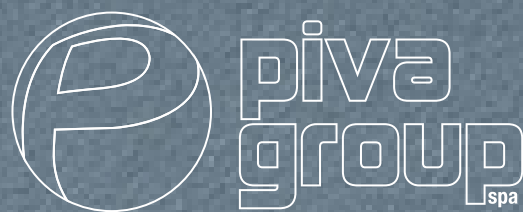


SHADING SYSTEMS



catalogue

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head office/ Via Roma 139/ Roncanova di Gazzo Veronese /Verona/ Italy





PIVA GROUP, AN ALL-ITALIAN STORY

Founded in Italy in 1986, the Piva Group started out in the building sector, producing insulated panels as well as windows and doors in a variety of materials, including aluminium and PVC. Striving relentlessly to find new techniques and develop innovative products, the **Piva** brand has become known not only throughout Italy, but also on the international markets, such as Spain, the USA and the Czech Republic.

Today the Piva brand enjoys an enviable reputation in the building sector, thanks to its versatile production range, the high quality of its products and its considerable experience.

The company is always poised to satisfy the needs of its customers and “the Future” is its watchword.

EVOLVING OVER TIME

Shading systems have become increasingly important over the years because they protect our homes, keeping unwanted light out while maintaining a pleasant indoor temperature and adding kerb appeal.

Over the past few years, technology has made major advances and objective improvements in the field of shading systems as well.





PIVA GROUP SHADING SYSTEMS

Piva Group shading systems comprise a huge array of aesthetic options that will lend themselves to both traditional settings and contemporary buildings without neglecting their primary task of shielding you from light.



UTTER STABILITY AND GUARANTEED QUALITY

The coating process on aluminium systems (in keeping with Qualicoat quality standards) is based on cutting-edge techniques which ensure the utmost resistance to weather conditions both on Ral colours and on a whole array of wood-effect variants.





ALUMINIUM: DURABILITY THAT DEFIES TIME

Aluminium is the youngest industrial-grade metal by a long way since it was first mass produced little more than 100 years ago.

Positioned at number 13 on the periodic table, aluminium is one of the most widespread elements in nature. Remarkable malleable and light, it is the third most abundant element after oxygen and silicon, and is extracted from an ore called bauxite which makes up roughly 8% of the Earth's crust.

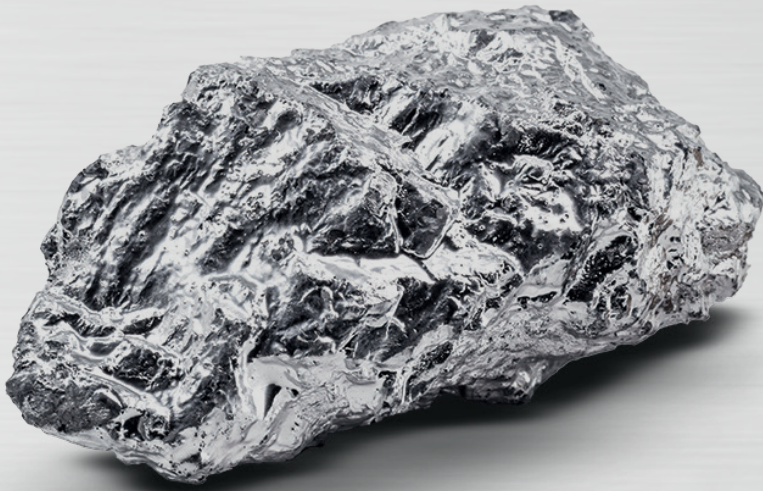
Aluminium oxidises rapidly when in contact with the air, creating a superficial protection that makes it resistant to water and certain chemical substances. This characteristic makes it the most widely used metal in the transport and building industries.

Aluminium can be entirely and endlessly recycled without ever losing its original qualities which remain intact indefinitely. Even after it has been recycled multiple times and the primary metal turns into "recycled aluminium" or "secondary aluminium", it still stays the same as it was before.

Thanks to its excellent reflecting power, it diffuses and reflects light which helps to reduce dispersion of the light source and facilitates energy saving.



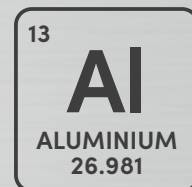
bauxite quarry / Otranto in Apulia



WHY CHOOSE ALUMINIUM SHADING SYSTEMS

Aluminium shading systems are design-forward products which deliver a combination of Italian finesse and the tactile innovative feel of aluminium, a material which offers immense malleability and versatility and is ready and waiting to be shaped by the creative minds of architects and designers.

Unique shading systems that interact with sunlight and inject personality into any setting or environment.



Aesthetics & Design



Broad array of colours



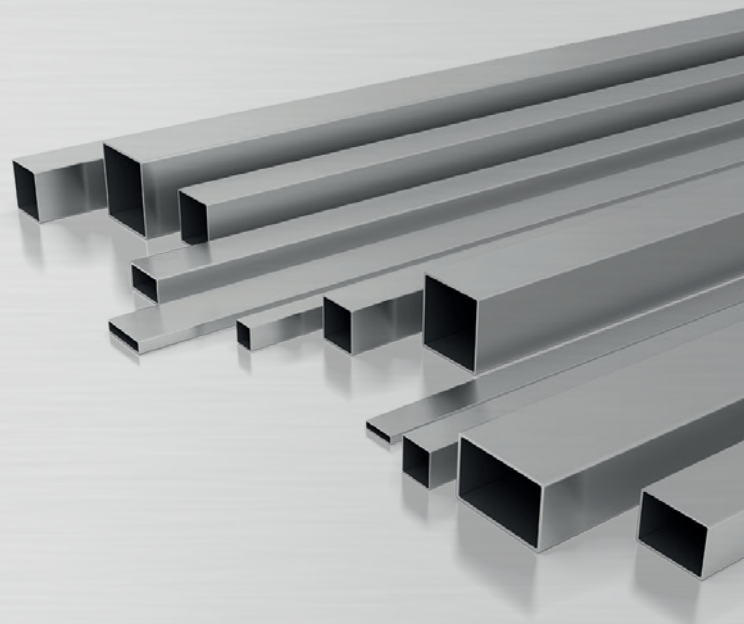
Unchangeability and durability

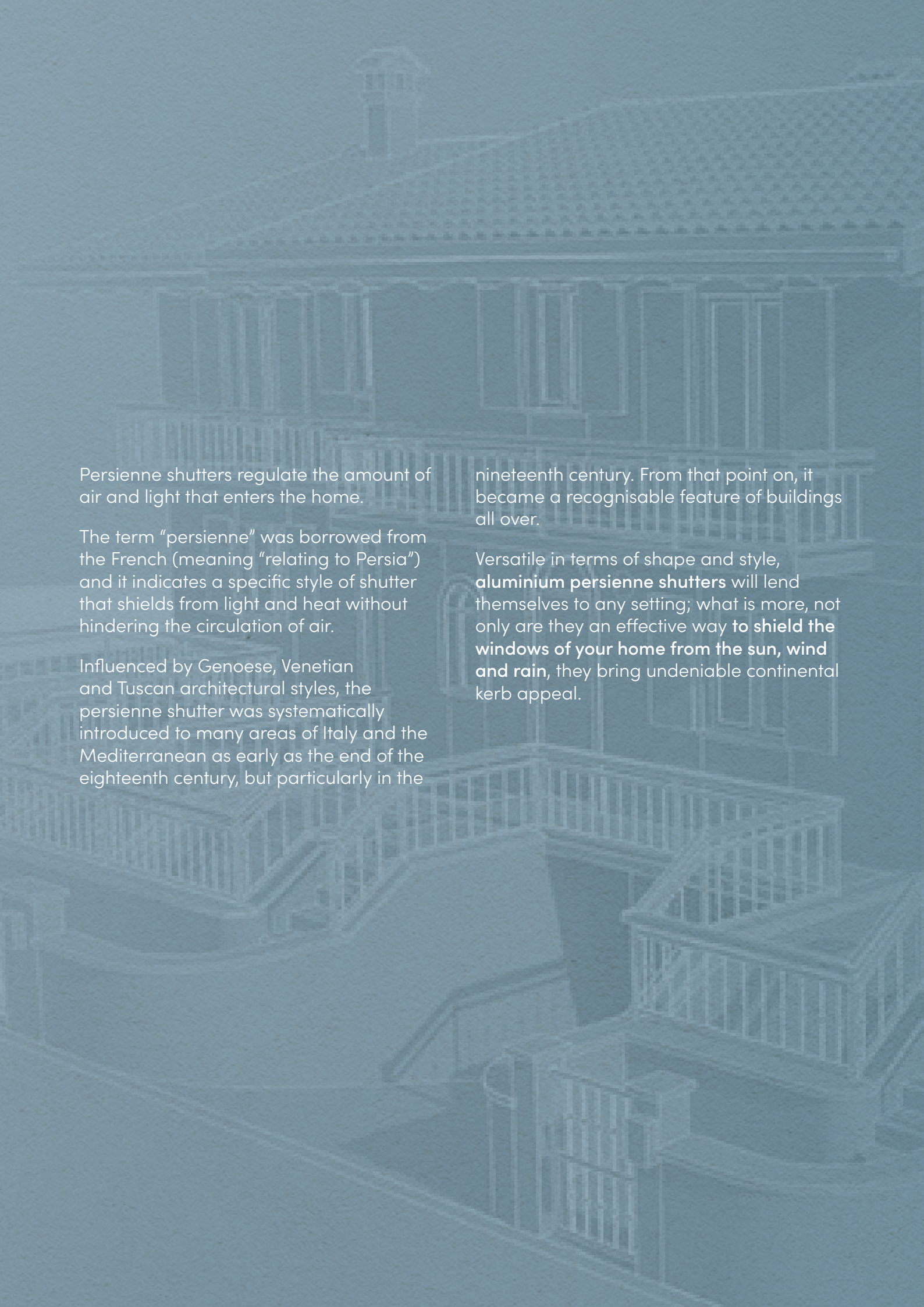


Easy to maintain



Energy savings





Persienne shutters regulate the amount of air and light that enters the home.

The term “persienne” was borrowed from the French (meaning “relating to Persia”) and it indicates a specific style of shutter that shields from light and heat without hindering the circulation of air.

Influenced by Genoese, Venetian and Tuscan architectural styles, the persienne shutter was systematically introduced to many areas of Italy and the Mediterranean as early as the end of the eighteenth century, but particularly in the

nineteenth century. From that point on, it became a recognisable feature of buildings all over.

Versatile in terms of shape and style, **aluminium persienne shutters** will lend themselves to any setting; what is more, not only are they an effective way **to shield the windows of your home from the sun, wind and rain**, they bring undeniable continental kerb appeal.

AMALFI PERSIENNE SHUTTERS



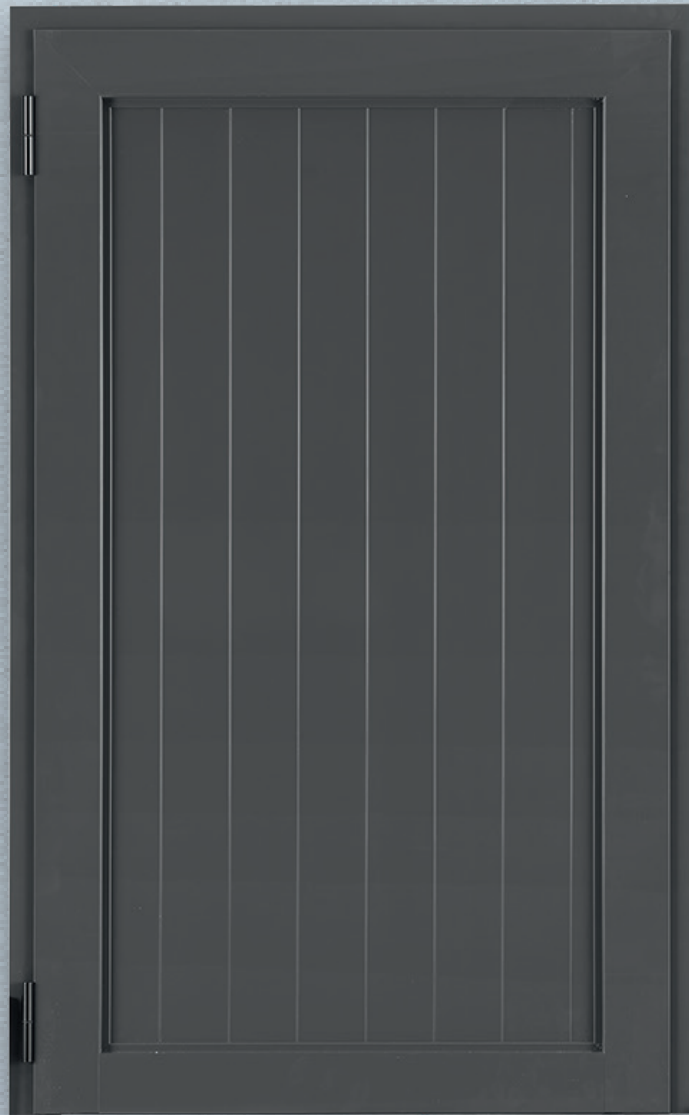
The latest Piva-Group standard persienne shutter offers:

- ▲ Single shutter panel both in the framed and frameless versions.
- ▲ Lower base and option of inserting rails and stiles that are the same external size as the shutter panel which is very visually attractive.
- ▲ 4 kinds of frame L in the larger version for controlling the range of the shutter panels.
- ▲ The Z version includes Z30, Z50, and Z75, specifically designed for refurbished and renovated buildings because they allow for the concealment of walled-up old wooden counterframes or unsightly architectural elements.
- ▲ Standard closure with pre-coated black espagnolette in zamak and safety latch available only for the 2-panel styles. Optional closure with cremone bolt available in the standard version with a key and lift-up system.
- ▲ Hinges in pre-coated epoxy-powder extruded aluminium with steel pins and nylon bushings for the framed version.
- ▲ T-shaped fixed hinge bands in galvanised pre-coated black steel for the frameless versions.
- ▲ Optional closure with cremone bolt available in the standard version with a key and lift-up system.

AMALFI PERSIENNE SHUTTER

VERTICAL SLAT

1 shutter panel or several shutter panels



■
Z30 frame
41 x 40 mm

■
Z50 frame
41 x 40 mm



DESIGN FEATURES

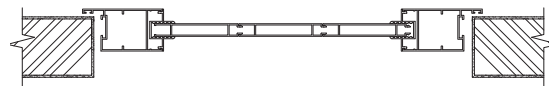
The persienne shutter is infilled with 80x12 aluminium slats which can be installed either vertically (standard mode) or horizontally. The lower part has a 76x40 base with a brush strip to ensure the greatest possible shade and protection in adverse weather conditions.



INSTALLATION CROSS-SECTIONAL VIEW



with frame



without frame



detail of cremone bolt



fixed hinge band without frame



central node secondary shutter panel base with brush strip

AMALFI PERSIENNE SHUTTER

FIXED CLOSED SLAT

1 shutter or several shutters



■
slat thickness
66 x 16 mm

■
base measuring
76 x 40 mm

■
size of mobile
shutter panel
76 x 40 mm thick

■
frame L
52.50 x 40 mm

■
Z30 frame
41 x 40 mm

■
Z50 frame
41 x 40 mm

■
Z75 frame
41 x 70 mm



DESIGN FEATURES

Made with 66x16 mm-thick slats, nylon spacers and shutter panel fitted on 3 sides. Fixed-closed-slat aluminium persienne shutters provide perfect protection against too much light (with a restful night-time effect) as well as an attractive horizontal-slat aesthetic.



INSTALLATION CROSS-SECTIONAL VIEW



with frame



without frame



detail of espagnolette with single shutter panel



detail of hinge on frame



central node secondary shutter panel base with brush strip

AMALFI PERSIENNE SHUTTER

FIXED OPEN SLAT

1 shutter or several shutters



■
base measuring
76 x 40 mm

■
window-support rail
76 x 40 mm

■
size of mobile
shutter panel
76 x 40 mm thick

■
frame L
52.50 x 40 mm

■
Z30 frame
41 x 40 mm

■
Z50 frame
41 x 40 mm

■
Z75 frame
41 x 70 mm

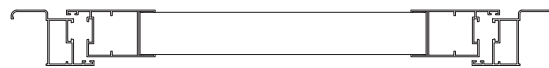


DESIGN FEATURES

Made with thickness of 50x12 mm, nylon spacers and shutter panel fitted on 3 sides. The fixed-open-slat aluminium persienne shutters provide home interiors with relaxing semi-darkness without becoming pitch black.



INSTALLATION CROSS-SECTIONAL VIEW



with frame



without frame



detail of hinge on frame



detail of espagnolette closure



detail of fixed standard hinge band without frame

AMALFI PERSIENNE SHUTTER

ADJUSTABLE BLADE

1 shutter or several shutters



■
persienne shutter slat
66 x 16 mm

■
size of mobile
shutter panel
76 x 40 mm thick

■
frame L
52.50 x 40 mm

■
Z30 frame
41 x 40 mm

■
Z50 frame
41 x 40 mm

■
Z75 frame
41 x 70 mm



DESIGN FEATURES

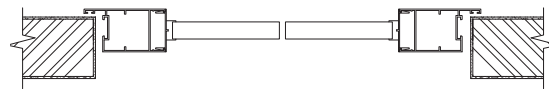
Persienne shutter with 66x16 slat and adjustable tilt, allowing users to adjust the amount of sunlight and air to suit their requirements. Controls for regulation with click-stop positioning and a locking mechanism with a slide-closure system.



INSTALLATION CROSS-SECTIONAL VIEW



with frame



without frame




detail of hinge on frame



standard fixed hinge band



adjustable blades



The Antone board shutter is a classic light-blocking system which has been popular in the Mediterranean basin for centuries. It features elegant vertical slats which epitomise traditional Italian architecture.

The **Antone** is an additional device placed over the casing that serves to protect the window, guarding against prying eyes and keeping out bad weather. This particular shutter is called a *scuro* in Italian which means “dark”, alluding to its ability to keep an environment pleasantly dim and at a stable temperature.

To all appearances, it is a simple straightforward device, yet the **Antone board shutter** is in actual fact quite

involved and complicated to make. It is available made-to-measure in a variety of aesthetic styles and with technical characteristics, and can be mounted on windows, doors and even French doors.

It provides excellent **thermal insulation and sound proofing**, locking in either heat or the cool. Users will be able to look forward to a **significant reduction in energy consumption and lower bills**. And of course, the Antone allows users to regulate the amount of light and air that enters the home, being an extremely flexible and versatile solution.

The shutters are available in a wide range of colours, from RAL shades to wood-effect finishes, allowing users to find a perfect match for their window casings.

EMILIA ANTONE BOARD SHUTTERS



Shutters with a slatted infill made from a profiled system in aluminium.

- ▲ Excellent stability thanks to the edge banding on the slats and the premium quality of the aluminium alloy. Option of choosing between two kinds of mounting: frameless (attached directly to the wall and fitted on 3/4 sides) or with a Ghost frame, virtually invisible from the outside and featuring Z30, Z50, Z75 and L frames. The customer is bound to find a solution that will suit the look of their home or building.
- ▲ Standard supply on versions without a frame: concealed fixed black hinge-band and espagnolette closure.
- ▲ Standard supply for solutions with frame: black hinge and espagnolette closure.

EMILIA ANTONE BOARD SHUTTER

WITH FRAME

1 shutter panel / 2 shutter panels



■
shutter
82.5 x 56 mm

■
slat
80 x 12 mm

■
Ghost frame
65.2 x 15 mm

■
Z30 frame
41 x 40 mm

■
Z50 frame
41 x 40 mm

■
Z75 frame
41 x 70 mm



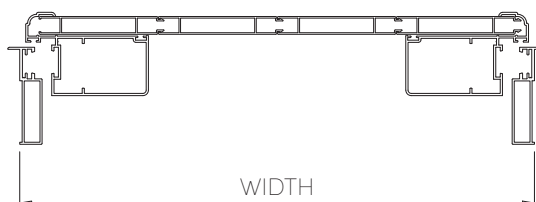
DESIGN FEATURES

Shutters with a slatted infill made from a profiled system in aluminium. Excellent stability thanks to the edge banding on the louvres and the premium quality of the aluminium alloy.

Frame available with various kinds of hinges.



INSTALLATION CROSS-SECTIONAL VIEW



with frame



with frame



internal view



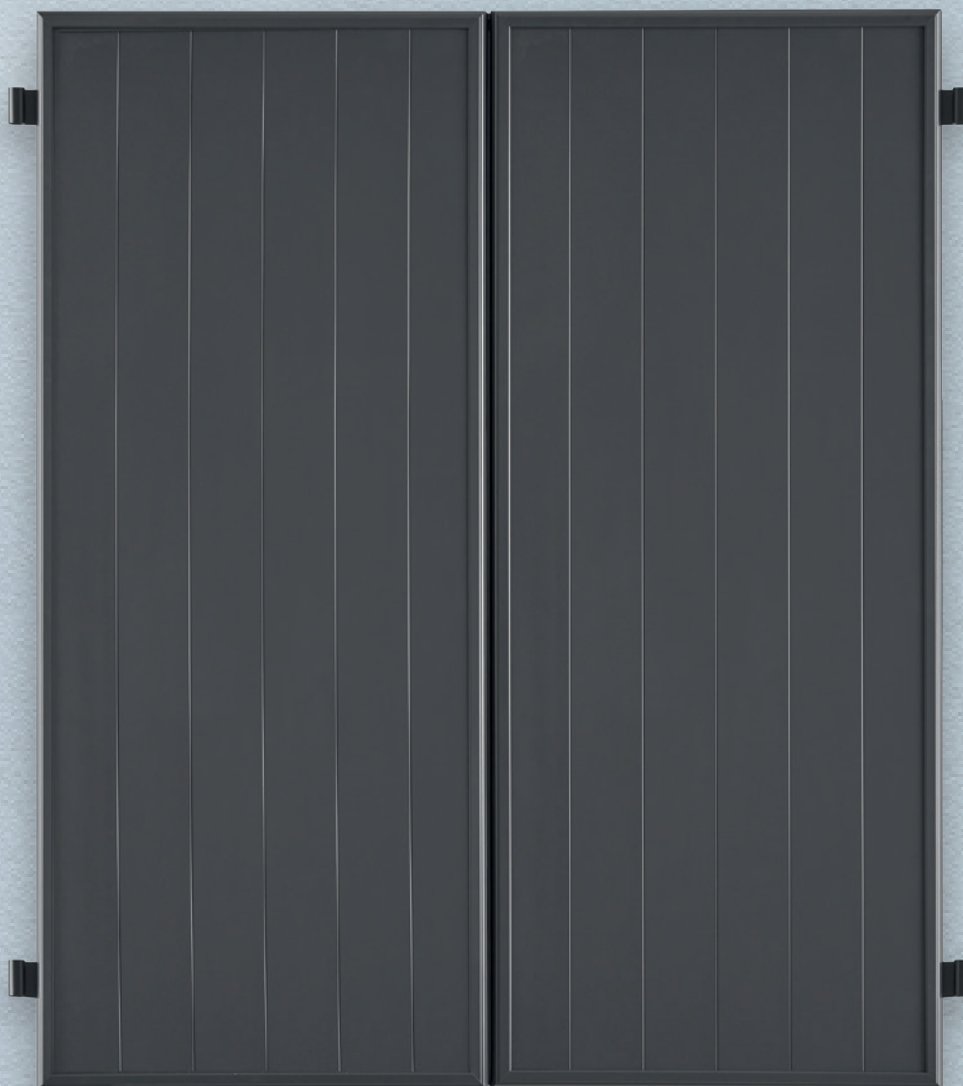
detail of frame hinge



detail of lower brush strip

* The safety latch cannot be mounted on single-door shutters

EMILIA ANTONE BOARD SHUTTER
WITHOUT FRAME - CONCEALED HINGE BANDS
1 shutter panel / 2 shutter panels



■
shutter
82.5 x 56 mm

■
slat
80 x 12 mm



DESIGN FEATURES

Light-blocking solution with an elegant functional design and a single centre-to-centre distance of 80 mm. Hinges on wall and fixed concealed hinge band.



INSTALLATION CROSS-SECTIONAL VIEW



without frame



detail of rail



internal view of hinge band without frame

* The safety latch cannot be mounted on single-door shutters

BURANO SHUTTER PANELS



Antone board shutters, Vicenza-style and Padua-style shutters made with top-quality aluminium profiles. Available in the framed and frameless versions.

The Burano system features a frame which is 36.5 and 70 mm deep. Modular slats 28 mm thick.

- ▲ On framed models, seals in black silicone. For frameless models, brush strip option.
- ▲ Standard for Antone board shutter panel (with and without frame): black hinge band. Black hinge is also available for the framed version. Espagnolette closure.
- ▲ Standard supply for padua-style shutter: black hinge for framed solution. With black hinge band for the frameless solution. Espagnolette closure.
- ▲ Standard supply for Vicenza-style framed model: special black hinge and external cremone bolt with visible shutter stays.
- ▲ Standard supply for frameless Vicenza-style model: black hinge band, hinge band on central node and cremone-bolt closure with visible shutter stays.
- ▲ Arched version available for frameless Antone board shutter panel.
- ▲ Standard supply for reverse Vicenza-style model with frame: special black hinge and semi-embedded cremone bolt with external shutter stays.

BURANO ANTONE BOARD SHUTTER

WITH FRAME AND HINGES

1 shutter panel / 2 shutter panels



■
frame
70 mm

■
grooved slats
28 mm

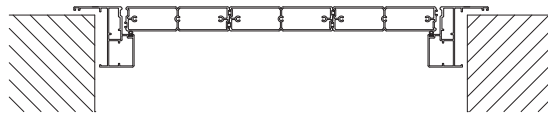


DESIGN FEATURES

This model taps into the heritage aesthetic of old wooden systems and is ideal for renovation work on legacy buildings, new constructions and homes in historical city centres - with the added advantage that it **also requires very little maintenance work.**



INSTALLATION CROSS-SECTIONAL VIEW



framed Antone board shutter



espagnolette - 2 shutter panels*



detail of hinge with open panel



detail of hinge seen from outside

* The safety latch cannot be mounted on single-door shutters

BURANO ANTONE BOARD SHUTTER

FRAMELESS - WITH FITTING
1 shutter panel / 2 shutter panels



modular slats
28 mm in length

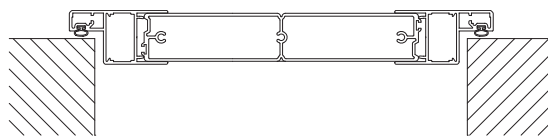


DESIGN FEATURES

Board panel with vertical slats ideal for listed buildings or heritage homes with aesthetic restraints and an outer appearance that must be maintained. The standard shutter has a sleek functional design. Standard supplied with a hinge band and espagnolette closure



INSTALLATION CROSS-SECTIONAL VIEW



Antone board shutter without frame



espagnolette - 2 shutter panels*



detail of espagnolette



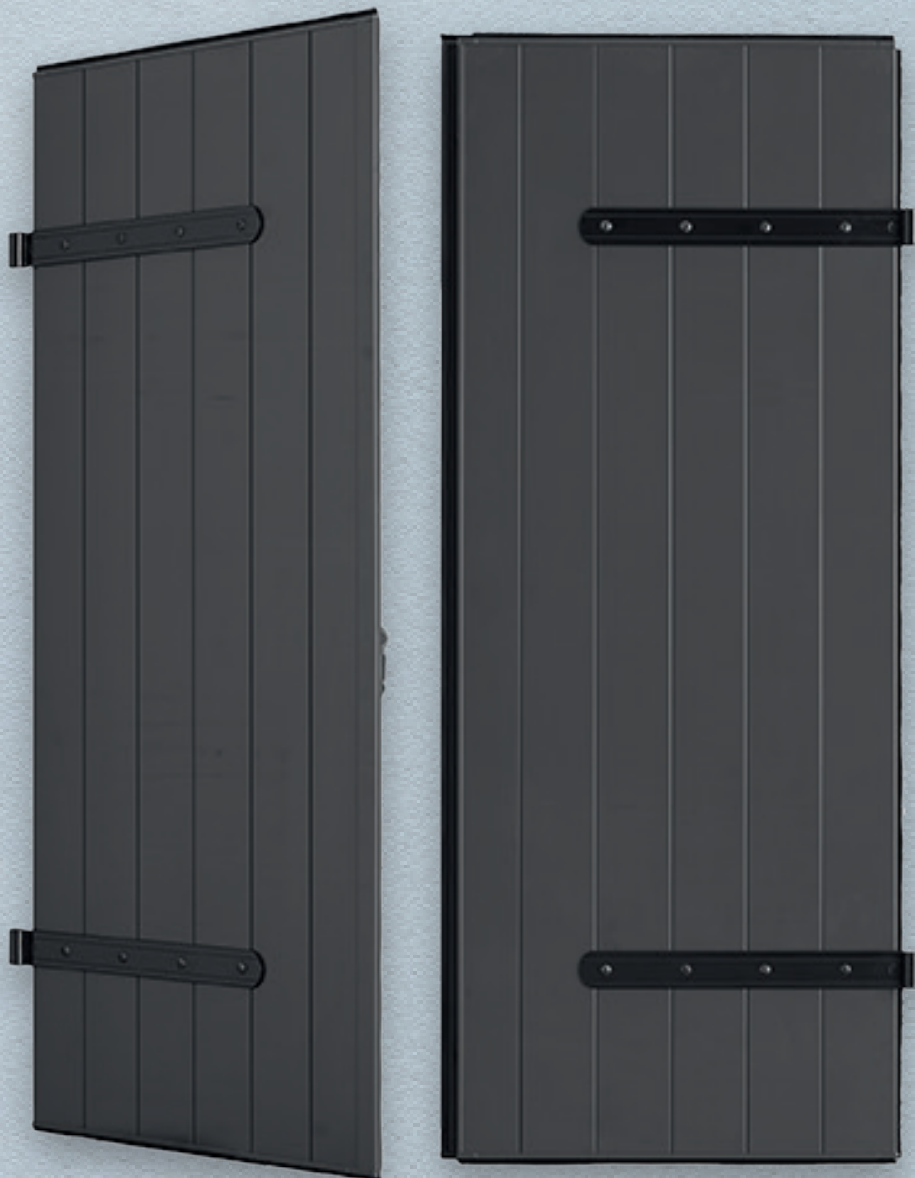
standard hinge band

* The safety latch cannot be mounted on single-door shutters

BURANO ANTONE BOARD SHUTTER

FRAMELESS - WITHOUT FITTING

1 shutter panel / 2 shutter panels



grooved slats
28 mm

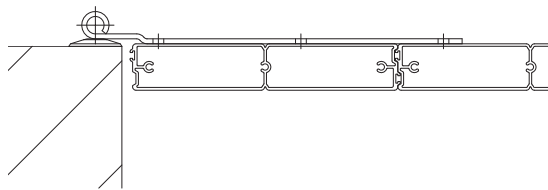


DESIGN FEATURES

Board panel with vertical slats ideal for listed buildings or heritage homes with aesthetic restraints and an outer appearance that must be maintained. The standard shutter has a sleek functional design. Mounted flush to the wall with hinge bands and brush strip around edge. Espagnolette closure.



INSTALLATION CROSS-SECTIONAL VIEW



Antone board shutter without frame and without fitting



espagnolette - 2 shutter panels*



brush strip



central node

* The safety latch cannot be mounted on single-door shutters

BURANO PADUA-STYLE SHUTTERS

WITH HINGE BANDS AND FRAME

1 +1 shutter panels / 2 +2 shutter panels



■
grooved slat
28 mm

■
frame
70 mm

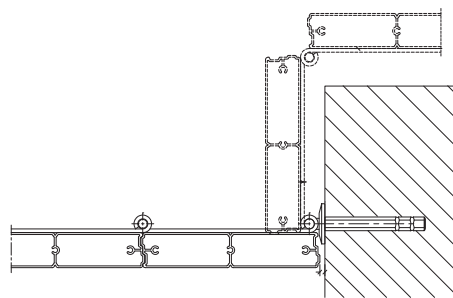


DESIGN FEATURES

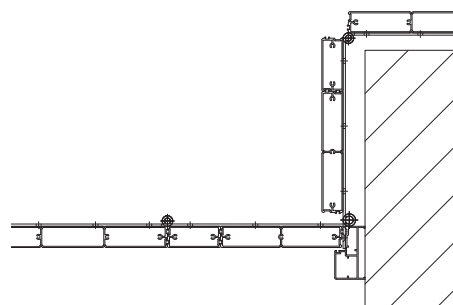
Designed for tradition lovers, the single shutter panel splits into two panels joined with a concealed hinge. When open, the first panel opens onto the window reveal, whereas the second panel folds against the outside wall. This is an excellent solution even when there is a shortage of space because minimum clearance is required. The standard system features hinge bands both with and without frames.



INSTALLATION CROSS-SECTIONAL VIEW



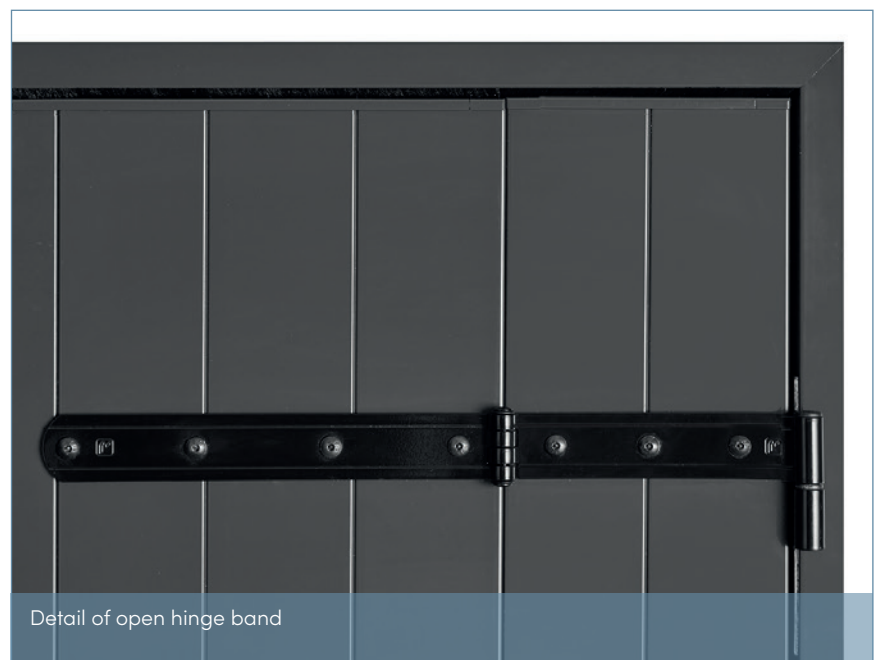
frameless
padua-style
shutter



framed
padua-style
shutter



espagnolette - 2 shutter panels*



Detail of open hinge band

* The safety latch cannot be mounted on single-door shutters

BURANO VICENZA-STYLE SHUTTERS

WITH HINGES AND FRAME

1 +1 shutter panels / 2 +2 shutter panels



■
frame
36.5 mm

■
smooth slats
measuring 28 mm



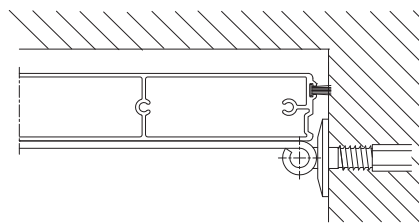
DESIGN FEATURES

The Vicenza-style shutter is installed on the outer wall and has a bifold design with 2 sides per shutter panel that rest on the inside stonework.
 Standard supply for the framed version: special black hinge and external cremone bolt.



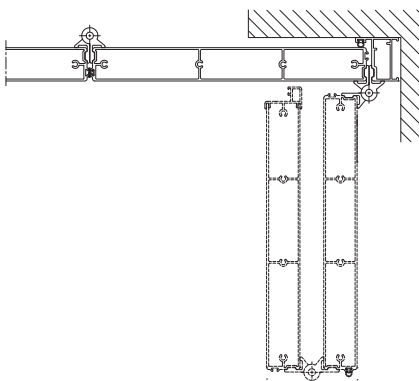
INSTALLATION CROSS-SECTIONAL VIEW

EXTERIOR



frameless Vicenza style - seen from the external wall

EXTERIOR



Vicenza-style with frame - opening system on exterior



external cremone bolt



hinge



hinge on node

BURANO REVERSE VICENZA-STYLE SHUTTERS

WITH HINGES AND FRAME

1 +1 shutter panels / 2 +2 shutter panels



■
frame
70 mm

■
grooved slats
measuring 28 mm



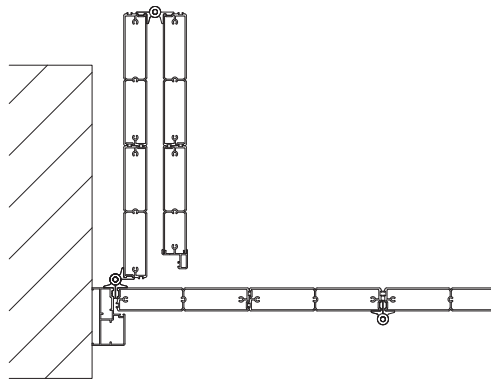
DESIGN FEATURES

May be installed on the lintel without any need for stonework, but can also be completely concealed within the lintel which preserves the original appearance of the façade. Installed on the inside of the wall with a 2-panel bifold design that folds outwards. Standard supplied with black hinges, semi-embedded cremone bolt and external shutter stays.



INSTALLATION CROSS-SECTIONAL VIEW

EXTERIOR



Shutter panel node/external view of panel



semi-embedded cremone bolt



hinge for Burano shutters



shutter panel node/external view of panel



STANDARD WOOD EFFECT



P KA16 HD

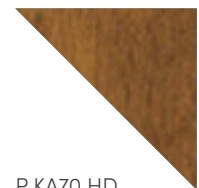
French walnut



P KA31 HD

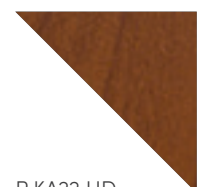
antique-effect French walnut
(similar to Walnut)

NON STANDARD WOOD EFFECT



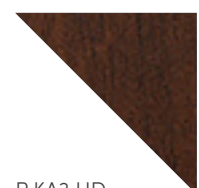
P KA70 HD

winchester



P KA22 HD

dark flamed
cherry



P KA3 HD

mid walnut



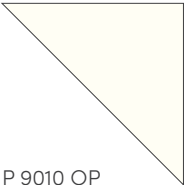


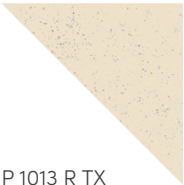
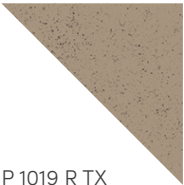

















P KA64 HD

white oak



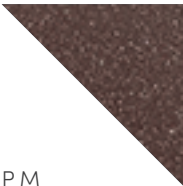

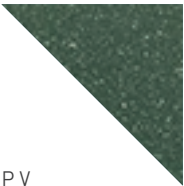


COLOURS

STANDARD

 P 9010 OP	 P 9010 R TX	 P 1013 OP	 P 1013 R TX	 P 1019 R TX
 P 8017 OP	 P 8017 R TX	 P 9005 OP	 P 9005 R TX	 P 6021 OP
 P 6009 OP	 P 6009 R TX	 P 6005 OP	 P 6005 R TX	 P 6029 OP
 P 7035 OP	 P 9006 R TX	 P 7001 OP	 P 7016 OP	 P 3003 OP
 P 5010 OP	 P 5024 OP			

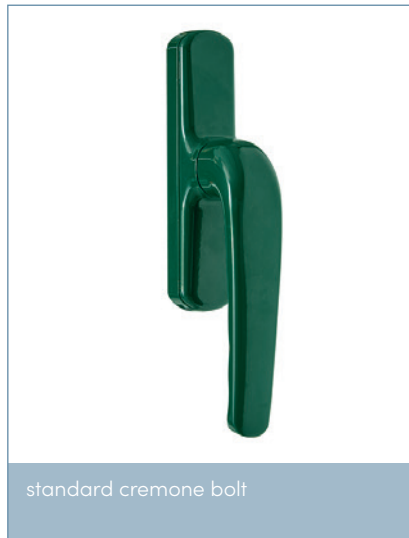
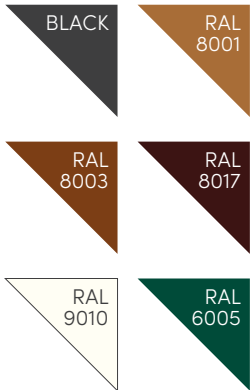
NON STANDARD

 BRONZE PG	 P GRAF	 P M	 P K288 R	 P V
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NB: The colours and shades described above are merely indicative, please consult the Piva Group colour board for more information.

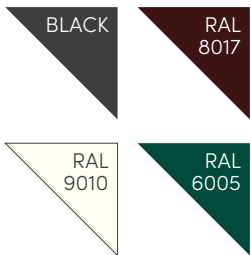
ACCESSORY
COLOURS*

blade mechanisms

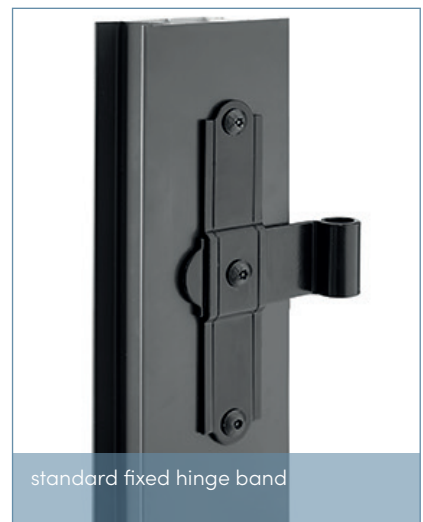
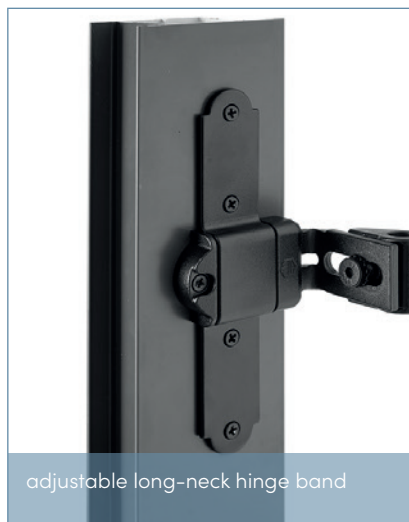


semi-open rounded-edge blade
saddles or plugs for fixed
blind blade

hinges and cremone bolts for
persienne shutters with frame



hardware for persienne shutters
espagnolette



*black is the standard default
colour. Any other choice of colour
comes at a supplementary
charge.

The wide array of available accessories makes it easy to comply with any request and identify the most suitable technical solution.

The hardware used for the aluminium persienne and board shutters undergoes a corrosion-proof treatment and ensures protection against adverse weather conditions.



slide closure with adjustable blades



detail of central node on shutter panel secondary base with brush strip



LET'S GET EQUIPPED



BLINDS WITHIN GLASS

The ScreenLine® system features a blind (Venetian, pleated or roller) that is sandwiched between two or three insulating glazing panes. Regardless of whether the blinds are raised or lowered manually or electrically, the insulating properties of the double glazing are preserved because the vacuum remains sealed all the time.

ScreenLine® products guarantee the utmost protection against dirt, dust and adverse weather conditions, meaning that no maintenance is required.

The magnetic controls practically last forever: they demagnetise by 2% every 100 years.

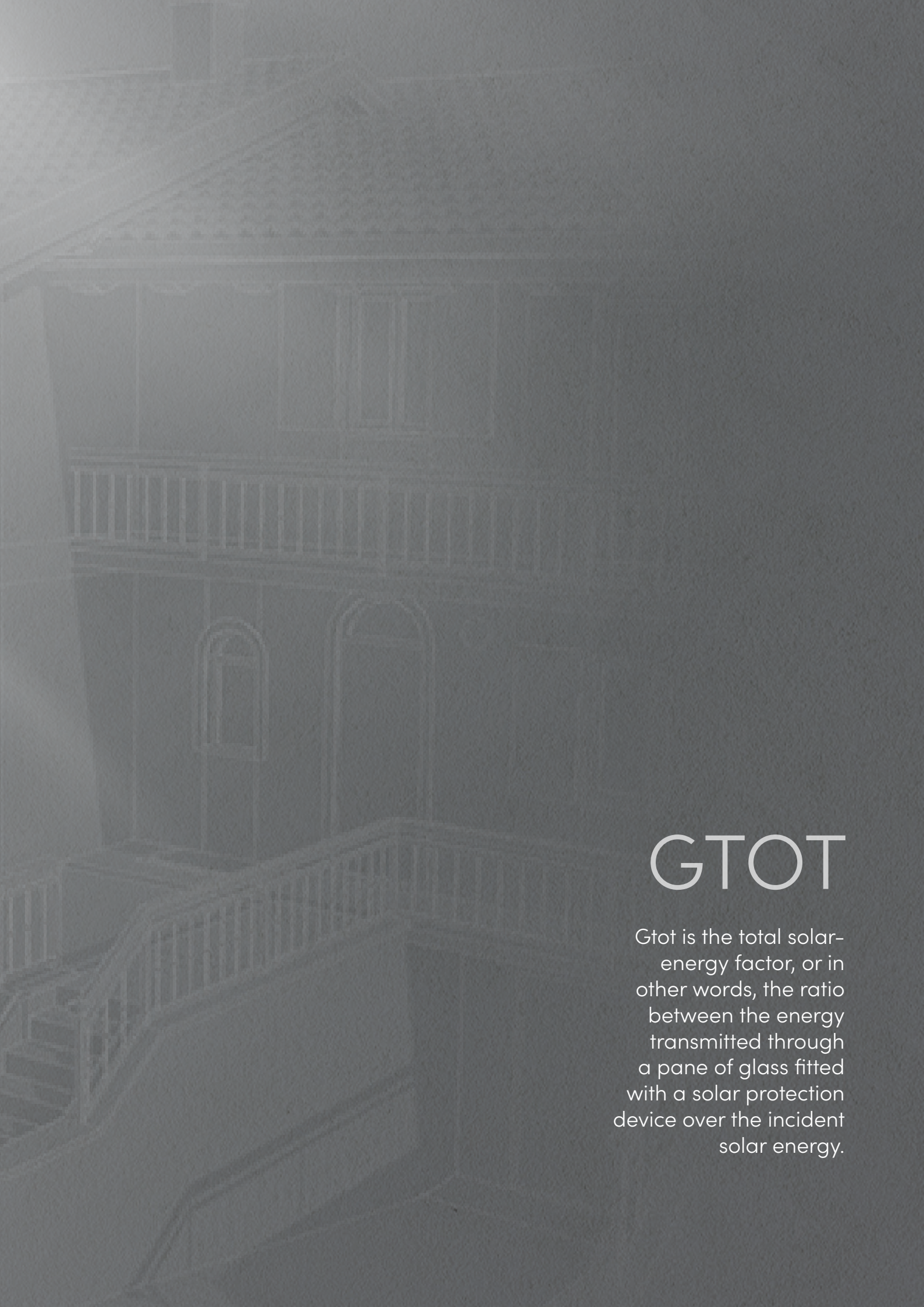
With a wide array of hugely versatile styles, the lineup guarantees solutions for all kinds of windows.



SCREENLINE®

8 EXCELLENT REASONS FOR CHOOSING SCREENLINE®

- Doesn't get dirty
- Cannot be damaged
- Requires no maintenance
- Does not age
- Is extremely durable
- Protects against light and heat
(allows you to adjust from 82 to 0.0% of the intensity of sunlight)
- Affords privacy
- The minimalist aesthetic enhances and blends in with any setting



GTOT

Gtot is the total solar-energy factor, or in other words, the ratio between the energy transmitted through a pane of glass fitted with a solar protection device over the incident solar energy.

GTOT REGULATIONS

GTOT AND SOLAR FACTOR

Solar factor “g” (or g value) indicates the degree to which solar energy passes through glass panes fitted into windows. Basically, it tells us how much solar radiation filters through the glass into the building. The lower the “g” value, the greater the number of sun rays entering the room.

In order to qualify for tax allowances granted by the Italian government, it is necessary to quantify the amount of radiation passing through a glass pane equipped with solar screening and identify the total solar energy transmittance (Gtot).

Basically, the “g” value is the solar factor of the glass pane on its own. On the other hand, the “Gtot” factor is the solar factor of the glass pane fitted with a solar-protection device.

Piva Group shading systems are manufactured in full compliance with Gtot regulations for calculating the window/shading system and allow the end user to claim eligibility for tax benefits.

THE EFFECT OF GTOT ON THERMAL COMFORT LEVELS

Of the various factors that determine the energy efficiency of solar shielding and ensure thermal comfort, Gtot is undeniably the most important because it identifies overall performance (glass + screening system). Which is why the Piva Group has run tests on its product combinations, allowing it to offer its partners a useful assessment tool.

HOW THE GTOT CALCULATION TAKES PLACE

Calculation of the solar factor “Gtot” is based on UNI EN 13363-1 or UNI EN 13363-2 standards. UNI EN 13363-2 provides a detailed calculation method for actual physical behaviour when a shielding system within a pane of glass is struck by solar radiation.

We have listed below the classification of the solar factor Gtot according to the UNI EN 14501:2006 standard “Blinds and shutter – Thermal and visual comfort – Performance characteristics and classification”.

CLASS	0	1	2	3	4
GTOT	$G_{tot} \leq$ (opposite) 0.50 minimum effect	$0.35 \leq G_{tot} < 0.50$ moderate effect	$0.15 \leq G_{tot} < 0.35$ good effect	$0.10 \leq G_{tot} < 0.15$ very good effect	$G_{tot} < 0.1$ excellent effect

Regulations on energy requalification and 2nd level renovation work require a Gtot of ≤ 0.35 . In the case of new builds or 1st level renovation work, the Gtot is defined by the architect or developer.

FIRST-LEVEL RENOVATION WORK

First-level renovation involves work on over 50% of the external dispersing surface and possibly also the reconstruction of the winter and/or summer heating/cooling system/devices. In such circumstances, the energy performance requirements apply to the whole building and relate to the energy performance of the services supplied.

SECOND-LEVEL RENOVATION

Major second-level renovation consists of work on between 25% and 50% of the external dispersing surface and possibly also the reconstruction of the winter and/or summer heating/cooling system/devices. For instance, replacing windows and doors

ENERGY REQUALIFICATION

Energy requalification work on a building in circumstances that do not fall into the two categories described above, but which nevertheless has an impact on the energy performance of the building. Therefore, this work takes place on 25% or less of the gross overall dispersing surface of the building and/or consists in new installation work, the renovation of a heating system serving the building, or other partial work, including generator replacement.

In such a case, the energy-performance requirements only apply to those parts of the building and installations that work is being carried out on, and refer to their technical-physical or efficiency characteristics.

GUIDE TO THE BEST SOLUTIONS

The Piva Group shading systems, together with the vast product range and numerous options for glass and colour personalisation, allow customers to achieve Gtot values that are entirely in keeping with the set range established by law.

We have included a summarised table on the next few pages which shows the combination of the various variables applied to Piva Group products.



GTOT CALCULATION ON PIVA GROUP RANGE

In compliance with EN 13363-1:2003+A1:2007 standards, the Piva Group provides not only EU certification for the persienne or external shutter, but also the Gtot calculation.

Should it be specified which kind of glass is used for the inside door or window, the exact Gtot will be provided for the mounted glass pane.

Should the information not be available, the Gtot will be calculated and provided on the basis of the glass and classified according to UNI EN 14501:2006 standards.

EXAMPLE TYPE OF GLASS PANE	REFERENCE VALUES		COLOUR
3/3.1 be 14 argon 4	Ug: W/m ² K	1.1	g _{sh+gl} (Gtot)
	g:	0.60	Classif. according to UNI EN 14501:2006 standards
44.1 - 15 argon - 44.1 satin-finish	Ug: W/m ² K	1.1	g _{sh+gl} (Gtot)
	g:	0.55	Classif. according to UNI EN 14501:2006 standards
33.1 - 15 argon - 4	Ug: W/m ² K	1.0	g _{sh+gl} (Gtot)
	g:	0.50	Classif. according to UNI EN 14501:2006 standards
44.2 - 15 argon - 44.2	Ug: W/m ² K	1.0	g _{sh+gl} (Gtot)
	g:	0.45	Classif. according to UNI EN 14501:2006 standards
33.1 - 15 argon - 4 selective	Ug: W/m ² K	1.0	g _{sh+gl} (Gtot)
	g:	0.40	Classif. according to UNI EN 14501:2006 standards
44.1 - 15 argon - 66.1 selective	Ug: W/m ² K	1.0	g _{sh+gl} (Gtot)
	g:	0.38	Classif. according to UNI EN 14501:2006 standards
33.1 - 15 argon - 44.1 selective	Ug: W/m ² K	1.0	g _{sh+gl} (Gtot)
	g:	0.37	Classif. according to UNI EN 14501:2006 standards
44.1 - 9 argon - 4 - 9 argon - 44.1 selective	Ug: W/m ² K	0.9	g _{sh+gl} (Gtot)
	g:	0.35	Classif. according to UNI EN 14501:2006 standards
33.1 - 15 argon - 55.2 clear stopsol	Ug: W/m ² K	1.1	g _{sh+gl} (Gtot)
	g:	0.30	Classif. according to UNI EN 14501:2006 standards

*The product list is provided for the purposes of illustration only and is not exhaustive

SHADING SYSTEMS OPENING ON A VERTICAL OR HORIZONTAL AXIS

PIVA PRODUCTION - GROUP 1

PIVA PRODUCTION - GROUP 2

- aluminium persienne shutter (fixed blades, blind blades, vertical and/or horizontal slats, blades that can be tilted into a closed position) - pages 14, 16, 18, 20
- aluminium shutter - pages 24, 26
- aluminium Burano shutter (Antone, padua, vicenza style) - pages 30, 32, 34, 36, 38, 40
- ScreenLine (Venetian, pleated, roller) in a closed position - page 46
- roller shutter
- light-blocking blinds

- Persienne shutter in aluminium with adjustable blades (in an open position) and fixed blades - page 20
- ScreenLine (Venetian, pleated, roller) with 40° blades - page 46

	WHITE	PASTEL	DARK	BLACK	WHITE	PASTEL	DARK	BLACK
	0.02	0.04	0.06	0.07	0.14	0.16	0.17	0.19
	Class 4	Class 4	Class 4	Class 4	Class 3	Class 2	Class 2	Class 2
	0.02	0.04	0.06	0.07	0.13	0.15	0.17	0.18
	Class 4	Class 4	Class 4	Class 4	Class 3	Class 2	Class 2	Class 2
	0.02	0.04	0.05	0.07	0.12	0.14	0.15	0.17
	Class 4	Class 4	Class 4	Class 4	Class 3	Class 3	Class 2	Class 2
	0.02	0.04	0.05	0.07	0.11	0.13	0.15	0.16
	Class 4	Class 4	Class 4	Class 4	Class 3	Class 3	Class 2	Class 2
	0.02	0.04	0.05	0.07	0.11	0.12	0.14	0.15
	Class 4	Class 4	Class 4	Class 4	Class 3	Class 3	Class 3	Class 2
	0.02	0.04	0.05	0.07	0.10	0.12	0.13	0.15
	Class 4	Class 4	Class 4	Class 4	Class 3	Class 3	Class 3	Class 2
	0.02	0.04	0.05	0.07	0.10	0.12	0.13	0.15
	Class 4	Class 4	Class 4	Class 4	Class 3	Class 3	Class 3	Class 2
	0.02	0.04	0.05	0.07	0.10	0.12	0.13	0.15
	Class 4	Class 4	Class 4	Class 4	Class 3	Class 3	Class 3	Class 2
	0.02	0.04	0.05	0.06	0.10	0.11	0.12	0.14
	Class 4	Class 4	Class 4	Class 4	Class 3	Class 3	Class 3	Class 3
	0.02	0.04	0.06	0.07	0.09	0.11	0.12	0.14
	Class 4	Class 4	Class 4	Class 4	Class 4	Class 3	Class 3	Class 3



Piva Group SpA
Via Roma, 139 - Roncanova di Gazzo V.se (Verona) - Italy
Tel. +39 0442 536111 - info@pivagroupspa.com
www.pivagroupspa.com



PIVA GROUP SPA

Via Roma, 139

Roncanova di Gazzo V.se

Verona - Italy

Tel. +39 0442 536111

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