



uPVC
FRAMES

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THERMOPLASTIKI

The triptych of success: Quality. Innovation. Reliability.

The company was established in **1972**, starting its dynamic journey in the Greek market with the creation of a production unit for uPVC products and applications.

Today, having already come a long **50-year successful journey**, THERMOPLASTIKI is at the top of the Greek manufacturing industries of Fiber Glass Reinforced, uPVC and aluminum frames, with two factories & 8 production units in Amygdaleonas and Polystylo, Kavala.

Through continuous research and modernization of its machinery and premises, it has significantly broadened its production range, by adding new products and applications.

Our philosophy is the creation of frames that will provide you safety, protection and high energy efficiency. The innovative design and wide choice of styles and colors allows us to offer you a wide range of specialized solutions, always driven by functionality and aesthetic quality.

We manufacture **integrated frame solutions**, focusing on the certified quality of raw materials and the manufacturing and application process.



AMYGDALEONAS FACTORY - KAVALA

All-in-One Solutions

- Innovative Fiber Glass Reinforced Frames
- uPVC Frames
- Aluminum Frames
- uPVC and Aluminum Shutters
- Roller Shutters
- Insect Screens
- Sun Plus & Low e Energy glass panes
- Interior Doors and Security Doors
- Thermal insulating solutions from extruded polystyrene, novablok & novablok Terrace
- Thermal insulating solutions from expanded polystyrene, feliblok & feliblok plus

The compliance with the strictest production and safety standards certifies the top quality of all of the products manufactured by the Company and is in line with its social-environmental responsibility.



**The biggest manufacturer of
windows & doors in Greece.**

POLYSTYLO FACTORY - KAVALA

GUARANTIES & CERTIFICATES

Authenticity Label

A product, manufactured by Thermoplastiki, is also synonymous with all the characteristics and the policy of the company. Thus, a frame, coming from our production lines, is also characterized by the top quality of materials and construction. After all, quality is one of the top and, at the same time, non-negotiable characteristics of Thermoplastiki.

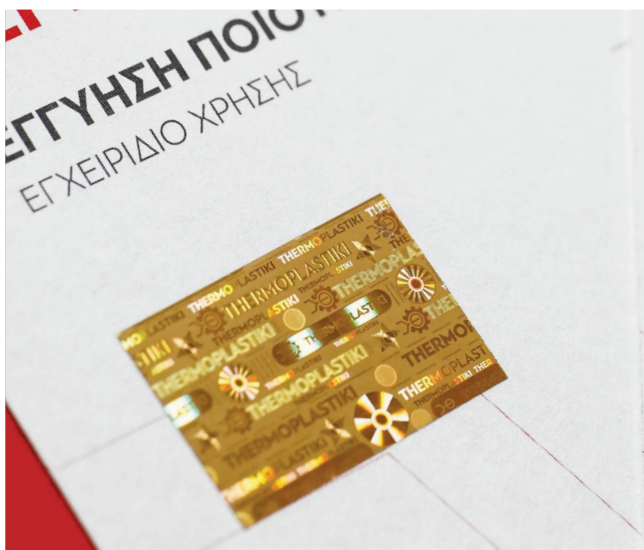
Our goal is to deliver to the final consumer a product worthy of our philosophy. As direct proof that a product is a result of the production process of Thermoplastiki, already since December 2017 the company has been placing an iridescent authenticity label on its frames.

Immediate Delivery

Value-added products and services, commitment to quality, the continuous investments and innovations, allow us to build trust and integrity driven relationships.

At Thermoplastiki, we work with you consistently. We study each project in detail and respond immediately and quickly, aiming at serving each customer in the best way possible.

The company completes the projects consistently both in terms of schedules and quality specifications.



Guaranties

In order to exceed the expectations of its customers, both with its products and with the services provided, the frames come with a written Guarantee of Good Operation.

10-year Guaranty for Fiber Glass Reinforced & uPVC Frames in White

10-year Guaranty for Glass Panes

5-year Guaranty for Fiber Glass Reinforced & uPVC Colored Frames

5-year Guaranty for Roller Shutters

Certified Quality

A product manufactured by Thermoplastiki, is synonymous with the long-term know how and quality. Thermoplastiki has been certified, since the beginning of 2000, with the Quality Management System, in accordance with the EN ISO 9001:2015 standards by the Greek Standardization Organization (ELOT). With the Health and Safety at Work Management System, in accordance with the EN ISO 45001:2018 standards by ELOT and with the Environmental Management System in accordance with the EN ISO 14001:2015 by ELOT. In addition, the company's compliance with the EU health and safety requirements has been certified since early 2008, by adding the CE sign on all our products.

Regarding the universal quality assurance of our services and the excellent service we provide, a fully organized network of experienced partners, expanding throughout Greece, but also in major European cities, undertakes the elaboration of technical-economic studies, places our products, while providing comprehensive after-sale service, always under the supervision and the requirements determined by Thermoplastiki.



Frame Energy Identity Label

In order to fully inform and ensure each customer about the certified properties of an integrated frame, the company places the self-adhesive Energy Identity Label, which includes an extensive set of information about the properties of the respective frame exclusively, according to the respective standards of each category.

Specifically, the products manufactured by the company are standardized and identified in accordance with the standards EN 14351-1:2006, EN ISO 10077-1 and EN ISO 10077-2 of ELOT, as detailed in the Technical Specifications of Frames and bear an Energy Identity Label and a Characterization Label of the product.

The average amount of the products most commonly marketed should be classified as class E - C. The best products most commonly marketed are classified in class A, while the windows of the "Passive House" are classified in class A+ and can reach class A++.

Energy Class	A++	A+	A	B	C	D	E	F	G
Max U-value	0,8	0,9	1,1	1,3	1,5	1,7	1,9	2,1	2,3

The characteristics indicated are:

1. U Window (Uw) thermal transmittance in W/m²K
2. Resistance to wind pressure
3. Water resistance
4. Sound insulation or sound reduction
5. Air permeability

At the same time, the indication of the CE European Safety and Quality Certificate is also placed, along with the contact details of Thermoplastiki as a manufacturer, and the relevant Declaration of Performance, in accordance with EU Regulation 305/11, as well as the harmonized quality standard. The validity of the label is identified by the Order Number and the individual Serial Number.





uPVC FRAMES



Thermoplastiki manufactures integrated uPVC frames, focusing on the certified quality of raw materials as well as the production and application process. Our philosophy is the creation of frames that will provide you safety, protection and high energy efficiency.

The innovative design and wide choice of styles and colors allows us to offer you a wide range of specialized solutions, always aiming ultimately at functionality and aesthetic quality.

Manufactured in Greece by Thermoplastiki.

USEFUL INFORMATION

GREAT DURABILITY

The uPVC frames are durable in time, against use and all climatic conditions, which is why the company accompanies them with a **10-year positive signed guarantee of good operation**. An important advantage of polyvinyl chloride (PVC) is that it does not deteriorate over time and requires minimal maintenance. It is no coincidence that they are also suitable for placement in seaside homes, as they are not damaged by salt.

ROBUST CONSTRUCTION

The uPVC frames are reinforced with hot galvanized iron with thickness of 1.5mm to 3mm (depending on the construction). Thus, they remain unchanged while maintaining their static resistance over time.

SHADE GUARANTEE

The company produces with the best raw materials and the products are accompanied by a 10-year guarantee.

SECURITY LEVELS

Ideally, it would be advisable to take into account the estimates on burglary resistance from the planning stage of the protection of your home.

The security level categories are Basic Security, RC1/N, RC2 and RC3 [the maximum provided by the Gladia armored door].

The usual category of frames is Basic Security. In Thermoplastiki, we provide the "plus" category as in the frames manufactured by the company, there is an additional lock and safety faceplate.

For a higher level of security (up to RC2), choose - upon order - a perimeter mechanism with special locks around the sash and special faceplates on the casement.

THERMAL TRANSMITTANCE

uPVC frames, due to the nature of the material, achieve very high U_w heat transfer resistance.

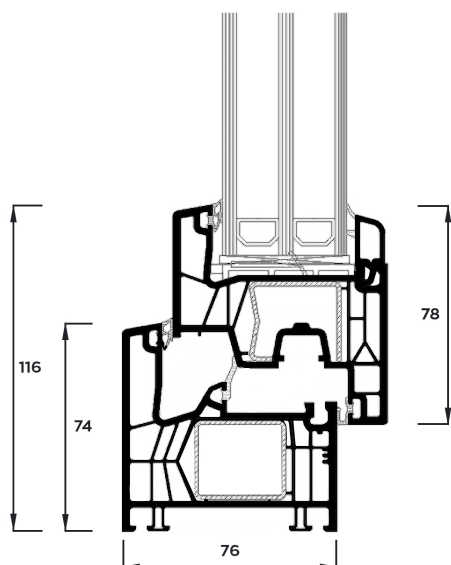
uPVC TILT & TURN

KÖMMERLING 76MD

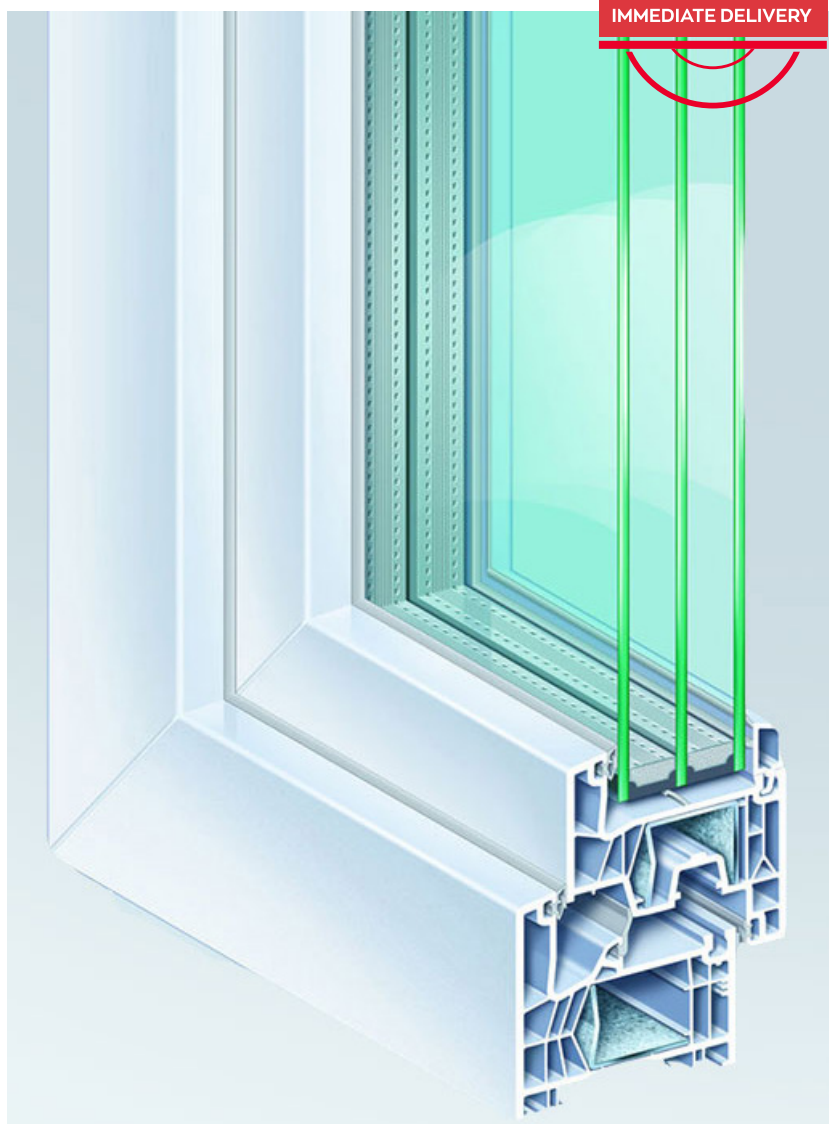
Top thermal insulation
& Economy

The uPVC French window frame 76MD with a total face width of 116mm, is a complete ecological solution with excellent thermal insulation and sealing properties, which are complemented by the important performances in anti-burglary protection up to RC2, sound insulation and durability in time. The frame is available in a wide variety of ready-to-deliver colors (**11 colors**) offering the corresponding aesthetic effect to the building.

- Triple glass pane option (up to 48 mm)
- 3 integrated PCE sealing gaskets
- For maximum thermal insulation & shading, choose the corresponding thermal insulation roller shutter box by Thermoplastiki
- For the maximum possible thermal transmittance ($\psi_v = 0.92 \text{ W/m}^2\text{K}$), choose Thermix spacer
- Low maintenance cost
- 150kg mechanism



IMMEDIATE DELIVERY



High Energy Efficiency

$U_w = 0,92 \text{ W/m}^2\text{K}$

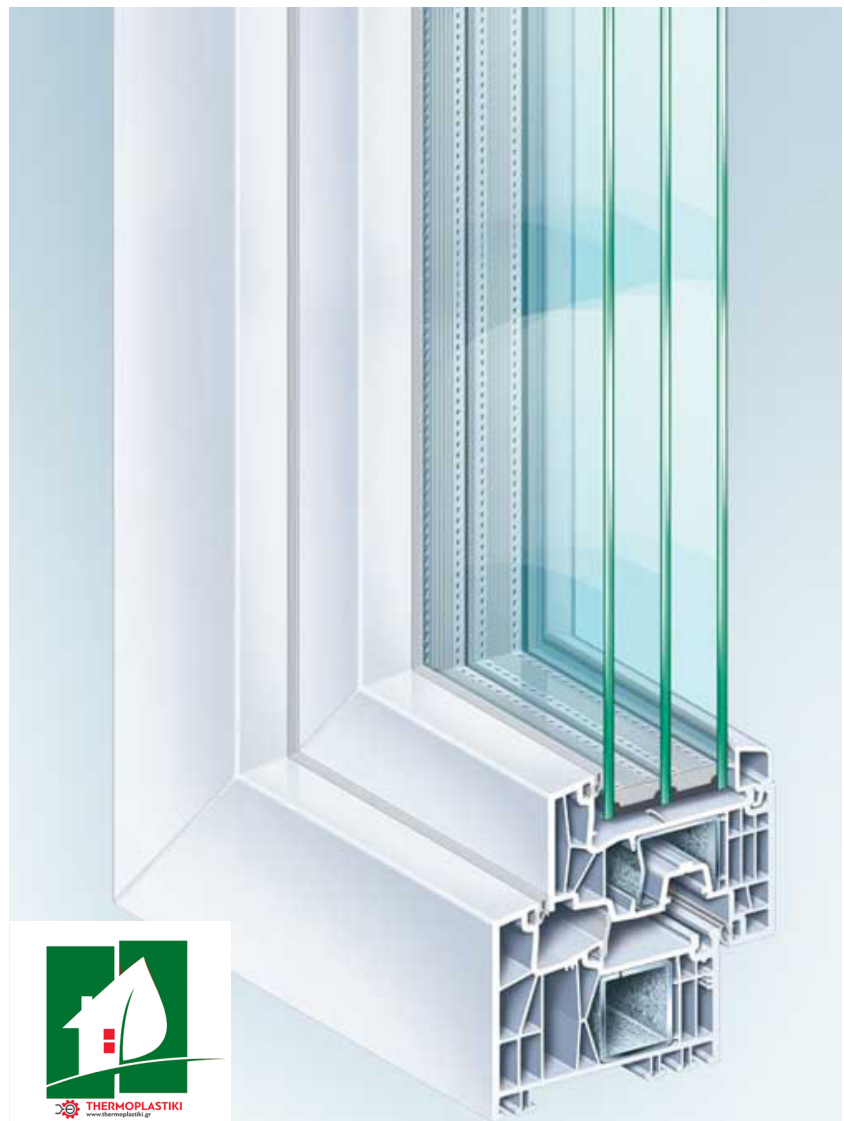
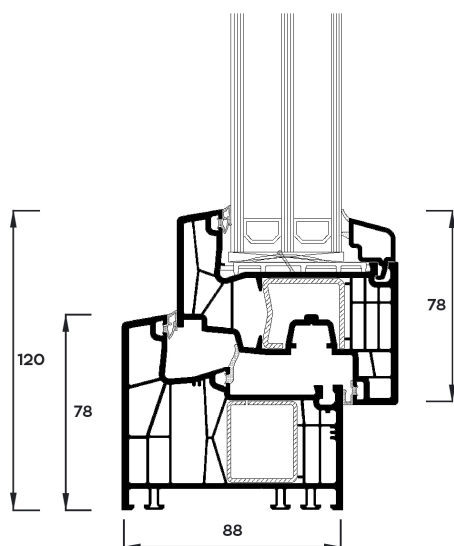
Single sash TT with dimensions: 900mm x 1200mm, $U_g = 0,6 \text{ W/m}^2\text{K}$ and $\Psi_g = 0,04 \text{ W/mK}$ (thermix)

KÖMMERLING 88MD

Maximum thermal insulation: The solution for passive buildings

The uPVC French window KÖMMERLING 88 with a total face width of 120mm, is a complete ecological solution with excellent heat-insulating, soundproofing and waterproof properties, which are complemented by the important performances in anti-burglary protection up to RC2, sound insulation and durability in time. The possibility of installing triple glass pane is recommended for this series. The frame is offered in a variety of 4 ready-to-deliver colors.

- Double or triple glass pane option (up to 56 mm)
- 3 integrated PCE sealing gaskets
- For unlimited color options, the **Aluclip** series is recommended, with the outer aluminum casing
- For the maximum possible thermal insulation of the 88MD, the Aluclip ProEnergy Tec version with special foam in the reinforcement chamber of the casement or the sash is recommended
- 150kg mechanism



High Energy Efficiency

$U_w = 0,86 \text{ W/m}^2\text{K}$

*Aluclip ProEnergy Tec $U_w = 0,71 \text{ W/m}^2\text{K}$

Single sash TT with dimensions: 900mm x 1200mm,
 $U_g = 0,6 \text{ W/m}^2\text{K}$ and $\Psi_g = 0,04 \text{ W/mK}$ (thermix)

uPVC TILT & TURN

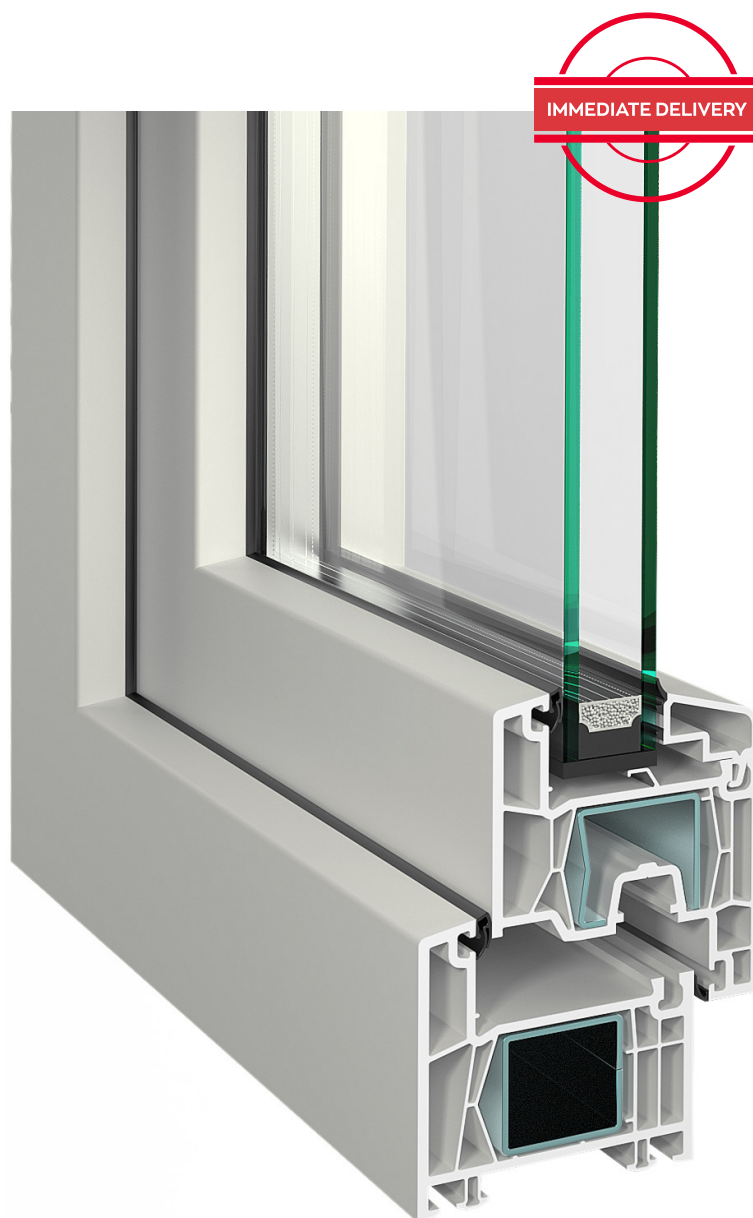
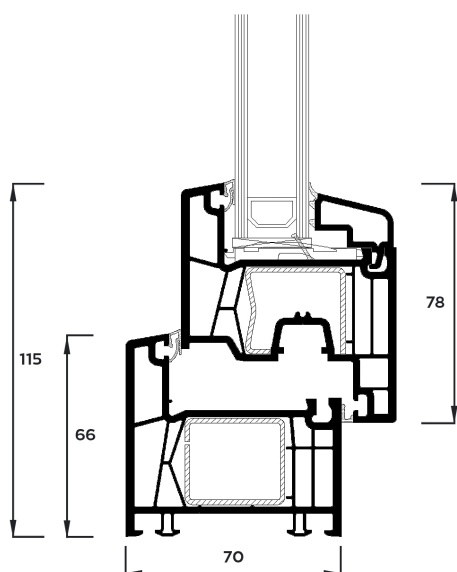
KÖMMERLING 70 ECONOMY

The economic choice

The uPVC French window frame KOMMERLING 70 Economy with a total face width of 115mm is an ecological, but at the same time economical solution without the slightest compromise on the quality and reliability of the final product.

The frame is offered in a variety of 3 ready-to-deliver colors.

- Double glass pane (up to 24 mm)
- Option for construction of a fixed - tilt and turn frame and 150kg PASK
- Economic solution
- Option for a wide casement enabling the combination with an external roller box
- 150kg mechanism



High Energy Efficiency

$U_w = 1,40 \text{ W/m}^2\text{K}$

Single sash TT with dimensions: 900mm x 1200mm, $U_g = 1,0 \text{ W/m}^2\text{K}$ and $\Psi_g = 0,11 \text{ W/mK}$



TILT & SLIDE uPVC

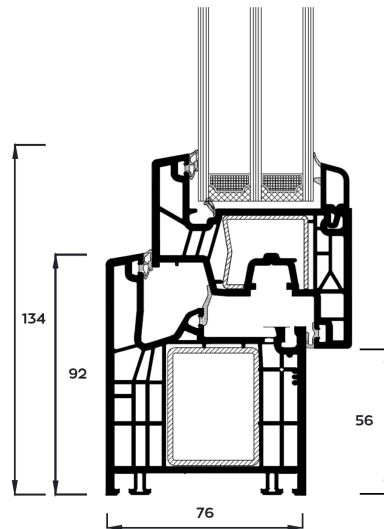


PASK/VW 76 MD

The ideal solution for large openings with a tilt-and-turn system profile, with excellent performance and functionality.

Sealing, thermal insulation and anti-burglary protection are the three properties that makes the sliding and tilting French window frame KOMMERLING 76MD a top choice.

- Double or triple glass pane option (up to 48 mm)
- Ultimate sealing with 3 integrated PCE sealing gaskets



PASK/VW 76MD 200KG



High Energy Efficiency
 $U_w = 0,78 \text{ W/m}^2\text{K}$

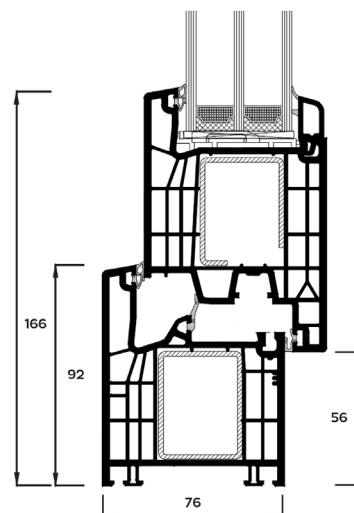
Tilt & Slide with dimensions 3790mm x 2200mm, $U_g = 0,6 \text{ W/m}^2\text{K}$ and $\Psi_g = 0,04 \text{ W/mK}$

PASK/VW 76MD 150KG



High Energy Efficiency
 $U_w = 0,80 \text{ W/m}^2\text{K}$

Tilt & Slide with dimensions: 2700mm x 2200mm, $U_g = 0,6 \text{ W/m}^2\text{K}$ and $\Psi_g = 0,04 \text{ W/mK}$



LIFT & SLIDE uPVC

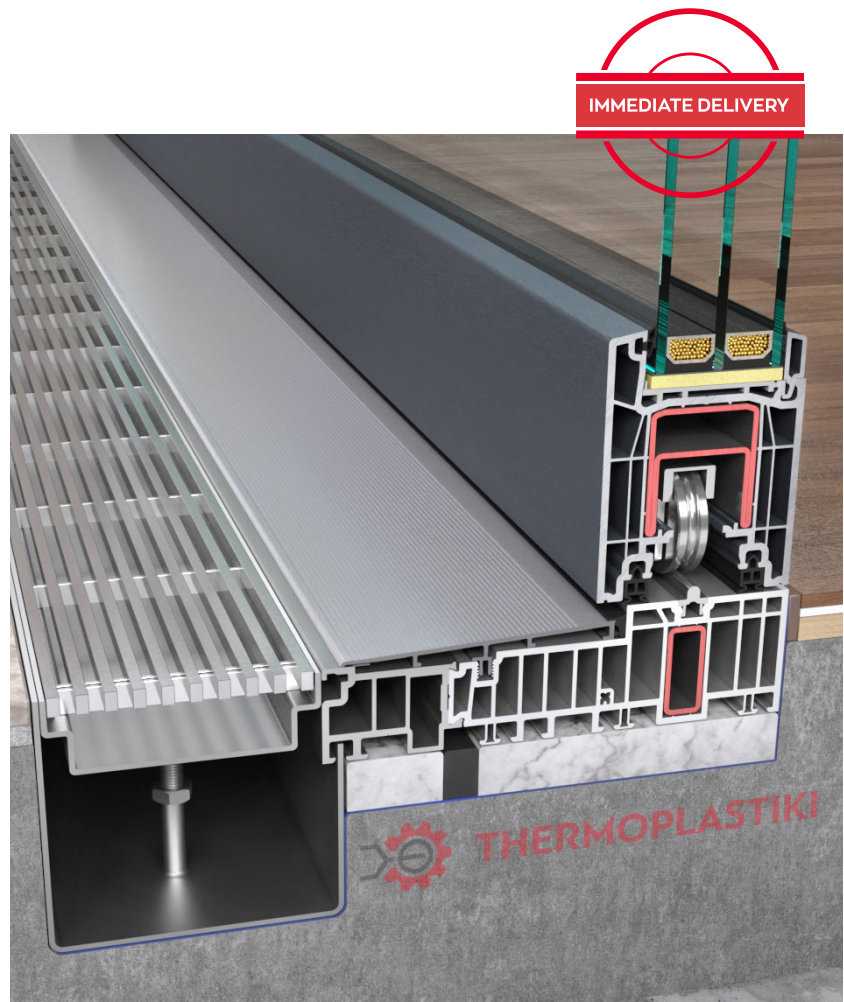
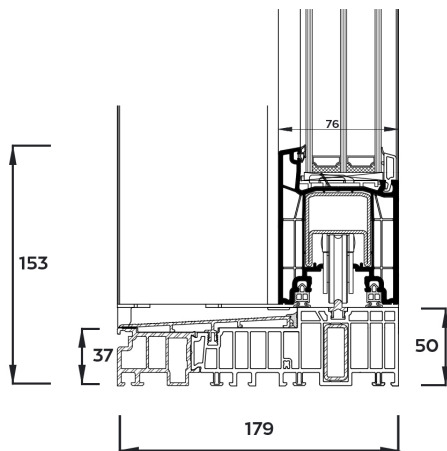
PREMIDOOR 76

Lift & Slide

High thermal insulation, waterproofing, functionality and aesthetic quality with **9 ready-to-deliver colors**.

It has a total face width of 153 mm, while it offers easy rolling and significant performances in sound insulation and durability.

- Double or triple glass pane option (up to 50mm)
- Ideal choice for covering large openings
- Mechanism of 300kg/sash in standard edition
- Easy passage, thanks to the possibility of casement formwork (50 mm on the floor)
- Possibility of construction with both sashes movable
- **Combine with a rainwater drain grate to achieve maximum waterproofing and flatness**



High Energy Efficiency

$U_w = 0,88 \text{ W/m}^2\text{K}$

Lift & Slide with dimensions:

3000mm x 2200mm,

$U_g = 0,6 \text{ W/m}^2\text{K}$ and $\Psi_g = 0,04 \text{ W/mK}$

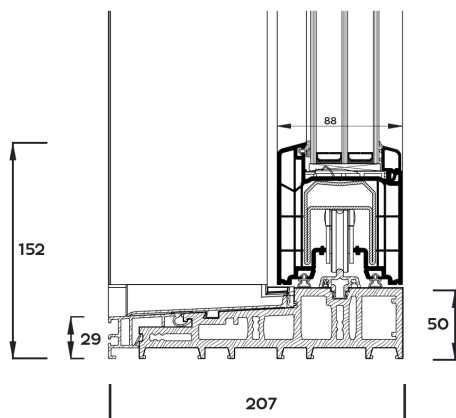
PREMIDOOOR 88

Lift & Slide

Maximum thermal insulation performance, waterproofing and functionality. It has a total face width of 152 mm, while it offers easy rolling and demonstrates sound insulation and durability performance.

It provides high aesthetic quality and it is supplied in a variety of colors upon request.

- External Face option with **Aluclip** for unlimited color options
- Double or triple glass pane option (up to 56mm)
- Mechanism of 300kg/sash in standard edition
- Ideal choice for covering large openings
- Easy passage, thanks to the possibility of casement formwork (50 mm on the floor)
- **Combine with a rainwater drain grate to achieve maximum waterproofing and flatness**



High Energy Efficiency

$U_w = 0,86 \text{ W/m}^2\text{K}$

Lift & Slide with dimensions:

3000mm x 2200mm,

$U_g = 0,6 \text{ W/m}^2\text{K}$ and $\Psi_g = 0,04 \text{ W/mK}$

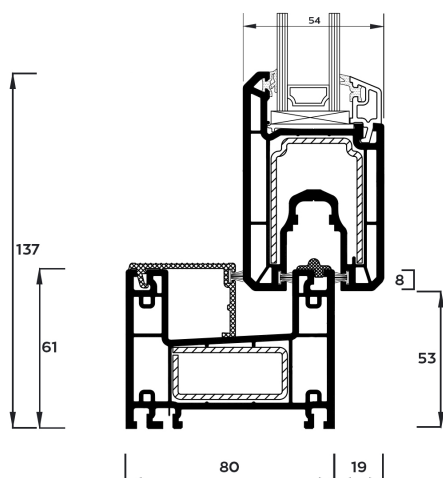
SLIDING uPVC

PREMILINE

Sliding frame with three configuration options according to the requirements of each space. It is a "value for money" option with a high competitive thermal insulation performance.

With a total face width of 137mm, it is available in **10 ready-to-deliver colors**.

- Total face Width 137mm
- Double or triple guide rail option
- Double glass pane (24mm)
- In the options with an aluminum low plinth, the movement is made on Inox guide rails



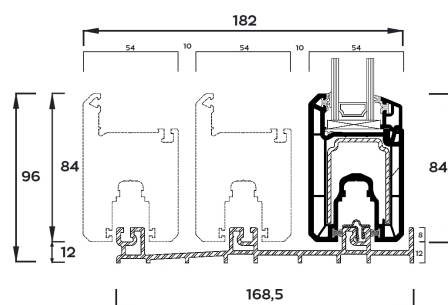
High Energy Efficiency

$U_w = 1,48 \text{ W/m}^2\text{K}$

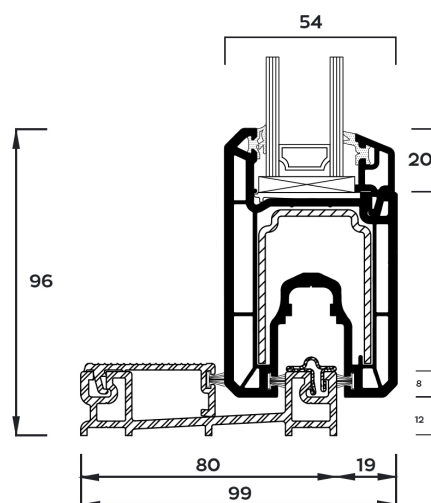
Sliding with dimensions: 3000mm x 2200mm,
 $U_g = 1,0 \text{ W/m}^2\text{K}$ and $\Psi_g = 0,11$



**PREMILINE 3PLE GUIDE RAIL
ALUMINUM LOW-PLINTH**



**PREMILINE ALUMINUM
LOW-PLINTH**





RESIDENTIAL DOORS

USEFUL INFORMATION

DOOR - PANEL DESIGNS

Choose the door design that suits the aesthetics of your home from the wide range of uPVC or aluminum panels.

*In colored doors, it is recommended to use aluminum panels with lining Foil for high aesthetics, absolute uniformity and durability.

*In dark colors, it is recommended to use glass modules for better management of contractions and expansions.

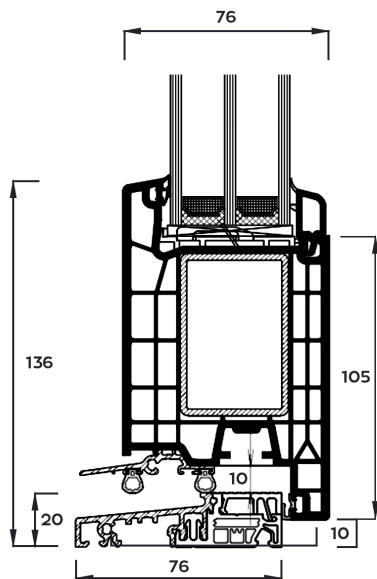


MAIN ENTRANCE 76AD

High thermal insulation and security performance and great value for money

Main entrance KÖMMERLING 76 AD with a total face width of 136mm, is a complete ecological solution with excellent heat-insulating, sound-insulating and waterproof properties, which are complemented by the important performance in anti-burglary protection up to RC2, sound insulation and durability in time.

- Double or triple glass pane option (up to 48 mm)
- Thermal low plinth with a removable cap
- Application of a mechanism including an automatic three-point lock and external hinges with a maximum weight of 160kg
- Possibility of incorporating panels 24mm or 44mm thick



IMMEDIATE DELIVERY



High Energy Efficiency

Ud = 0,96 W/m²K

Glazed residential door with dimensions 1000mm x 2200mm, Ug = 0,6 W/m²K and Ψg = 0,04 W/mK

Ud = 1,40 W/m²K

Residential door with panel and dimensions 1000mm x 2200mm & Up = 1,23 W/m²K

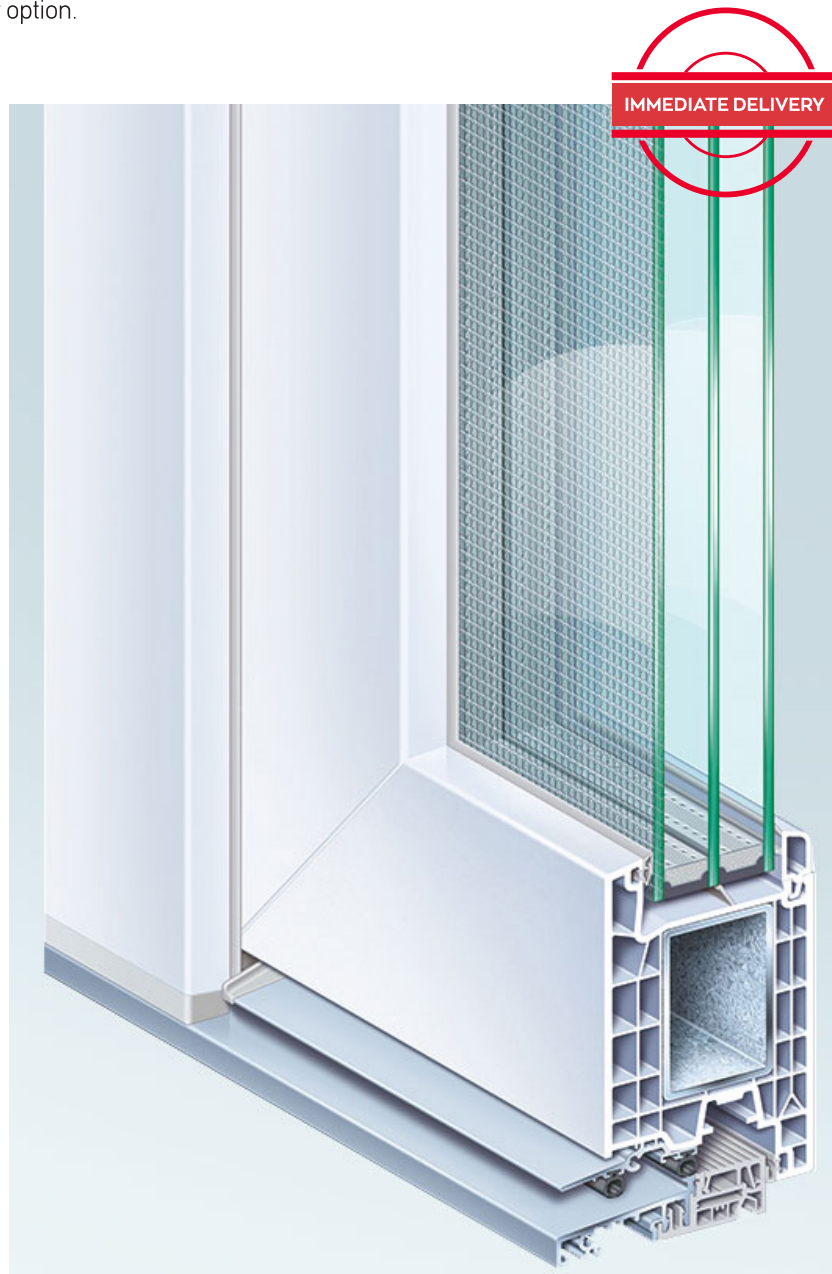
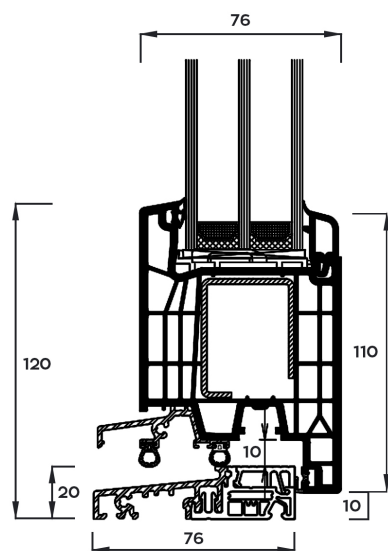
For even greater security, combine the main entrance 76AD with a Security Cylinder, a Defender Security Cap and a Multipoint Locking System.

RESIDENTIAL DOOR 76MD

(Side door)

Side entrance 76MD with a total face width of 120mm, with high heat-insulating, sound-insulating, sealing and anti-burglary performances. With high durability, it is an economical and highly functional residential door option.

- Double or triple glass pane option (up to 48 mm)
- Thermal low plinth with a removable cap
- Application of a mechanism including an automatic three-point lock and external hinges with a maximum weight of 100kg
- Possibility of incorporating panels 24mm or 44mm thick



High Energy Efficiency

$U_d = 0,92 \text{ W/m}^2\text{K}$

Glazed residential door with dimensions
1000mm x 2200mm,
 $U_g = 0,6 \text{ W/m}^2\text{K}$ και $\Psi_g = 0,04 \text{ W/mK}$

$U_d = 1,37 \text{ W/m}^2\text{K}$

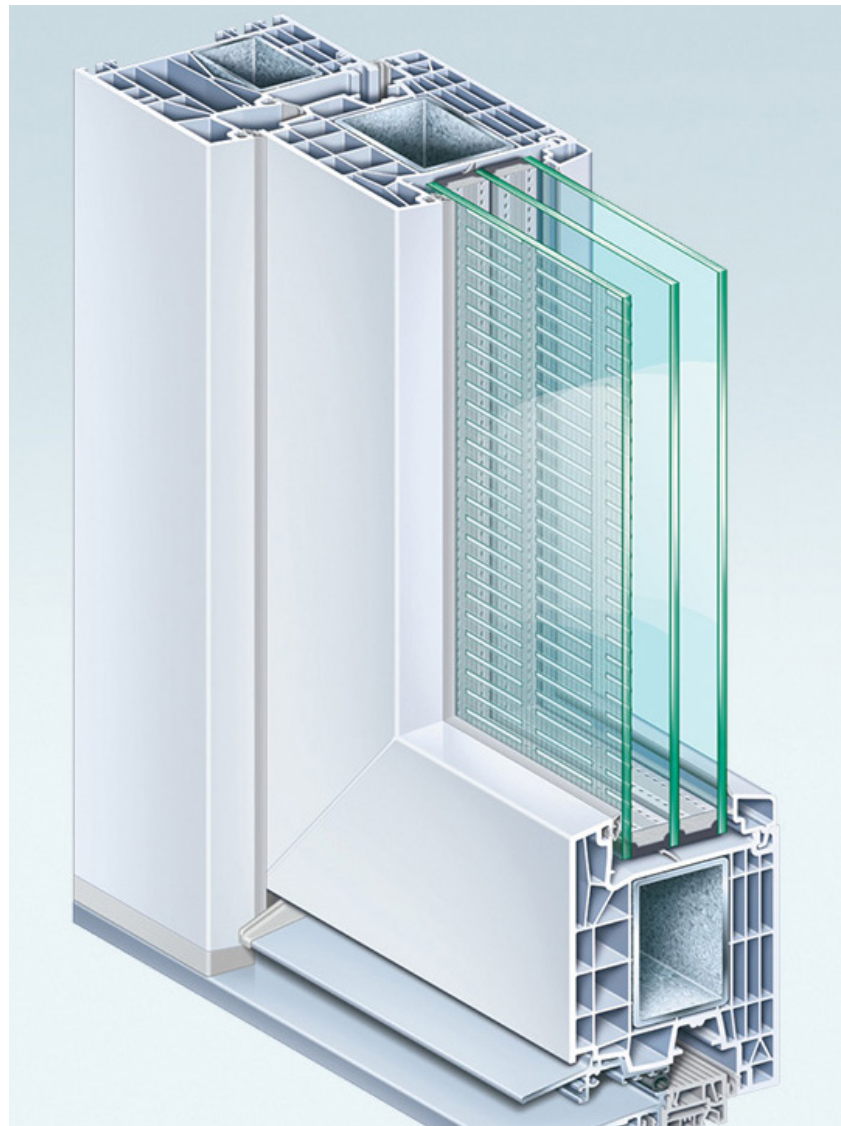
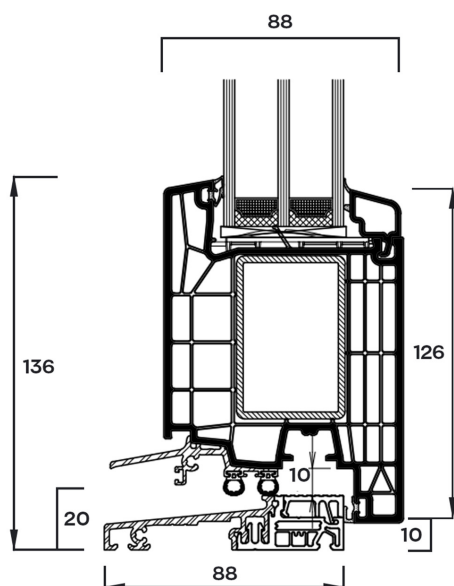
Residential door with panel and dimensions
1000mm x 2200mm & $U_p = 1,23 \text{ W/m}^2\text{K}$



MAIN ENTRANCE 88MD

The main entrance KÖMMERLING 88 MD with a total face width of 136mm, is a complete ecological solution with the best thermal insulation performance, in the category of uPVC doors. The frame is complemented by equally high soundproofing and waterproofing properties, as well as anti-burglary protection.

- Triple glass pane option (up to 54 mm)
- Thermal low plinth with a removable cap
- Application of a mechanism including an automatic three-point lock and external hinges with a maximum weight of 160kg
- Possibility of incorporating panels 24mm or 44mm thick
- Option of external face with Aluclip



High Energy Efficiency

$U_d = 0,92 \text{ W/m}^2\text{K}$

Glazed residential door with dimensions 1000mm x 2200mm,
 $U_g = 0,6 \text{ W/m}^2\text{K}$ and $\Psi_g = 0,04 \text{ W/mK}$

$U_d = 1,35 \text{ W/m}^2\text{K}$

Residential door with panel and dimensions 1000mm x 2200mm & $U_p = 1,23 \text{ W/m}^2\text{K}$

SAFETY UPGRADE

Combine the security solutions from Thermoplastiki and upgrade the security of the entrance (76AD and 88MD).



The Security Cylinder comes with 5 keys and a security card and has a long neck to work with the Defender. It is anti-burglar, as, if it is breached, it breaks and locks.

Defender offers excellent anti-drilling and cylinder lock breakage defence.

Combining them with the multipoint locking system you upgrade the security of your doors even in the existing entrances provided by Thermoplastiki!



**ANTI-BURGLAR
SECURITY CYLINDER**














DEFENDER



**MULTIPOINT LOCKING
SYSTEM**

COLOR RANGE FOR uPVC FRAMES

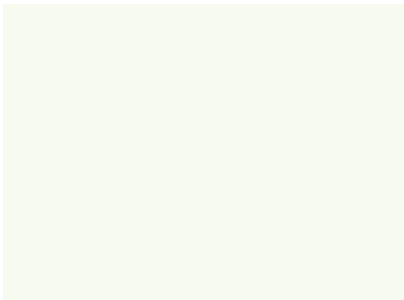
		White	Golden oak 032	Nussbaum 052	Anthracite grey 016	Dark green (Dunkelgrün) 058	Grey 021	Cremeweiß 167	Metbrush silver	Brilliant blue 085	Quartz Grey	White Foil
												
TILT & TURN	KÖMMERLING 88 * (ProEnergy Tec)	✓										
	KÖMMERLING 88 AluClip *	✓										
	KÖMMERLING 88MD	✓	✓	✓	✓							
	KÖMMERLING 76MD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	KÖMMERLING 76AD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SLIDING	KÖMMERLING 70 ECONOMY	✓	✓	✓								
	PREMILINE ALUMINUM LOW-PLINTH	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
	PREMILINE 3PLE GUIDE RAIL ALUMINUM LOW-PLINTH	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
	PREMILINE	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
	PREMIDOOR 76 (Lift & Slide)	✓	✓	✓	✓		✓	✓	✓		✓	✓
PASK / VW	PREMIDOOR 88 ** (Lift & Slide)											
	76MD 200KG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	76MD 150KG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RESIDENTIAL DOORS	RESIDENTIAL DOOR 76MD (Side Door)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	MAIN ENTRANCE 76AD	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
	MAIN ENTRANCE 76AD AluClip Zero **	✓										
	MAIN ENTRANCE 88	✓	✓	✓	✓							
	FOLDING 76AD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

* External side in all shades of aluminum

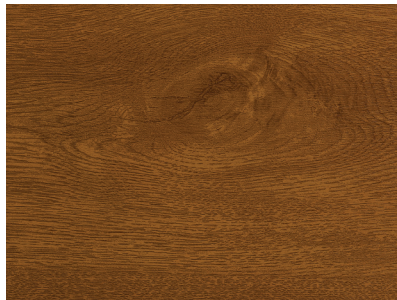
** Upon order

Some color variations are possible due to printout.

DETAILED COLOR RANGE



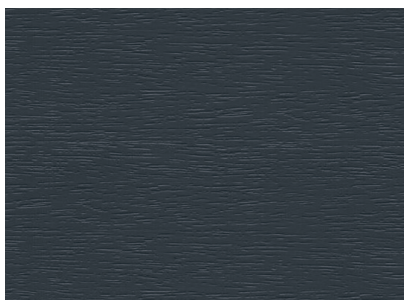
White



Golden oak 032



Nussbaum 052



Anthracite grey 016



Dark green (Dunkelgrün) 058



Grey 021



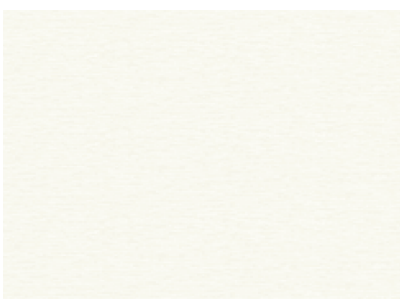
Cremeweiß 167



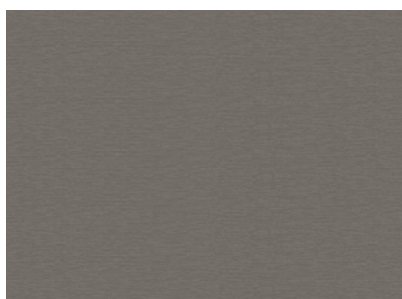
Metbrush silver



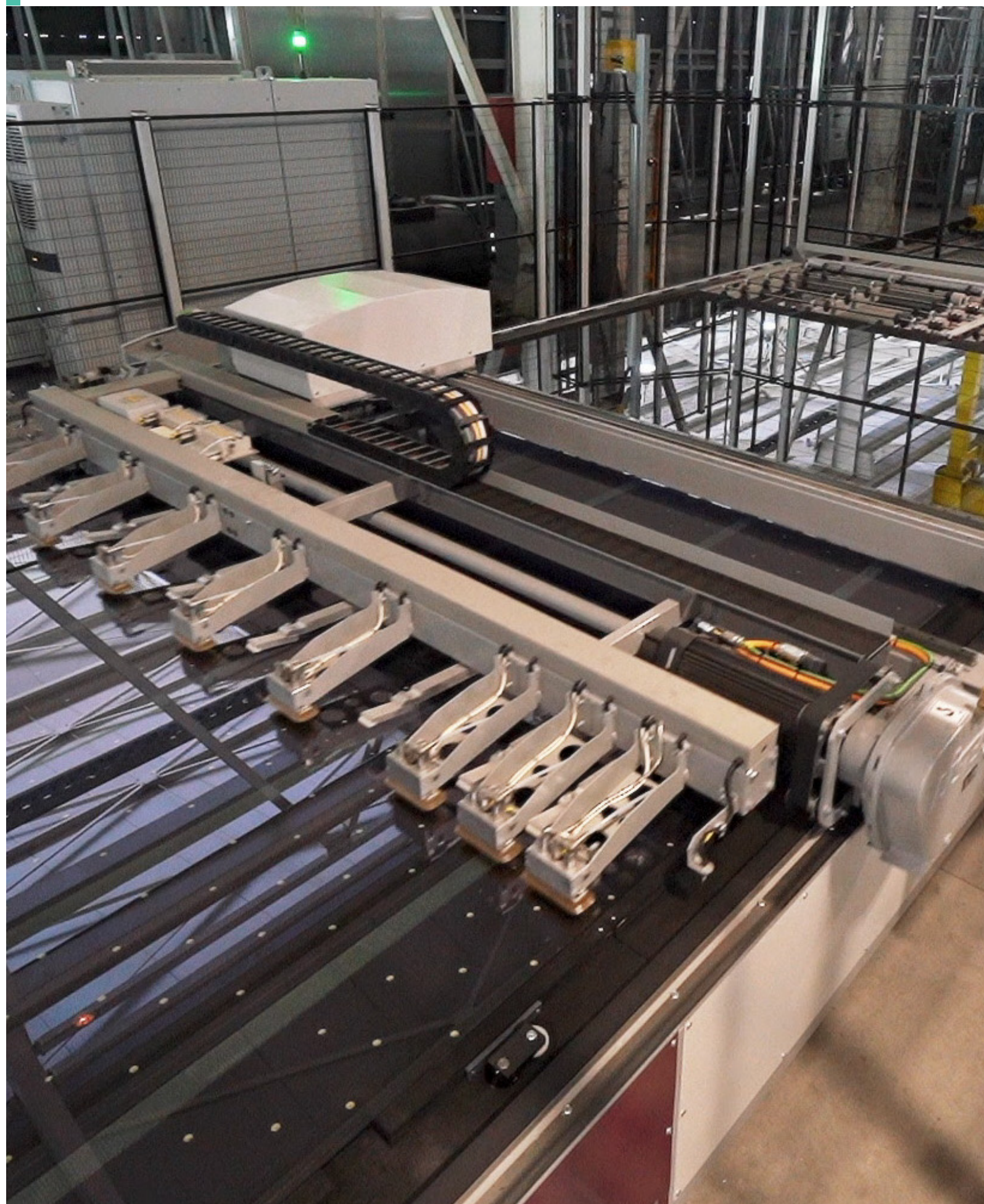
Brilliant blue 085



White Foil



Quartz Grey



GLASS PANES



Thermoplastiki ensures the complete coverage of the needs of each space, accompanying its frames with high-quality glass panes. From the selection of the top energy properties of solar more glass panes, to the specialized functionality of specialist and triplex glass panes, our aim is to offer comprehensive functionality, which will upgrade both the space and the quality of life in it.

**Manufactured in Greece by
Thermoplastiki.**

USEFUL INFORMATION

GLASS PANES AND SOUNDPROOFING OF RESIDENCE

Glass panes occupy the largest area of a frame. By choosing triplex double or triple glass panes with a sound-insulating membrane, you will enjoy the desired tranquility in your space.

ARGON GAS

The energy glass panes manufactured by Thermoplastiki always include the automated addition of Argon gas (90%), inside the spacer of the double or triple glass pane.

TRIPLE GLASS PANE

If you choose a triple glass pane, combine it with 2 energy glass panes (inside and outside) and with Thermix thermal spacer for the optimum thermal insulation effect.

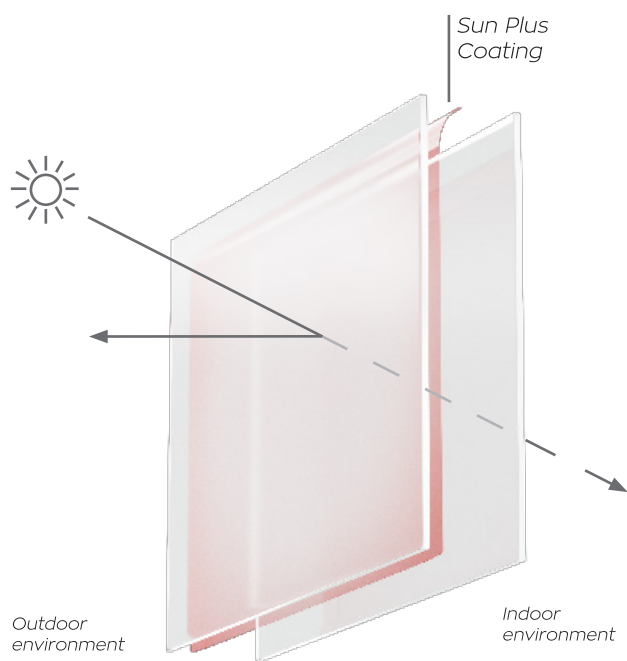


GLASS PANES

Top Performing Energy Glass Panes.

Glass panes occupy the largest area of a frame. In practice, this means that they largely determine the overall energy efficiency of the frame, as well as the soundproofing effect.

We seek the best final result by taking care of the integrated coverage of the needs of any space. All the frames we manufacture exclusively come with glass panes produced in the company's state-of-the-art, privately-owned unit in Amygdaleonas, Kavala.



Sun Plus

Top comfort in summer & thermal insulation in winter

- 1 Visual Comfort**
High light permeability and neutrality in appearance, while reflecting infrared radiation helping to save energy and reduce CO2 emissions.
- 2 Top thermal insulating features**
Three times the insulation of a typical double glass pane.
- 3 Energy and cost savings**
Low consumption and reduction of heating, cooling and CO2 emissions costs.

	TL Light Permeability [%]	Solar Coefficient g	Thermal Insulation Coefficient U [W/m²K]
SUN PLUS	70	0,37	1,0

DGU Double Glass Pane: 4mm - 15mm Argon 90% - 5mm Sun Plus

Sun Plus glass panes are designed for double or triple glazing and perfectly accompany any frame (Fiber Glass Reinforced, uPVC or Aluminum) manufactured by Thermoplastiki.

Sun Plus coating is always applied in position no. 2 of the double or triple glass pane.

Low e

Maximum energy efficiency & light

Low-e glass panes are designed for **double or triple glazing** and perfectly accompany any frame (Fiber Glass Reinforced, uPVC or Aluminum) manufactured by Thermoplastiki.

With low-emission glass panes, we achieve **reduction of energy consumption** and, consequently, **reduction of heating costs**, combined with the creation of comfortable living conditions during the winter months, thanks to the **use of sunlight**.

1 **Excellent Energy Efficiency and Economy**

It combines the highest level of energy efficiency while significantly reducing energy consumption, heating costs and, consequently, CO2 emissions.

2 **Unique Aesthetics**

Low-e coating has a completely neutral aesthetic. Color performance during transmission and reflection is particularly high.

Composition (mm)	Gas filling	Value Ug W/(m²K)	Light transmission (%)	g value (%)	Light reflection (%)
5/15/*4	Argon > 90 %	1,1	81	64	12
4*/16/5/15/*4	Argon > 90 %	0,6	73	53	16
5/15/5/15/*4	Argon > 90 %	0,9	74	59	16

Values are calculated in accordance with EN410-2011 and EN673-2011 standards.
* Coating position

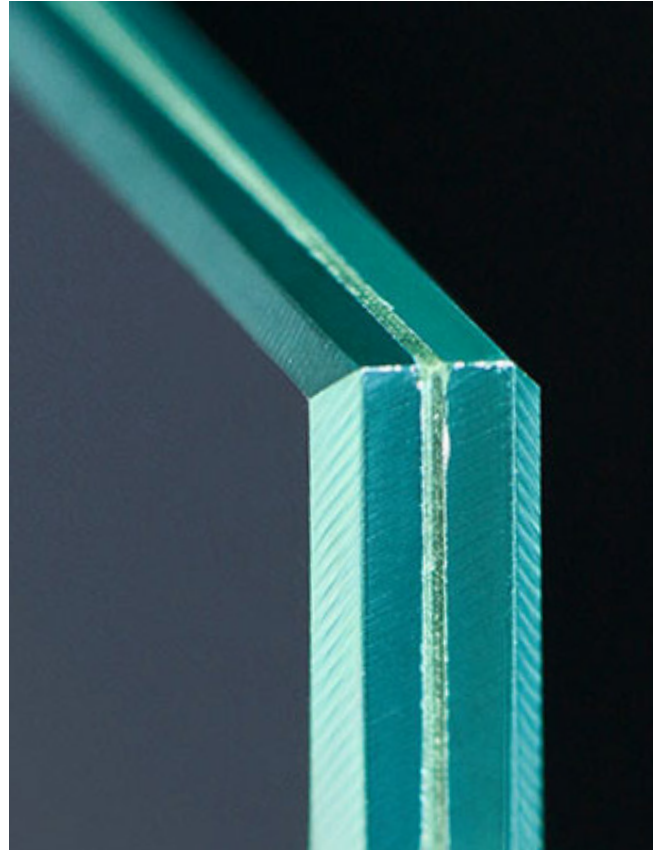
Our Proposal

Triple energy efficient glass panes with **Sun Plus - Low e technology & Thermix spacer.**

Unparalleled thermal protection and high durability.

Triplex glass panes

The enhanced protection and security proposal of Thermoplastiki



Soundproof structure

Triplex security is not limited to material threats only. Soundproofing is also guaranteed with this option. The excellent reflective property of the membrane creates a shield and blocks sound waves, to provide a peaceful interior, free from any external disturbance.

Bulletproof structure

Manufactured under extremely high pressure and temperature, bullet-proof triplex glass panes provide excellent protection in case of increased need for security. The amount of layers and PVB membranes determine the security level of the glass pane.

Break-proof structure

Internal film layers secure the glass structure even in case it breaks. The broken glass pane stays in place without breaking into fragments, to prevent from any injuries and to ensure protection against burglary, even when broken.

Wind-resistance structure

The durability of triplex glass panes can protect your space from high-speed gusts of wind, reducing the bending strength of the glass pane. In this way, the large dimensions of the frames pose no restriction anymore.

The Argon gas

Thermoplastiki, in addition to the advanced glass panes that manufactures in its integrated and state-of-the-art production unit, provides all energy glass panes with the automated addition of Argon gas (90%), within the spacer of the double or triple glass pane. Argon gas is an innovative solution in the thermal insulation industry, improving the double Sun Plus energy-efficient glass pane thermal transmittance properties by 25%.

The Thermix Warm Edge Spacer

To improve the U_w factor to the maximum, the company uses Thermix warm edge spacers, practically reducing the energy cost of the building and upgrading the indoor climate. The convection coefficient Ψ_g is 0.040 W/mK.

Thermix spacer prevents or limits the phenomenon of liquefaction inside the space.



Specialized Glass Panes

Ideal solutions
for any type of construction.

Tempered Glass Panes

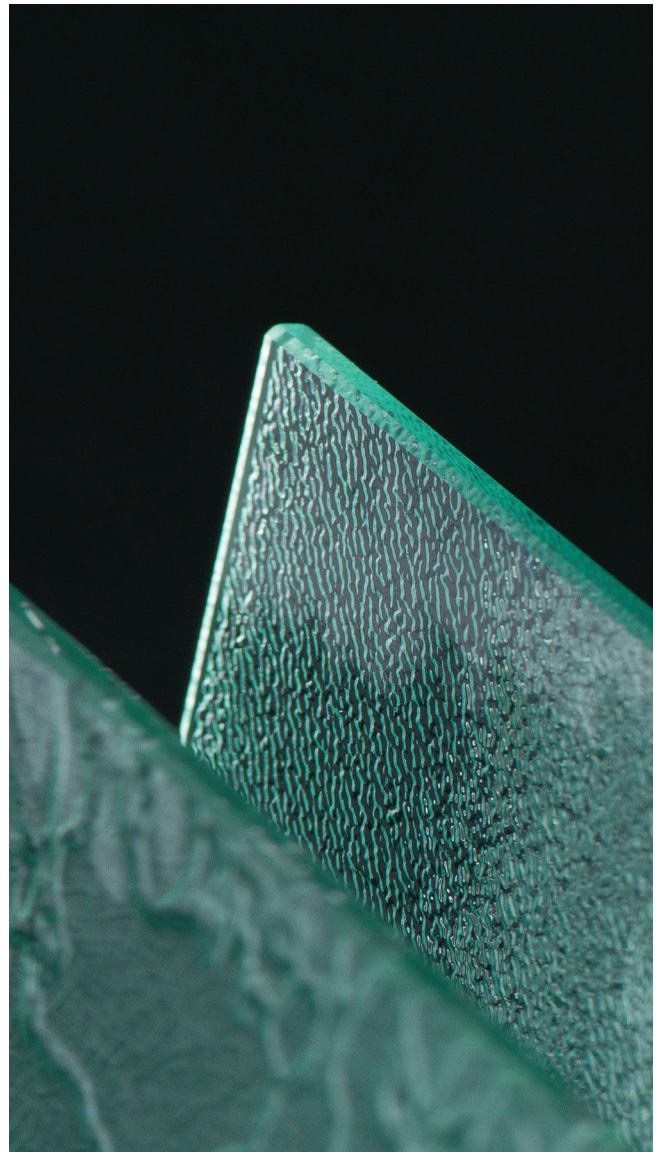
Tempered glass panes are produced by thermal processes where the hardening of their structure is achieved. First, they are baked in a special oven and then they are cooled in order to achieve the desired result. In addition, energy coating (Sun Plus - Low-e) can be applied to tempered glass panes, double or triple. In case of breakage they crumble, preventing possible injuries. They are the best choice for Architectural Frames.

Stop Sol

Reflective stop sol glass panes are ideal for cases where you want the privacy of the interior, as they prevent visibility from the outdoor environment. They also reflect a significant part of sunlight, thus blocking harmful radiation.

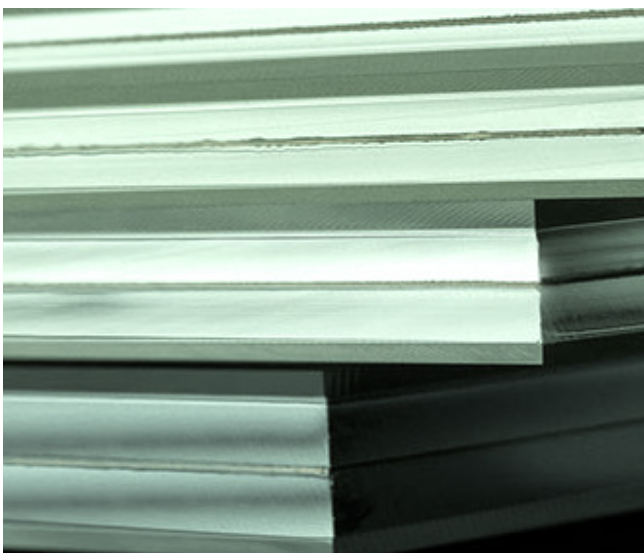
Graded Light Transmittance Glass Panes

Graded light transmittance glass panes consist of specially-treated matte glass strips, which allow just a portion of sunlight to enter, offering limited visibility with a blurring effect. This application is ideal for both internal and external applications. They are the best choice for Architectural Frames.



Glass panes that prevent burglars and ensure security

The composition of Triplex (Laminated) glass panes is based on the inner membrane. In case of breakage, the glass pane stays in place without breaking into fragments. This prevents both violation by would-be intruders and possible injuries. Triplex glass panes can be combined with the Sun Plus energy coating, as well as with the soundproofing membrane, as an investment in the quality of the indoor environment.



Triplex (Laminated) or Tempered Glass Panes?

Both of these types of glass panes offer security, while in case of breakage they ensure the prevention of injuries. If the main concern is the security of your place, then triplex glass panes are recommended due to their structure. For particularly large dimensions (Architectural Frames), tempered glass panes are recommended. Due to their processing, they have higher tensile strength and resistance to wind pressure, while no doubling of thickness is required compared to triplex glass panes. This results in a significant reduction in kilograms per square meter.

What does Solar Factor mean?

The solar factor is the indicator that measures the percentage of solar energy that penetrates the glass pane of a frame to the interior, in relation to the total incident solar radiation. The lower its value, the higher the sun protection offered by the frame.

The solar factor of Thermoplastiki's double Sun Plus glass panes is 0.39 (39%), while that of triple glass panes is 0.36 (36%).

MODERN SHADING SOLUTIONS

Variety of typologies to
combine harmoniously with
any frame.

The prime objective of the solutions we offer is visual comfort, shading and the overall protection of your space not only against any potential intruder.

With the use of top-quality mechanisms and accessories as well as certified raw materials and manufacturing processes, the final products are characterized by ergonomics, aesthetics, functionality and durability.



Thermoplastiki has been active for almost
40 years in the manufacture of roller shutters
and garage doors made of aluminum and uPVC.

Advanced Roller Shutters

Useful Information

The Perforated Roller Shutter Slat

Straight or curved, it offers high aesthetics, unlimited color choices and natural ventilation of the space. Moreover, the straight perforated roller shutter slat ($\Delta 25$ and $\Delta 30$) is almost silent when moving.

The “Smart” Roller Shutters

For easy roller shutter management even remotely via smartphone, choose an electric motor in combination with the TAHOMA automation system, to create personalized scenarios that will simplify your everyday life.

Superjacent or External Roller Shutter Boxes

When the opening is small in height, then it is recommended to use an external box for a larger passage in height compared to the superjacent box. It also offers better insulation results. If you are particularly interested in the aesthetics of the building and do not want visible roller shutter boxes, then the choice of a thermal insulated superjacent roller shutter is recommended.

Maximum Roller Shutter Dimensions

By use of the T16, roller shutters of up to 2m width are manufactured. By use of the T19, roller shutters of up to 2.5m width are manufactured. If the opening is up to 4.5m wide, choose the T77 slat, which is also ideal for garage doors. All three of these slats contain polyurethane for extra insulation and economy.

Thermal Insulated Roller Shutters

For maximum thermal insulation, choose either a uPVC thermal insulation roller shutter box with insulating material (Expanded Polystyrene feliblok or Graphite Expanded Polystyrene feliblok plus) or an aluminum thermal insulation box with a uPVC tip and insulation.

*Combine it with a roller shutter slat made of polyurethane.



OXIMO io Motor

Combine your roller shutter with a wireless or wired torque-controlled motor and an automatic obstacle detector. For the wireless OXIMO io motors, select additional automations and create the ideal conditions and desired operation scenarios, such as:

- SITUO 5 io Pure 5 Channel Controller

Possibility of central control of your electric motors, as well as your io devices.

Easily & quickly give bulk or individual orders.

- Temperature Sensor

Installed inside or outside the home, it monitors temperature levels and automatically runs the scenarios you have programmed in TaHoma.

- SUNIS II io Brightness Sensor

Installed outdoors in a wireless manner, it monitors the brightness levels and automatically runs the scenarios you have programmed in TaHoma.



SHADING



From creating the ideal shading conditions to ensuring the safety of the garage entrance, it all depends on selecting and installing the proper roller shutters.

Thermoplastiki chooses certified raw materials with a view to creating ideal proposals for interior shading, energy efficiency and protection against adverse weather conditions.

The **high quality** manufacturing ensures the protection of your space and at the same time guarantees the **functionality** and **durability** of the final product.

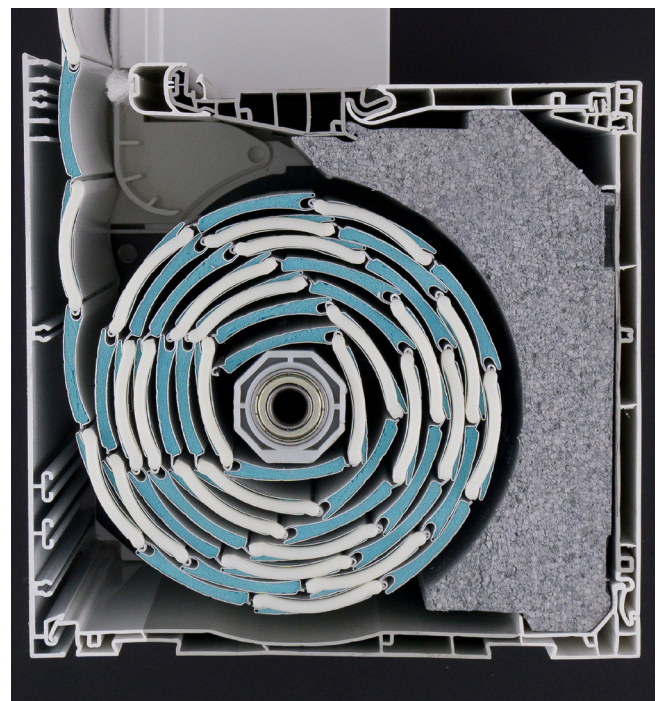
Roller shutter boxes

Roller shutter boxes with high thermal insulation properties.

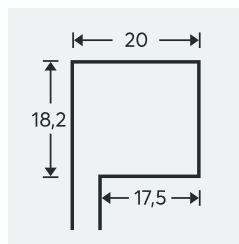
One of the most important parts in the installation of a roller shutter is the box in which it is rolled up. The box often proves to be detrimental to the life span of a roller shutter as well as a cause of reduced energy efficiency, due to its lack of thermal insulation properties. That's why all the superjacent roller shutter boxes manufactured by the company are thermally insulated.

But even if this is not the case, most of the time it simply looks like an awkward extension protruding out of the framing. At Thermoplastiki, we meticulously consider to even the slightest functional or aesthetic detail.

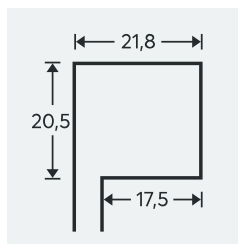
With us you can satisfy all your wishes and needs, by choosing your roller shutter box from a wide variety of types and materials, ensuring it blends into your space.



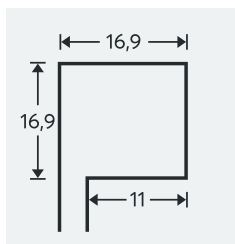
SUPERJACENT THERMALLY INSULATED uPVC BOXES



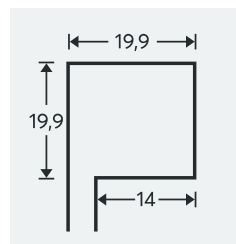
THERMAL INSULATION
uPVC SUPERJACENT BOX
18.5 WITH FELIBLOK



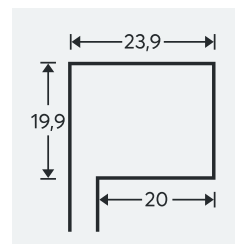
THERMAL INSULATION
uPVC SUPERJACENT BOX
(KÖMMERLING) 20.5X21.8



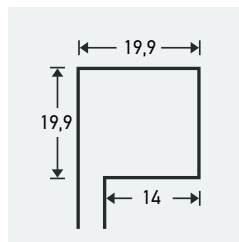
THERMAL INSULATION
UPVC SUPERJACENT BOX
T16.9



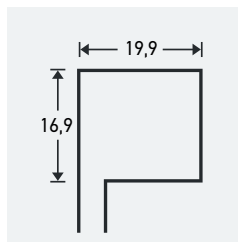
THERMAL INSULATION
uPVC SUPERJACENT
BOX T19.9 WITH
FELIBLOK PLUS



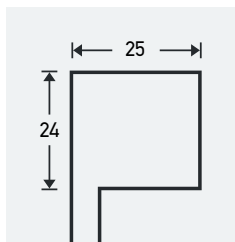
THERMAL INSULATION
uPVC SUPERJACENT BOX
T19.9X23.9 WITH
FELIBLOK PLUS



THERMAL INSULATION
BASIC uPVC
SUPERJACENT BOX T19.9

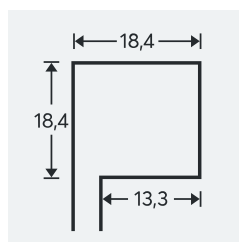


THERMAL INSULATION SU-
PERJACENT BOX T16.9X19.9
WITH
FELIBLOK PLUS

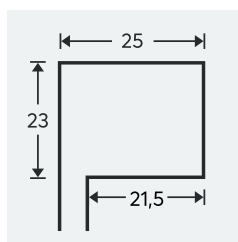


THERMAL INSULATION
SUPERJACENT BOX
(KÖMMERLING) 24X25 WITH
FELIBLOK PLUS

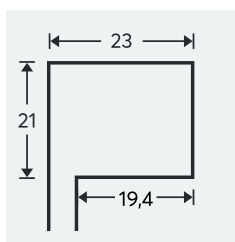
SUPERJACENT THERMALLY INSULATED ALUMINUM BOXES



THERMAL INSULATION
SUPERJACENT
ALUMINUM BOX 180X200

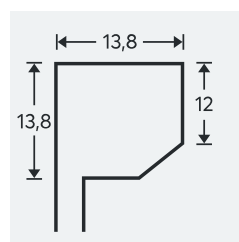


THERMAL INSULATION
SUPERJACENT
ALUMINUM BOX 230X250

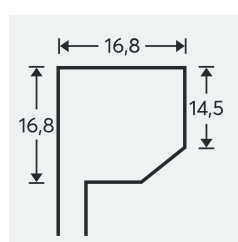


THERMAL INSULATION
SUPERJACENT
ALUMINUM BOX 210X230

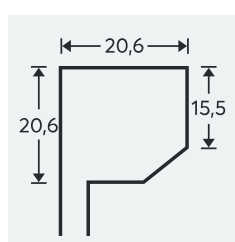
EXTERNAL ALUMINUM BOXES



EXTERNAL ALUMINUM
BOX T13.8

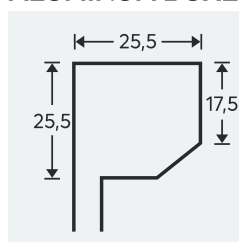


EXTERNAL ALUMINUM
BOX T16.8

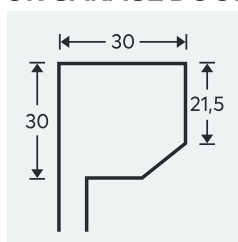


EXTERNAL ALUMINUM
BOX T20.6

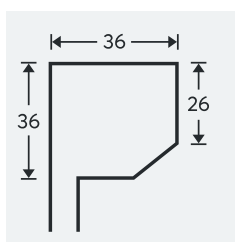
ALUMINUM BOXES FOR GARAGE DOORS



GARAGE DOOR
ALUMINUM BOX T25.5



GARAGE DOOR
ALUMINUM BOX T30



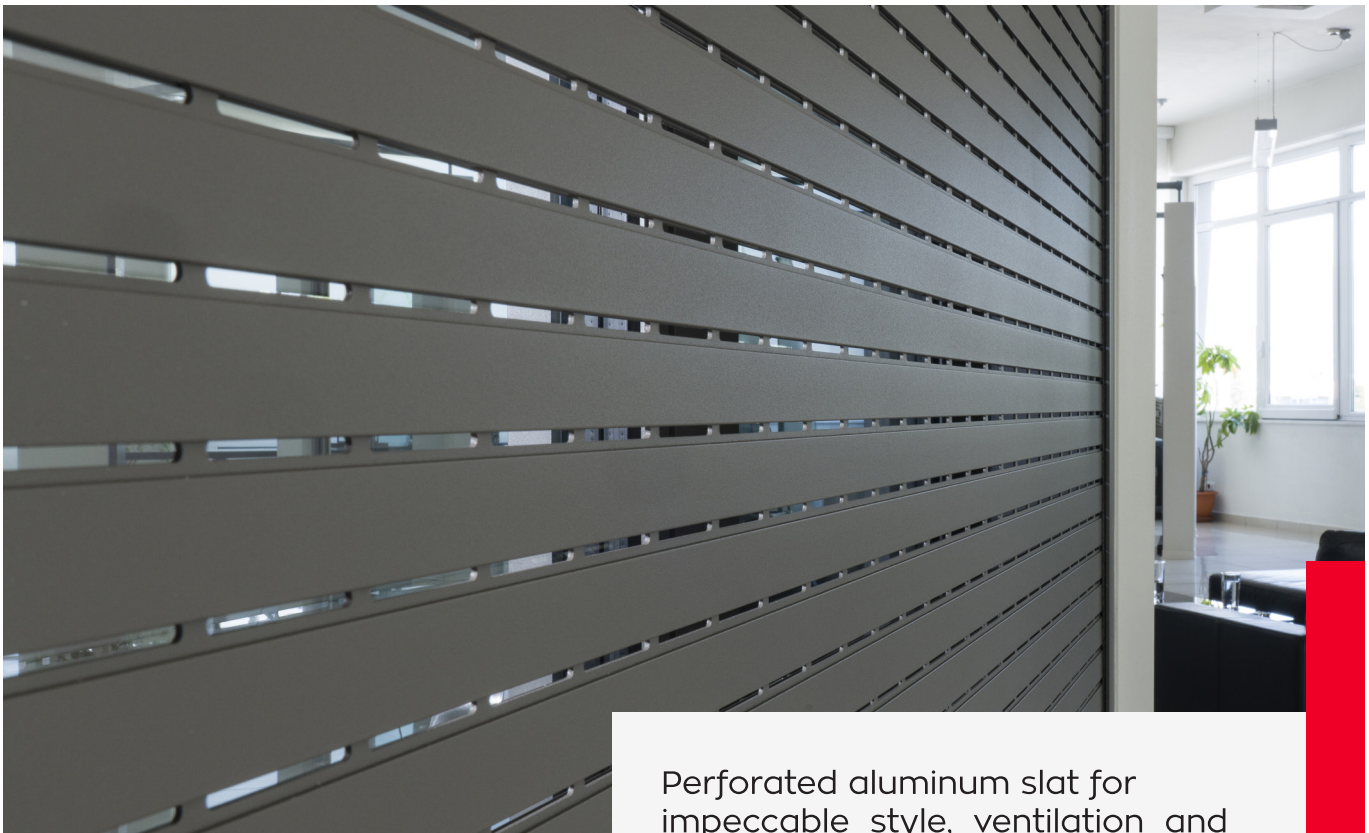
GARAGE DOOR
ALUMINUM BOX T36

Roller Shutter Slats

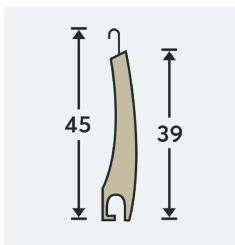
The most robust roller shutter slat in the market.

Each roller shutter application has its own use. Therefore, what determines the individual properties of each roller is the material from which it is manufactured.

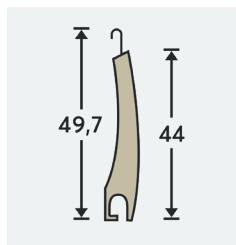
The slats are hinged together to form the foldings and, by extension, the roller shutter itself. The material they are made of, as a whole, can provide additional properties, offering better thermal insulation, better burglar resistance or more resistance to wind gusts.



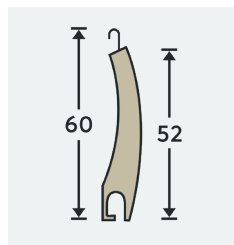
Perforated aluminum slat for impeccable style, ventilation and silent operation.



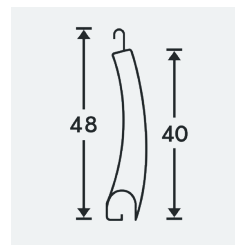
T16



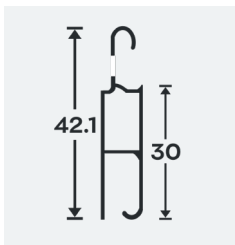
T19



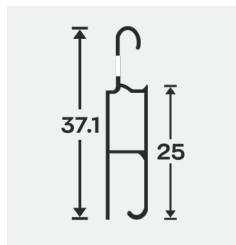
T21



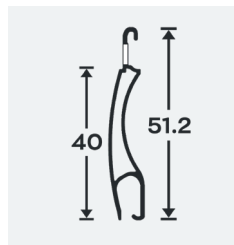
K19



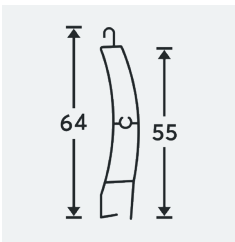
Δ30



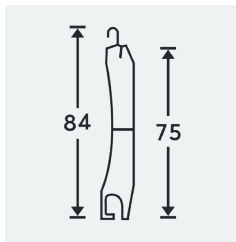
Δ25



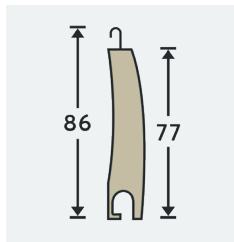
Δ40



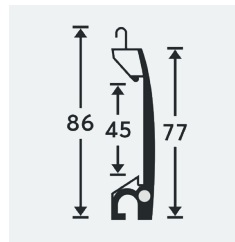
K22



K77



T77



T77 WITH GLASS

Modern Shutters

Perfectly combined with the new frames colors of Thermoplastiki.

Thermoplastiki manufactures a wide variety of shutters of every type, with a view to satisfying all needs and architectural applications, thus improving the appearance and functionality of newly constructed or existing buildings.

You can choose between shutters made of aluminum, but also of uPVC, opening, sliding recessed, externally sliding, 1-, 2-, 3- or 4-sash. Always respecting the needs, style and aesthetics of the area where they are installed.

They are ideal for:

- Effective control of lighting, protection against the sun.
- Incomparable protection against extreme weather conditions.

uPVC Shutters



Movable louver option



High quality and aesthetics



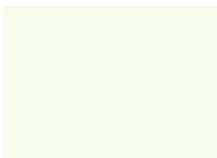
Long life span



*uPVC "traditional" shutters are only opening.

Thermoplastiki manufactures a wide range of color options to perfectly match your frames.

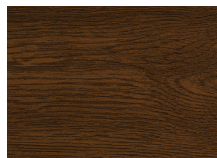
Some color variations are possible due to printout.



White



Golden oak 032



Nussbaum 052



Cremeweiß 167



Anthracite grey 016



Brilliant blue 085



Grey 021



Aluminum Shutters



Movable louver option



Ideal for large openings



Top life span



Selectable hinge



Sliding option



Color Range

Thermoplastiki manufactures aluminum shutters in **structura colors** for perfect combination with your frames.



InterponD2525 Structura /
RAL9010 / YA310F



Interpon D2525 Structura /
RAL 7040 / YL340F



Interpon D2525 Structura /
RAL 7039 / YL339F



Interpon D2525 Structura /
RAL7012 / YL312F



Interpon D2525 Structura /
RAL 7016 / YL316F

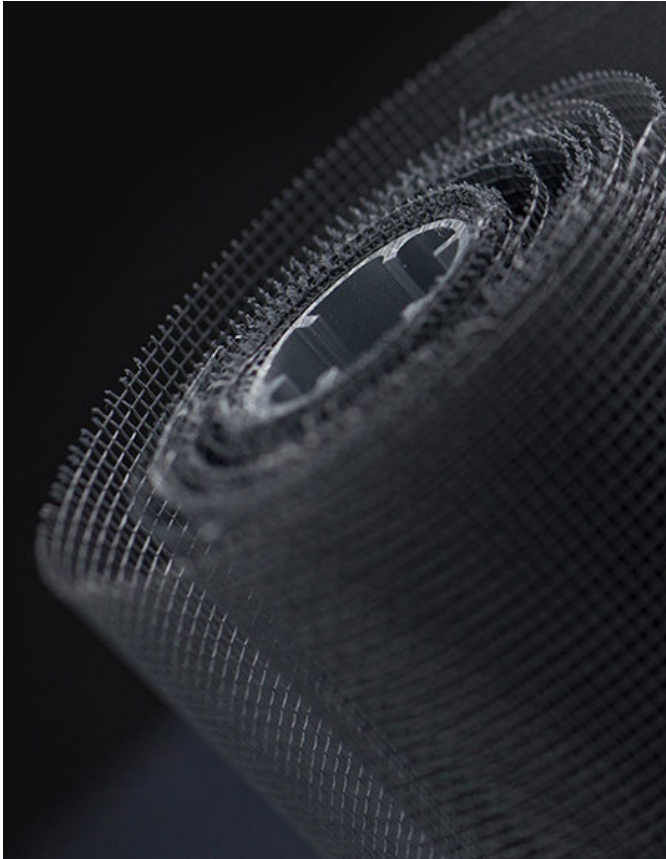


Interpon D2525 Structura /
RAL 9005 / YN305F

Some color variations are possible due to printout.

* Sliding shutters are made only of aluminum in single or double sash structures.

MODERN INSECT SCREENS



Each screen manufactured by the company adds functionality and aesthetics to your space, keeping away dust and insects. The variety of applications is not limited to the typology and mechanism, but also includes color and material.

It is made of **fiber glass stiff net** and comes with a **hydrophobic coating** for easy cleaning.

Thermoplastiki chooses black screen cloth, highly resistant to UV radiation, high temperatures and time, while offering better visibility.

Thermoplastiki offers a **wide variety of insect screen systems**, providing applications and solutions for covering **any type of opening**.

Available Typologies of Insect Screens:



HEAVY DUTY SLIDING



OPENING



PLEATED WITH CORD



PLEATED WITH SPECIAL
TRACK CHAIN



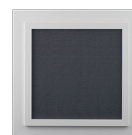
VERTICAL MOVEMENT



FIXED FRAME



FRAME-SLIDING



REMOVABLE



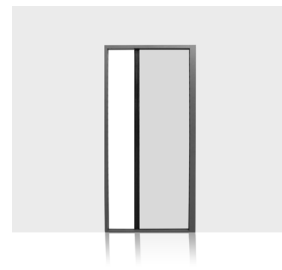
MOTORIZED

Centor Insect Screens

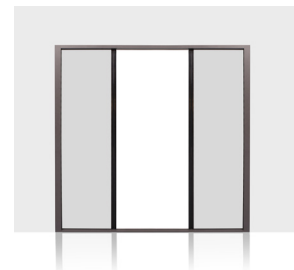
S2 Insect Screen

Ideal for smaller openings up to 4m wide.

Simple to use with Centor load balancing technology (Smooth Scrolling, One-Finger Operation).
Compact design – installable inside or outside the opening.



SINGLE-SASH (COVERS THE ENTIRE OPENING)



DOUBLE-SASH (TWO SCREENS THAT MEET IN THE MIDDLE OF THE OPENING)

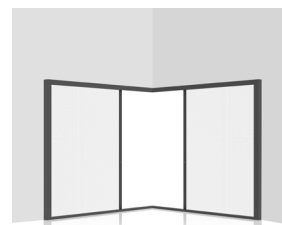
Insect screen and Blind S4

Ideal for larger openings, can be manufactured for a length of up to 10m.

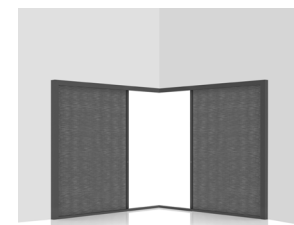
Simple to use with Centor load balancing technology, (Smooth Scrolling, One-Finger Operation).
Compact design – installable inside or outside the opening.
The insect screen and the blind are fully recessed in the frame on all sides.
The S4 screen is the **only** screen solution for folding/sliding, three-sash and corner frames.



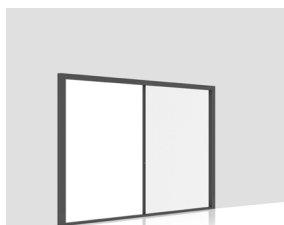
Design Award Red Dot: Best of the Best



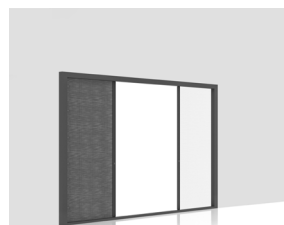
NO CORNER (TWO SCREENS THAT MEET AT 90-DEGREE OPENING)



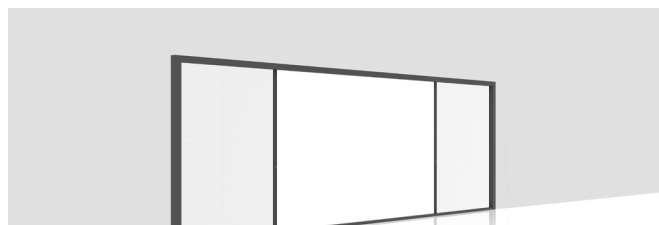
NO CORNER (TWO BLINDS THAT MEET AT 90-DEGREE OPENING)



SINGLE
(COVERS THE ENTIRE OPENING)



COMBINATION
OF TWO TYPES OF FABRIC



DOUBLE (TWO SCREENS THAT MEET AT 90-DEGREE OPENING)



AUTOMATION SOLUTIONS

Thermoplastiki takes a step forward combining smart frames and mechanisms with **automation systems** under the multinational company **Somfy** trademark, thus upgrading both your place's energy status and the quality of your everyday life.

With just your mobile phone or your tablet, you have access to any point, roller shutters, windows, doors and all other connected smart devices of your home, anytime from anywhere. Create your own profile and enjoy the everyday life the suits your lifestyle.



Smart Home

Tahoma Automation System

One system only, complete coverage at home. Manage the roller shutters, lighting, sockets and space heating with just a few clicks and create the ideal scenarios for you and your family.

Smart WiFi Wireless Thermostat

It takes into account the temperature and humidity in the room. Its installation is easy and fast, while it also optimizes the heating function.

Remote control io ON/OFF Socket

Discreet socket for wireless lighting control either from the remote control or from your smartphone.

Remote Access Management

Smart Lock

A small and smart upgrade to your front door lock will make your life safer and more carefree. With Smart Lock, you can unlock or lock your place remotely.

You can choose the desired access method:

- via the app from your smartphone
- via a special key chain
- via a bracelet
- via a card

Its design is innovative and it is equipped with an AES 256 encryption and a safety cylinder with resistance to corrosion and interference. Perfect for Airbnb short-term rentals.

Configure your place's **functionality** and maximize **security** and **energy saving** with the use of advanced automation systems.

SUSTAINABILITY AND CIRCULAR ECONOMY



Our mission is to protect and **care for people and the environment**, pioneering the manufacture and production of quality products.

Incorporating the principles of the Circular Economy and policies oriented towards enhancing sustainable development into our strategy, we create value-based, durable and usable solutions, minimizing waste generation, while promoting recycling and committing to sustainable business.

Recycling Actions



uPVC & Aluminum

Collection and recycling of scrap through licensed partners. Both materials are 100% recyclable, with a long life span.



Thermal Insulation Products

The company produces environmentally friendly thermal insulation products that are 100% recyclable at the end of their use and have a positive footprint.



Recycling of Containers

Production units are equipped with carton and nylon packaging compression presses, that enable their collection and recycling.



Blue Bins

We have incorporated the principles of Sustainable Development into the daily lives of our employees, constantly promoting the recycling of stationery and batteries.



Hybrid cars

We recognize our responsibility towards society and the environment and invest in hybrid company cars.



Glass panes Recycling

The company collects and sends for recycling the fragments produced during the manufacture of glass panes.





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