

The most innovative sun protection  
and shielding system.

2022

EN



**new SOLAR®**  
International patent







---

**International patent**

The most important thing **Design** has always taught is the exploitation of **functionality combined with form**. Aesthetics and utility paired together to embellish, as in a **newSolar®**.

Designed to innovate, with its structural shape **newSolar®** represents the most modern concept of roller sunblind shutter available on the market.

Made in **aluminium**, it has a roller shutter curtain made up of **profiles** obtained through extrusion (a process that starting from the raw material allows obtaining products with a constant and robust section) and, above all, they can be **spaced from each other even at a different distance**, actually allowing what no other roller shutter has ever been able to do before: a visual relation between the inside and the outside of a room, adjusting the desired natural light and ventilation at your leisure.

The innovative **newSolar®** system offers in fact the possibility of customizing the distance between the slats within the same roller shutter curtain, and of modulating at your leisure the opening of the same slats to illuminate and/or ventilate an indoor environment: you can open only a few slats, half of them, or you can completely close them to get **windbreak** and **total darkness effects**.

But the spacing slats make **newSolar®** also a perfect sunblind, to limit glare and solar radiation, up to the possibility of **total shielding** that guarantees an optimal **thermal comfort** indoor.

Easy to install, its profiles are designed to provide lightweight and extreme resistance at the same time. It perfectly adapts to any type of room, frame, external environment or architectural style, it resists very well in different climatic conditions and, when completely closed, it also guarantees an **excellent sound insulation**.

Conceived as an innovative sunblind roller shutter and gradually improved in terms of functionality and form, today **newSolar®** represents a real "sun protection and shielding system" coming in a range of products with **Italian design and production**, provided with **certifications and European patent** and with the exclusive features of **great quality**, but above all of **extreme elegance** and **long service life**.



**newSOLAR®**

**International patent**



# THE FAMILY



## O1 STANDARD

**new Solar® standard,**  
**the most configurable**  
**sunblind roller shutter**  
**system.**

page 10



## O2 MINI

**new Solar® mini,**  
**the less bulky sunblind**  
**roller shutter system.**

page 12



## O3 ELEPHANT

**new Solar® elephant,**  
**the largest sunblind**  
**roller shutter system.**

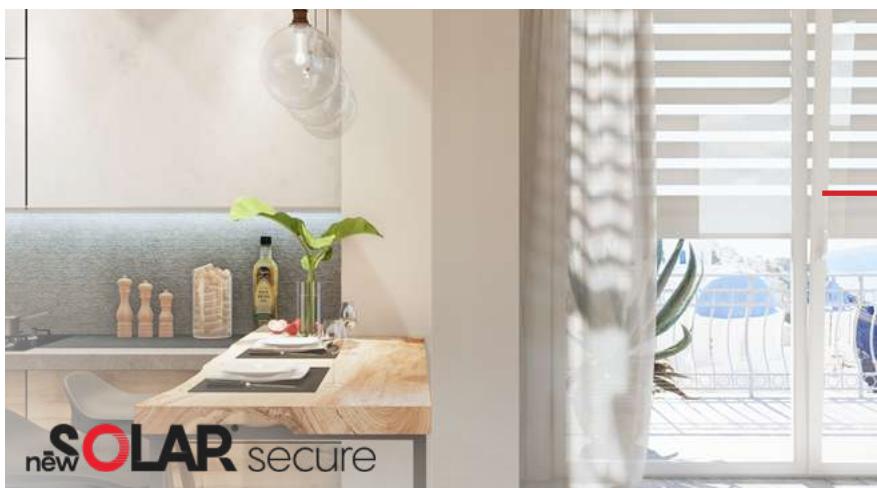
page 14



## O4 BICOLOR

**new Solar® bicolor,  
the two-color sunblind  
roller shutter that  
gives freedom to your  
furniture beyond the  
façade**

page 16



## O5 SECURE

**new Solar® secure,  
the safest sunblind  
roller shutter system.**

page 18

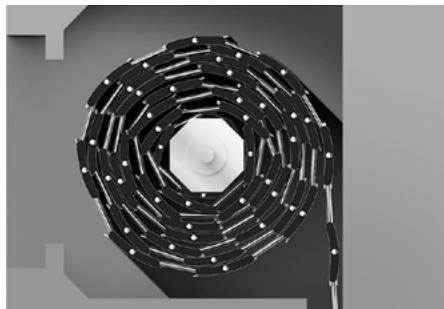


## O6 CERTIFICATIONS

page 30

# 01

**new**SOLAR® standard



## REDUCED DIMENSIONS

You will not have difficulty using it in the most common roller shutter boxes.



## LOCK ON TERMINAL

This newSolar® can be closed with a lock or latch on the end slat.



## INTERMEDIATE CLOSURES

It is possible to close this model of newSolar® with intermediate stops as well as on the terminal slat. The height is up to you.

# STANDARD

## The first new Solar®

**new Solar® standard, the most customizable sunblind roller shutter.**

**new Solar® standard** is the first model of the products in the most innovative range of **sunblind roller shutters** that allows you to adjust light, air and privacy, as you wish.

Studies and designs carried out for its realization made it the pre-eminent prototype of the design roller shutter that combines elegance, functionality and resistance, synthesizing in a single product the prerogatives of different solar shielding systems.

**new Solar® standard** allows you to choose the combination of light and shade you prefer by providing different solutions for light and shadow regulation in each environment, and various possibilities for **customizing** its features — it is therefore the **most customizable model of the entire range**.

Thanks to its design, it enhances the external architectural aspects of a building as well as the interior furnishings, each slat-profile is 6.6 cm high and the total width of its roller shutter curtain can reach up to 2.50 m.

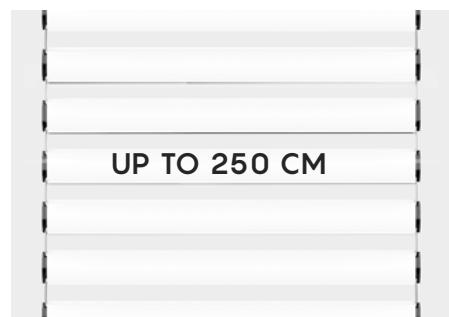
For the standard configuration of **new Solar®** you can choose between:

- different types of **rails** for the sliding of the roller shutter curtain;
- **up to 4 dimensions to space the slats** within the same roller shutter curtain;
- **16 standard or custom RAL colours**;
- **SILENT function** for maximum silence during opening-closing;

- **integrated locks** for intermediate and final closure;

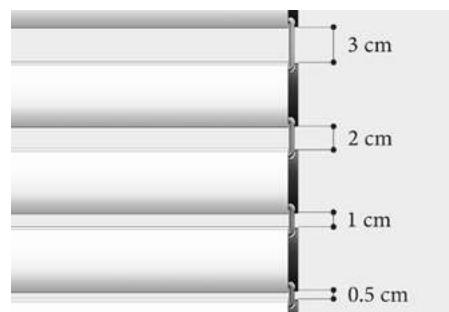
Structurally, it has minimum dimensions, so that it can be allocated in a regular 25 cm roller shutter box, but it can be adapted to any type of box and, thanks to the two side rails provided as standard, it is easy to install and does not require any specialized intervention.

Completely closed, **new Solar® standard** achieves **top class performance in terms of thermal and acoustic insulation**, significantly contributing to energy savings and making any living environment more comfortable.



## MAXIMUM DIMENSIONS

This **new Solar®** model is available with a maximum width of 250cm for a single roller shutter curtain.



## 4 DISTANCES

Maximum configuration. The roller shutter curtain of this **new Solar®** version can be ordered with 4 different spacers: from 3cm, 2cm, 1cm, up to 0.5cm. Several spacers on the same roller shutter curtain are also possible. Configuration to be communicated at the order placement.



## STANDARD SYSTEM

Patented movement that turns the **new Solar®** into a sunshade.

## SILENT SYSTEM

Patented movement that turns the **new Solar®** into a sunshade. Silent type.

# MINI

## la newSolar® with the smallest encumbrance

### Newsolar® mini, the smallest sunblind roller shutter

In the innovative range of sunblind roller shutter, newSolar® mini is the best answer to the needs of reduced spaces inside windows and/or French windows to darken the environments. The technical design carried out on this model created a new form of compatibility between design, newSolar® functionalities and reduced spaces for its allocation, that can be found both during renovation of existing buildings and in new buildings. Just like any other model of the range, newSolar® mini is a high quality and resistance extruded aluminium sunblind roller shutter that allows you to choose the combination of light and shade you prefer adjusting at the same time the ventilation and privacy of the environments.

Its reduced dimensions and accessories allow you to choose a single dimension to space out the slats from each other within the same roller shutter curtain, in order to enhance their functionality without limiting its solar shielding function, its beauty, its resistance to atmospheric agents and its high performances in terms of thermal and acoustic insulation.

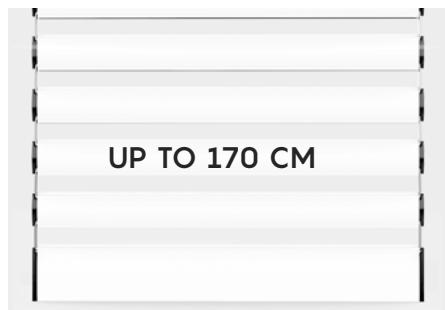
The minimal design of newSolar® mini matches with any architectural style of a building, a single slat-profile is 4.7 cm high and the total width of one of its roller shutter curtain can reach up to 1.70 m for a maximum height of 4.00 m.

For the configuration of newSolar® mini you can choose between:

- different types of rails for the sliding of the roller shutter curtain;
- 16 standard or custom RAL colours;
- manual movement with belt or motorized automation;

Its roller shutter curtain, with a 1.00 m high clear opening, can even be placed in a 14 cm roller shutter box, and it is supplied with two basic side rails; its installation is particularly simple.

Renovation of existing windows, new constructions with reduced wall thickness ... any space can accommodate the operational features of newSolar® mini and enhance the quality and elegance of furnishings and architecture.



#### MAXIMUM DIMENSIONS

Ce modèle newSolar® est disponible avec une largeur maximale de 170 cm pour une seule toile.



#### VERY REDUCED DIMENSIONS

The newSolar® with the smallest overall dimensions of all models. Also for external boxes.



#### LOCK ON THE FINAL PART

This newSolar® can be locked or bolted on the terminal slat.

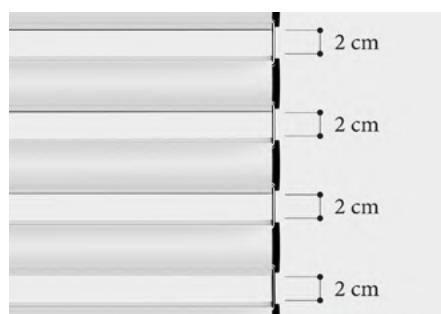
O2

**SOLAR® mini**  
new



#### STANDARD SYSTEM

Patented movement that turns the new Solar® into a sunshade.

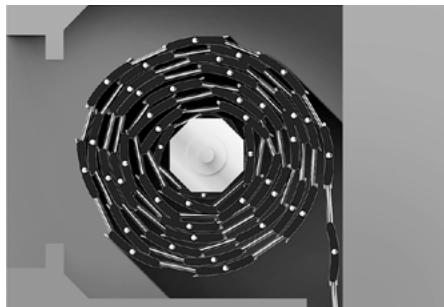


#### SINGLE DISTANCE

The roller shutter curtain of this new Solar can be ordered with a single 2 cm spacer. In perfect harmony with the size of the slats.

# O3

**new**SOLAR® elephant



## REDUCED DIMENSIONS

You will not have difficulty using it in the most common roller shutter boxes.



## LOCK ON TERMINAL SLAT

This model of newSolar® can only be closed with catch on the terminal slat.



## ELEPHANT SYSTEM

This newSolar® has a wind sealing system of the slats that allows installations with widths up to 6 meters. You will shield each of your windows.

# ELEPHANT

la new Solar® for large sizes

new Solar® elephant, the biggest sunblind roller shutter.



"What finally is beauty? Certainly nothing that can be calculated or measured."

New Solar® elephant, the largest in the most innovative range of sunblind roller shutters, was created following this belief by Ludwig Mies van der Rohe, one of the leading architect-designers founder of the "Modern Movement".

Enhancing geometry, proportional and modular theories, the weight constraints of the materials it is composed by, and finally the issues related to view and perception, we designed the only aluminium roller shutter that can reach up to 6.00 m width, consisting of great quality and strong slat-profiles with constant

**UP TO 6 METERS**

section, which do not need to be supported through columns.

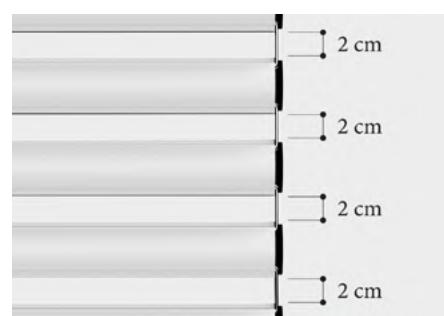
But, above all, New Solar® elephant is able to keep all the functional features of its roller shutter curtain and slat-profiles, each 6.6 cm high in sturdy extruded aluminium, which can be adjusted to illuminate, shade the sun or ventilate the environments, choosing the personalization more suited to your needs.

For the configuration of New Solar® elephant you can choose between:

- different types of rails for the sliding of the roller shutter curtain;
- unique dimension to space the slats within the same roller shutter curtain;
- 16 standard or custom RAL colours;
- integrated lock for final closure;

Compatible with any types of large windows, its dimension can be adapted to any type of box, installation is easy and facilitated through to the two included side rails; the operating mechanism is silent.

Thanks to its big dimensions New Solar® elephant is able to enhance the charm and design of openings with large windows, expressing the global concept of modern architecture that combines in a single product energy-saving functions, solar shielding, noise protection, elegance and design.



## STANDARD SYSTEM

Patented movement that transforms the new Solar® into a sunshade. The new Solar® Elephant is equipped with a Silent system as standard.

## SINGLE DISTANCE

The roller shutter curtain of this new Solar can be ordered with a single 2 cm spacer. In perfect harmony with the size of the slats.

# BICOLOR

la newSolar® with double color inside/outside

Newsolar® biColor follows your furniture beyond the facade



**newSolar® bicolor** is the first sunblind roller shutter model in the history of systems with extruded aluminum spacers to have a double façade with a different color.

For the first time, an extruded aluminum slat has a color to respect the external façade architecture and a color to respects the interior furnishings.

The newSolar tradition is improved by the screening ability of sunshades completely integrated into the window. The most innovative and imitated sunshade that allows you to adjust light, air and privacy, as you wish. In fact, it allows to choose the combination of light and shadow you prefer, providing different solutions for adjusting the brightness or darkening any environment. Now, however, customization is enhanced by different combinations of light and shading - today you have the freedom to choose a different color for the inside of your home and the exterior of your façade.

For the configuration of newSolar® bicolor it is possible to choose between:

- different types of rails within which to slide the roller shutter curtain;
- Up to 3 measures to space the slats from each other within the same roller shutter curtain;
- wide palette of colors;

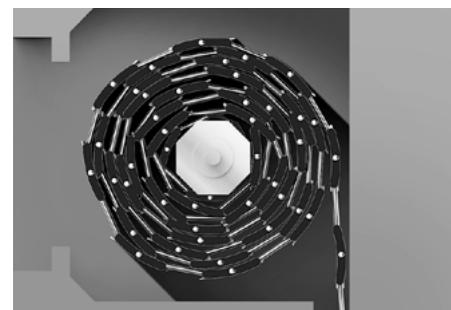
Structurally, it has a minimal dimension, so that it can be placed in a regular 25 cm roller shutters box, but it can be adapted to any type of box and,

thanks to the two side rails supplied as standard, its assembly is very simple. Completely closed, **newSolar® bicolor** achieves top class performance in terms of thermal and acoustic insulation, significantly contributing to energy savings and making any living environment more comfortable.



## BICOLOR

Freedom to have the color inside the window matching with your design, while the color for the outside respects the architecture of your façade.



## REDUCED DIMENSIONS

You will not have difficulty using it in the most common roller shutter boxes.

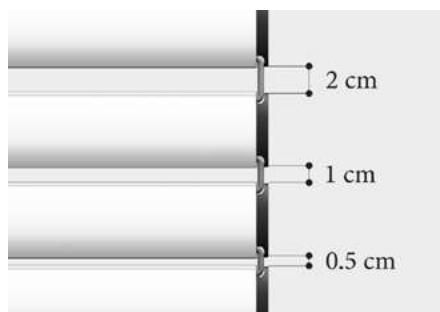
O4

new **SOLAR**<sup>®</sup> bicolor



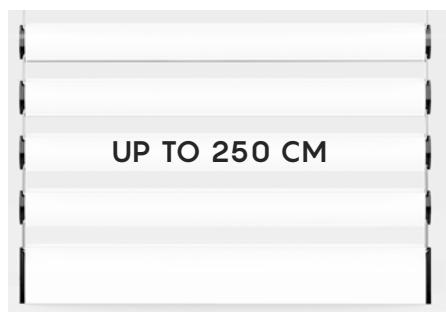
#### STANDARD SYSTEM

Patented movement that turns the new Solar<sup>®</sup> into a sunshade.



#### 3 DISTANCES

Maximum configuration. The roller shutter curtain of this new Solar<sup>®</sup> version can be ordered with 3 different spacers: 2cm, 1cm, up to 0,5 cm. Even more spacers on the same roller shutter curtain. Configuration to be communicated at the order placement.



#### MAXIMUM DIMENSIONS

This new Solar<sup>®</sup> model is available with a maximum width of 250cm for a single roller shutter curtain.

O5

**new**SOLAR<sup>®</sup> secure



# **SECURE**

## **Ia new Solar® for safety**

### **Newsolar® secure, the safest roller shutters sunshade.**

Safety has always been an essential aspect of human life, a fundamental value that does not accept any compromises. Starting from this shared vision, we used all our know-how to widen the most innovative range of sunblind roller shutters with the most **performing and surprising model in terms of safety - newSolar® secure**.

Besides being an innovative sunblind roller shutter that **allows you to customize the desired combination of light and shade**, the new **newSolar® secure** is above all a real **safety barrier** with **profiles that can be spaced out**, made of extremely resistant aluminium, and that can include the **innovative safety features** we designed, the ones that enabled us to achieve the prestigious **3-4 class anti-burglary certifications** issued by the Giordano Institute and **class 2-3** issued by IRCCOS Institute.

**newSolar® secure** is a real "safety system" which consists of **3 different product versions**, each with a burglar-proof certificate in a different class, that guarantee **maximum protection** for **windows and French windows** in any building.

The **slat profiles**, of different weight according to the product certification class, are **6.6 cm high** and are strengthened through **manganese steel bars with anti-cut treatment**. The set of all the functional accessories it includes, from the provided **rails** to the **anti-burglary rostrums** and the **anti-lifting mechanism**, guarantees an unrivalled **extreme efficiency**.

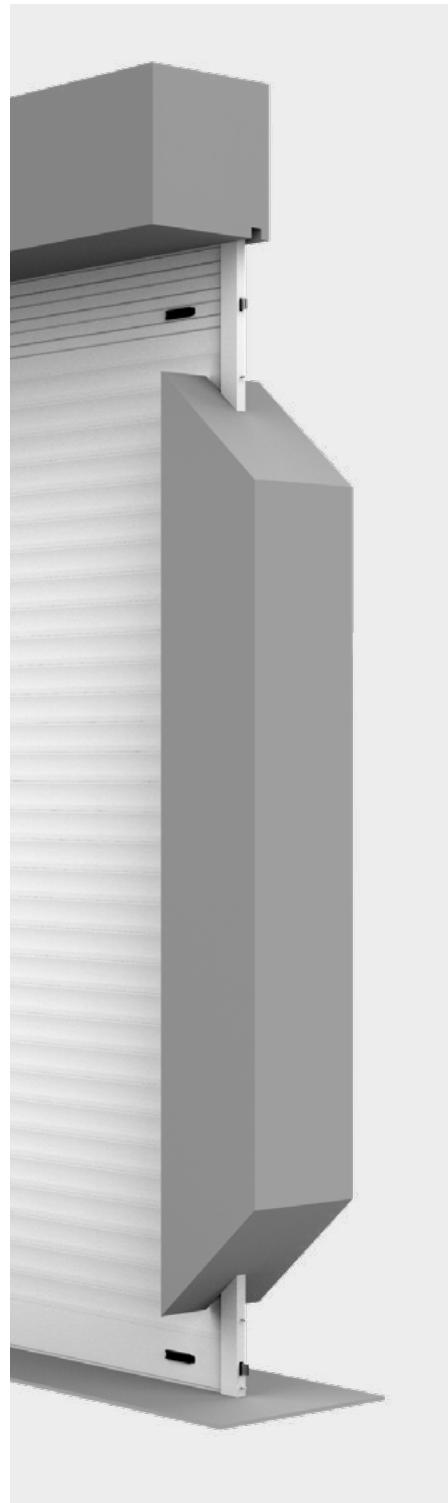
For the configuration of **newSolar® secure** you can choose between:

- **4 product versions**, of which 2 certified in **class 2** and other 2 in **class 3 or 4**;
- **up to 4 dimensions to space out the slats** within the same roller shutter curtain;
- **16 standard or custom RAL colours**;
- **integrated lock** for upper and final closure;

Easy to install, **newSolar® secure** expresses its full potential and functionality **only with all the provided components**.

A high-quality Italian product, patented and certified, it offers an excellent mix of **functional performances and enhancement** of architectural designs,

ensuring **safety and protection to precious properties and dear ones**.

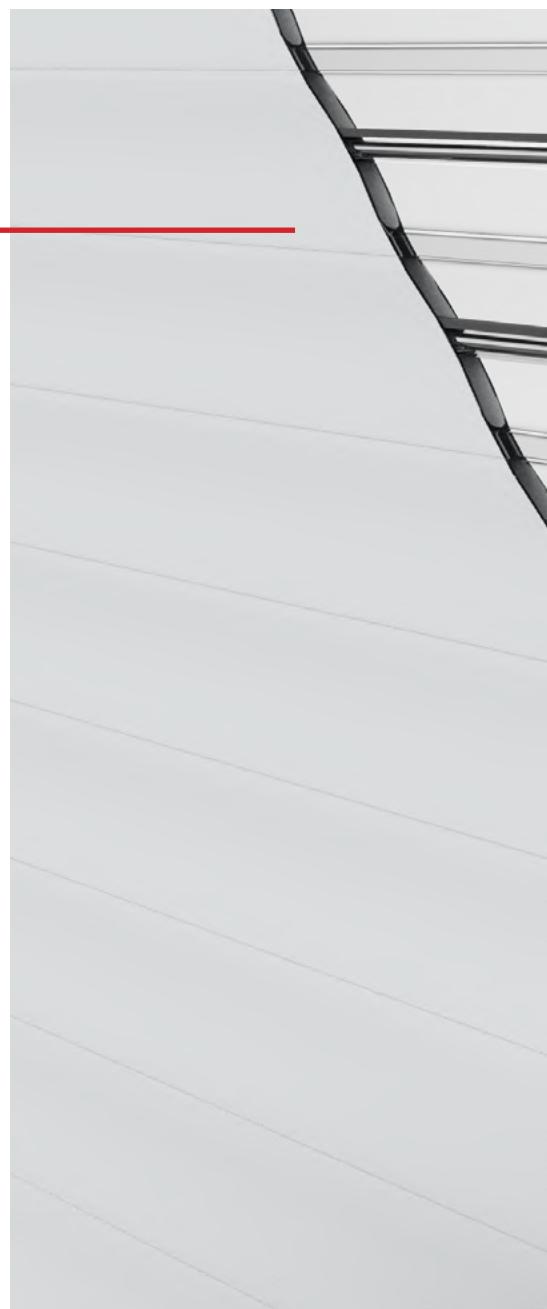


# **SECURE 4**

## **la newSolar® for safety** **Class 4 anti-burglary system**

Anti-burglary system consisting of a tear-proof round steel profile, manganese steel bar with anti-cut treatment and external rostrum rail, which slides into the safety rail. Repeated system for each slat.

### **Upper anti-lifting stop**

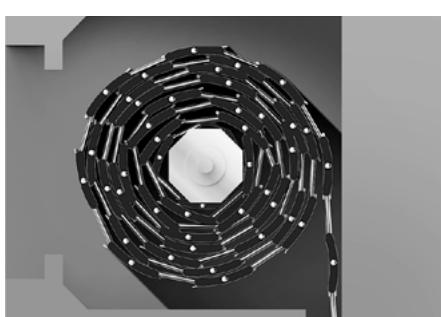


### **Lower anti-lifting stop**



### **MAXIMUM DIMENSIONS**

This newSolar® model is available with a maximum width of 250cm for a single roller shutter curtain.



### **REDUCED DIMENSIONS**

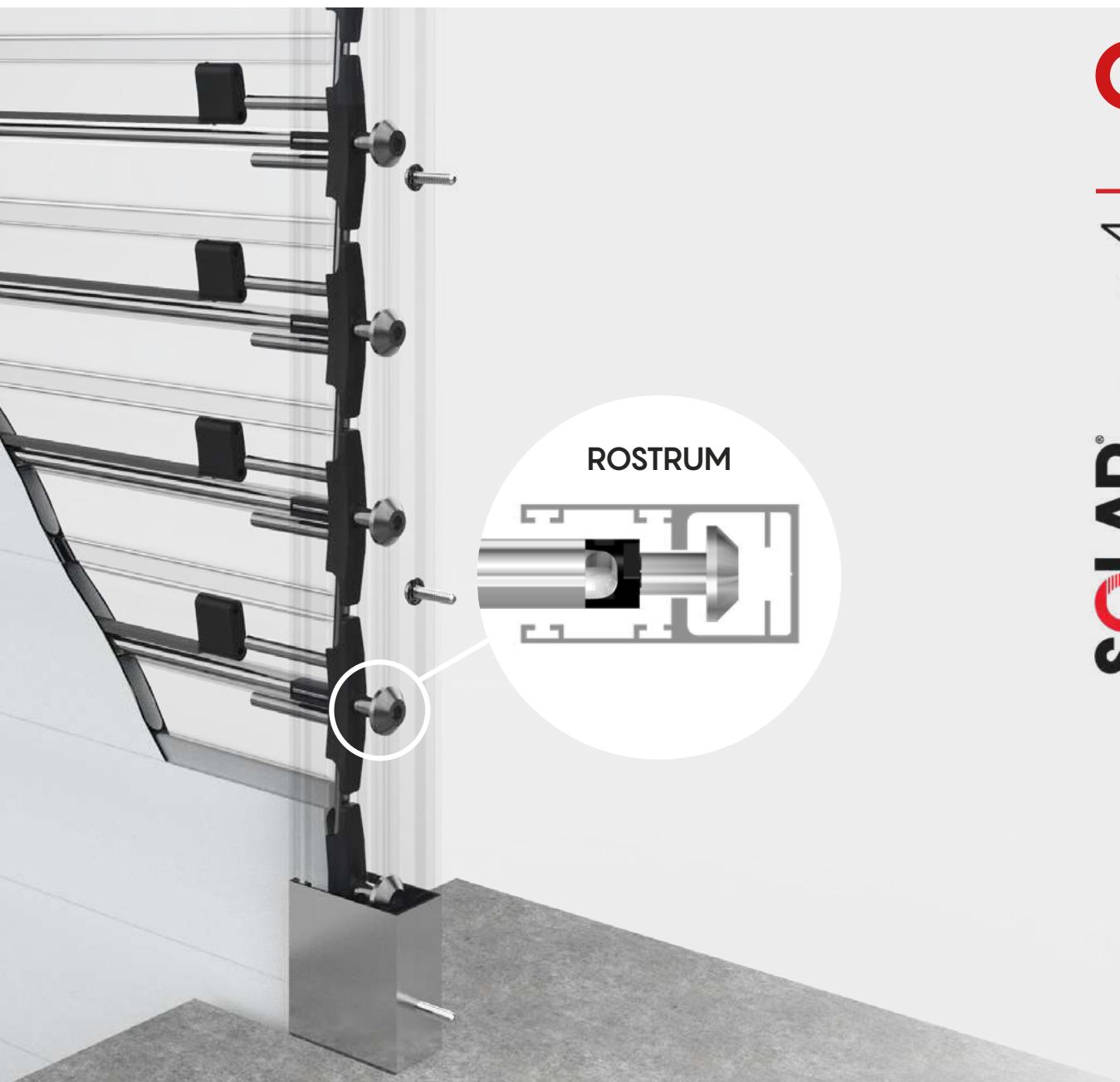
You will not have difficulty using it in the most common roller shutter boxes.

### **STANDARD SYSTEM**

Patented movement that turns the newSolar® into a sunshade.

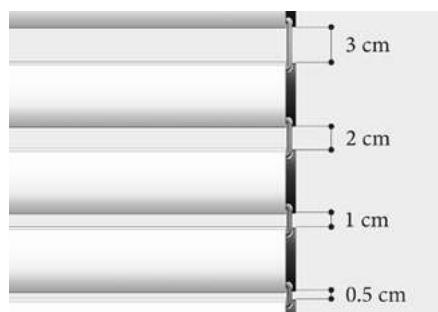
# O5

**newSOLAR®** secure4



## SILENT SYSTEM

Patented movement that turns the newSolar® into a sunshade. Silent type.



## 4 DISTANCES

Maximum configuration.  
The roller shutter curtain of this newSolar® version can be ordered with 4 different spacers: from 3cm, 2cm, 1cm, up to 0.5cm. Even more spacers on the same roller shutter curtain. Configuration to be communicated at the order placement.

Test effettuati presso i laboratori

**ISTITUTO  
GIORDANO**  
Qualità al Plurale.

Test eseguiti in enti tecnici  
all'avanguardia.

# O5

**newSOLAR®** Secure3

UP TO 250 CM

#### MAXIMUM DIMENSIONS

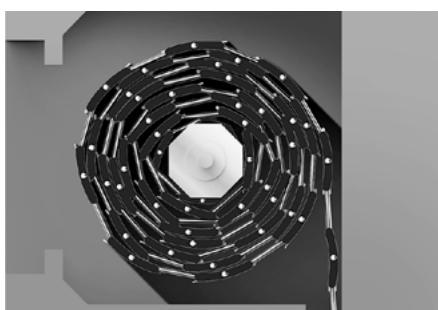
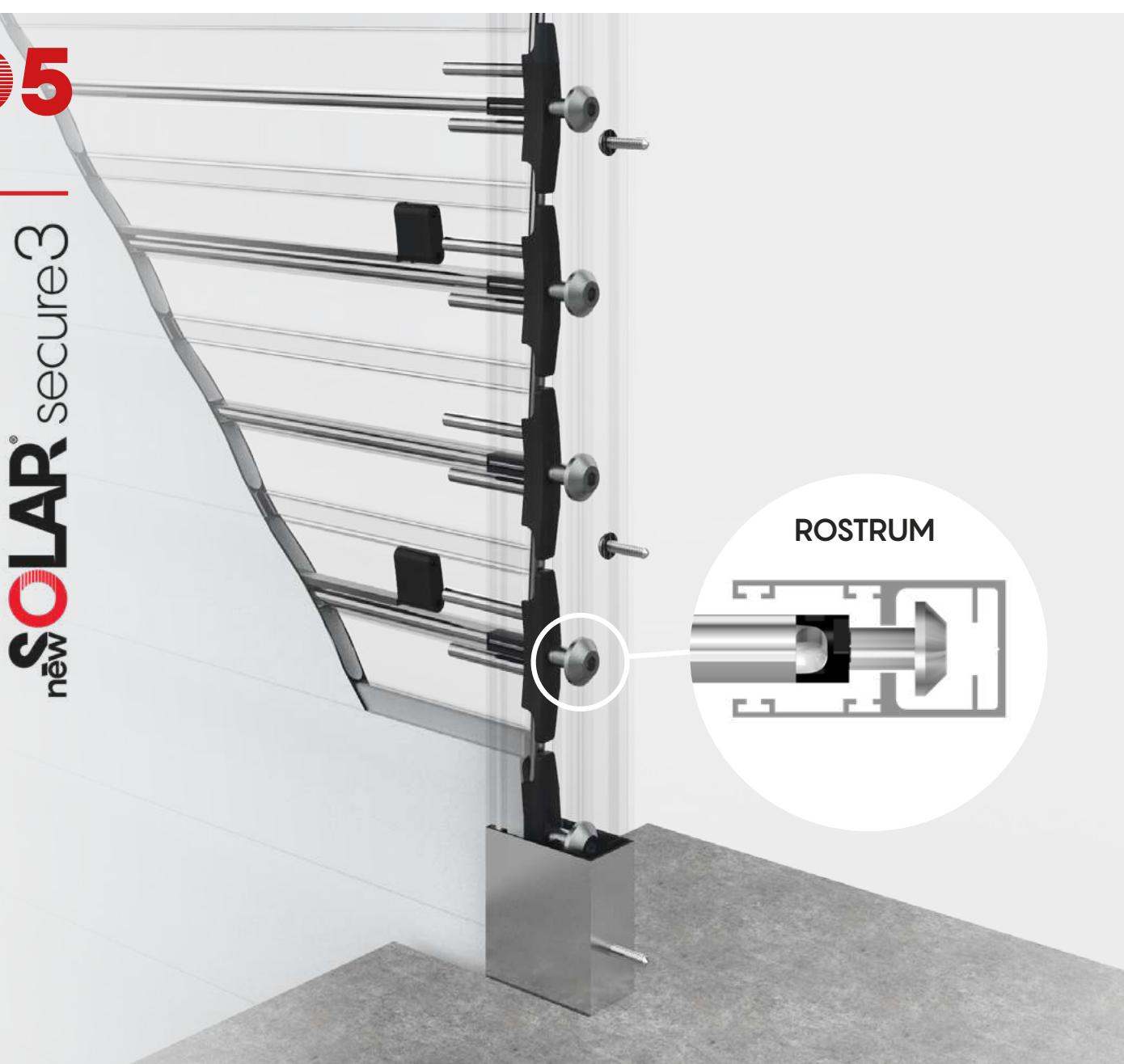
This newSolar® model is available with a maximum width of 250cm for a single roller shutter curtain.

#### REDUCED DIMENSIONS

You will not have difficulty using it in the most common roller shutter boxes.

#### STANDARD SYSTEM

Patented movement that turns the newSolar® into a sunshade.



# **SECURE 3**

## **la new Solar® for safety**

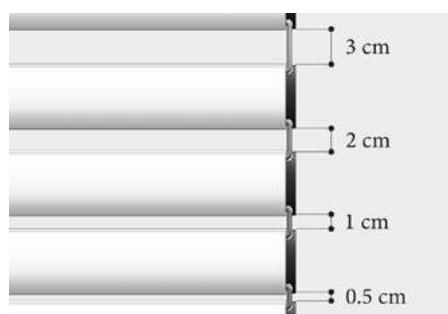
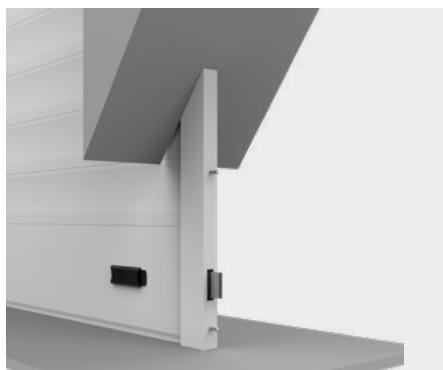
### **Class 3 anti-burglary system**

Anti-burglary system consisting of a tear-proof round steel profile, manganese steel bar with anti-cut treatment and external rostrum rail, which slides into the safety rail. Repeated system on alternating slats.  
Rostrum on each slat.

#### **Upper anti-lifting stop**



#### **Lower anti-lifting stop**



#### **SILENT SYSTEM**

Patented movement that turns the new Solar® into a sunshade. Silent type.

#### **4 DISTANCES**

Maximum configuration.  
The roller shutter curtain of this new Solar® version can be ordered with 4 different spacers: from 3cm, 2cm, 1cm, up to 0.5cm. Even more spacers on the same roller shutter curtain. Configuration to be communicated at the order placement.

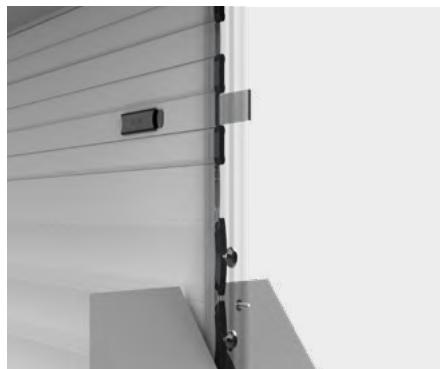
Test eseguiti in enti tecnici all'avanguardia.

Test effettuati presso i laboratori  
**ISTITUTO  
GIORDANO**  
Qualità al Plurale.

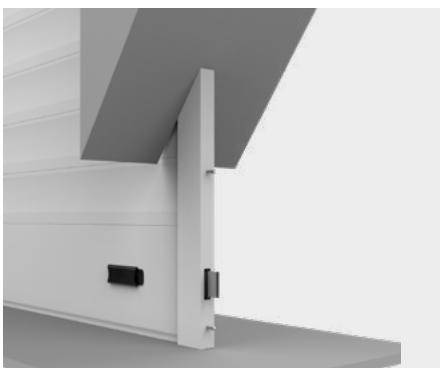
# **SECURE 3IR**

**la new Solar® for safety**  
**Class 3IR anti-burglary system**

## **Upper anti-lifting stop**



## **Lower anti-lifting stop**



**UP TO 250 CM**

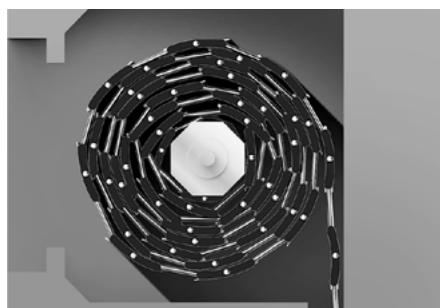


## **MAXIMUM DIMENSIONS**

This newSolar® model is available with a maximum width of 250cm for a single roller shutter curtain.

## **REDUCED DIMENSIONS**

You will not have difficulty using it in the most common roller shutter boxes.



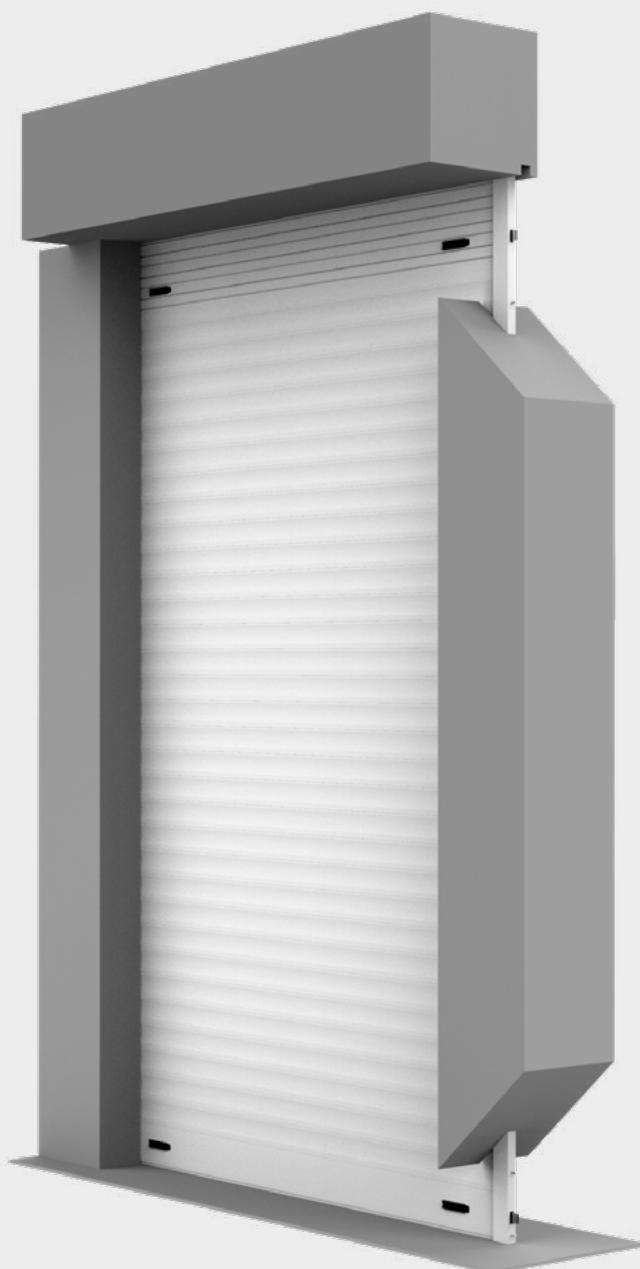
## **STANDARD SYSTEM**

Patented movement that turns the newSolar® into a sunshade.



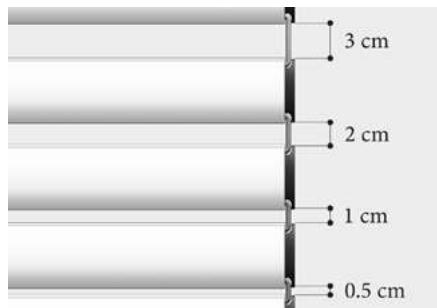
O5

new **SOLAR**®<sub>secure</sub> 3IR



#### SILENT SYSTEM

Patented movement that turns the newSolar® into a sunshade. Silent type.



#### 4 DISTANCES

Maximum configuration. The roller shutter curtain of this newSolar® version can be ordered with 4 different spacers: from 3cm, 2cm, 1cm, up to 0.5cm. Even more spacers on the same roller shutter curtain. Configuration to be communicated at the order placement.

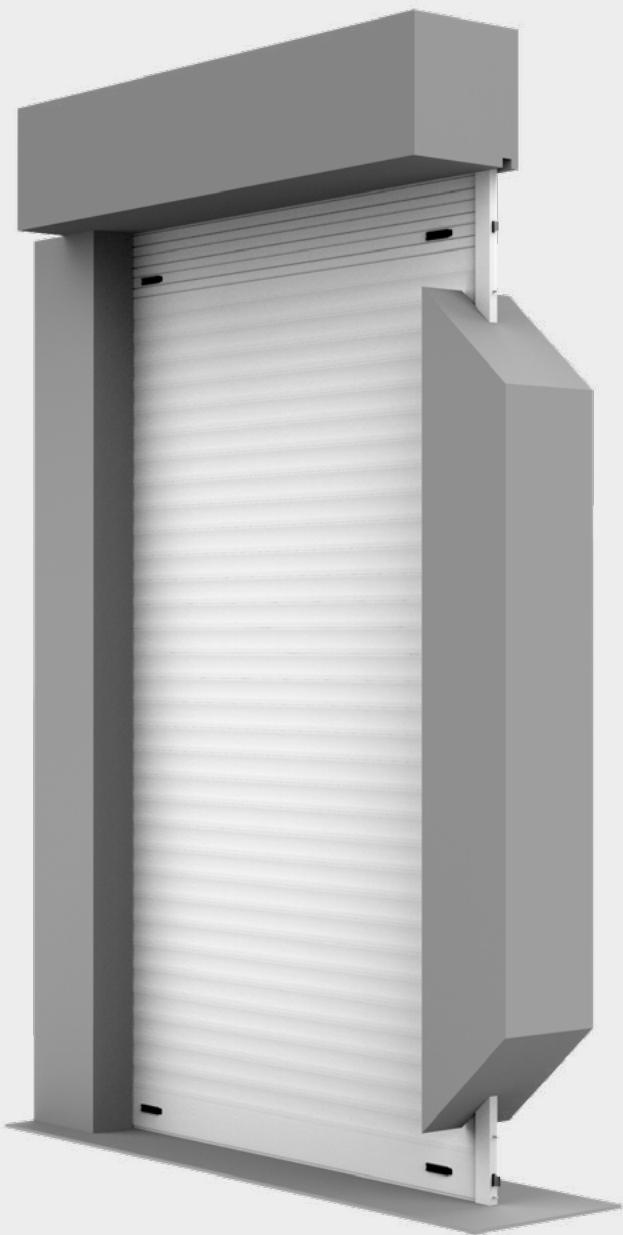
Test effettuati presso i laboratori



Test eseguiti in enti tecnici all'avanguardia.

# O5

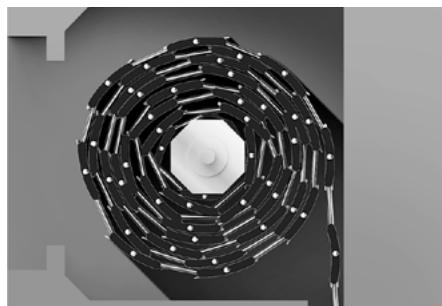
**new**SOLAR® Secure2



UP TO 250 CM

## MAXIMUM DIMENSIONS

This newSolar® model is available with a maximum width of 250cm for a single roller shutter curtain.



## REDUCED DIMENSIONS

You will not have difficulty using it in the most common roller shutter boxes.



## STANDARD SYSTEM

Patented movement that turns the newSolar® into a sunshade.

# **SECURE 2**

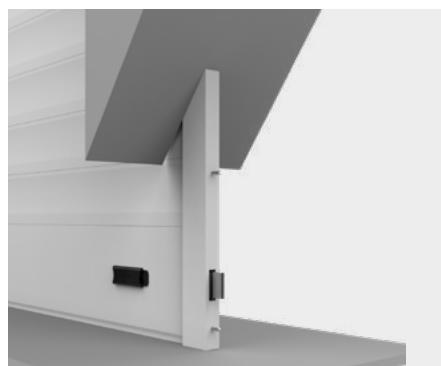
## la new Solar® for safety

### Class 2 anti-burglary system

#### Upper anti-lifting stop

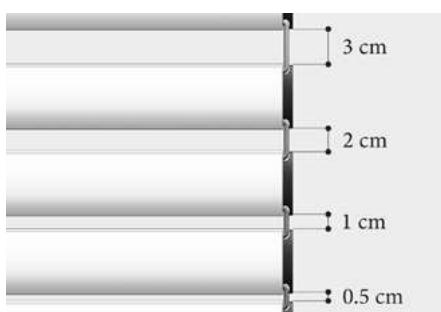


#### Lower anti-lifting stop



#### SILENT SYSTEM

Patented movement that turns the new Solar® into a sunshade. Silent type.



#### 4 DISTANCES

Maximum configuration. The roller shutter curtain of this new Solar® version can be ordered with 4 different spacers: from 3cm, 2cm, 1cm, up to 0.5cm. Even more spacers on the same roller shutter curtain. Configuration to be communicated at the order placement.



Test effettuati presso i laboratori



Test eseguiti in enti tecnici all'avanguardia.

# WAYS OF OPENING

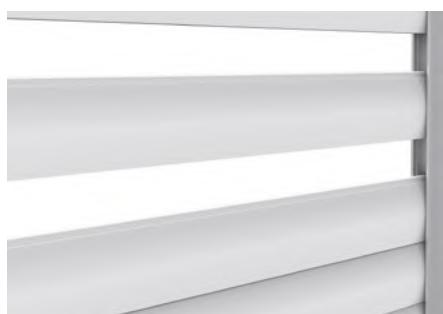
## Easy to clean

Thanks to the position of distance slats cleanliness has never been so simple.



### CLOSED MODALITY

New Solar darkens the space at 100%.



### HALF-OPEN MODALITY

In this condition, the system allows to choose the light and air's quantity you prefer in the space where you are.



### "NEWSOLAR®" MODALITY

In this case, the system behaves as a solar shading. It filters the long ultraviolet ray that is responsible for the temperature's increase in the indoor spaces and protects your privacy.

# COLOR PALETTE

---

## Ral



**WHITE**  
Textured Matt  
9010 GR



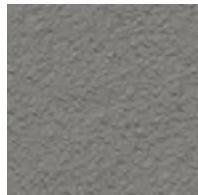
**IVORY**  
Textured Matt  
1013 GR



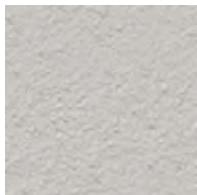
**BROWN**  
Textured Matt  
F206



**MOSS GREEN**  
Textured Matt  
F222



**DARK GRAY**  
Textured Matt  
7001 GR

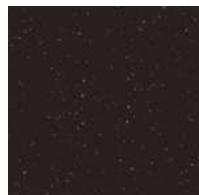


**LIGHT GRAY**  
Textured Matt  
7035 GR

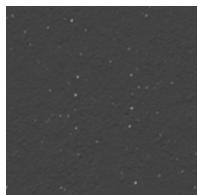
## Dotted



**WHITE**  
Textured Antique  
F111

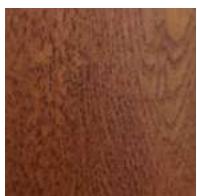


**MARBLE BROWN**  
Textured Antique  
F115



**MARBLE GRAY**  
Textured Antique  
F112

## Wood effect



**RENOGIT**  
Textured Clear  
PVC800



**RENOGIT**  
Textured Dark  
801



**WALNUT**  
Textured Medium  
S161



**GRAY WHITE**  
Textured Veined  
IC201



**BEIGE WHITE**  
Textured Veined  
IC200



**TITUTO  
GIORDANO**

RAPPORTO DI PROVA N. 368951

0511 343010 - Fax +39 051 310540  
Sede legale: Via Achille Grandi 17 - 21017 Samarate (VA) - Sede Operativa: Via Calabria 4 - 21012 Cassano Magnago (VA)  
Unità operativa secondaria: Via dell'Industria 6 - 21017 Ossiano ZL (BR)  
Tel. 0331.594628 - www.accredia.com - Cap. Soc. €89.220,00

zazione  
ico  
effrazione)  
NI EN 1628:2016



LAB N° 0971 L

Commissione:  
77/84  
Procedenza dell'ingegnere:  
Caratterizzante e fornito dal Cliente  
Identificazione dell'oggetto in accertamento:  
2019/0372/IRCCOS 1 febbraio 2019  
Data dell'attestato:  
3 febbraio 2019  
Luogo dell'attestato:  
Strada Erosz. Unit. 72 -  
VIA'S Casella (PC) Italia  
Pagina 1 di 9

Indice

Uverificare nell'attestato:  
Referimenti normativi:  
Applicazioni:  
Spese:  
Condizioni ambientali:  
Risultati:  
Conclusions

Il presente documento è composto da n. 9 pagine e non può essere riconosciuto parzialmente, estragendo una parte di esso, se desiderato dal cliente, così il richiedente favorire una interpretazione errata dell'attestato, fatto salvo quanto definito n. 1 risultato di riferimento sulla "Uverificare le esigenze, così come redatto, e soprattutto non negare l'attestato in vita effettiva".  
L'aggiunta, nel presente documento, è costituita da un documento informativo redatto digitalmente ai sensi della legislazione italiana applicabile.

Responsabile Tecnico di Prova:  
Giovanni Antonio Pinto  
Responsabile del Laboratorio di Security and Safety:  
Dott. Andrea Riva  
Controllatore: Paolo Brivio  
Revisore Geom.: Roberto Pinto  
Pagina 1 di 9

Certificato Punto di V. 00 349 540 409  
Capitale Inciso € 150.000 i.v.  
REA. n° CCIAA. (NA) 150741  
Registrazione della Posta Italiana - Poste Cassa e Penit. n. 00 549 540 409

0511 343010 - Fax +39 051 310540  
Sede legale: Via Achille Grandi 17 - 21017 Samarate (VA) - Sede Operativa: Via Calabria 4 - 21012 Cassano Magnago (VA)  
Unità operativa secondaria: Via dell'Industria 6 - 21017 Ossiano ZL (BR)  
Tel. 0331.594628 - www.accredia.com - Cap. Soc. €89.220,00

Il Rapporto è composto da n. 10 pagine e può essere riprodotto solo integralmente.  
I risultati ottenuti si riferiscono unicamente ai campioni sottoposti a prova

Sede legale: Via Achille Grandi 17 - 21017 Samarate (VA) - Sede Operativa: Via Calabria 4 - 21012 Cassano Magnago (VA)  
Unità operativa secondaria: Via dell'Industria 6 - 21017 Ossiano ZL (BR)  
Tel. 0331.594628 - www.accredia.com - Cap. Soc. €89.220,00

Sede legale: Via Achille Grandi 17 - 21017 Samarate (VA) - Sede Operativa: Via Calabria 4 - 21012 Cassano Magnago (VA)  
Unità operativa secondaria: Via dell'Industria 6 - 21017 Ossiano ZL (BR)  
Tel. 0331.594628 - www.accredia.com - Cap. Soc. €89.220,00



Istituto di Ricerca e Certificazione per le Costruzioni Sostenibili  
Organismo Notificato n. 1994 ai sensi del Regolamento CPR (UE) n. 305/2011

## RAPPORTO DI PROVA

N. 0376/RP/2021

27 Gennaio 2021

Richiedente  
Tenda Sistem S.r.l.  
Via Giorgio Almirante, 15/17  
70025 Grumo Appula (BA)

Campione sottoposto a prova  
Tapparella con fasce distanziali  
commercialmente denominata "NEWSOLAR MINI"  
(cfr. descrizione)

Prove eseguite  
Resistenza al carico del vento

Riferimenti normativi  
UNI EN 13659:2015  
UNI EN 1932:2013

Il Rapporto è composto da n. 18 pagine e può essere riprodotto solo integralmente.  
I risultati ottenuti si riferiscono unicamente ai campioni sottoposti a prova

Sede legale: Via Achille Grandi 17 - 21017 Samarate (VA) - Sede Operativa: Via Calabria 4 - 21012 Cassano Magnago (VA)  
Unità operativa secondaria: Via dell'Industria 6 - 21017 Ossiano ZL (BR)  
Tel. 0331.594628 - www.accredia.com - Cap. Soc. €89.220,00

resistenza V 10077-2



**G ISTITUTO  
GIORDANO**  
BEYOND CERTIFICATION

RAPPORTO DI PROVA N. 379653

Cliente  
**TENDA SISTEM S.R.L.**  
Via Giorgio Almirante, 15/17 - 70025 GRUMO APPULA (BA) - Italia  
Objetto\*  
avvolgibili in alluminio denominati "newsolar Mini",  
"newsolar Standard", "newsolar Secure" e "newsolar Elephant"  
Attività  
dinamica di chiusura oscurante secondo le norme EN  
EN 13125:2003 (prova non accreditata)

## RAPPORTO DI PROVA N. 368951

Cliente

**TENDA SISTEM S.r.l.**

Via Giorgio Almirante, 15/17 - 70025 GRUMO APPULA (BA) - Italia

Oggetto\*

**tapparelle denominate**

Standard - secure 3 dis. 3cm Bianco	Secure 2 - secure 4 dis. 1cm Bianco
Standard - secure 3 dis. 3cm Marrone	Secure 2 - secure 4 dis. 1cm Marrone
Standard - secure 3 dis. 2cm Bianco	Secure 2 - secure 4 dis. 0,5cm Bianco
Standard - secure 3 dis. 2cm Marrone	Secure 2 - secure 4 dis. 0,5cm Marrone
Standard - secure 3 dis. 1cm Bianco	Elephant dis. 2cm Bianco
Standard - secure 3 dis. 1cm Marrone	Elephant dis. 2cm Marrone
Standard - secure 3 dis. 0,5cm Bianco	Elephant dis. 1cm Bianco
Standard - secure 3 dis. 0,5cm Marrone	Elephant dis. 1cm Marrone
Secure 2 - secure 4 dis. 3cm Bianco	Elephant dis. 0,5cm Bianco
Secure 2 - secure 4 dis. 3cm Marrone	Elephant dis. 0,5cm Marrone
Secure 2 - secure 4 dis. 2cm Bianco	Mini dis. 2cm Bianco
Secure 2 - secure 4 dis. 2cm Marrone	Mini dis. 2cm Marrone

Attività



**determinazione delle caratteristiche di comfort termico e visivo secondo la norma UNI EN 14501:2006**

(\*) secondo le dichiarazioni del cliente.

Bellaria-Igea Marina - Italia, 30 gennaio 2020

L'Amministratore Delegato  
(Dott. Arch. Sara Lorenza Giordano)



Firmato digitalmente da SARA LORENZA GIORDANO

Il presente documento è composto da n. 23 pagine e non può essere riprodotto parzialmente, estrapolando parti di interesse a discrezione del cliente, con il rischio di favorire una interpretazione non corretta dei risultati, fatto salvo quanto definito a livello contrattuale.

I risultati si riferiscono solo all'oggetto in esame, così come ricevuto, e sono validi solo nelle condizioni in cui l'attività è stata effettuata.

L'originale del presente documento è costituito da un documento informatico firmato digitalmente ai sensi della Legislaione Italiana applicabile.

Responsabile Tecnico di Prova:

Dott. Andrea Cucchi

Responsabile del Laboratorio di Ottica:

Dott. Daniele Zecca

Compilatore: Agostino Vasini

Revisore: Dott. Andrea Cucchi

Pagina 1 di 23

**Istituto Giordano S.p.A.**  
Via Gioacchino Rossini, 2  
47814 Bellaria-Igea Marina (RN) - Italia

Tel. +39 0541 343030 - Fax +39 0541 345540  
www.giordano.it  
istitutogiordano@giordano.it  
PEC: ist-giordano@legalmail.it

Codice fiscale/Partita IVA: 00 549 540 409  
Capitale sociale € 1.500.000 i.v.  
R.E.A. c/o C.C.I.A.A. (RN) 156766  
Registro Imprese della Romagna - Forlì-Cesena e Rimini n. 00 549 540 409

## RAPPORTO DI PROVA N. 379653

Cliente

**TENDA SISTEM S.r.l.**

Via Giorgio Almirante, 15/17 - 70025 GRUMO APPULA (BA) - Italia

Oggetto\*

avvolgibili in alluminio denominati "newSolar Mini",  
 "newSolar Standard", "newSolar Secure" e "newSolar Elephant"

Attività



resistenza termica di chiusura oscurante secondo le norme EN ISO  
 10077-2:2017 e UNI EN 13125:2003 (prova non accreditata da  
 ACCREDIA)

Risultati

Denominazione oggetto	Nome commerciale	Resistenza termica intrinseca "R <sub>sh</sub> " [m <sup>2</sup> · K/W]
newSolar Mini	newSolar Mini	0,0
newSolar Standard	newSolar Standard newSolar Secure 3 newSolar Secure 3 IR	0,0
newSolar Elephant	newSolar Elephant	0,0
newSolar Secure	newSolar Secure 2 newSolar Secure 4	0,0
Denominazione oggetto (nome commerciale)	Permeabilità all'aria della chiusura	Resistenza termica addizionale "ΔR" [m <sup>2</sup> · K/W]
newSolar Mini (newSolar Mini)	molto elevata	0,08
	elevata	0,09
	media	0,11
	bassa	0,14
	molto bassa (a tenuta)	0,17
newSolar Standard (newSolar Standard newSolar Secure 3 newSolar Secure 3 IR)	molto elevata	0,08
	elevata	0,09
	media	0,11
	bassa	0,14
	molto bassa (a tenuta)	0,17
newSolar Elephant (newSolar Elephant)	molto elevata	0,08
	elevata	0,09
	media	0,11
	bassa	0,14
	molto bassa (a tenuta)	0,17
newSolar Secure (newSolar Secure 2 newSolar Secure 4)	molto elevata	0,08
	elevata	0,09
	media	0,11
	bassa	0,14
	molto bassa (a tenuta)	0,17

(\*) secondo le dichiarazioni del cliente.

Bellaria-Igea Marina - Italia, 10 febbraio 2021

L'Amministratore Delegato  
(Dott. Arch. Sara Lorenza Giordano)
  
 Firmato digitalmente da SARA LORENZA GIORDANO

ISTITUTO GIORDANO S.p.A. Via Gioacchino Rossini, 2 - 47814 Bellaria-Igea Marina (RN) - Italia - Tel. +39 0541 343030 - [istitutogiordano@giordano.it](mailto:istitutogiordano@giordano.it) - [www.giordano.it](http://www.giordano.it)  
 Cap. Soc. € 1.500.000 i.v. - R.E.A. c/o C.C.I.A.A. (RN): 156766 - Registro Imprese Romagna (Forlì-Cesena e Rimini) e CF/P. IVA: n. 00 549 540 409

Comessa:

87053

Provenienza della documentazione tecnica:  
fornita dal clienteData del ricevimento della documentazione tec-  
nica:

22 gennaio 2021

Data dell'attività:

dal 25 gennaio 2021 all'1 febbraio 2021

Luogo dell'attività:

Istituto Giordano S.p.A. - Blocco 2 - Via Gioacchino Rossini, 2 - 47814 Bellaria-Igea Marina (RN) - Italia

Indice	Pagina
Descrizione dell'oggetto*	2
Riferimenti normativi	7
Modalità	8
Dati di calcolo	9
Risultati	9

Il presente documento è composto da n. 13 pagine e  
 non può essere riprodotto parzialmente,  
 estrapolando parti di interesse a discrezione del  
 cliente, con il rischio di favorire una interpretazione  
 non corretta dei risultati, fatto salvo quanto definito a  
 livello contrattuale.

I risultati si riferiscono solo all'oggetto in esame, così  
 come ricevuti, e sono validi solo nelle condizioni in cui  
 l'attività è stata effettuata.

L'originale del presente documento è costituito da un  
 documento informatico firmato digitalmente ai sensi  
 della Legisiazione Italiana applicabile.

Responsabile Tecnico di Prova:

Dott. Ing. Gabriele Graci

Responsabile del Laboratorio di Trasmissione del  
 calore - Calcoli:

Dott. Corrado Colagiacomo

Compilatore: Agostino Vasini

Revisore: Dott. Ing. Gabriele Graci

Pagina 1 di 13

# RAPPORTO DI PROVA

**N. 0377/RP/2021**

27 Gennaio 2021

**Richiedente**

Tenda Sistem S.r.l.

Via Giorgio Almirante, 15/17  
70025 Grumo Appula (BA)

**Campione sottoposto a prova**

Tapparella con fasce distanziabili

commercialmente denominata “NEWSOLAR STANDARD, NEWSOLAR SECURE 2-3-4”  
(cfr. descrizione)

**Prove eseguite**

Resistenza al carico del vento

**Riferimenti normativi**

UNI EN 13659:2015

UNI EN 1932:2013

**Il Rapporto è composto da n. 10 pagine e può essere riprodotto solo integralmente.  
I risultati ottenuti si riferiscono unicamente ai campioni sottoposti a prova**

**Sede legale:** Via Achille Grandi 17 – 21017 Samarate (VA) - **Sede Operativa:** Via Calabria 4 – 21012 Cassano Magnago (VA)

**Unità operativa secondaria:** Via dell’Industria 6 – 72017 Ostuni Z.I. (BR)

Tel. 0331.594628 – [www.irecos.com](http://www.irecos.com) – Cap. Soc. €89.220,80 I.V. – C.F. e P. Iva 05159630960 – R.E.A. VA-351993

# RAPPORTO DI PROVA

**N. 0376/RP/2021**

27 Gennaio 2021

**Richiedente**  
Tenda Sistem S.r.l.  
Via Giorgio Almirante, 15/17  
70025 Grumo Appula (BA)

**Campione sottoposto a prova**  
Tapparella con fasce distanziabili  
commercialmente denominata “NEWSOLAR MINI”  
(cfr. descrizione)

**Prove eseguite**  
Resistenza al carico del vento

**Riferimenti normativi**  
UNI EN 13659:2015  
UNI EN 1932:2013

**Il Rapporto è composto da n. 10 pagine e può essere riprodotto solo integralmente.**  
**I risultati ottenuti si riferiscono unicamente ai campioni sottoposti a prova**

# RAPPORTO DI PROVA

**N. 0375/RP/2021**

**27 Gennaio 2021**

**Richiedente**

Tenda Sistem S.r.l.  
Via Giorgio Almirante, 15/17  
70025 Grumo Appula (BA)

**Campione sottoposto a prova**

Tapparella con fasce distanziabili  
commercialmente denominata “NEWSOLAR ELEPHANT”  
(cfr. descrizione)

**Prove eseguite**

Resistenza al carico del vento

**Riferimenti normativi**

UNI EN 13659:2015  
UNI EN 1932:2013

**Il Rapporto è composto da n. 10 pagine e può essere riprodotto solo integralmente.  
I risultati ottenuti si riferiscono unicamente ai campioni sottoposti a prova**

## RAPPORTO DI PROVA N. 360634

Cliente

**TENDA SISTEM S.r.l.**  
Via Giorgio Almirante, 15/17 - 70025 GRUMO APPULA (BA) - Italia

Oggetto\*  
**chiusura oscurante**  
**denominata "NEW SOLAR SECURE 4"**



Attività  
**resistenza all'effrazione e classificazione**  
**(resistenza sotto carico statico**  
**e resistenza all'azione manuale di effrazione)**  
**secondo le norme UNI EN 1627:2011, UNI EN 1628:2016**  
**e UNI EN 1630:2016**

Risultati

**RC 4**

(\*) secondo le dichiarazioni del cliente.

Bellarla-Igea Marina - Italia, 30 aprile 2019

L'Amministratore Delegato

Il presente documento è composto da n. 9 pagine e non può essere riprodotto parzialmente, estrapolando parti di interesse a discrezione del cliente, con il rischio di favorire una interpretazione non corretta dei risultati, fatto salvo quanto definito a livello contrattuale.

I risultati si riferiscono solo all'oggetto in esame, così come ricevuto, e sono validi solo nelle condizioni in cui l'attività è stata effettuata.

L'originale del presente documento è costituito da un documento informatico firmato digitalmente ai sensi della Legisiazione Italiana applicabile.

**Responsabile Tecnico di Prova:**

Geom. Roberto Porta

**Responsabile del Laboratorio di Security and Safety:**  
Dott. Andrea Bruschi

**Compilatore:** Paolo Bonito

**Revisore:** Geom. Roberto Porta

Pagina 1 di 9

**RAPPORTO DI PROVA N. 360635**

Cliente

**TENDA SISTEM S.r.l.**  
Via Giorgio Almirante, 15/17 - 70025 GRUMO APPULA (BA) - Italia

Oggetto\*  
**chiusura oscurante**  
**denominata "NEW SOLAR SECURE 3"**



Attività  
**resistenza all'effrazione e classificazione**  
**(resistenza sotto carico statico,**  
**resistenza sotto carico dinamico**  
**e resistenza all'azione manuale di effrazione)**  
**secondo le norme UNI EN 1627:2011, UNI EN 1628:2016,**  
**UNI EN 1629:2016 e UNI EN 1630:2016**

Risultati

**RC 3**

(\*) secondo le dichiarazioni del cliente.

Bellaria-Igea Marina - Italia, 30 aprile 2019

L'Amministratore Delegato

Il presente documento è composto da n. 9 pagine e non può essere riprodotto parzialmente, estrapolando parti di interesse a discrezione del cliente, con il rischio di favorire una interpretazione non corretta dei risultati, fatto salvo quanto definito a livello contrattuale.

I risultati si riferiscono solo all'oggetto in esame, così come ricevuto, e sono validi solo nelle condizioni in cui l'attività è stata effettuata.

L'originale del presente documento è costituito da un documento informatico firmato digitalmente ai sensi della Legisiazione Italiana applicabile.

**Responsabile Tecnico di Prova:**

Geom. Roberto Porta

**Responsabile del Laboratorio di Security and Safety:**

Dott. Andrea Bruschi

**Compilatore:** Paolo Bonito**Revisore:** Geom. Roberto Porta

Pagina 1 di 9



Istituto di Ricerca e Certificazione per le Costruzioni Sostenibili

Organismo Notificato n.1994 ai sensi del Regolamento CPR (UE) n.305/2011

# RAPPORTO DI PROVA

**N. 0372/RP/2021**

13 Gennaio 2021

**Richiedente**

Tenda Sistem S.r.l.  
Via Giorgio Almirante, 15/17  
70025 Grumo Appula (BA)

**Campione sottoposto a prova**

Tapparella New Solar  
appartenente alla serie commercialmente denominata  
NEWSOLAR SECURE 3 IR

**Prove eseguite**

Resistenza all'effrazione

**Riferimenti normativi**

UNI EN 1627:2011  
UNI EN 1628:2016  
UNI EN 1629:2016  
UNI EN 1630:2016

**Il Rapporto è composto da n. 15 pagine e può essere riprodotto solo integralmente.  
I risultati ottenuti si riferiscono unicamente ai campioni sottoposti a prova**



**IRCCOS S.r.l.**

Istituto di Ricerca e Certificazione per le Costruzioni Sostenibili

Organismo Notificato n. 1994 ai sensi del Regolamento CPR (UE) n.305/2011

# RAPPORTO DI PROVA

**N. 0300/RP/19**

02 Maggio 2019

**Richiedente**

Tenda Sistem S.r.l.  
Via Giorgio Almirante, 15/17  
70025 Grumo Appula (BA)

**Campione sottoposto a prova**

Tapparella New Solar  
appartenente alla serie commercialmente denominata  
NEWSOLAR SECURE 2

**Prove eseguite**

Resistenza all'effrazione

**Riferimenti normativi**

EN 14351-1:2006+A2:2016  
UNI EN 1627:2011  
UNI EN 1628:2016  
UNI EN 1629:2016  
UNI EN 1630:2016

**Il Rapporto è composto da n. 16 pagine e può essere riprodotto solo integralmente.  
I risultati ottenuti si riferiscono unicamente ai campioni sottoposti a prova**

IRCCOS S.r.l. - Via Achille Grandi 17 – 21017 Samarate (VA) - Tel. 0331 594628

Unità operativa secondaria – Via dell'Industria, 6 – 72017 – Ostuni Z.I. (BR)

Cap. Soc. €89.220,80 I.V. - C.F. e P. Iva 05159630960 - R.E.A. VA-351993 - [www.irccos.com](http://www.irccos.com)

# NOTES

# NOTES





**INFO**  
[www.newsolar.info](http://www.newsolar.info)

**ORDER**  
[ordini@newsolar.info](mailto:ordini@newsolar.info)

**INVOICE**  
[preventivi@newsolar.info](mailto:preventivi@newsolar.info)



**TECHNICAL SUPPORT**  
[assistenza@newsolar.info](mailto:assistenza@newsolar.info)

**FAX**  
+39 080 383 63 15

**PHONE**  
+39 080 783 54 50  
+39 080 783 90 05

