BAY2



**DESCRIPTION**

20X4MM GALVANIZED BAYONET  
FOR 250 AND 300MM MAXI SIDE  
FRAMES

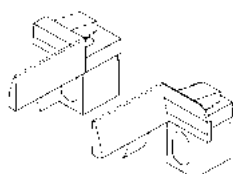
**STD PACK.**

5 PAIRS

**U.M.**

PAIR

U-TENY77



**DESCRIPTION**

NYLON TERMINAL GUIDE  
FOR 250 AND 300 MM SIDE FRAMES

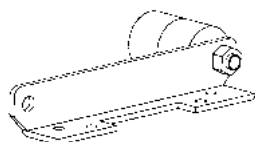
**STD PACK.**

5 PAIRS

**U.M.**

PAIR

TENYC77



**DESCRIPTION**

NYLON ENTRY GUIDE WITH  
ROLLERS FOR SHUTTERBOX  
AND 300 MM SIDE FRAMES

**STD PACK.**

5 PAIRS

**U.M.**

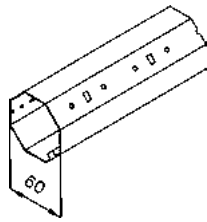
PAIR

### MOTORS AND ACCESSORIES

		DESCRIPTION	STD PACK.	U.M.
MC6050		FOR Ø 60MM ROLL TUBE WITH ADAPTOR - 50 NM	1	PC
MC7085 MC70120		FOR Ø 70MM ROLL TUBE WITH ADAPTOR - 85 NM - 120 NM	1	PC
MC6050S		FOR Ø 60MM ROLL TUBE WITH ADAPTOR AND MANUAL OVERRIDE - 50 NM	1	PC
MC7085S MC70120S		FOR Ø 70MM ROLL TUBE WITH ADAPTOR AND MANUAL OVERRIDE - 85 NM - 120 NM	1	PC
ADMC70		ADAPTOR FOR MOTORS SERIE 60 AND Ø 70MM ROLL TUBE	1	PC
PMC6070S		100X100 PLATE FOR MOTORS SERIE 60S AND 70S	1	PC
PMC6070		100X100 PLATE WITH SUPPORT FOR MOTORS SERIE 60 AND 70	10	PC

## ROLL TUBES AND ACCESSORIES

2001



**DESCRIPTION**

Ø 60MM OCTOGONAL ROLL TUBE  
THICKNESS 8-10

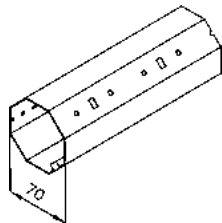
**STD PACK.**

6 SLATS  
5,80 LM

**U.M.**

LM

2003



**DESCRIPTION**

Ø 70MM OCTOGONAL ROLL TUBE  
THICKNESS 10-10

**STD PACK.**

1 SLAT  
5,80 LM

**U.M.**

LM

7706-CAS



**DESCRIPTION**

ANTI-FALLING PARACHUTE  
APPLIANCE WITH 13X13MM  
SQUARE HOLE

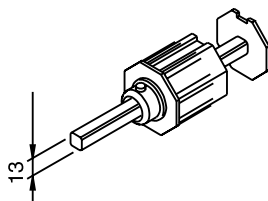
**STD PACK.**

1

**U.M.**

PC

2378



**DESCRIPTION**

ADJUSTABLE REINFORCED CAP  
WITH 13X13MM SQUARE PIVOT  
FOR Ø 60MM ROLL TUBE

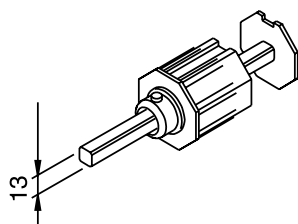
**STD PACK.**

1

**U.M.**

PC

2379



**DESCRIPTION**

ADJUSTABLE REINFORCED CAP  
WITH 13X13MM SQUARE PIVOT  
FOR Ø 70MM ROLL TUBE

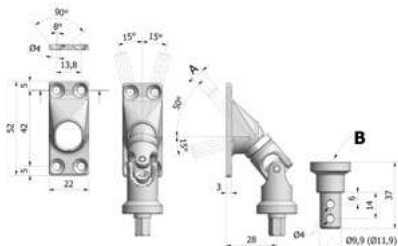
**STD PACK.**

1

**U.M.**

PC

4240



**DESCRIPTION**

90° MAGNETIC JOINT

**STD PACK.**

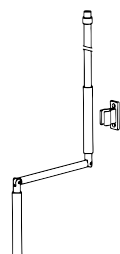
10

**U.M.**

PC

4223

4229



**DESCRIPTION**

OPERATING CRANK WITH HOLDER  
(WHITE AND SILVER)

**STD PACK.**

10

**U.M.**

PC

### AUTOMATION DEVICES FOR SECURITY SYSTEMS

**CENTRAL1**



**DESCRIPTION**

CONTROL UNIT FOR GARAGE DOORS

**STD PACK.**

1

**U.M.**

PC

**CENTRAL3**



**DESCRIPTION**

CONTROL UNIT WITH TEMPORARY SWITCH

**STD PACK.**

1

**U.M.**

PC

**TRASM1**



**DESCRIPTION**

TRANSMITTER WITH ONE BUTTON

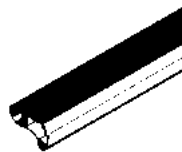
**STD PACK.**

1

**U.M.**

PC

**CP77CE**



**DESCRIPTION**

MECHANIC EDGE, CUT TO MEASURE

**U.M.**

LM

**CP77120**



**DESCRIPTION**

MECHANIC EDGE

**STD PACK.**

1 SLAT  
1,2 LM

**U.M.**

LM

**CP77180**



**DESCRIPTION**

MECHANIC EDGE

**STD PACK.**

1 SLAT  
1,8 LM

**U.M.**

LM

**CPKITCE**



**DESCRIPTION**

KIT FOR MECHANIC EDGE WITH CABLE-HOLDER CHAIN, PROTECTION GUARD FOR CHAIN, SUPPORTS AND SCREWS

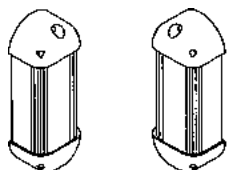
**STD PACK.**

KIT

**U.M.**

KIT

IR77E



**DESCRIPTION**

**STD PACK.**

**U.M.**

EXTERNAL INFRARED PHOTOCELLS

1

PC

LG77



**DESCRIPTION**

**STD PACK.**

**U.M.**

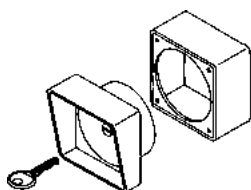
YELLOW BLINKER

1

PC

### SWITCHES AND BUTTONS

EST.PAR



**DESCRIPTION**

**STD PACK.**

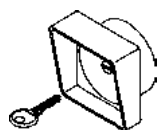
**U.M.**

EXTERNAL WALL MOUNTED KEY SWITCH

1

PC

EST.INC



**DESCRIPTION**

**STD PACK.**

**U.M.**

EXTERNAL RECESSED KEY SWITCH

1

PC

SELET



**DESCRIPTION**

**STD PACK.**

**U.M.**

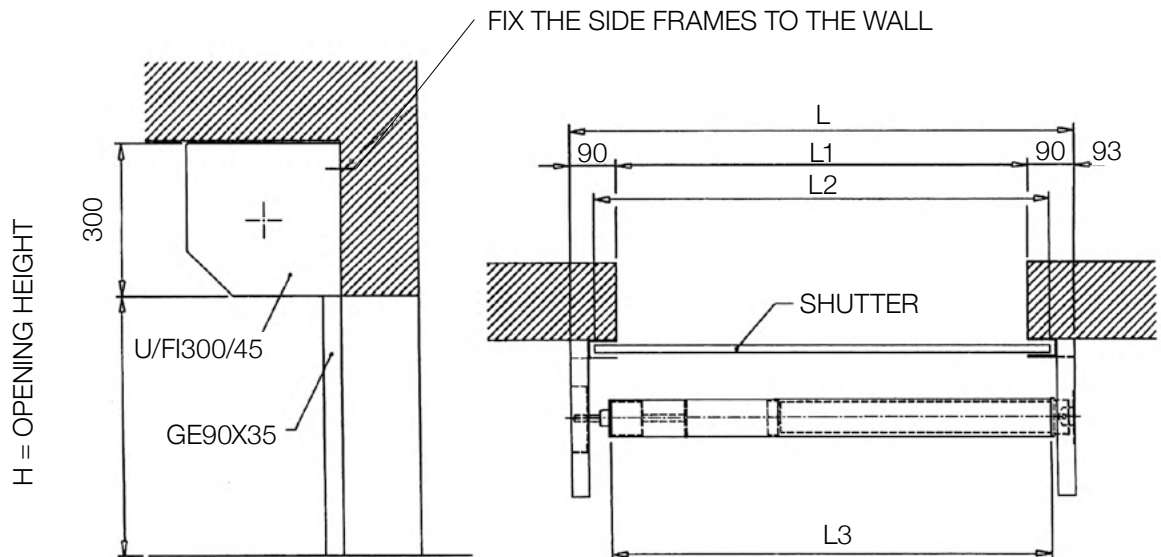
LEVER SWITCH WITH EMERGENCY BUTTON

1

PC



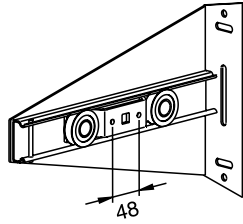
## TECHNICAL DATA



## DIMENSIONS AND ENCUMBRANCE

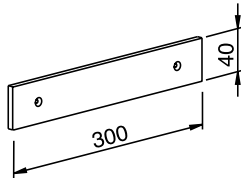
H =	OPENING HEIGHT
L = L1 + (90X2)	SHUTTERBOX ENCUMBRANCE WITH TEMPORARY SWITCH
L = L1 + (90+93)	SHUTTERBOX DIMENSIONS WITH CABLE GUARD AND REMOTE CONTROL
L =	OPENING WIDTH
L2 = L1+90	FINISHED SHUTTER WIDTH (INCLUDING SIDE PLUGS)
L3 = L-138	Ø 60 AND Ø 70 ROLL TUBE LENGTH

7701



DESCRIPTION	STD PACK.	U.M.
WALL SUPPORT WITH ADJUSTABLE CARRIAGE	1	PAIR

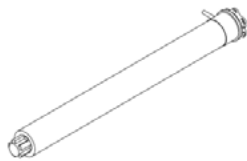
7704



DESCRIPTION	STD PACK.	U.M.
NYLON PLATE FOR WALL SUPPORT	1	PAIR

## MOTORS AND ACCESSORIES

MC7085  
MC70120



DESCRIPTION	STD PACK.	U.M.
MOTORS FOR Ø70 MM ROLL TUBE WITH ADAPTOR:		
- 85 NM	1	PC
- 120 NM	1	

MC7085S  
MC70120S



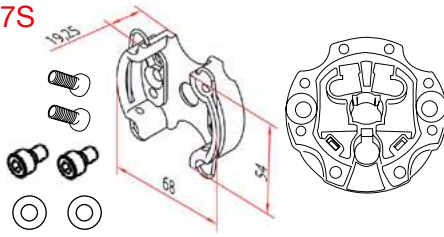
DESCRIPTION	STD PACK.	U.M.
MOTORS FOR Ø70 MM ROLL TUBE WITH ADAPTOR AND MANUAL OVERRIDE:		
- 85 NM	1	PC
- 120 NM	1	

ADMC102



DESCRIPTION	STD PACK.	U.M.
ADAPTOR FOR SERIE 70 MOTORS AND ROUND Ø 102 MM ROLL TUBE	1	PC

**SMC77S**



**DESCRIPTION**

SUPPORT FOR MOTORS SERIE 70S

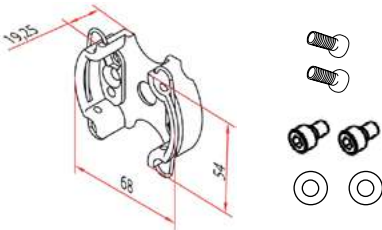
**STD PACK.**

10

**U.M.**

PC

**SMC77**



**DESCRIPTION**

SUPPORT FOR MOTOR SERIE 70

**STD PACK.**

10

**U.M.**

PC

**ROLL TUBES AND ACCESSORIES**

**2077-CAL**



**DESCRIPTION**

ROUND Ø 102 MM ROLL TUBE WITH ADJUSTABLE WELDED CAP FOR WALL SYSTEM GARAGE DOORS WITH MOTORS SERIE 70

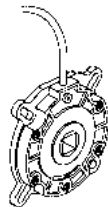
**STD PACK.**

1 SLAT  
6,0 LM

**U.M.**

LM

**7707**



**DESCRIPTION**

ANTIFALLING PARACHUTE APPLIANCE WITH 18X18MM SQUARE HOLE

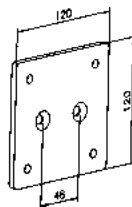
**STD PACK.**

1

**U.M.**

PC

**7702**



**DESCRIPTION**

SUPPORT FOR ANTI-FALLING PARACHUTE APPLIANCE FOR SUPPORTS TO WALL

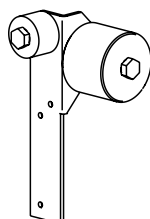
**STD PACK.**

1

**U.M.**

PC

**TENYB77**



**DESCRIPTION**

ENTRY GUIDE WITH NYLON ROLLERS

**STD PACK.**

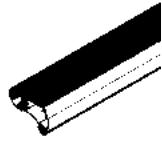
1

**U.M.**

PC



CP77CE



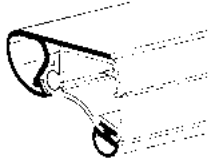
**DESCRIPTION**

**U.M.**

MECHANIC EDGE CUT TO MEASURE

PC

CP77120



**DESCRIPTION**

**STD PACK.**

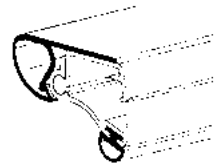
**U.M.**

MECHANIC EDGE

1 SLAT  
1,2 LM

LM

CP77180



**DESCRIPTION**

**STD PACK.**

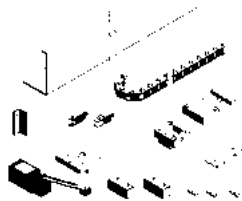
**U.M.**

MECHANIC EDGE

1 SLAT  
1,8 LM

PC

CPKITCE



**DESCRIPTION**

**STD PACK.**

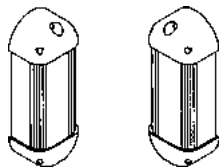
**U.M.**

KIT FOR MECHANIC EDGE  
WITH CABLE-HOLDER CHAIN,  
PROTECTION GUARD FOR CHAIN,  
SUPPORTS AND SCREWS

KIT

KIT

IR77E



**DESCRIPTION**

**STD PACK.**

**U.M.**

EXTERNAL INFRARED PHOTOCELLS

1

PC

LG77



**DESCRIPTION**

**STD PACK.**

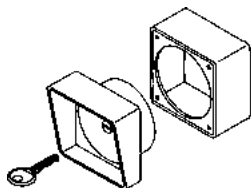
**U.M.**

YELLOW BLINKER

1

PC

EST.PAR



**DESCRIPTION**

**STD PACK.**

**U.M.**

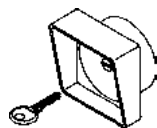
EXTERNAL WALL MOUNTED KEY SWITCH

1

PC

---

EST.INC



**DESCRIPTION**

**STD PACK.**

**U.M.**

EXTERNAL RECESSED KEY SWITCH

1

PC

---

SELET



**DESCRIPTION**

**STD PACK.**

**U.M.**

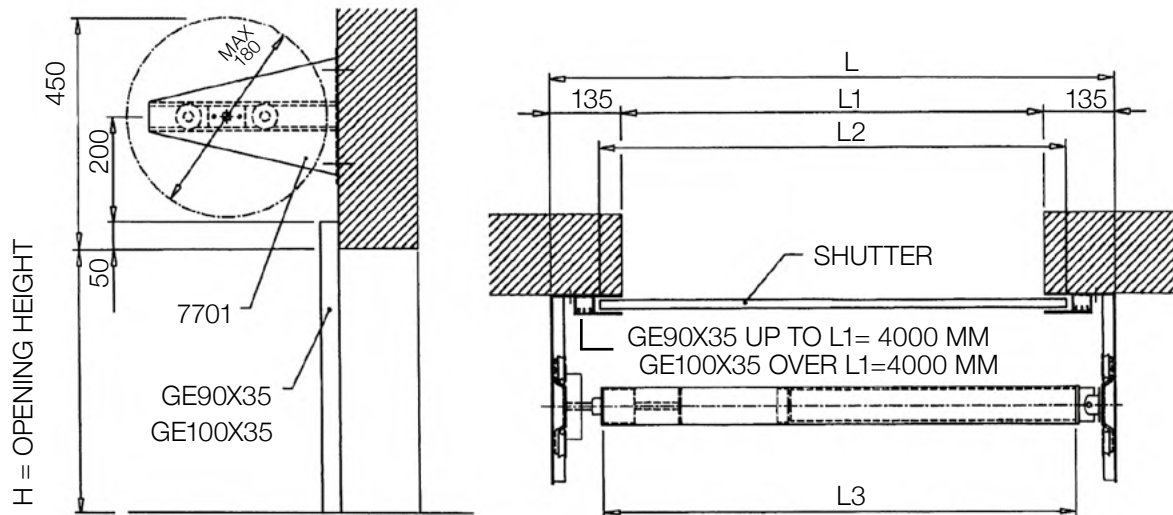
LEVER SWITCH WITH EMERGENCY BUTTON

1

PC



### TECHNICAL DATA



### DIMENSIONS AND ENCUMBRANCES

#### GARAGE DOOR UP TO L1 = 4000 MM (AR-77)

$$L = L1 + (135 \times 2)$$

L1 = OPENING WIDTH (INNER GUIDE RAILS)

L2 = L1 + 90 MM (FINISHED SHUTTER WIDTH WITH SIDE PLUGS)

L3 = L - 200 (Ø 102MM ROUND ROLL TUBE LENGTH)

GE90X35 GUIDE RAILS

SF-KIT



**DESCRIPTION**

**STD PACK.**

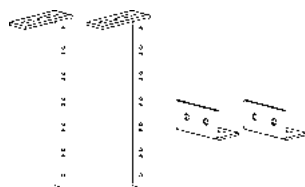
**U.M.**

CEILING SYSTEM ACCESSORIES::  
 - BRACKETS - STEEL ROPES  
 - PINS - ROPE PULLEYS  
 - 90° JOINTS

1

KIT

SF-KIT2



**DESCRIPTION**

**STD PACK.**

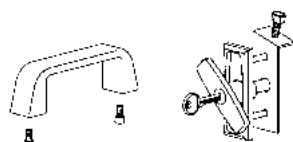
**U.M.**

BRACKET KIT FOR GARAGE DOORS  
 WITH OPENING WIDTH OVER 2,50 M

1

KIT

SF-MAN



**DESCRIPTION**

**STD PACK.**

**U.M.**

EXTERNAL RELEASE HANDLE  
 WITH KEY AND EXTERNAL PLASTIC  
 HANDLE

1

PC

SF-MANPVC



**DESCRIPTION**

**STD PACK.**

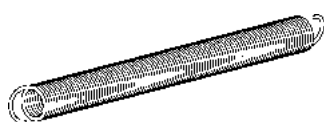
**U.M.**

EXTERNAL PLASTIC HANDLE

1

PC

SF-M36X3,5  
 SF-M34,5X3,5  
 SF-M33X3,5  
 SF-M39X4,0  
 SF-M42,5X4,3  
 SF-M41X4,3  
 SF-M43X4,5  
 SF-M41X4,5



**DESCRIPTION**

**STD PACK.**

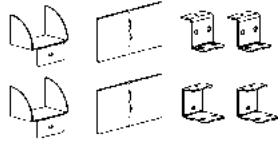
**U.M.**

ASSIST SPRINGS  
 FOR OCTOGONAL TUBE:  
 - Ø 36X3,5 MM  
 - Ø 34,5X3,5 MM  
 - Ø 33X3,5 MM  
 - Ø 39X4,0 MM  
 - Ø 42,5X4,3 MM  
 - Ø 41X4,3 MM  
 - Ø 43X4,5 MM  
 - Ø 41X4,5 MM

1

PAIR

SF-KIT3



**DESCRIPTION**

KIT FOR GARAGE DOORS WITH GUIDE RAILS HEIGHT  $\leq 2,10M$

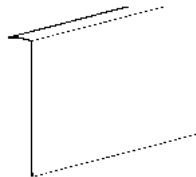
**STD PACK.**

1

**U.M.**

KIT

SF-VL1  
SF-VL2



**DESCRIPTION**

ALUMINUM PROFILED LINTEL

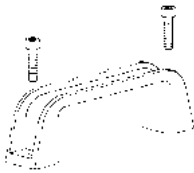
**STD PACK.**

1 BARRA  
DA 6,50 ML

**U.M.**

ML

SF-MANINT



**DESCRIPTION**

INTERNAL PLASTIC HANDLE

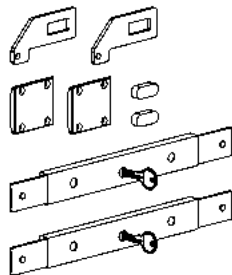
**STD PACK.**

1

**U.M.**

PC

SF-KITSE



**DESCRIPTION**

PAIR OF INTERNAL/EXTERNAL LOCKS WITH SAME KEY, WITH 0,5 LM BAR AND FIXING BRACKETS

**STD PACK.**

1

**U.M.**

KIT

SF-AC01



**DESCRIPTION**

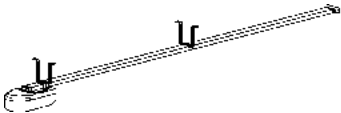
SAFETY BRAKE DEVICE FOR CEILING SYSTEM (MOTORIZED AND MANUAL)

**STD PACK.**

1

**U.M.**

PAIR

	DESCRIPTION	STD PACK.	U.M.
SF-MCA550 SF-MCA550M	 <p>550N CEILING SYSTEM MOTOR WITH REMOTE CONTROL, EXTERNAL PHOTOCELLS, YELLOW BLINKER AND MANUAL RELEASE</p>	1	PC
	- ALTEZZA GUIDA. FINO A 2500 MM		
	- ALTEZZA GUIDA FINO A 3000 MM		

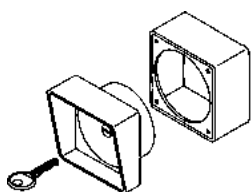
### SF-TRASM



DESCRIPTION	STD PACK.	U.M.
2 CHANNEL REMOTE CONTROL WITH SUPPORT (OPTIONAL)	1	PC

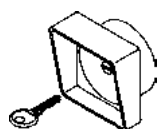
## SWITCHES AND BUTTONS

### EST.PAR



DESCRIPTION	STD PACK.	U.M.
EXTERNAL WALL MOUNTED KEY SWITCH	1	PC

### EST.INC



DESCRIPTION	STD PACK.	U.M.
EXTERNAL RECESSED KEY SWITCH	1	PC

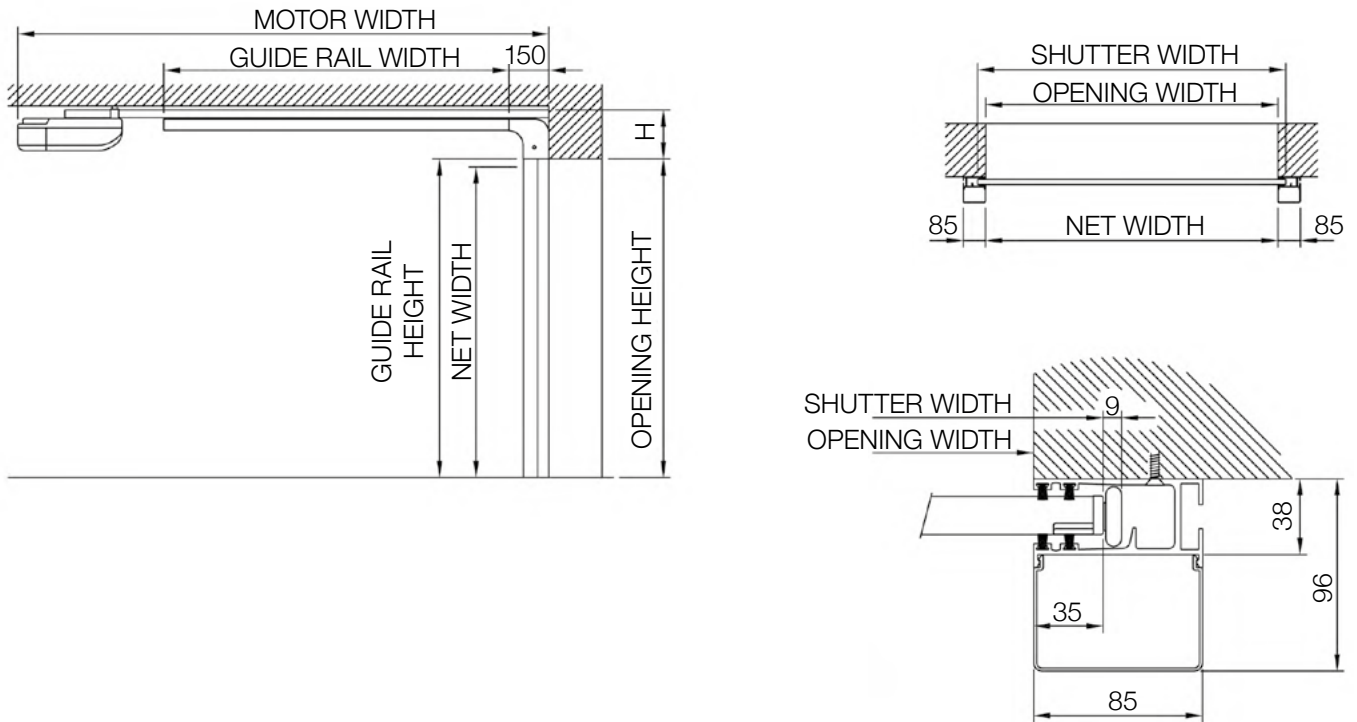
### SELET



DESCRIPTION	STD PACK.	U.M.
LEVER SWITCH WITH EMERGENCY BUTTON	1	PC

### APPLICATION TYPE A

### 90° JOINT AND GUIDE RAILS IN WALL MOUNT



MAX OPENING WIDTH= 3500 MM; MAX OPENING HEIGHT= 3000 MM; MAX SURFACE= 9 SQM  
 MIN OPENING WIDTH= 2000 MM; MIN OPENING HEIGHT= 1700 MM (MANUAL AND MOTORIZED)

### DIMENSIONS AND ENCUMBRANCES

H= 150 (MANUAL) OR 100 (MOTORIZED)

NET HEIGHT (PASSAGE)= OPENING HEIGHT- 60 (MANUAL AND MOTORIZED)

GUIDE RAIL HEIGHT= OPENING HEIGHT

GUIDE RAIL WIDTH=2350 (OPENING HEIGHT < 2200) OR OPENING HEIGHT + 100 (OPENING HEIGHT ≥ 2200)

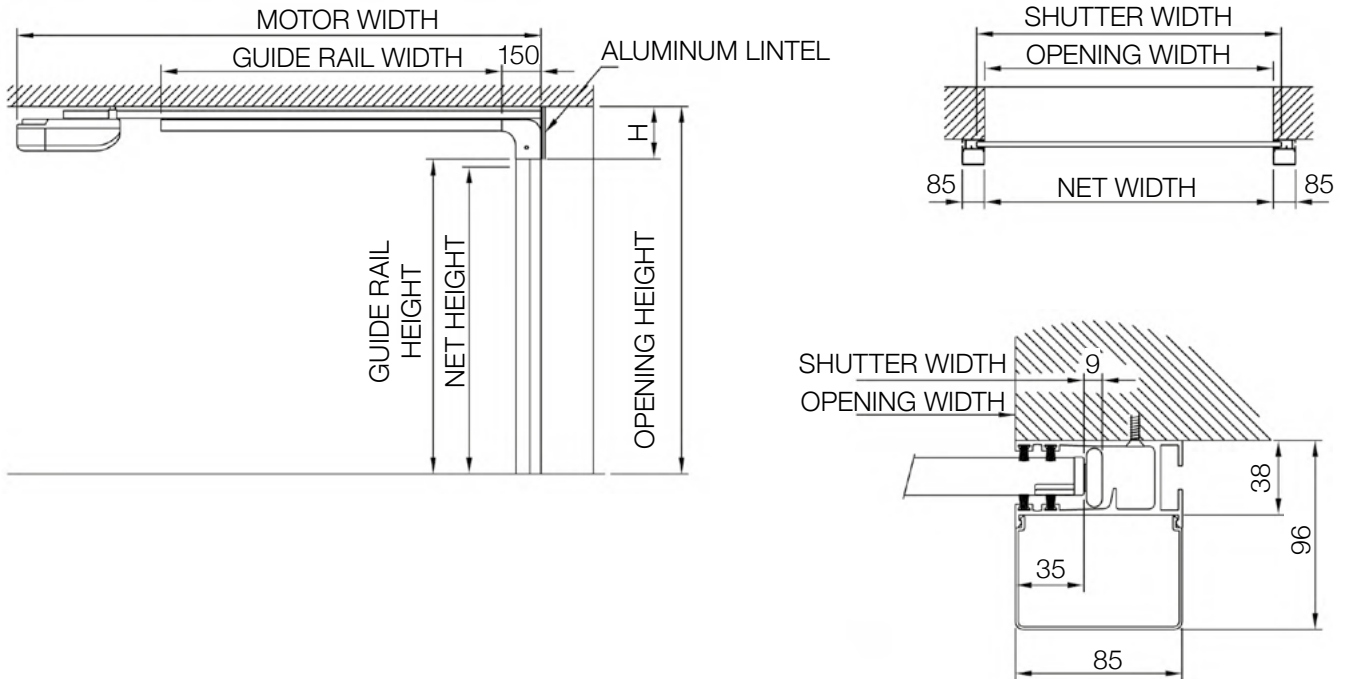
MOTOR WIDTH=3400 (OPENING HEIGHT < 2500) OR 4310 (OPENING HEIGHT UP TO 3000)

NET WIDTH=OPENING WIDTH

SHUTTER WIDTH=OPENING WIDTH + 70 (INCLUDING PLUGS, WITHOUT ROLLERS)

## APPLICATION TYPE B

(90° JOINT IN THE OPENING AND GUIDE RAILS IN WALL MOUNT)



MAX OPENING WIDTH=3500 MM; MAX OPENING HEIGHT=3150 MM (MANUAL) OR 3190 MM (MOTOR)

MIN OPENING WIDTH=2000 MM; MIN OPENING HEIGHT=1850 MM (MANUAL) OR 1890 MM (MOTORIZED)

### DIMENSIONS AND ENCUMBRANCE

HEIGHT= 150 (MANUAL) OR 190 (MOTORIZED)

NET HEIGHT (PASSAGE)= OPENING HEIGHT - 210 (MANUAL) OR OPENING HEIGHT - 250 (MOTORIZED)

GUIDE RAIL HEIGHT= OPENING HEIGHT-HEIGHT

GUIDE RAIL WIDTH\_2350 (GUIDE HEIGHT < 2200) OR OPENING HEIGHT + 100 (GUIDE HEIGHT ≥ 2200)

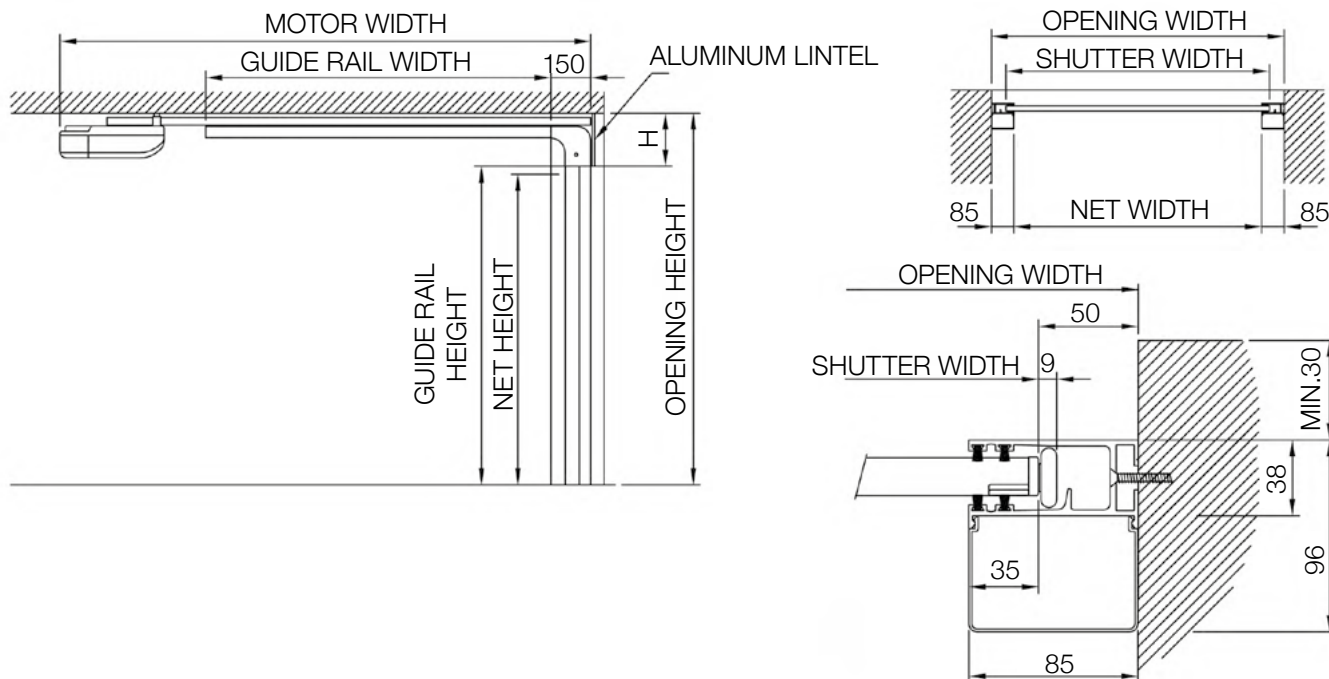
MOTOR WIDTH= 3400 (GUIDE HEIGHT UP TO 2500) OR 4310 (GUIDE HEIGHT UP TO 3000)

NET WIDTH= OPENING WIDTH

SHUTTER WIDTH= OPENING WIDTH + 70 (INCLUDING PLUGS, WITHOUT ROLLERS)



### APPLICATION TYPE C (90° JOINT AND GUIDE RAILS IN THE OPENING)



MAX OPENING WIDTH= 3670 MM; MAX OPENING HEIGHT= 3150 MM (MANUAL) OR 3190 (MOTORIZED); MAX SURFACE= 9 SQM

MIN OPENING WIDTH=2170MM; MIN OPENING HEIGHT=1850 MM (MANUAL) OR 1890 MM (MOTORIZED)

#### DIMENSIONS AND ENCUMBRANCE

HEIGHT=150 (MANUAL) OR 190 (MOTORIZED)

NET HEIGHT (PASSAGE)=OPENING HEIGHT - 210 (MANUAL) OR OPENING HEIGHT - 250 (MOTORIZED)

GUIDE RAIL HEIGHT=OPENING HEIGHT - HEIGHT

GUIDE RAIL WIDTH=2350 (GUIDE HEIGHT < 2200) OR OPENING HEIGHT + 100 (GUIDE HEIGHT ≥ 2200)

MOTOR WIDTH=3400 (GUIDE HEIGHT UP TO 2500) OR 4310 (GUIDE HEIGHT UP TO 3000)

NET WIDTH=OPENING WIDTH - 170

SHUTTER WIDTH=OPENING WIDTH - 100 (INCLUDING PLUGS, WITHOUT ROLLERS)

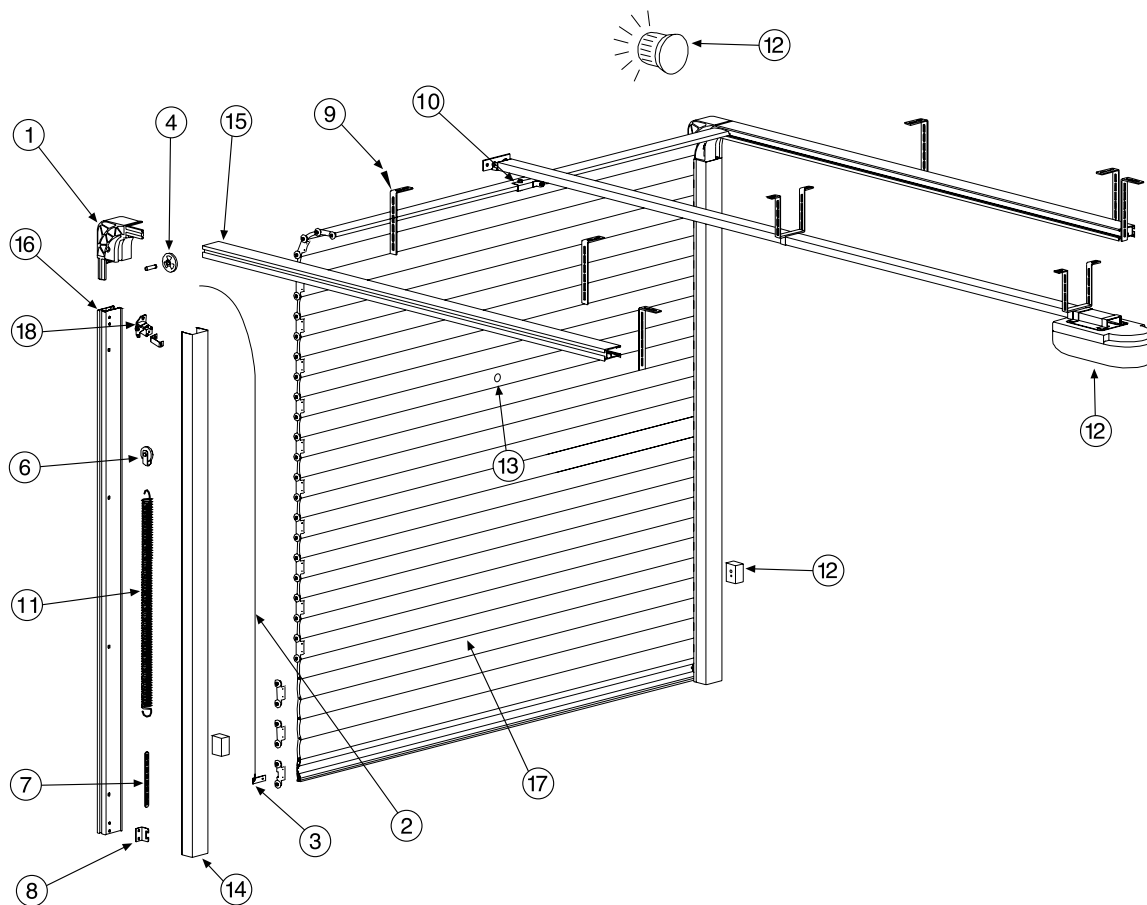
## MOTORIZED CEILING SYSTEM - ACCESSORIES

### ALLOWED OPENING SIZES:

MIN WIDTH= 2,0 M - MIN HEIGHT= 1,7 M

MAX WIDTH= 3,5 M - MAX HEIGHT= 3,0 M

MAX OPENING SURFACE= 9 SQM



SF/KIT	1	90° JOINT
	2	STEEL ROPE
	3	BRACKET FOR ROPE FASTENING
	4	Ø 70MM ROPE PULLEY
	6	Ø 55MM ROPE PULLEY AND PIN
	7	SPRING TIE ROD
	8	BRACKET FOR SPRING FIXING
	9	GUIDE RAIL FIXING BRACKET
	10	SHUTTER DRAGGING BRACKET
	11	COMPENSATION SPRING
	12	CEILING MOTOR WITH REMOTE CONTROL, PHOTOCELL AND BLINKER
	13	EXTERNAL RELEASE
	14	PROTECTION GUARD
	15	HORIZONTAL GUIDE GE85X38
	16	VERTICAL GUIDE GE85X38
	17	PROFILES
	18	SAFETY BRAKE SYSTEM

Note: if guide rail height is <2200mm, springs and accessories are installed horizontally (under horizontal guide rails)

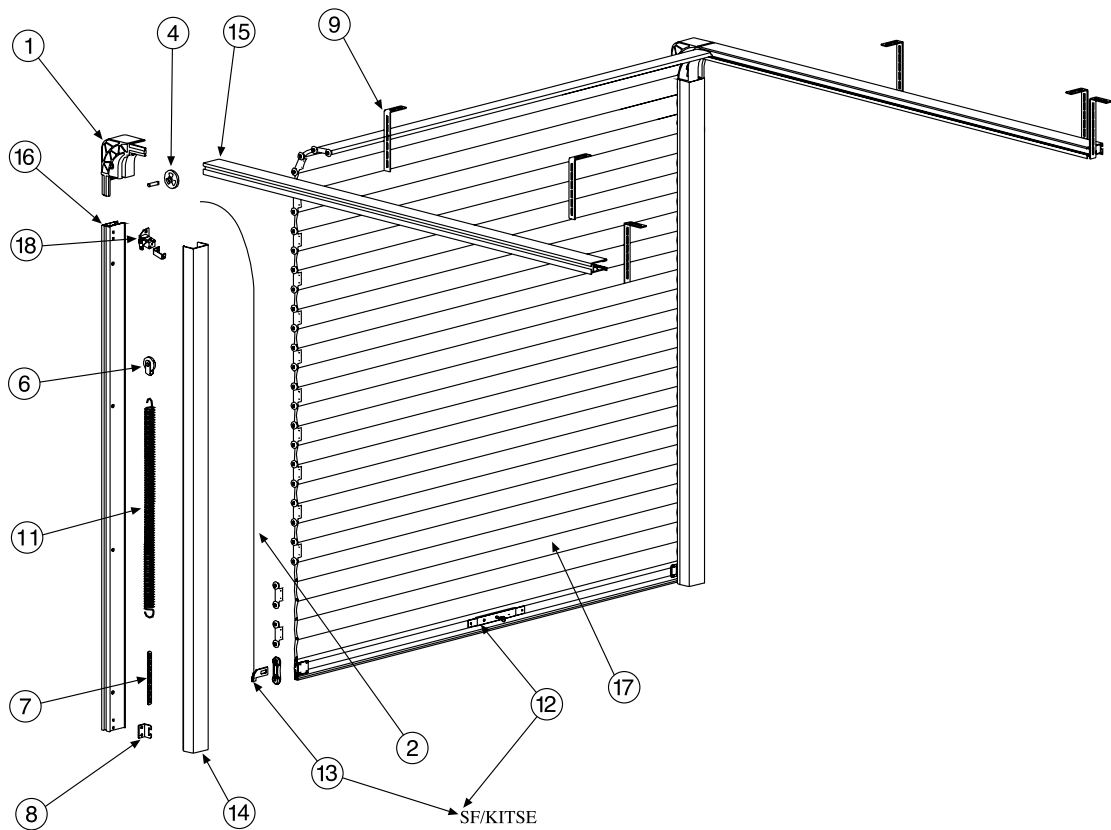
### MANUAL CEILING SYSTEM - ACCESSORIES

#### ALLOWED OPENING SIZES:

MIN WIDTH= 2,0 M - MIN HEIGHT= 1,7 M

MAX WIDTH= 3,5 M - MAX HEIGHT= 3,0 M

MAX OPENING SURFACE= 9 SQM



SF/KIT	1	90° JOINT
	2	STEEL ROPE
	4	Ø 70MM ROPE PULLEY
	6	Ø 55MM ROPE PULLEY AND PIN
	7	SPRING TIE ROD
	8	BRACKET FOR SPRING FIXING
	9	GUIDE RAIL FIXING BRACKET
	11	COMPENSATION SPRING
SF/KITSE	12	INTERNAL/EXTERNAL LOCK
	13	BRACKET FOR ROPE FASTENING
	14	PROTECTION GUARD
	15	HORIZONTAL GUIDE GE85X38
	16	VERTICAL GUIDE GE85X38
	17	PROFILES
	18	SAFETY BRAKE SYSTEM

Note: if guide rail height is <2200mm, springs and accessories are installed horizontally (under horizontal guide rails)

# TAP-BLIND



**Tap Blind** is a top-class security closure system, made of extruded aluminum slats with motor operation (dead man switch with manual override on request). It is both a grille and a shutter and meets any security, aesthetic and confort requirements.

Easy to install, Tap Blind has been conceived to suit any kind of building, but it is also ideal for offices, shops, schools and museums, and can be realized in all RAL colors in addition to Croci color range..

Tap Blind is a security shutter, which protects your house, but also a blind and a grille, allowing the modulation of external light.

Tap Blind has passed security tests in accordance with the UNI EN 1627 and it has been classed RC3 (Test Report N. 322669 - Istituto Giordano).



## CLASS 3

IN ACCORDANCE WITH EUROPEAN STANDARDS

UNI EN 1627

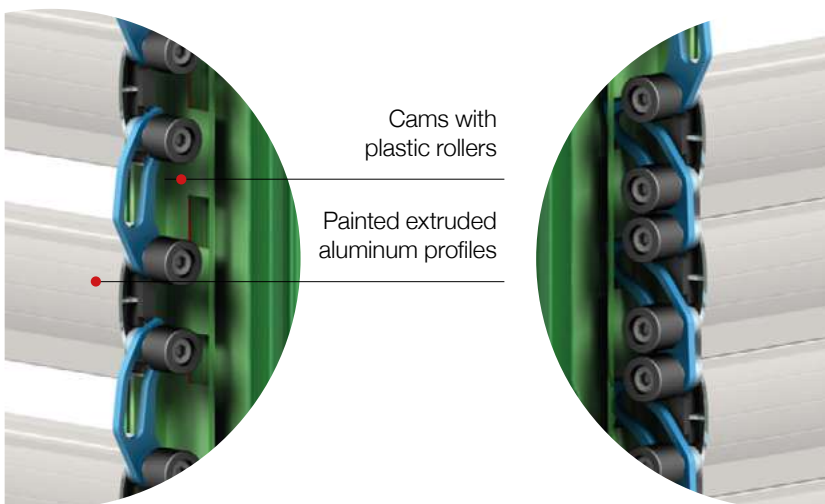
THE SECURITY  
SHUTTER GRILLE

**TAP-BLIND**

## TAP-BLIND

### ALUMINUM SHUTTER

The aluminum extruded profiles (19x65) are connected to each other by steel cams which make the grille effect possible and prevent the shutter lifting, while the plastic rollers (parts of the cams), prevent the shutter from coming outside the guide rails (tear-proof system) and ensure a silent and fluid movement of the shutter.

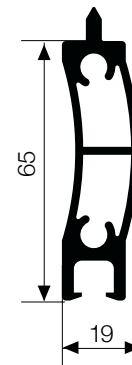


Grille

Closed

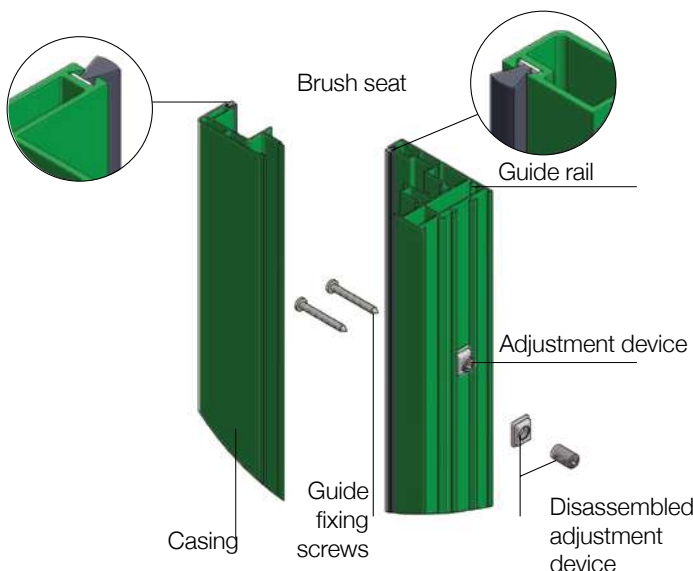
### PROFILE SECTION

Height = 65 mm  
Weight per lm = 1,35 kg  
Weight per sqm = abt 21 kg



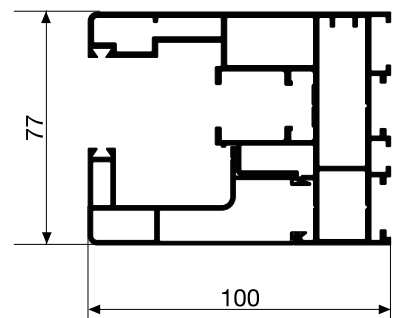
### ALUMINUM GUIDE RAIL

Guide rails in painted extruded aluminum with brushes, are composed by two parts, the guide and the casing. Thanks to the removable casing, installation and maintenance are easy to carry out. Guide rails are equipped with devices allowing a millimetric adjustment of parallelism and perpendicularity.



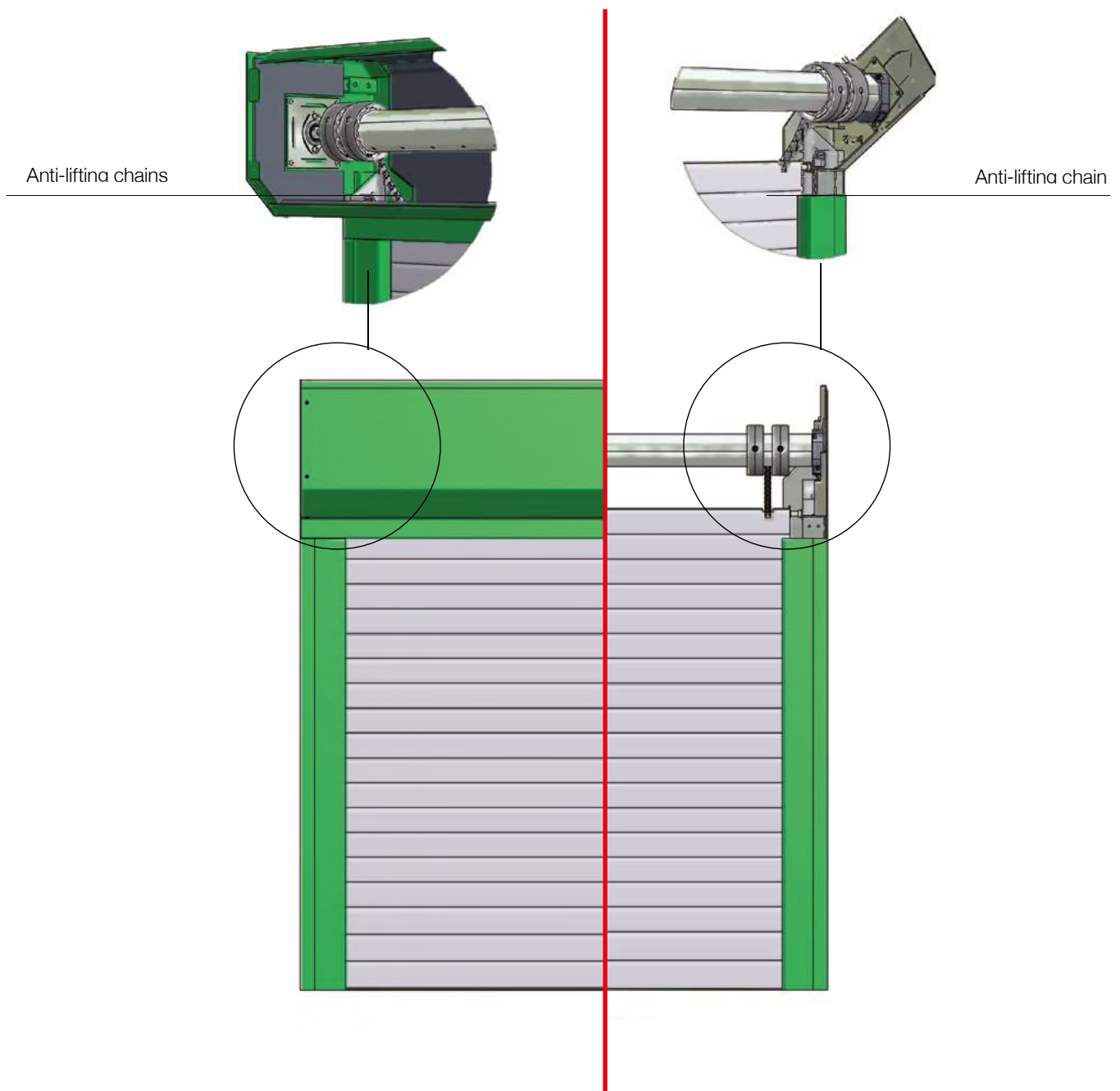
### GUIDE SECTION FOR CASING

Width = 100 mm  
Depth = 77 mm  
Weight per lm = 3,1 kg





In order to improve the anti-burglar resistance, Tap Blind is equipped with innovative security devices as the anti-lifting steel chain, which pushes the shutter downwards and the tear-proof brackets which prevent the shutter from coming out the guide rails.





**Istituto Giordano S.p.A.**  
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 istitutogiordano@giordano.it - www.giordano.it  
 PEC ist-giordano@legalmail.it  
 Cod. Fisc./Part. IVA 00 549 540 409 - Cap. Soc. € 1.500.000 i.v.  
 RE.A c/o C.C.I.A.A. (RN) 156766  
 Registro Imprese di Rimini n. 00 549 540 409

### TEST REPORT N. 322669

**Place and date of issue:** Bellaria-Igea Marina - Italia, 26/02/2015

**Contractor:** CROCI ITALIA S.r.l. - Via Emilia, 732 - 47032 BERTINORO (FC) - Italia

**Date of test request:** 07/01/2015

**Number and date of the order:** 65254, 08/01/2015

**Date of receipt of the sample:** 04/02/2015

**Date of execution of the test:** 10/02/2015

**Object of the test:** burglar resistance and classification (resistance under static charge, resistance under dynamic charge or resistance against manual break-in) according to the regulations UNI EN 1627:2011, UNI EN 1628:2011, UNI EN 1629:2011 and UNI EN 1630:2011 about rolling shutter closure.

**Test site:** Istituto Giordano S.p.A. - Via Erbosa, 72 - 47043 Gatteo (FC) - Italia

**Sample provenance:** sample provided by the contractor

**Identification of the sample at reception:** n. 2015/0195

#### Name of the sample\*.

The name of the sample tested is "TAP BLIND".



(\*) According to the contractor's statement.

LAB N° 0021

Comp. AV Revis. RP	This test report is composed of 16 pages and 1 attachment.	Page 1 of 16
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**Sample description\*.**

The sample submitted to the test consists of a blind closure, which can be opened by rolling on an horizontal upper axe, with the following dimensions.

<b>Total nominal width of the sample</b>	2800 mm
<b>Total nominal height of the sample</b>	2600 mm
<b>Useful width of the sample</b>	2600 mm
<b>Useful height of the sample</b>	2100 mm

In detail, the sample consists of a motorized security shutter sliding vertically.

Please note that the tested sample was equipped, in the rolling shutter, with slats having a reinforcing steel bar, one every 3 slats.

For further details about the sample characteristics, please refer to the schematic drawings supplied by the Contractor, shown in the following pages and in the "A" attachment to this document.

Finally, the sample is also equipped by a steel perimetrical frame used to adapt and fix the test facility.

(\*) in accordance with the technical documents supplied by the Contractor and on the basis of the checks carried out by the qualified personnel of this Institute.

**Classification.**

On the basis of the test carried out, in accordance with the results obtained and as indicated in regulations UNI EN 1627:2011, UNI EN 1628:2011, UNI EN 1629:2011 and UNI EN 1630:2011, the examined sample, consisting of a rolling shutter closure called "TAP BLIND" submitted by CROCI ITALIA S.r.l. - Via Emilia, 732 - 47032 BERTINORO (FC) - Italy, has passed the test required by the laws.

Therefore, in accordance with the regulation UNI EN 1627:2011, the sample belongs to.

**RC 3\***

The results reported refer only to the sample tested and are valid only under the conditions existing in the moment of the test. This test report, alone, can not be considered a certificate of conformity.

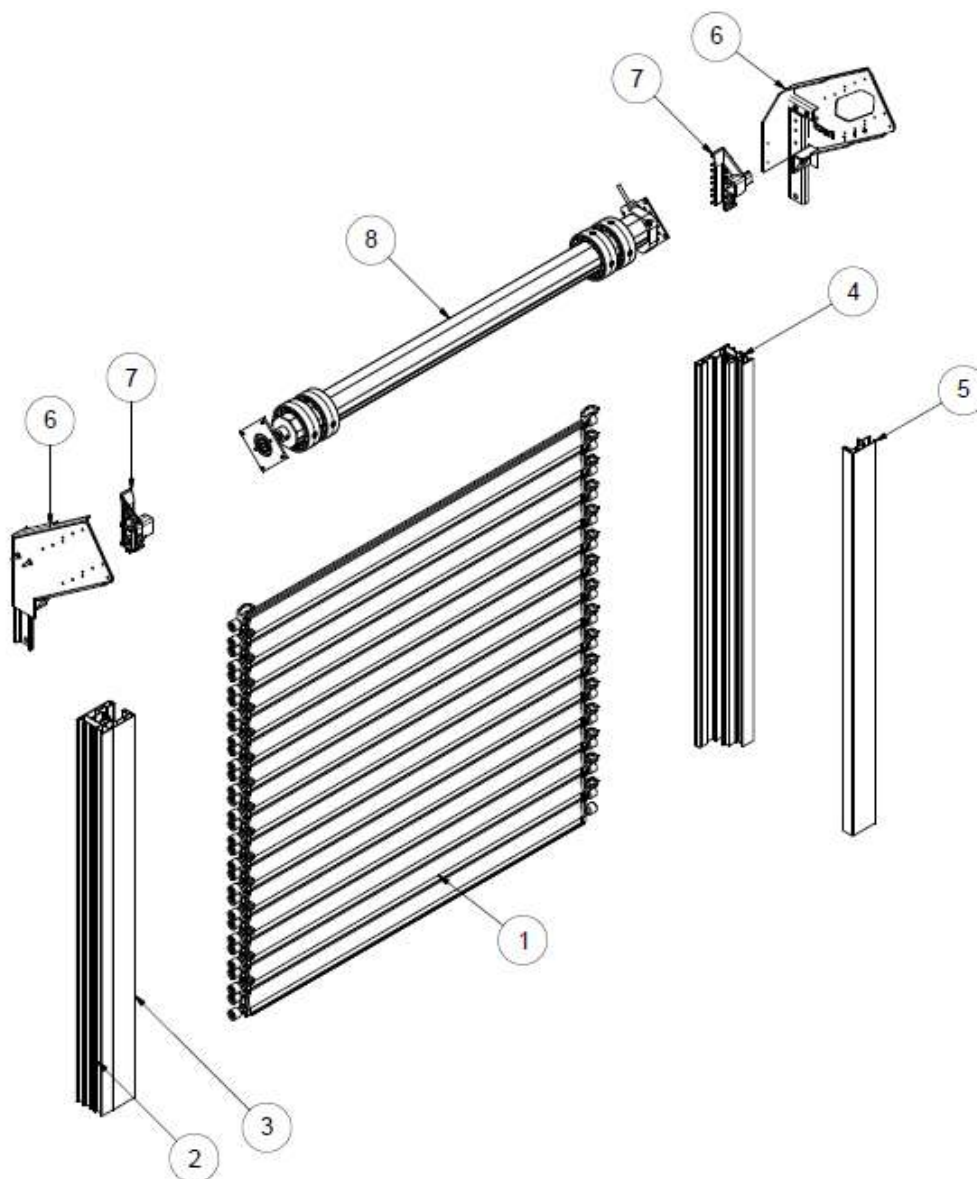
(\*) The classification has been determined according to paragraph 2.6 of the regulation IIAC-GS:03/2009; for further details, please refer to the section "Testing procedure".

Test technician manager  
(Geom. Roberto Porta)

Building laboratory manager  
(Security and Safety)  
(Dott. Andrea Bruschi)

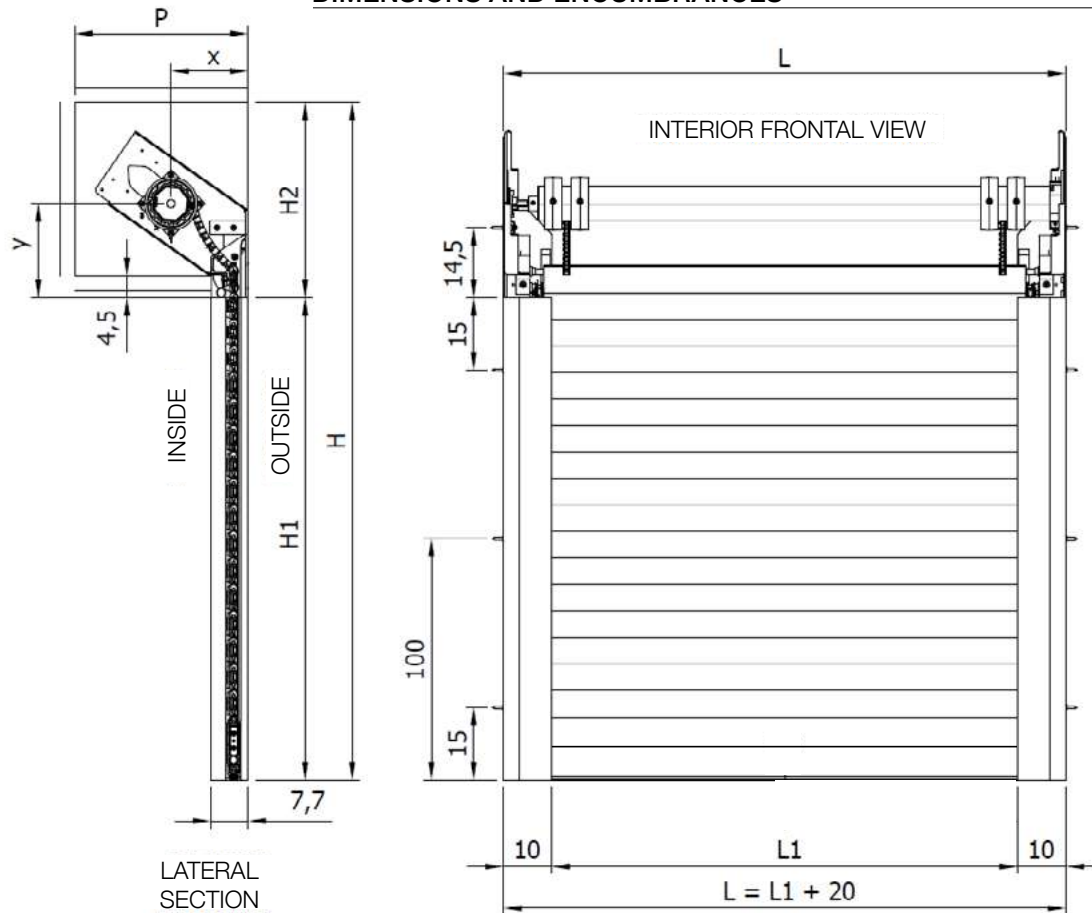
CEO  
(Dott. Arch. Sara Lorenza Giordano)

VIEW



1	EXTRUDED ALUMINUM SHUTTER
2	LEFT EXTRUDED ALUMINUM GUIDE
3	LEFT EXTRUDED ALUMINUM CARTER
4	RIGHT EXTRUDED ALUMINUM GUIDE
5	RIGHT EXTRUDED ALUMINUM CARTER
6	GALVANIZED STEEL TRADITIONAL BRACKETS
7	NYLON ENTRY GUIDE
8	ASSEMBLED ROLL TUBE (WITH MOTOR, SUPPORT, CAP, SUPPORT WITH BEARINGS AND RINGS FOR CHAINS)

## DIMENSIONS AND ENCUMBRANCES



LATERAL SECTION

L	OVERALL WIDTH
L1	NET WIDTH BETWEEN THE GUIDE RAILS (PASSAGE WIDTH)
H	OVERALL HEIGHT
H1	GUIDE RAIL HEIGHT
H2	LINTEL HEIGHT (SEE TABLE)
P	INTERNAL SHUTTERBOX DEPTH (SEE TABLE)
X	DISTANCE BETWEEN ROLL TUBE AND LINTEL (SEE TABLE)
Y	DISTANCE BETWEEN ROLL TUBE AND END OF THE GUIDE (SEE TABLE)

Width	Min	Max
L	75,0 cm	280,0 cm
L1	55,0 cm	260,0 cm

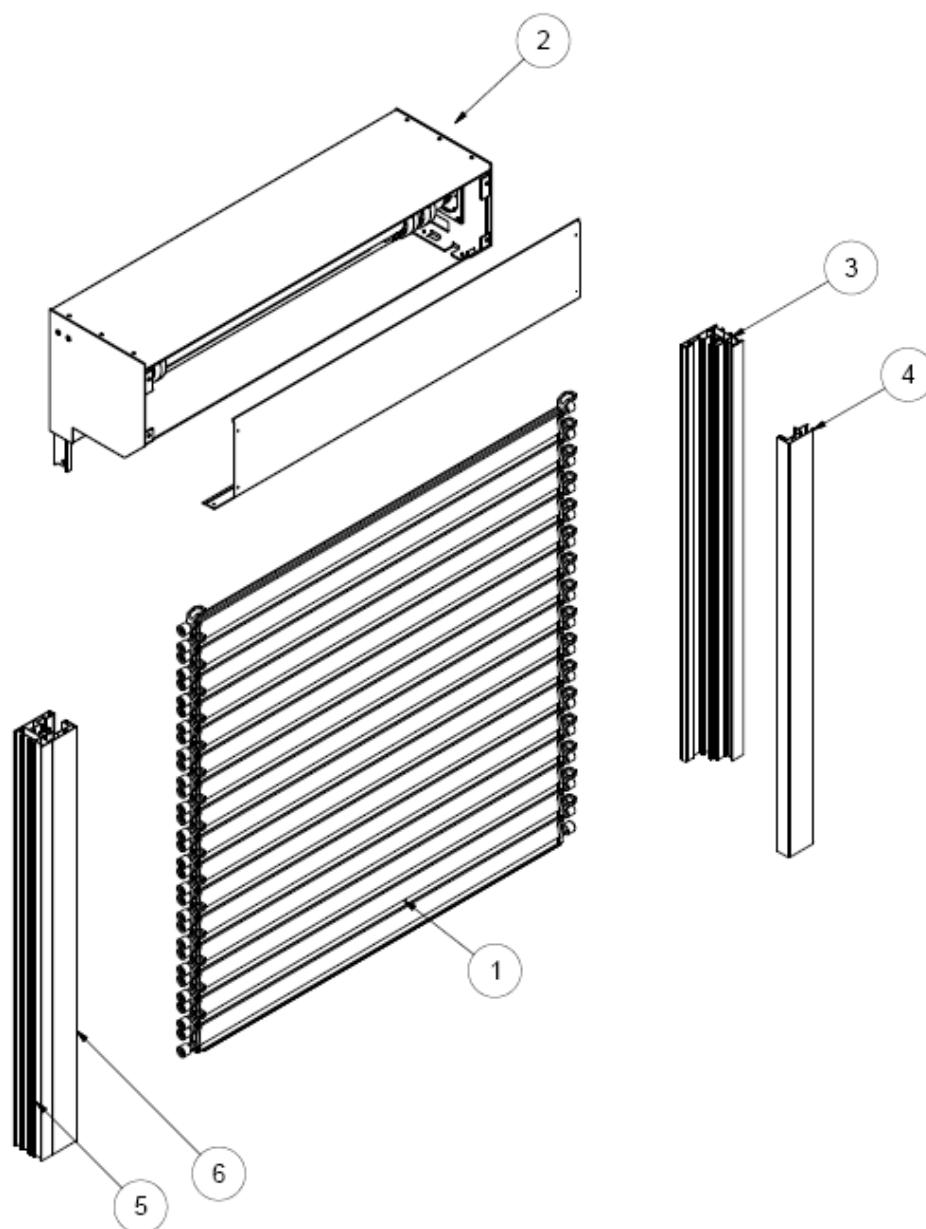
H	H1 max	H2	P	Posizione rullo	Y	X
Up to 180 cm	Up to 145,0 cm	35,0 cm	31,0 cm	1	19,5 cm	16,0 cm
From 180 to 270 cm	Up to 229,5 cm	40,5 cm	36,0 cm	2	22,0 cm	19,0 cm
From 270 to 350 cm	Up to 304,5 cm	45,5 cm	41,5 cm	3	24,5 cm	22,0 cm

Important: numbers 1, 2, 3 are marked on the roll brackets and are needed for identifying the right position of the roll tube.  
 The thickness of the lower part of the shutterbox (ceiling) should be < 4,5 cm.  
 The shutterbox is not furnished by Croci Italia s.r.l.

The shutterbox consists of pre-painted aluminum shaped sheets, and two side covers (frames) in painted galvanized iron, used as support for the lifting/winding system. The inner part of the shutterbox is covered by a polyethylene insulating sheath, 5 and 10 mm thickness, which improves thermic and acoustic insulation.

The shutterbox is available in two dimensions : a smaller one for window shutters and a bigger one for door shutters.

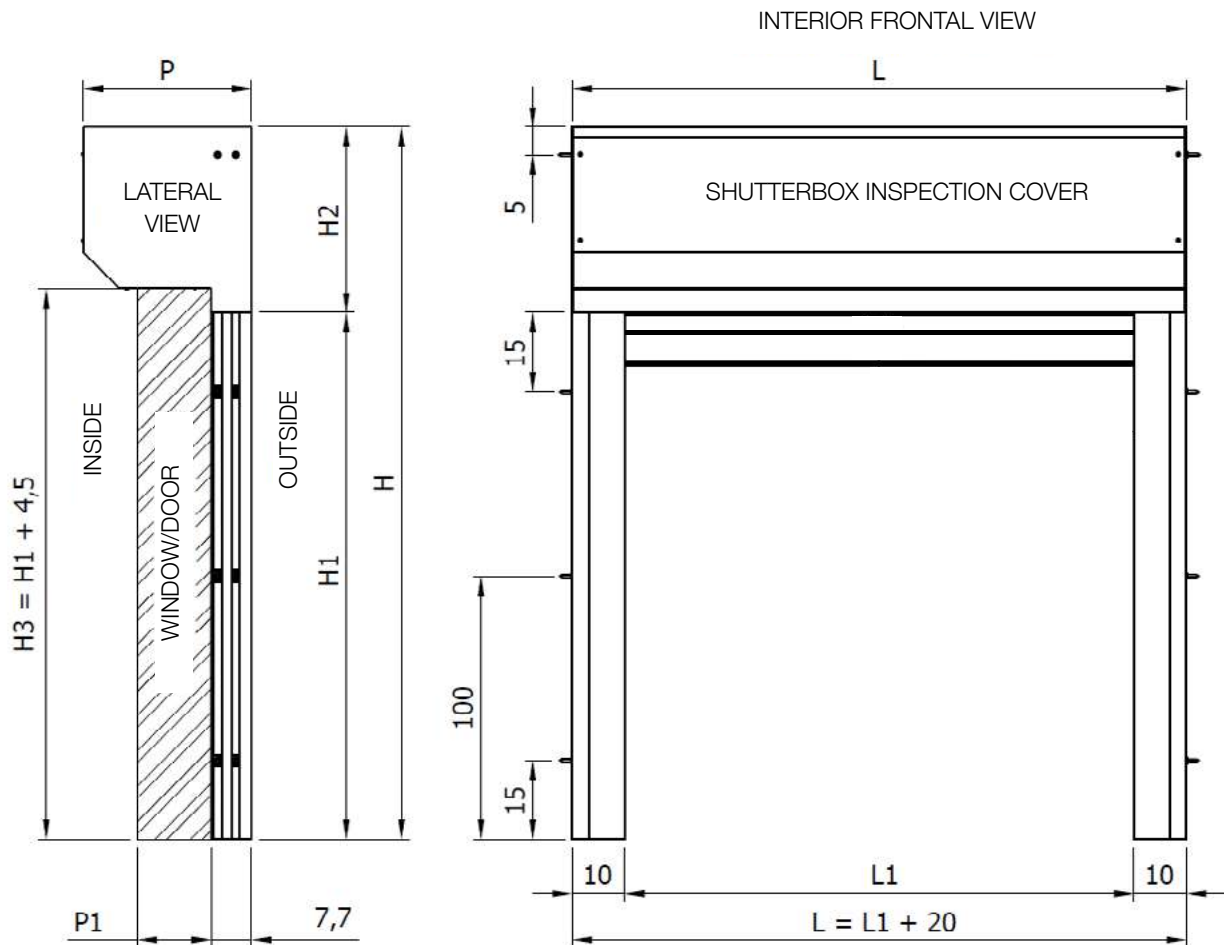
- Thermal transmittance bigger shutterbox = 3,7 W/(m<sup>2</sup> K) rif. "Report n. 282751" Istituto Giordano
- Thermal transmittance smaller shutterbox = 4,0 W/(m<sup>2</sup> K) rif. "Report n.282751 "Istituto Giordano



1	ALUMINUM SHUTTER
2	INSULATED ALUMINUM SHUTTERBOX (H2 = 35,5 CM FOR WINDOW AND D2 = 41 CM FOR DOOR)
3	RIGHT EXTRUDED ALUMINUM GUIDE RAIL
4	RIGHT EXTRUDED ALUMINUM CARTER
5	LEFT EXTRUDED ALUMINUM GUIDE RAIL
6	LEFT EXTRUDED ALUMINUM CARTER



## DIMENSIONS AND ENCUMBRANCES



Dimensions in cm

L	OVERALL WIDTH
L1	NET WIDTH BETWEEN THE GUIDE RAILS (PASSAGE WIDTH)
H	OVERALL HEIGHT
H1	GUIDE RAIL HEIGHT
H2	SHUTTERBOX EXTERNAL HEIGHT, LINTEL SIDE (SEE TABLE)
H3	DOOR/WINDOW MAX HEIGHT
P	SHUTTERBOX EXTERNAL DEPTH (SEE TABLE)
P1	WINDOW MAX DEPTH (SEE TABLE)

Width	Min	Max
L	75,0 cm	280,0 cm
L1	55,0 cm	260,0 cm

H (overall height)	H1 max (guide rail height)	H2 (shutterbox height)	P (shutterbox depth)
Up to 180 cm	Up to 144,5 cm	35,5 cm	32,0 cm
From 180 to 270 cm	Up to 229,0 cm	41,0 cm	37,0 cm

INFO



## TECHNICAL DATA

### ALUMINUM

	SHUTTERS	GARAGE DOOR	SHUTTERBOX
ALLOY	3005 - 3105	3005 - 3105	3005 - 3105
THICKNESS	0,27 - 0,35	0,50	0,80 - 1,00 mm
PHYSICAL PROPERTY	3005 - 3105	3005 - 3105	3005 - 3105

\* Shutter box profiles are supplied with a polyethylene protection sheet to avoid damages during transport and/or installation.

All the raw materials used have passed the acid salt spray test, the humidity test and other tests according to ECCA, ASTM and DIN regulations.

### COATING

COATING TYPE	PU/PA FOR OUTDOOR
COATING THICKNESS	28 - 36 MICRON

The coating is polyurethane/polyamide-based, with orange-peel effect, that gives more resistance to aggressive chemical and atmospheric agents, abrasion and UV radiations than the polyester version. The interior part of the coil is covered by a primer layer needed to adhere perfectly to polyurethane.

Colors are subject to variations in shades and texture, tolerances impossible to avoid, thus not questionable ; wood imitation colors are subject to tolerances in the wood grain as well.

### POLYURETHANE

The polyurethane resins used are freon and odp free.

	MEDIUM DENSITY PROFILES	HIGH DENSITY PROFILES
POLYURETHANE DENSITY	80 - 90 Kg/m <sup>3</sup>	280 - 300 Kg/m <sup>3</sup>

## DECLARATION OF PERFORMANCE N.1 - 2018

**Croci Italia S.r.l.** with its headquarter in Bertinoro (FC - Italia), Via Emilia, 732, P. IVA 04087390409

1. Rolling shutter identified as follows :

- AR-28, AR-37, U-37, AR-17, U-45, U,50, AR-32 - ALUMINUM ROLLING SHUTTERS WITH MEDIUM DENSITY FOAM
- SAR-117, SAR-132 - ALUMINUM SECURITY ROLLING SHUTTERS WITH HIGH DENSITY FOAM
- AC-55 - STEEL SECURITY ROLLING SHUTTERS WITH MEDIUM DENSITY FOAM
- SAR-115, ES-55, ES-44, ES-28 - EXTRUDED ALUMINUM SECURITY SHUTTERS

2. Not applicable

3. Intended use:

**External use.**

4. Manufacturer:

**Croci Italia S.r.l.**

registered office and production Via Emilia, 732 - Bertinoro (FC) Italy,  
P. IVA 04087390409  
E-mail: mark@croci.com

5. Not applicable

6. Assessment and verification of constancy of performance.

**system 4**

7. Not applicable

8. Not applicable

9. Declared performance

### A. Classification of wind resistance in accordance to UNI EN 13659:09

CLASSE	0	1	2	3	4	5	6
Nominal pressure (N/mq)	<50	50	70	100	170	270	400
Safety pressure (N/mq)	<75	75	100	150	250	400	600

### Class of wind resistance related to sizes\*\*\*

#### CLASSIFICATION TO WIND RESISTANCE

FINISHED WIDTH \*\*\* OF ROLLING SHUTTERS (cm)

PROFILE	GUIDE RAIL	520	490	460	430	400	370	340	310	280	250	220	190	160	130
AR-28	TYPE A	0	0	0	0	0	0	1	2	3	4	5	6	6*	6*
	TYPE B	0	0	0	0	0	0	1	2	3	4	5	6	6*	6*
SAR-117	TYPE A	0	0	0	0	0	1	2	2	3	3	4	5	6	6*
	TYPE B	0	0	0	0	0	1	2	2	3	3	4	5	6	6*
AR-37 U-37	TYPE A	0	0	0	0	0	0	1	1	2	3	3	4	5	6
	TYPE B	0	0	0	0	0	0	1	1	2	3	4	5	5	6
AR-17 U-45	TYPE A	0	0	0	0	0	0	1	1	2	3	4	5	6	6*
	TYPE B	0	0	0	0	0	0	1	2	3	4	4	5	6	6*
U-50	TYPE A	0	0	0	0	0	1	2	2	3	3	4	5	5	6
	TYPE B	0	0	0	0	0	1	2	2	3	3	4	5	5	6
ES-44	TYPE A	0	0	0	0	1	2	3	4	4	5	6	6*	6*	6*
	TYPE B	0	0	0	0	1	2	3	4	4	5	6	6*	6*	6*
ES-28	TYPE A	0	1	2	2	3	3	3	4	5	6	6*	6*	6*	6*
	TYPE B	0	1	2	2	3	3	4	5	6	6	6*	6*	6*	6*

**GUIDE TYPE A:** GE28X27, GE26X21, GE53X21(A) GE53X28R

**GUIDE TYPE B:** GE35X21, GE40X21, GE62X21



**CLASSIFICATION OF WIND RESISTANCE**

FINISHED WIDTH \*\* OF ROLLING SHUTTERS (cm)

PROFILE	GUIDE RAIL	580	550	520	490	460	430	400	370	340	310	280	250	220	190
<b>SAR-132</b>	TYPE C	0	0	0	0	1	1	2	2	3	3	4	4	5	6
	TYPE D	0	0	0	0	1	1	2	2	3	3	4	4	5	6
<b>AR-32</b>	TYPE C	0	0	0	0	0	1	1	2	2	3	4	4	5	6
	TYPE D	0	0	0	0	0	1	2	2	3	3	4	5	5	6
<b>AC-55</b>	TYPE C	0	0	0	0	1	2	3	3	4	5	5	6	6*	6*
	TYPE D	0	0	0	0	1	2	3	3	4	5	6	6*	6*	6*
<b>ES-55</b>	TYPE C	0	1	1	1	2	2	3	3	4	5	5	6	6*	6*
	TYPE D	0	1	1	2	3	3	4	4	4	5	5	6	6*	6*
<b>SAR-115</b>	TYPE C	0	1	1	2	3	3	3	3	4	5	5	6	6*	6*
	TYPE D	0	1	2	2	3	3	4	4	4	5	5	6	6*	6*
<b>GUIDE TYPE C:</b> GS28X17, GE30X27, GE30X25, GE30X19															
<b>GUIDE TYPE D:</b> GE40X27, GE60X28, GE458028, GE80X28															

Note:

Classe 0: no wind resistance (rolling shutter profile not classifiable) Result obtained with deductive method  
Indicated classes are not applicable to rolling shutters with projection frames.

\*\* "Finished width size" means the width of rolling shutters including side plugs.

\*\*\* Test performed in accordance to UNI EN 1932:2013

To identify the product (rolling shutter profile, guide rail) refer to Croci Italia S.r.l. general catalogue.

**B. Solar transmittance G-TOT**

Material: pre-painted and insulated aluminum - Painted extruded aluminum - Pre-painted and insulated steel  
Solar transmittance : Te 0% (UNI EN 14500:2006)

Glass used : type C (UNI EN 14501) - Ug: 1,2 W/m<sup>2</sup>k p<sub>g</sub>: 0,29 T<sub>g</sub>: 0,49 gv: 0,59

Data processed in accordance to UNI EN ISO 52022-1:2018 and classification of performance in accordance to UNI EN 14501

Closed rolling shutter				
SLAT COLOR	WHITE	PASTEL	DARK	BLACK
G-TOT VALUE	0,05	0,08	0,11	0,14
CLASSE UNI EN 14501	4	4	4	4

**C. Additional thermal resistance\***

Air permeability classification				
	HIGH	MEDIUM	LOW	VERY LOW**
ALUMINUM	0,0913	0,113	0,114	0,175
STEEL	0,0955	0,122	0,158	0,192

\* resulted in accordance to UNI EN 10077-1 according to the air permeability norm UNI EN 13125.

\*\* it means "airtight" with hidden guide rails and shutterbox with joint

10. The performances of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer.

**Croci Italia Srl**

Bertinoro, 01/09/2018

# GENERAL SALES CONDITIONS

## 1) WRITTEN APPROVAL OF THE ORDER

The orders, even if sent through an agent, shall not be binding for Croci Italia Srl without written approval of Croci Italia Srl. They shall only include what expressly stated and they shall be regulated by our sales conditions only.

## 2) EFFECTIVENESS OF SALES CONDITIONS

In case of changes of the production costs between the date of order and the date of delivery of the goods, Croci Italia Srl can change the agreed prices. Where the prices in the order confirmation are different from those in the order, they are considered accepted if not contested within 3 days from transmission of the confirmation.

## 3) TERMS OF DELIVERY

The foreseen terms of production and delivery of the goods are approximate, even if indicated in the order confirmation. Croci Italia Srl is not responsible for any eventual delay caused by "Force Majeure" or any other reason which is not completely caused by the seller. It's excluded that the delay can give the buyer the right to claim damages and/or to resolve the contract. The buyer is allowed to withdraw if the delay exceeds 60 days from the foreseen delivery date. The delivery of the products can be made through partial consignments.

## 4) FORMS OF DISPATCH

The goods travel at the buyers risk and danger, whatever indications there are in the order confirmation. Whenever the transport should be provided by the buyer, the buyer is responsible for eventual consequences deriving from the delay in delivery caused by himself, compared to what Croci Italia Srl pre- advised in writing. Croci Italia Srl considers the contract resolved after 30 days from the foreseen date of delivery to the transporter. The goods are always considered delivered ex works Bertinoro if nothing else is specified and contained in the order confirmation.

## 5) RETENTION OF TITLE

The delivered goods remain our property until the entire payment of the same has been effected. Until then, the buyer is not authorised to pledge it or to give it as a security for a credit.

The buyer is obliged to take the best possible care of the conservation of the goods which is considered to be temporary deposited free of charge by himself and he is responsible for eventual theft or loss even if not caused by his fault.

## 6) CLAIM

Any single complaint regarding a single consignment does not influence the contract concerning the following deliveries. The buyer will examine and control the goods rapidly and carefully. Eventual claims regarding the quantity, the specimen or the type of the goods delivered must be denounced by the buyer immediately during the reception of the goods indicating the claim on the consignment bill as the transporter could be involved as far as responsibility is concerned. The buyer must in any case communicate the lack or non conformity to Croci Italia Srl by recommended letter within 8 days from the reception of the goods. Even if according to the buyer failures, defects or delays has occurred he has no right (not even in court) to suspend the payments, all in Croci Italia Srl's advantage according to article 1462, point 1 (Italian civil law).

## 7) AUTHORISATION RETURN OF GOODS

Return of goods without our anticipated written authorisation are not accepted. Even if authorised, the cost and risk of transport of returned goods shall always be on the buyers account.

## 8) TERMS OF PAYMENTS - NON FULFILMENT

The payment (to be effected by cash or banker's draft) is supposed to be at the delivery if nothing else is specified on the order confirmation and on the invoice. The payment by means of cheque without the anticipated authorisation of Croci Italia Srl is not accepted.

Payment of supplies must be made to our head office in Bertinoro. The debtor shall be responsible for the risk of transmission of the sums, whatever means chosen.

Charges concerning possible outstanding amounts should be paid by the customers. Interest on arrears at the six-monthly rate for financing (established by BCE) plus 7% shall be applied to delayed payments.

In case of deferred payment, previously agreed, the possible payment delay over 10 days, allows Croci Italia Srl to collect immediately the payment of the total amount of the order.

## 9) PACKAGING

Croci Italia Srl provides for packaging according to its own experience and habit, remaining expressly without any responsibility for any average or loss. Eventual special packaging requested by the buyer will be charged for.



**10) ILLUSTRATIONS, DATES AND WEIGHTS**

Croci Italia Srl reserves itself the right to make any opportune and convenient changes in the catalogue at any time. The illustrations, dates and weights in the present pricelist and in the catalogue are therefore not to be considered as binding but only indicative.

**11) WARRANTY**

The products of Croci are guaranteed for two years in accordance with the law under the following conditions:

- The warranty runs from the purchase date, certified by the commercial invoice or delivery document issued by Croci Italia Srl.
- The warranty refers only defects directly due to Croci.
- The warranty refers only to replacement of goods recognised by us as defected in the origin by production defects, any other additional cost is excluded.
- Eventual defects or not correct functions caused by a non correct use and/or by non correct mounting and/or installation and/or transport effected without necessary care are excluded from the warranty.
- Defects and not correct functions caused by a not correct maintenance are excluded.

**12) APPLICATION OF THE SALES CONDITIONS**

Croci Italia Srl and the buyer agree that the sales that will be stipulated between the two of them, with subject to products produced and commercialised by Croci Italia Srl, automatically will be regulated, in force of the signing of this agreement, by the norms contained in the general sales conditions here listed.

**13) COMPETENT AUTHORITY**

The competent authority for any controversy or divergent opinion that involves Croci Italia Srl, is the court of Forlì.



## TECHNIQUE TO STAND OUT

Leader in the field of security shutters, the company provides its partners with numerous resources to optimize the work and stand out on the market.

## LOCKING SYSTEMS THAT OPEN UP A WORLD FOR YOU OPPORTUNITY

With its exclusive and successful products, appreciated all over the world, Croci offers a heritage of high added value to your customers and your business.



CROCI Italia S.r.l.

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