

KLIMA-PUR

**THE NEXT GENERATION OF
WINDOWS & DOORS.**

FOR SUSTAINABLE ENERGY-EFFICIENT BUILDINGS



01 BENEFITS OF KLIMA-PUR®



KLIMA-PUR® is a new top class in energy-saving windows & doors made from Polyurethane (PUR). Similarly to wooden windows & doors, KLIMA-PUR® integrates a high-performance material with a circular design.

KLIMA-PUR® is a unique product due to its sustainable approach demonstrating superior thermal & acoustic comfort due to its lowest thermal conductivity value ($U_f = 0.80W/m^2K$) and its foamed internal microstructure.



Optimal energy-saving

Its superior performance avoids the thermal bridges, thus enabling substantial cost reductions in your energy bills.



Increased lifespan

PUR is a thermoset material requiring low maintenance due to its excellent thermal and chemical resistance, as well as high dimensional stability and wear resistance.



Sustainable-by-design

KLIMA-PUR® is made from an easy-to-separate material that offers an alternative to fossil-based products. Its biobased version (bioPUR) includes a high content of renewable raw materials, leading to low C-Footprint windows & doors.



02

SYSTEM DESCRIPTION

KLIMA-PUR® are windows & doors with superior performance in terms of thermal and acoustic comfort, being optimal for cold climates due to its broad range of working temperatures (-20°C to 70°C) and for aggressive environments such as humid and sea-coast areas due to its chemical resilience. KLIMA-PUR® windows & doors are specially designed for new buildings, retrofitting, and energy renovation activities within the residential and commercial segments.



KLIMA-PUR®, made from our special bioPUR formulation, is the next leading material in the window & door market in the upcoming decade, being this material a strong competitor in the near future market scenario, where Energy Performance and C-Footprint will be the most important drivers for construction materials.

KEY FEATURES

03

KLIMA-PUR® offers the best performance in the window & door market.

The excellent thermal insulation of PUR makes it perfect for Passive Buildings while the joint system improves air infiltration.

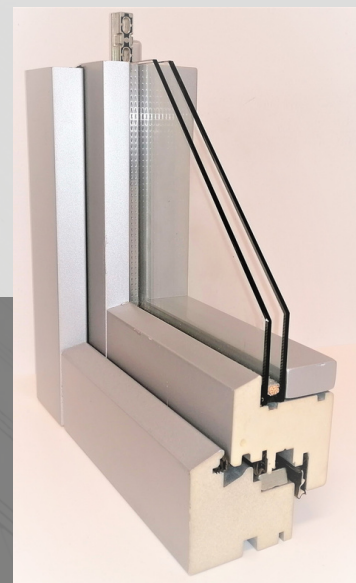
$U_f = 0.80$
W/m²K



**Energy efficiency
first!**

Minimal maintenance with high durability in a compact and low deformable structure, leading to a high resistance to external agents.

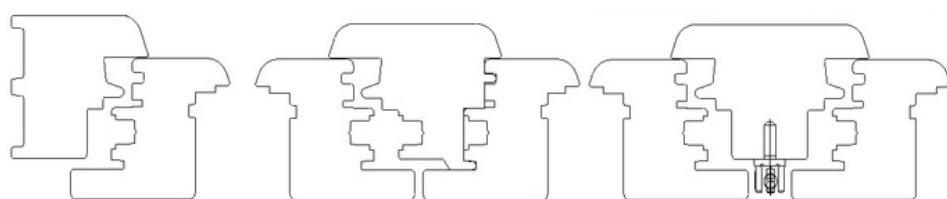
Our joint system provides maximum water tightness against humidity or condensation while providing an enhanced acoustic barrier.



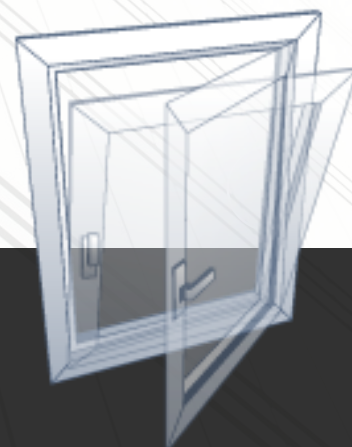
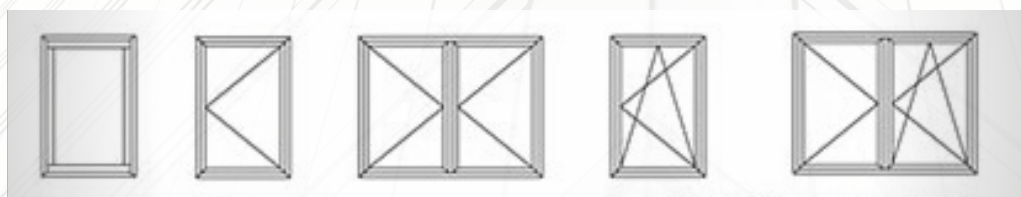
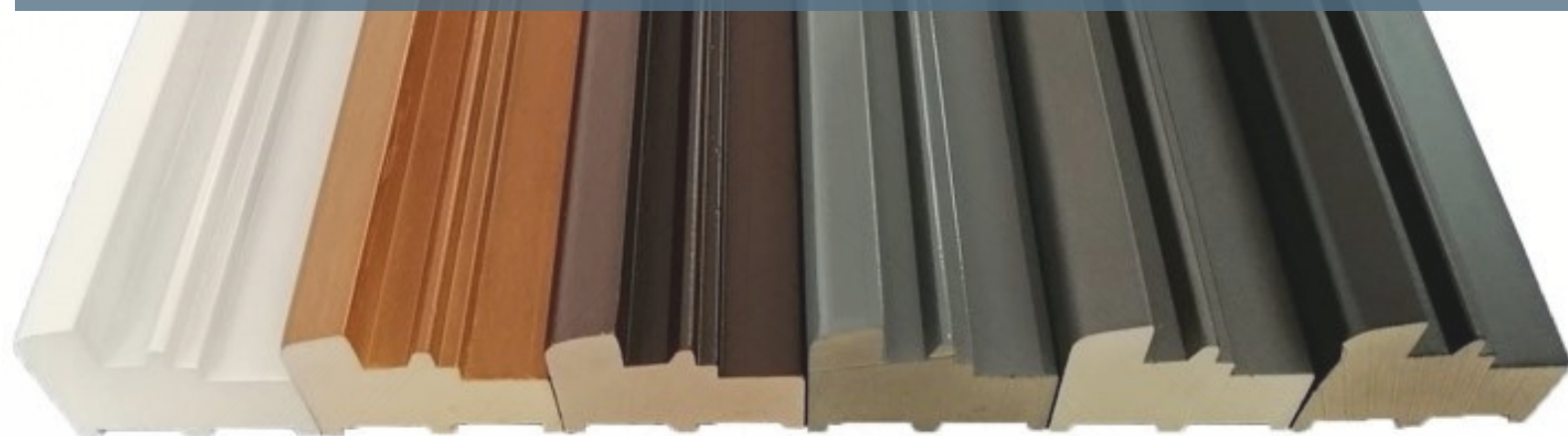


04 OWN STYLE

KLIMA-PUR® combines functionality, design and lightness with a new own style.



Simple design with elegant shapes, allowing the imitation of other materials while integrating both rustic and modern architectural styles. Available in a wide range of colours and textures (timber, metallic & plastic).



KLIMA-PUR® integrates top-quality hardware system allowing turn, tilt & turn, fixed and curvy windows, thus adapting to all architectural designs while making possible any combination and customization. Ask us for your special design!

Maximum size: 2800 mm x 2800 mm

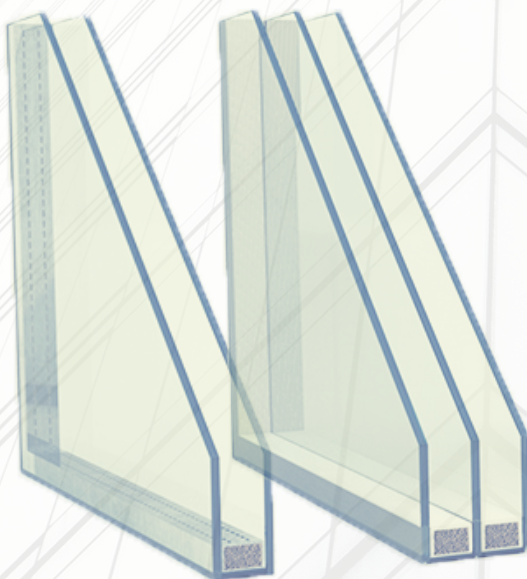
05

HARDWARE & GLAZING



KLIMA-PUR® uses world's best-selling hardware system for windows & doors. Roto® is the selected brand meeting the top quality standards required in our high performance product.

KLIMA-PUR® incorporates a glazing band, which increases glass' sealing and improves load distribution. This tape is highly resistant to temperature, UV rays and weathering.



Maximum glass thickness: 40 mm.

KLIMA-PUR® adapts to any type of glazing, offering maximum energy-efficiency and safety.

DECLARATION OF PERFORMANCE

Air permeability	(UNE-EN 12207:2017)	CLASS 3
Water tightness	(UNE-EN 12208:2000)	CLASS 8A
Resistance to wind load	(UNE-EN 12210:2017)	CLASS C5
Racking, torsion and operating forces	(UNE-EN 13115:2001/4)	CLASS 4
Thermal Transmittance of frames/profiles	(EN ISO 10077-2:2017)	0.807 W/(m ² K)

The performance of the identified product is guaranteed by the manufacturer and all values correspond to the report tests issued by ENSATEC S.L.U.



KLIMA-PUR vs Competitors

FRAME/PROFILE TYPE (70 mm)	TRANSMITTANCE (W/m ² .K)	INSULATION CAPACITY
Metallic	5,7	Very Low
Metallic (Thermal Break 4<d<12 mm)	4	Low
Metallic (Thermal Break d>12 mm)	3,2	Medium
PVC (2 chamber)	2	High
PVC (3 chamber)	1,8	High
Hard wood (700 kg/m ³)	1,7	High
Soft wood (500 kg/m ³)	1,3	Very high
KLIMA-PUR (by INDRESMAT)	0,81	Extremely high



THE SOLAR IMPULSE EFFICIENT SOLUTION LABEL: A NEW APPROACH TO PROTECT THE ENVIRONMENT

Our KLIMA-PUR® frames have been awarded with the **SOLAR IMPULSE LABEL**, which is a certification that applies to products, processes and services combining economic profitability and environmental sustainability.



BUILDING A BETTER WORLD

Going for sustainability: KLIMA-PUR® frames are manufactured with a very low energy-consuming technology (0.13 kWh/kg), thus reducing the CO₂ emissions in their manufacturing.

Its single material configuration, high biobased content, easy recycling, and circular design; makes possible to provide a C-Footprint similar to wood.



INDRESMAT is committed to the SDGs.



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