



# M SORA

Create your own view



## WINDOWS CATALOG

November 2020

Photo: Miran Kambič, Vue Sur Lac, arhiv  
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Kikelj

Press: Abo grafika d.o.o.

We deserve the right to make technical  
and editorial changes!

Colours in the catalog may be different  
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[www.m-sora.si](http://www.m-sora.si)

## OPEN VIEWS

*It may be too much to say that we are in love with windows. But we are - without doubt - passionate experts and our windows are manufactured to perfection using cutting-edge technology. Finding similar top quality windows on the market is therefore no easy task.*

Windows are not just a piece of furniture. They are our connection to the outside world and in most cases the only real breathing component of our home. Windows frame our view of the world and bring fresh air into our home.

The fact that M SORA is not a factory is actually the best description of our windows. M SORA is a company of experienced masters united through commitment to their work, knowledge and experience.





1948

On the initiative of the Local People's Committee (KLO) Žiri, the Žiri Carpentry Company was established on 2 September 1948, from the private carpentry workshop of Franc Potočnik.

1985

The carpentry company Žiri joins KGZ Mercator Sora Žiri as a carpentry unit.

1991

A large investment in hardware for the production of windows, which enables M SORA Joinery to export to the German market, and to create and consolidate a name on the domestic market, under which it still works successfully today.

2006

In order to further develop, independent of the problems of cooperatives and agriculture in Slovenia, M Sora d.d. was established on 20 October 2006, to which non-agricultural operations were transferred.

2007

New carpentry production premises are opened in the industrial zone. Investment in new state-of-the-art window production technology.

2009

M SORA R&D group has been established which successfully implements development projects and obtains co-financing, awards and recognitions for them.

2014

Subsidiaries M SORA Fenster GmbH and M SORA Finestre srl are established.

2017

The production premises of Joinery are being expanded, and the machine line is being upgraded.

# TRADITION

## 70 YEARS OF RESPECT TO THE WOOD

The area of Žiri forests has been a natural treasure since ancient times. Here people have learned to live in balance with nature and this is where our eminent masters of carpentry come from. Living in deep dependence on nature has taught us to appreciate traditional approaches, which is why our windows are made of wood. Wood is alive, so it can breathe and grow with us. It can connect us to the environment and refresh us. It prevents cooling in winter and retains the sun in summer. Compared to us, wood is almost eternal and is always an architecturally interesting element.

Just as the material from which we make windows is sustainable, so is our business model. By acting responsibly, we try to contribute to sustainable development as a company. We are aware that it is not only financial that is crucial for successful business, but both social and economic success. Employee satisfaction, presence in the local environment and responsibility to the environment are our key goals.



# TECHNOLOGY

## EXPERIENCE COMBINED WITH THE LATEST TECHNOLOGIES

No matter which window model you choose, each and every part of it will undergo a careful process involving centuries of experience and cutting-edge technology. This technology is used only if it can do a better job than man: it for example cuts wood with greater precision and without error - and is more reliable in applying color and coatings.

Avoiding mistakes has led us to a wonderful idea: as part of our groundbreaking production process every window component is first automatically coated/sprayed several times. That is why the finished product has no hidden or unprotected parts, unlike windows coated at the very end of the manufacturing process. The coloring too is technologically perfect as everything is done automatically. In just two steps we take care of the protection of the wood and the perfect appearance.

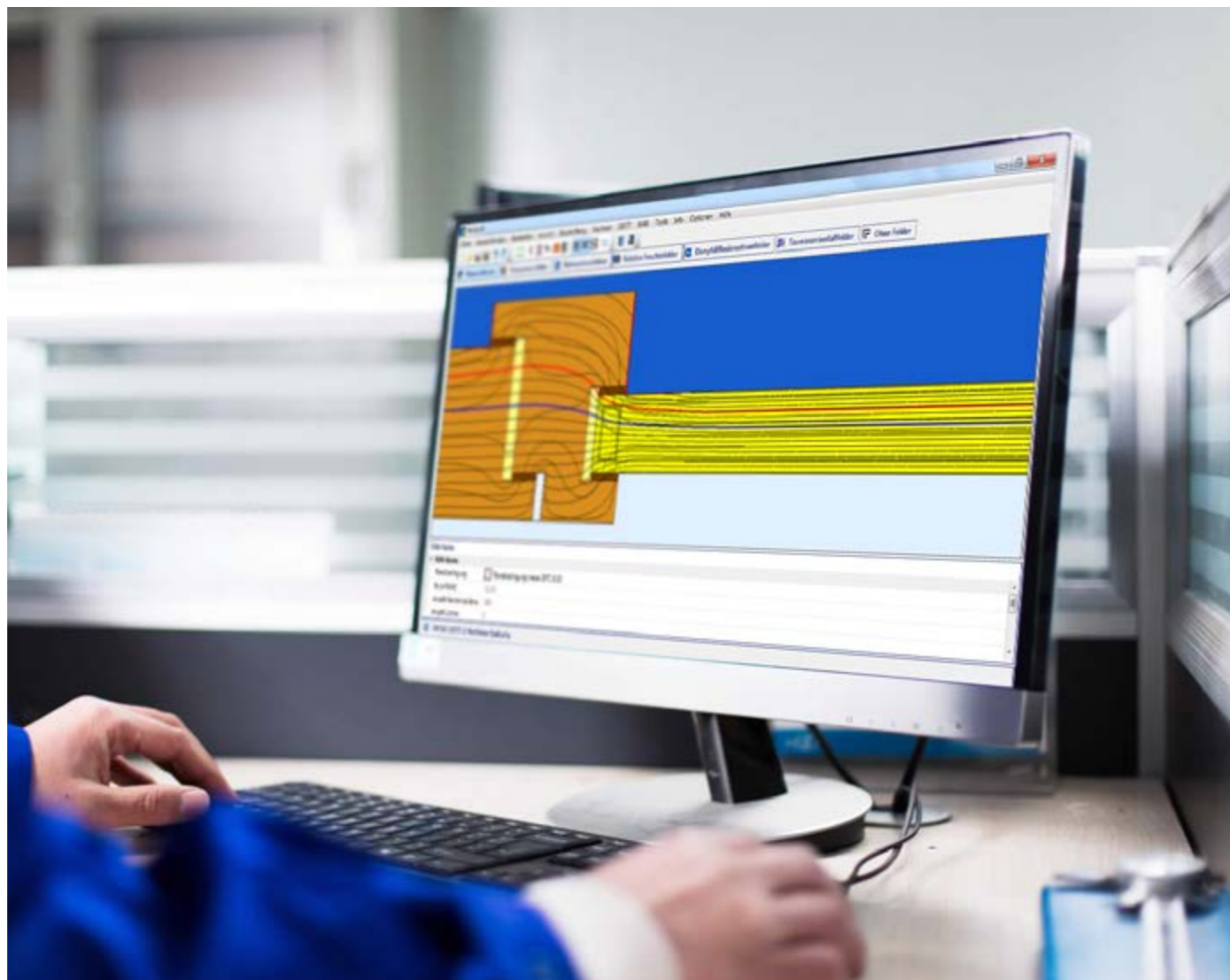


# KNOWLEDGE

## CHALLENGES REQUIRE CONTINUOUS UPGRADE

Designing your windows requires a sequence of complex knowledge and technologies. Numerous knowledge from various fields is required for the quality and correct production of windows. Our experts carefully design each window, checking the values of thermal conductivity, glass statics and wooden window construction. In doing so, we take into account the required standardization, requirements and guidelines commanded by the profession and science with the desire to be able to offer you the highest quality service. With knowledge and innovation, we push the boundaries of the possible for you.

An important part of M SORA is also represented by development and research projects. These are either internal or in connection with various companies and scientific research institutions with which the company successfully cooperates. In recent years, much of the development has taken place through national or European projects, ranging from the use of innovative materials to optimizing the thermal conductivity of windows, handling wooden windows at the end of their life and developing smart windows of above-standard dimensions.



# COOPERATION

## CONNECTING PEOPLE, KNOWLEDGE, RESOURCES

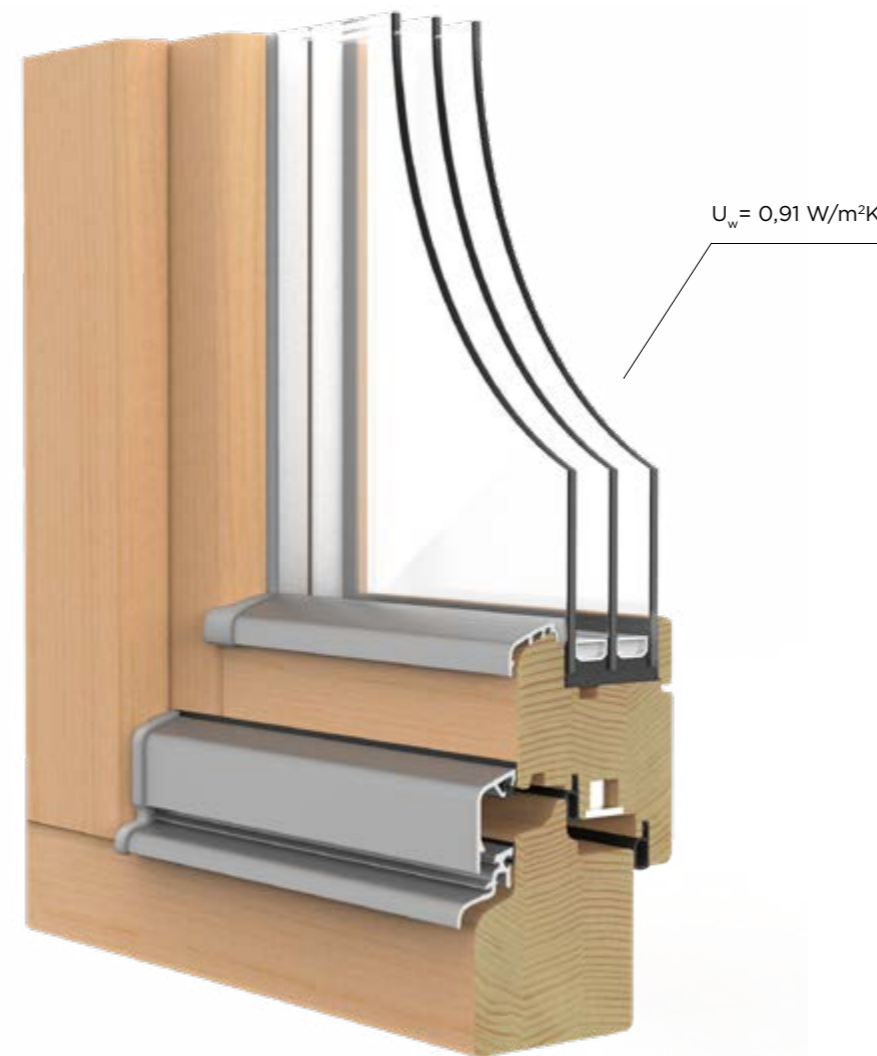
The foundation of M SORA is a cooperative. That is why we have been operating from the very beginning as a strong community in which integration is not foreign to us.

We are aware that there is nothing we can do completely on our own. Every perfect product requires a mutual exchange of knowledge and experience. In cooperation with suppliers and partners, we therefore strive for the highest quality that we offer at every step of window production.

Cooperation is also crucial for the development. Together we are growing even faster.

M SORA participates in various national or European, research and development and other projects, within which it connects into effective partnerships of companies, research organizations and institutes.

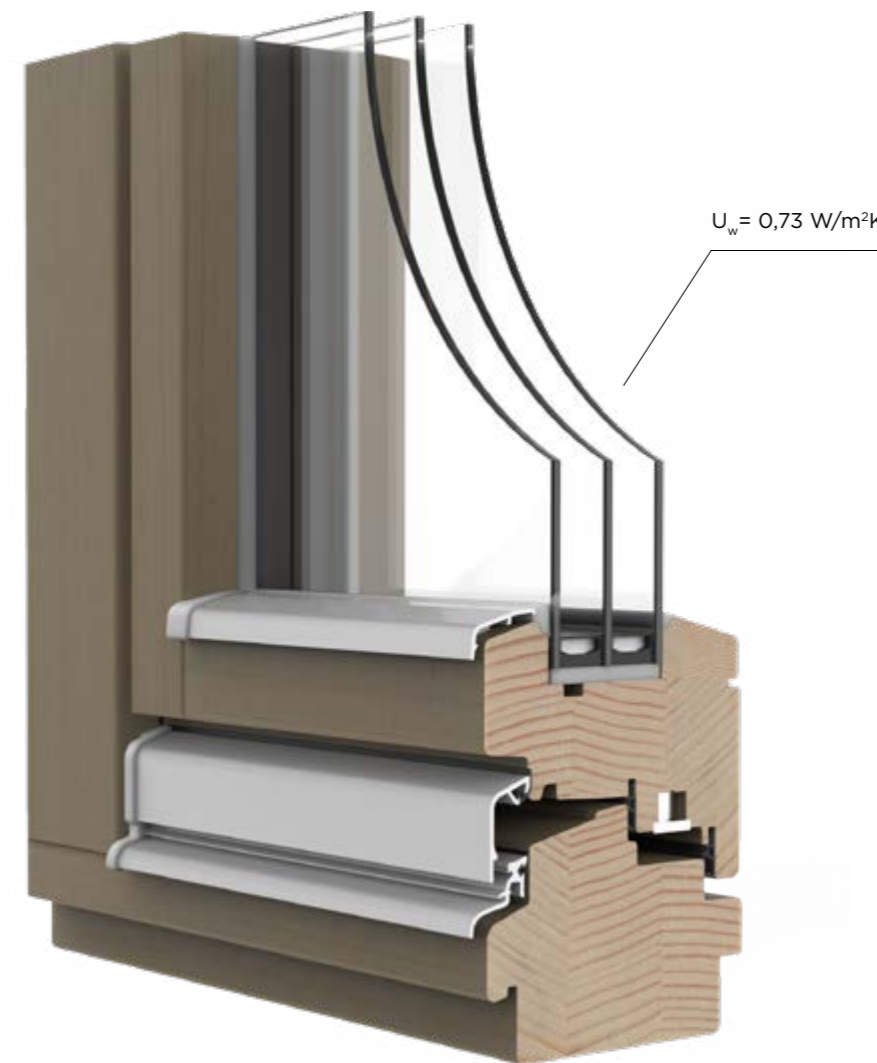




NATURE

## NATURE 3

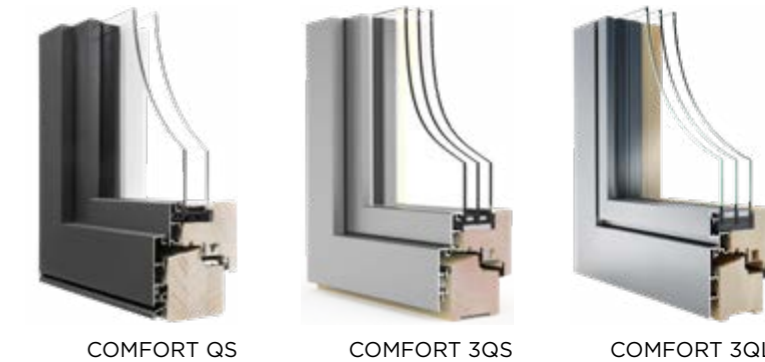
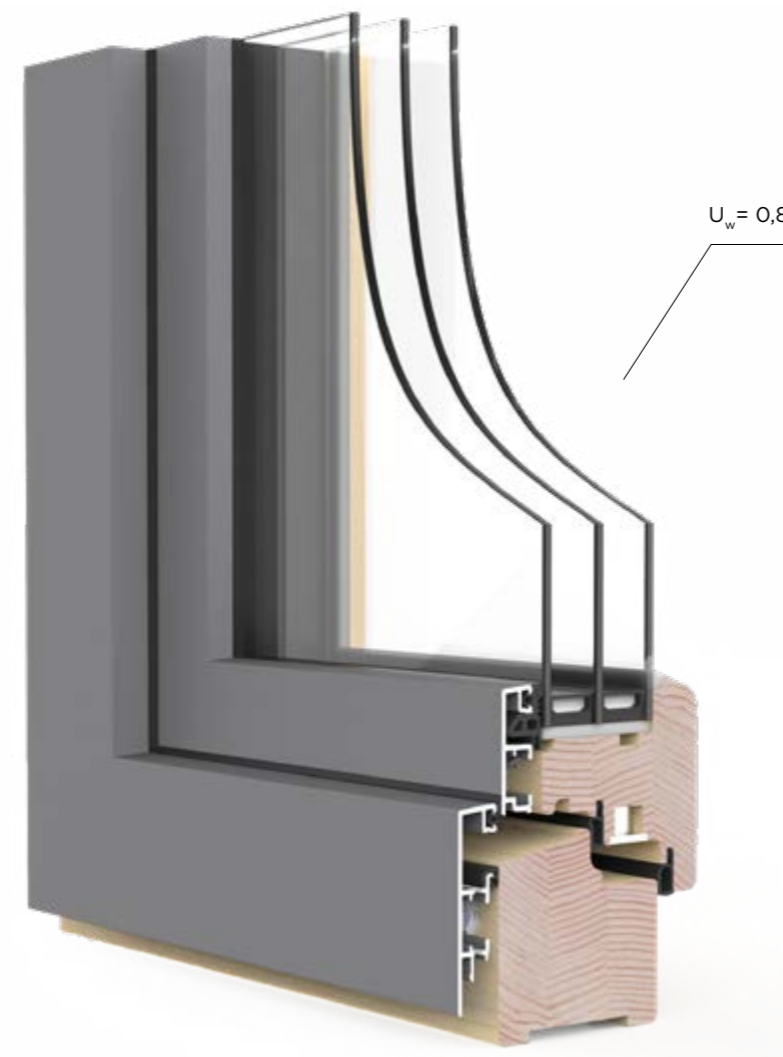
NATURE window can be best described by an ancient wisdom: the best solutions are simple. The window concept is based on a century old tradition with the help of modern technology. The result is a simple yet generous window: generous because of the benefits it guarantees. The family of NATURE windows consists of wooden windows consisting of 68 mm thick window profiles, which can be made of various wood types (spruce / fir / larch / oak / walnut / pine / red grandis).



NATURE OPTIMO

## NATURE OPTIMO XL

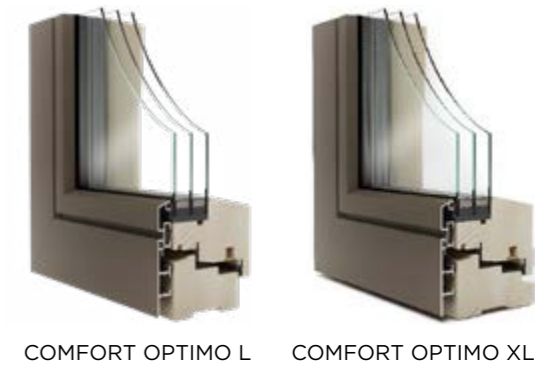
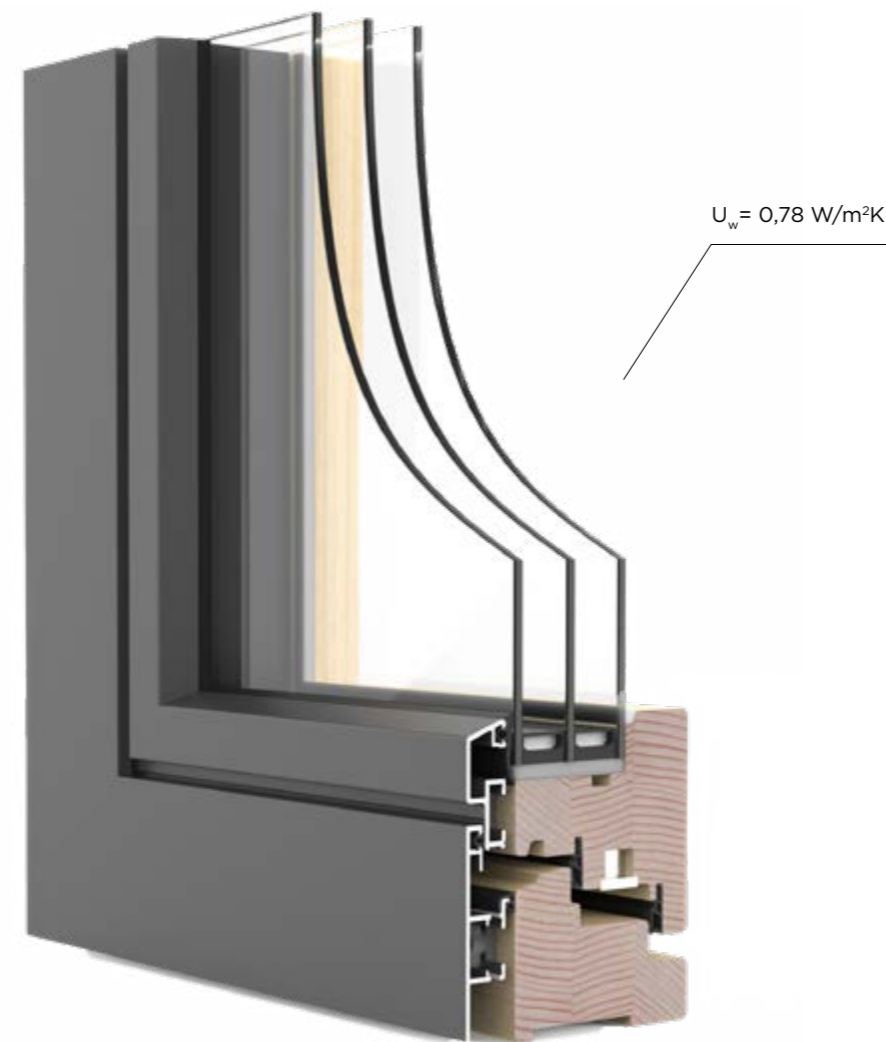
NATURE OPTIMO is a window that is distinguished by all the advantages of NATURE windows - optimized thermal efficiency, the wisdom of tradition and the surplus of modern technologies, which are elevated to a higher level with selected details. The profile of the window is thicker, which contributes to the reduction of energy and sound permeability. The fresh design connects the frame and the sash of the window in a straight line, signed with an impressively modern look. The windows of the NATURE OPTIMO family are made of wooden profiles 92 or 110 mm thick and satisfy even the most demanding aesthetic criteria with their versions.



## COMFORT 3Q

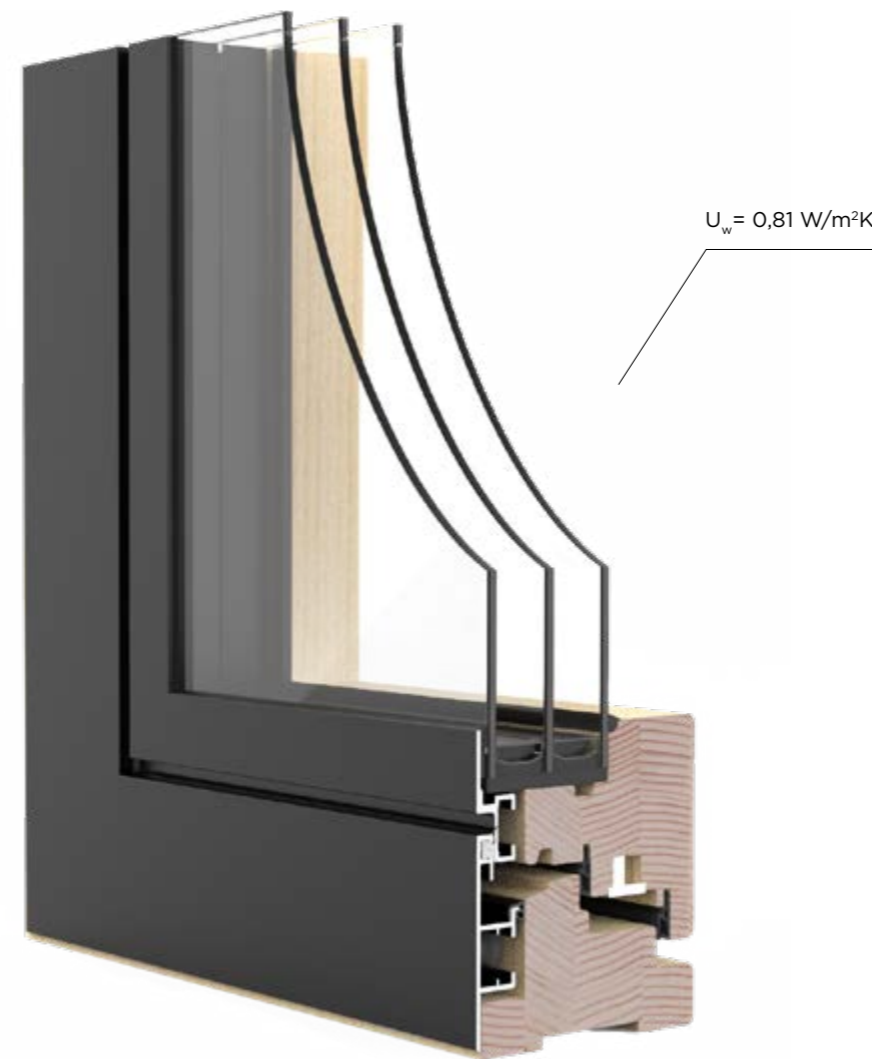
The window COMFORT is warm and friendly on the inside, but decisive and durable on the outside. The appearance of the interior can be adapted to the residential equipment, and the appearance of the exterior to the appearance of the facade. COMFORT windows represent the basic line of aluminum - wood windows, which are distinguished by the softness of the wood and the durability of aluminum. The design variety of aluminum profiles on the one hand offers windows with softly rounded or sharp-edged contours, and on the other profiles of neat, elegant, aligned lines.





## COMFORT OPTIMO XLS

COMFORT OPTIMO XLS is a window of clear lines that decisively complements modern design architecture. The trendy look is especially emphasized by the balanced line of the window frame and sash, and due to the thicker profile, this window is also more thermally efficient. The aluminum-clad exterior can be color-adapted to exciting trends or soothing needs. Choose thicker designed profiles of aluminum - wood windows and thus contribute to thermal comfort, without having to give up design trends.



## COMFORT ULTIMO

The window ULTIMO represents the ultimate relationship between the aesthetic and functional component. The glass, which is moved completely to the outer edge of the window sash, satisfies the most demanding beauty reviews, while aluminum offers complete protection against unwanted weathering. Choose determination and at the same time do not give up the softness of the natural touch of wood.

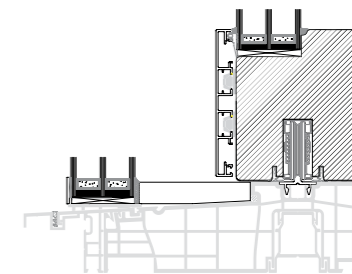


## VISION XL

The VISION window is designed and created in the spirit of modern, innovative approaches to architecture. With this window, wood is not visible on the external side, because the entire outer surface is elegantly covered by an innovative combination of insulation glass and an enamelled edge. Indulge in the play of exterior reflections on the glass wing and enjoy the touch of wood inside.



PANORAMIC SLIDING DOORS

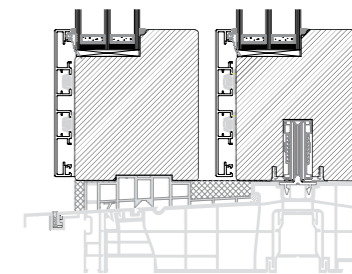


## SLIDING DOORS

Release yourself from the frames that divide you from the complete touch with the exterior. Connect your inner space with the outside nature and don't feel the barrier between. With our panoramic window system we can offer you the in the most elegant and technologically advanced way.

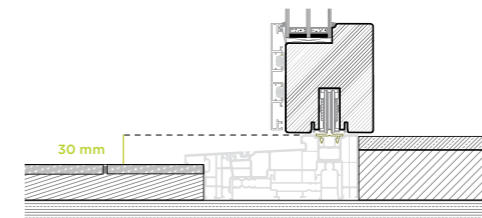
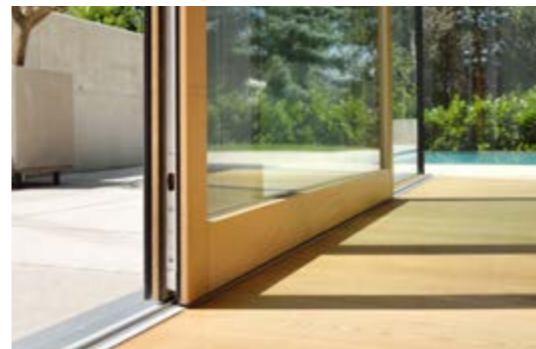


CLASSIC SLIDING DOORS

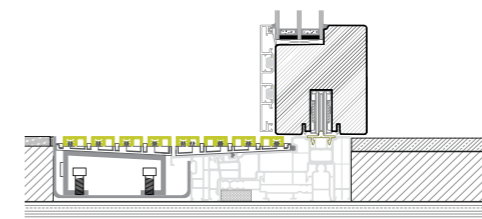




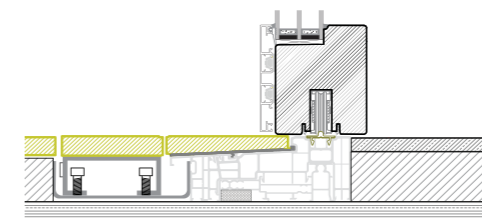
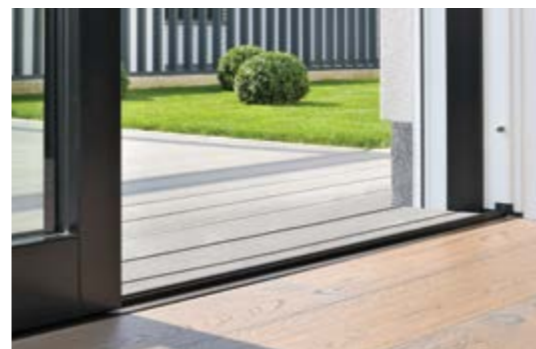
SLIDING DOOR - classic threshold



SLIDING DOOR - equal threshold height (lattice)



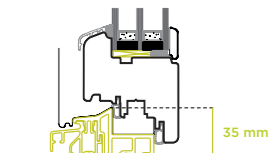
SLIDING DOOR - equal threshold height (wooden boards)



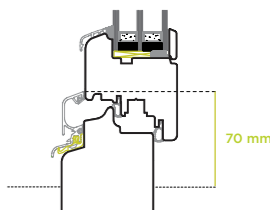
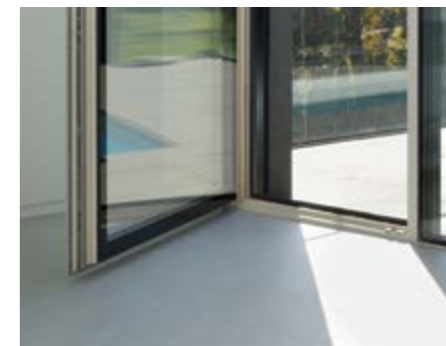
## THRESHOLDS

With our latest designs, your step between interior and exterior will be completely smooth as we offer the possibility of zero difference between external and internal treshold.

BALCONY DOOR - low threshold



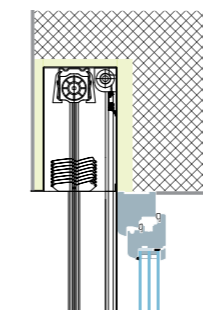
BALCONY DOOR - classic threshold



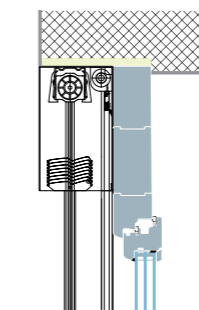


**FRONT MOUNTED**

HIDDEN



VISIBLE

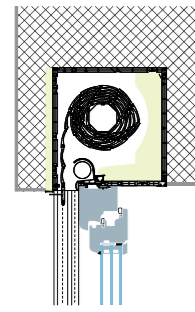


**BLINDS**

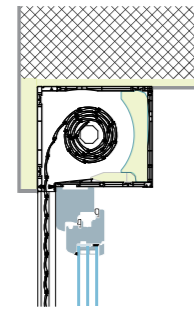
Light. The play of shadows or complete dimming are the options offered by shading with blinds. You can choose from many shapes of slats, guides and color versions, as we can offer the desired shades with the RAL color scale.

### TOP MOUNTED

HIDDEN - KARO

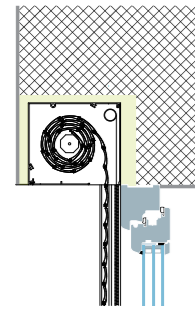


HIDDEN - RA2

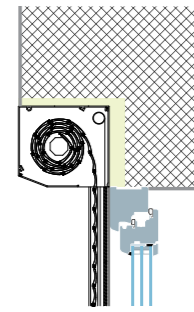


### FRONT MOUNTED

HIDDEN - Q INTEGO

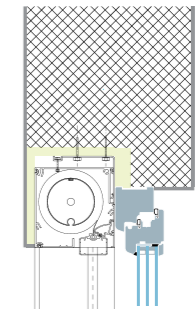


VISIBLE - PENTO



## ROLLER BLINDS

For complete dimming and safety of your premises, we offer you a wide selection of roller blinds that can be installed above or in front of window elements. Aluminum slats provide above-standard strength and color fastness.



## ZIP SCREEN

The most discreet shading system with translucent fabrics that offer a sophisticated play between light transmission and protection against glare, heat and exterior views. Indulge in the play of shadows and the color of light in the room, which is achieved by choosing a specific degree of transparency and color of the fabric.



## INSECT SCREEN

Spend evenings at the open door and enjoy the freshness without worrying about unwanted insects, with the help of insect screens that protect the interior. We offer a wide selection of fixed, wing, roller and sliding mosquito nets.





submerged Glutz handle



Los Angeles F84-1-R



Amsterdam F69



Toulon F9714



Dallas F41-R



Singapore F56



Elba F55



Atlanta F9



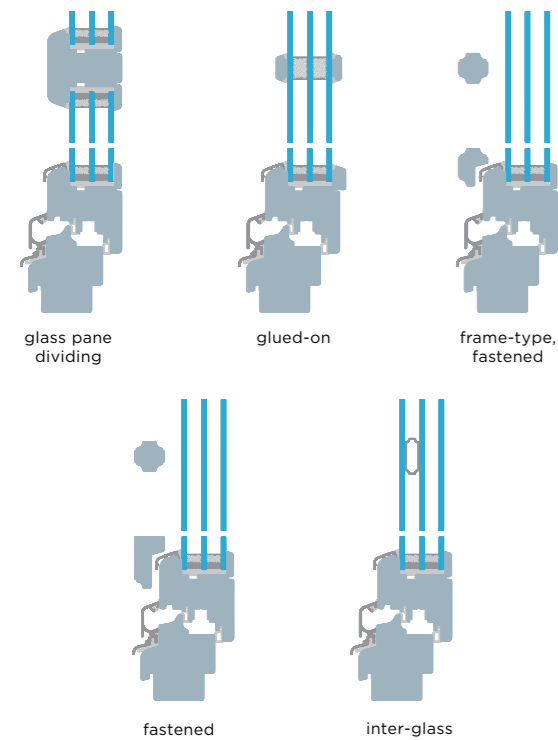
Brest F9

## HANDLES

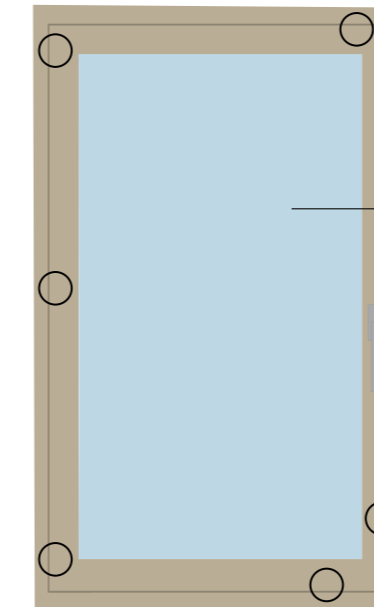
Participate in the selection of each component of your window. Seemingly small, but extremely important in the final image of the entire window. A wide selection of handles offers you the option of classic or completely modern handles that will complete the image of the window.

## SHUTTERS AND CROSS-BARS

Tradition, coziness, heritage. At M SORA, we are looking for new answers to functional challenges in transforming spaces into comfortable and inspiring premises every day. This has resulted in a competent set of products that can be used to improve the usable value of each window type.



## RC2 SAFETY CERTIFICATE



### MVS CONTACT

By breaking the magnetic contact, we communicate information about the position of the window sash.



### SAFETYGLASS

Additional glass panes and anti-burglary foils are added to the classic three-layered thermopan. In addition to thermal characteristics, this also provides protection against breakage.

### HANDLE WITH ADDITIONAL LOCKING

### MULTI-POINT PROTECTION

Increased number of locks on the the sash and frame for increased security.



## CLASSIC HINGE



## HIDDEN HINGE

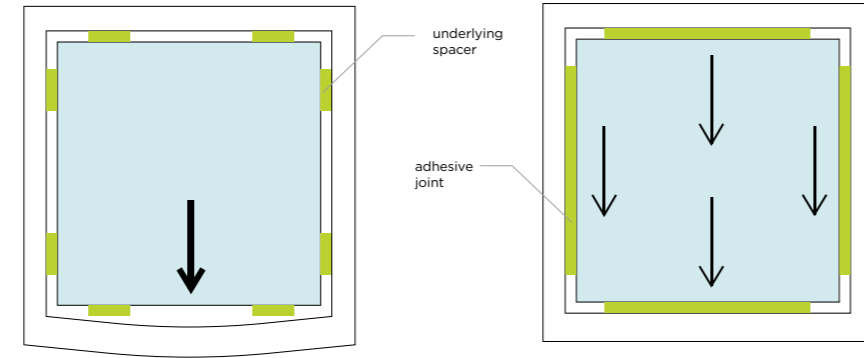


## ADDITIONAL EQUIPMENT

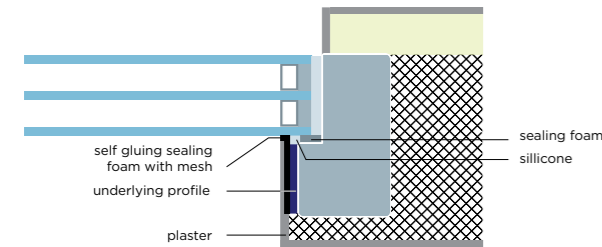
With additional equipment, we upgrade security, save energy and offer a wide selection of window sills, handles and other systems that improve the user experience.

# GLASS

Glass is a valuable layer between the inside and outside. This is one of the key elements of achieving comfort in a room, as it provides the basic function of the window, on one hand and on another, takes care of a number of other important effects - from obscuring the views to saving energy and noise protection.



## COMPLETE COVERAGE OF THE PANORAMIC SYSTEM

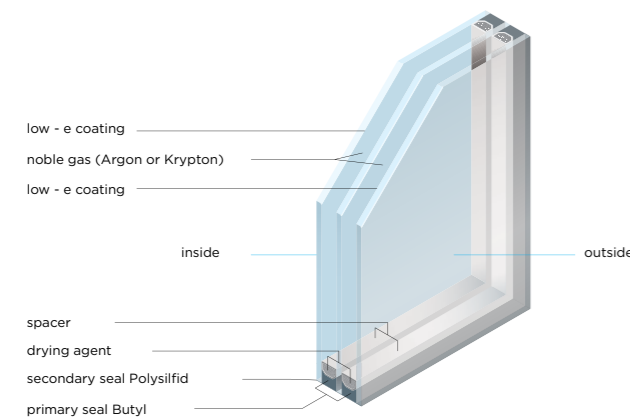


## GLASS GLUING

Using the glass gluing technique, the glass is glued to the sash along the entire edge. The weight of the glass is thus transferred and evenly distributed on all four sides of the profile. The sash with glued glass remains stable and sags less due to good weight transfer. Glued glass is also one of the requirements of the RC2 security level recommended by the police. In case of glass damage, it can be quickly and safely replaced on site. The glazing slats are removed, the glue is cut out and new glass is re-glued to the sash. Due to the stability of the wing thus obtained, additional steel reinforcements, which are good thermal conductors, can be omitted for large elements and glass-fiber-reinforced plastic can be used instead for reinforcement.

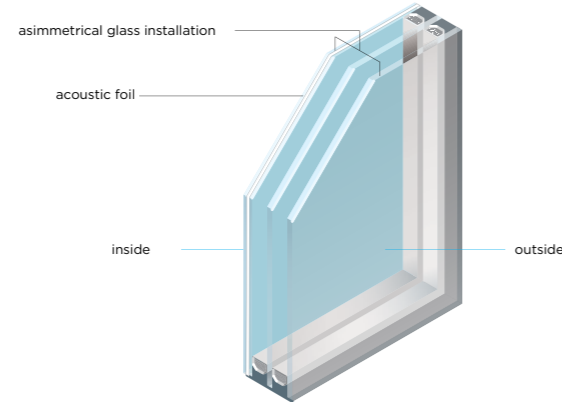
## TRIPLE GLASS

4-/18Ar/4/18Ar/4  $U_g = 0,5 \text{ W/m}^2\text{K}$   $g = 0,54$   $R_{w} = 34 \text{ dB}$



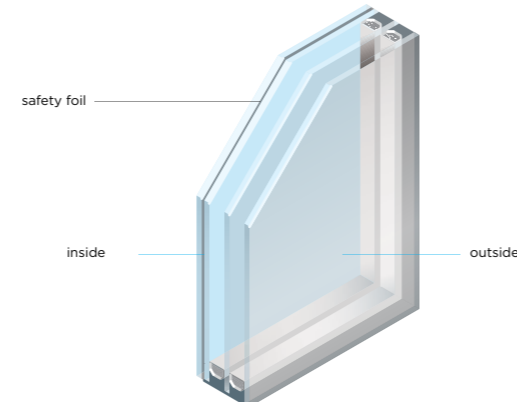
## ACOUSTIC GLASS

8-/16Ar/4/16Ar/44.2A  $U_g = 0,6 \text{ W/m}^2\text{K}$   $g = 0,50$   $R_{w} = 45 \text{ dB}$



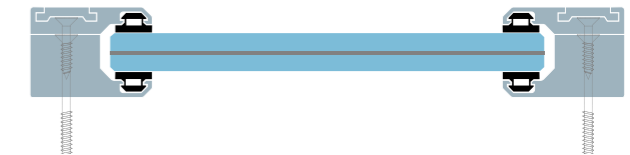
## SAFETY GLASS

4ESG-/16Ar/4ESG/16Ar/44.4  $U_g = 0,6 \text{ W/m}^2\text{K}$   $g = 0,50$   $R_{w} = 41 \text{ dB}$



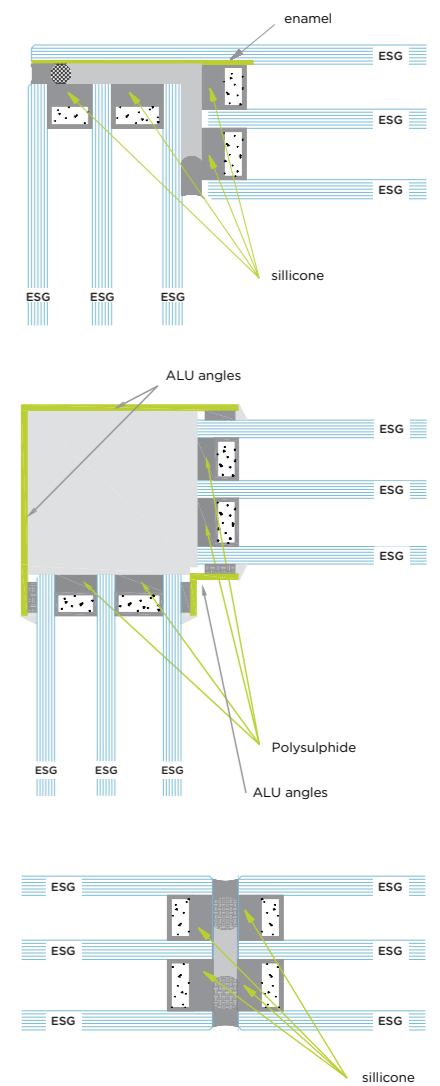
# GLASS RAILINGS

In a discreet way, we achieve safety standards against falls into the depths with glass railings, which in an elegant way enable the installation of panoramic glazing extending all the way from floor to ceiling, even in the upper floors.





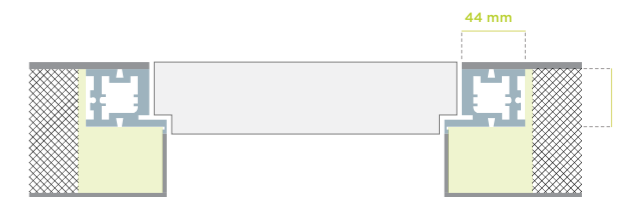
## GLASS JOINTS





## INTERIOR DOORS

Treat yourself with elegance. Harmony interior doors with hidden aluminum frames provide a modern look to your home.



## WOODEN WINDOWS

Profile dimensions (mm)		NATURE	NATURE 3	NATURE PASSIVE	NATURE E92	NATURE E112	NATURE OPTIMO	NATURE OPTIMO L	NATURE OPTIMO X	NATURE OPTIMO XL
installation depth		68 mm	68 mm	68 mm	93 mm	113 mm	93 mm	68 mm	68 mm	110 mm
visible width		118 mm	122 mm	100 mm	98 mm	117 mm	107 mm	122 mm	100 mm	116 mm
Thermal insulation of window ( $U_w$ )	$U_g = 1,1 \text{ W/m}^2\text{K} / 0,194$	1,2 / 0,211								
	$U_g = 1,0 \text{ W/m}^2\text{K} / 0,176$	1,2 / 0,211								
	$U_g = 0,7 \text{ W/m}^2\text{K} / 0,123$			0,95 / 0,167	0,87 / 0,153	0,83 / 0,146	0,92 / 0,162	0,91 / 0,160	0,90 / 0,159	0,89 / 0,157
	$U_g = 0,6 \text{ W/m}^2\text{K} / 0,106$		0,91 / 0,160	0,86 / 0,151	0,81 / 0,143	0,75 / 0,132	0,84 / 0,148	0,83 / 0,146	0,82 / 0,144	0,81 / 0,143
	$U_g = 0,5 \text{ W/m}^2\text{K} / 0,088$			0,77 / 0,136	0,73 / 0,129	0,66 / 0,116	0,75 / 0,132	0,75 / 0,132	0,73 / 0,129	0,73 / 0,129

\* $U_w$  (EU) /  $U$  (USA)

## WOOD - ALU WINDOWS

Profile dimensions (mm)		COMFORT	COMFORT 3	COMFORT PASSIVE	COMFORT QS	COMFORT 3Q	COMFORT 3QL	COMFORT E92	COMFORT E112	COMFORT OPTIMO L	COMFORT OPTIMO XL	COMFORT OPTIMO XLS	ULTIMO	VISION XL
installation depth		85 mm	85 mm	85 mm	85 mm	85 mm	85 mm	85 mm	129 mm	113 mm	130 mm	95 mm	85 mm	85 mm
visible width		107 mm	107 mm	108 mm	107 mm	107 mm	108 mm	107 mm	114 mm	107 mm	107 mm	104 mm	108 mm	108 mm
Thermal insulation of window ( $U_w$ )	$U_g = 1,1 \text{ W/m}^2\text{K} / 0,194$	1,3 / 0,229			1,2 / 0,211									
	$U_g = 1,0 \text{ W/m}^2\text{K} / 0,176$	1,2 / 0,211			1,2 / 0,211									
	$U_g = 0,7 \text{ W/m}^2\text{K} / 0,123$		0,97 / 0,171	0,98 / 0,173	0,98 / 0,173	1,00 / 0,176	0,88 / 0,155	0,84 / 0,148	0,92 / 0,162	0,92 / 0,162	0,95 / 0,167	0,98 / 0,173		
	$U_g = 0,6 \text{ W/m}^2\text{K} / 0,106$		0,88 / 0,155	0,90 / 0,159	0,90 / 0,159	0,93 / 0,164	0,79 / 0,139	0,76 / 0,134	0,84 / 0,148	0,83 / 0,146	0,86 / 0,151	0,89 / 0,175	0,88 / 0,155	
	$U_g = 0,5 \text{ W/m}^2\text{K} / 0,088$			0,82 / 0,144	0,82 / 0,144	0,85 / 0,150	0,71 / 0,125	0,68 / 0,120	0,75 / 0,132	0,75 / 0,132	0,78 / 0,137	0,81 / 0,143	0,81 / 0,143	

\* $U_w$  (EU) /  $U$  (USA)

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