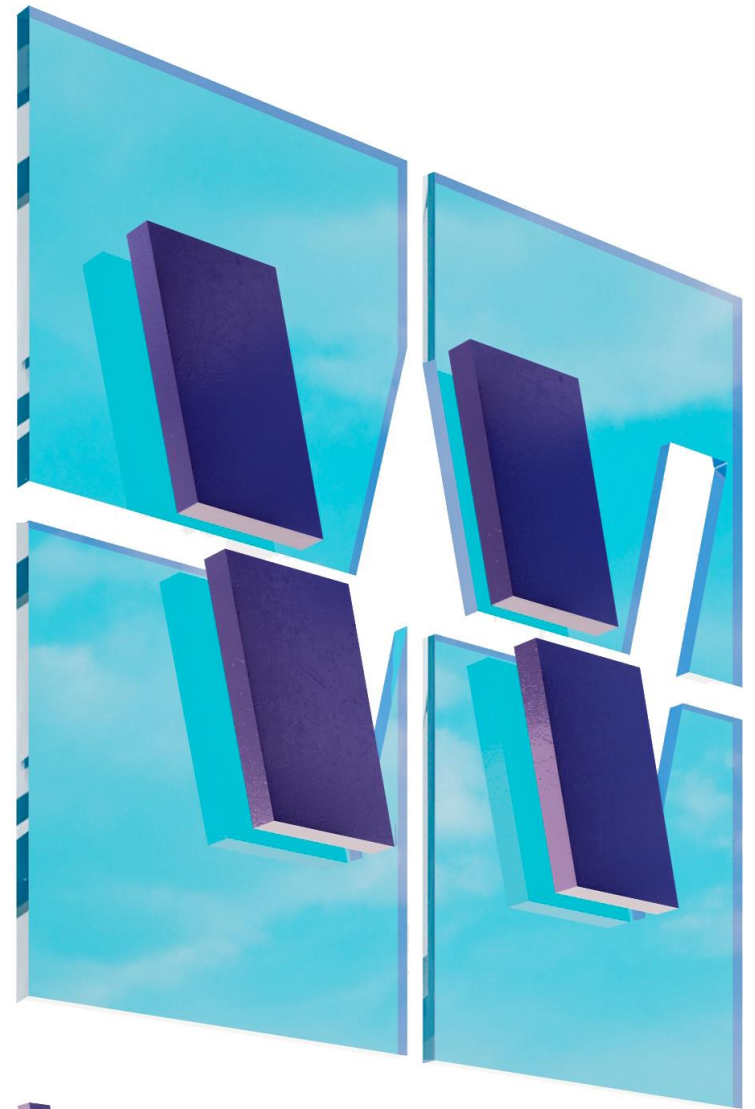




**WINDORA**  
WINDOWS + DOORS + FACADES



**WINDORA**

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## Welcome to Windora

Windora is a team of highly skilled experts specializing in the supply and installation of replacement windows and doors in Ontario and Quebec. We provide a diverse range of PVC – U and Aluminum windows, exterior doors, and sliding doors, equipped with advanced Tilt and Turn and Lift and Slide hardware technology.

Our main focus is on delivering top-notch, energy-efficient windows and doors that are tailored to meet your specific architectural needs.

## How it works

At our company, we have a streamlined process for delivering high-quality windows to our customers. It all starts with a thorough consultation where we understand our clients' needs and preferences.

From there, our production team works diligently to create the perfect windows, utilizing top-notch materials and craftsmanship. Once the windows are ready, we handle the delivery and ensure they arrive safely at your doorstep.

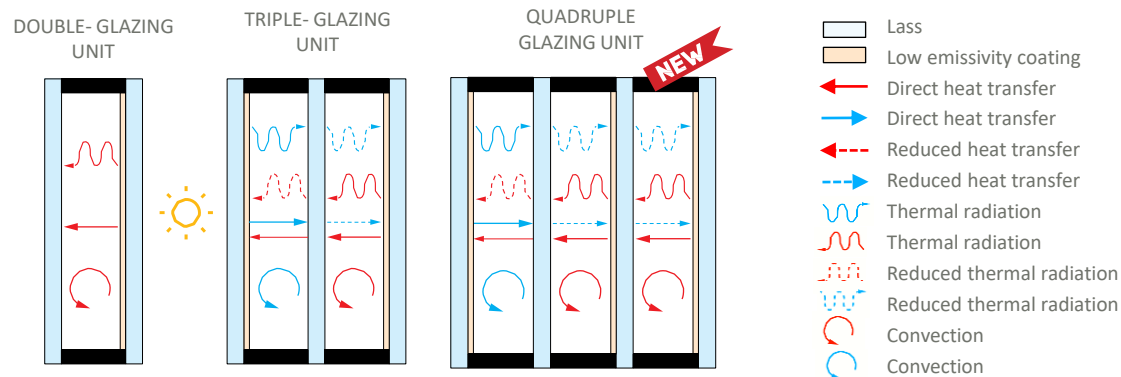
Finally, our expert installation team takes care of fitting the windows seamlessly into your space, leaving you with a flawless result.

# What we get from windows?

## 1. FOR BETTER THERMAL INSULATION



In matters related to the energy efficiency and thermal insulation of buildings, particular attention is paid to the windows, as they account for up to 40 % of heat loss.



\* Due to the two separate hermetically sealed chambers and low emissivity coatings, losses from heat transfer are curbed with the triple-glazed unit.

### What does improved thermal insulation mean?

It is a combination of:

- The choice of profile
- IGU selection
- The choice of a warm edge spacer/High selective spacer

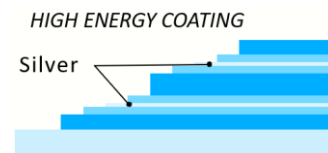
The wider the profile, the better thermal insulation is achieved, especially in combination with a triple-glazing unit with 2 coated panes and argon gas. By choosing a unit created with a high selective spacer, you will achieve a 10 % improvement in thermal insulation and prevent the possibility of condensation.

## 2. FOR BETTER SOLAR PROTECTION



Solar protection of a room can be achieved using several different products exterior blinds, exterior shutters, interior blinds and units with high energy coating.

High-energy glass 4S Evolution is with one silver coating  
High-energy glass + is with two silver coating



## 3. FOR BETTER SOUND PROOFING



The dynamic daily life and car traffic in the big city, combined with the constant construction and repair works make us pay more and more attention to one serious factor – noise, on which our daily comfort and health depends on.

### The following elements are also crucial for increasing sound proofing:

- Choosing the right profile
- Tripple rubber sealing of the frame
- A thick reinforcing profile
- Choosing the right combination of glass panes
- Good sealing with mounting foam and subsequent finishing works

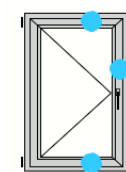
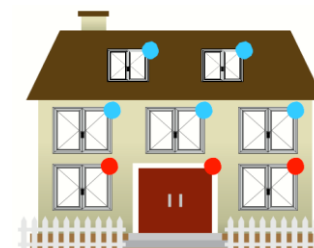
\*\*\* The most crucial element is the combination of panes in the unit.

## 4. FOR BETTER SECURITY

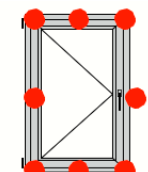


Statistics show that the most frequent break-in attempts are done through the windows. Windora offers products with a basic security Basis+, with a minimum of 2 security points of locking and a Hoppe Secustik handle.

For a higher level of security, we recommend a security hardware with a security level RC2 or RC3 with 7-point locking, a Hoppe Secustik handle, with a key and burglary-resistant laminated glass 4.4.2. in at least one of the panes in the IGU.



● Basis+

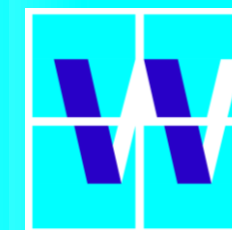


● RC2 or RC3

## 5. INTERIOR AND EXTERIOR SOLUTIONS



Last but not least, many people replace their windows for reasons entirely related to architecture and design. They have specific requirements for the form, palette, decorations, ect.



# WINDOWS

Windora innovations fulfils all requirements of both today and the future. The high tensile structure inside the PVC-U window profiles can take the 58 mm triple glazing format to next level of greatness fulfilling certified passive house performance.



TROCAL 88

TROCAL 76

TROCAL 70

SCHUCO  
AWS 90.SI +  
AW CT 72

REYNAERS  
CS 77

WOODEN +  
ALUMINIUM

TROCAL 88  
INNOVATIONS

FEATURES

TROCAL 88



Centre Seal



TROCAL 88 window innovations fulfils all requirements of both today and the future. The high tensile structure inside the PVC-U window profiles can take the 58 mm triple glazing format to next level of greatness fulfilling certified passive house performance.



White



Metbr Silver



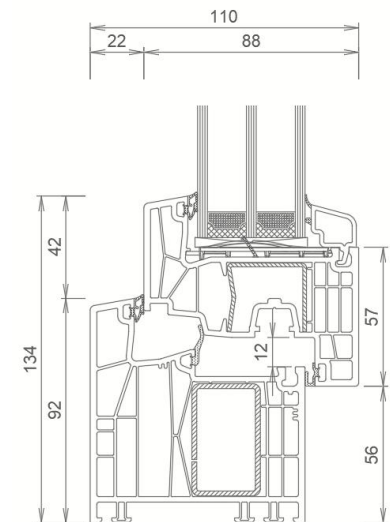
Anthracite



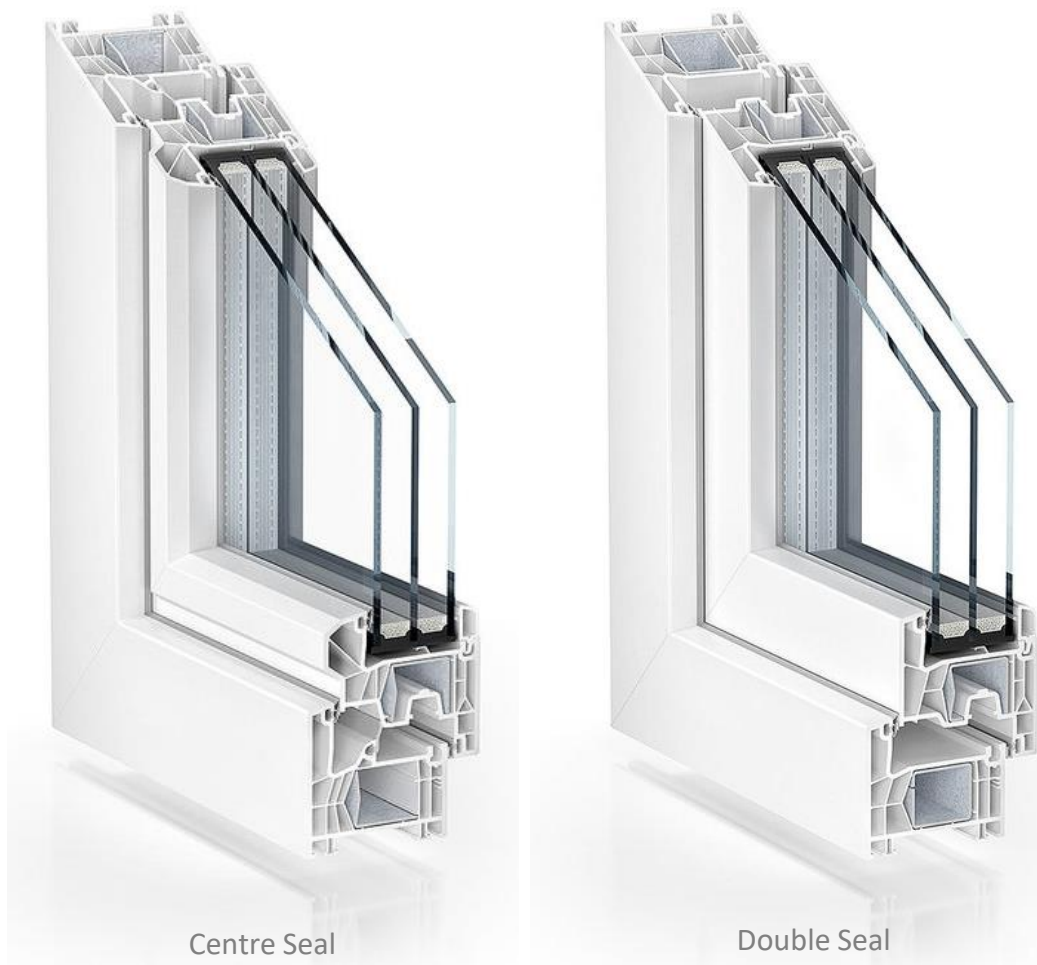
Golden Oak

TROCAL 88 PVC-U

- Passive house certified in accordance with ift directive WA-15/2.
- Excellent heat insulation values:  $U_g$  value = 0.5  $W/(m^2K)$  and  $U_w$  up to 0.72  $W/(m^2K)$ .
- Wide range of glazing options up to 58 mm thick, from triple glazing to special functional glazing.
- Foils in wood texture, plain and metallic colors or classic white.



TROCAL 76



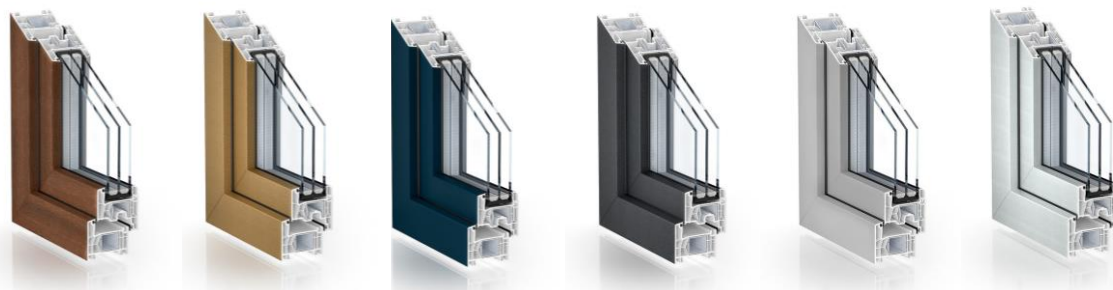
Centre Seal

Double Seal



TROCAL 76 offers timelessly elegant design of the slender sash and outer frame profiles.

Our greenline principle: energy efficient window systems, lead free stabilizers in virgin material, and intelligent recycling concepts provide that extra sustainability.



Walnut

Bronze

Black grey

Antracite

Agate grey

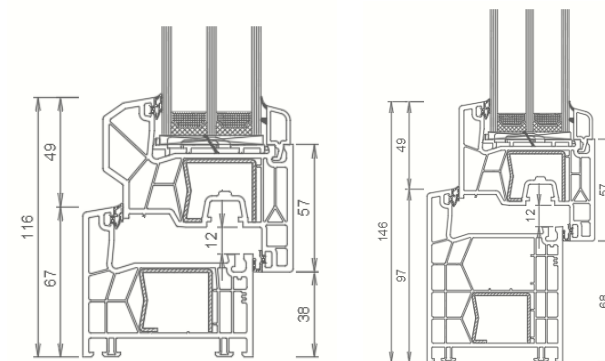
Silver

TROCAL 76 PVC-U

- High heat insulating double seal system with a 76 mm construction depth providing  $U_w$  1.1 W/m<sup>2</sup>K.
- Innovative seals for optimised sound insulation: 47 Db.
- Wide range of glazing options up to 50 mm, from triple glazing to special functional glazing.
- State-of-the-art adhesive technology.
- Use of solar energy gains.

Centre Seal

Double Seal



TROCAL 70



Double Seal



TROCAL 70 is a modern window system in its own class. A PVC-U is based on an innovative five chamber technology – with an installation depth of 70 mm. Perceptible heating cost savings, high sound insulation, reliable burglary protection, and a wide range of design options.

TROCAL 70 is such suitable, so old windows can be replaced with no trouble at all.



White



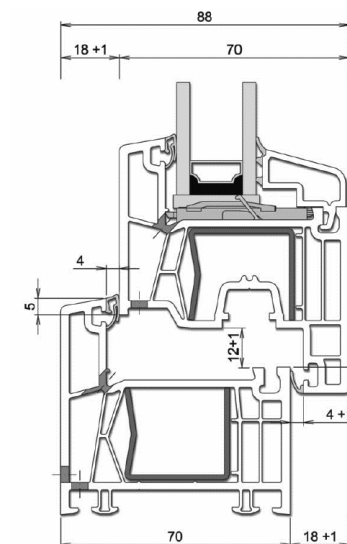
Golden Oak



Anthracite

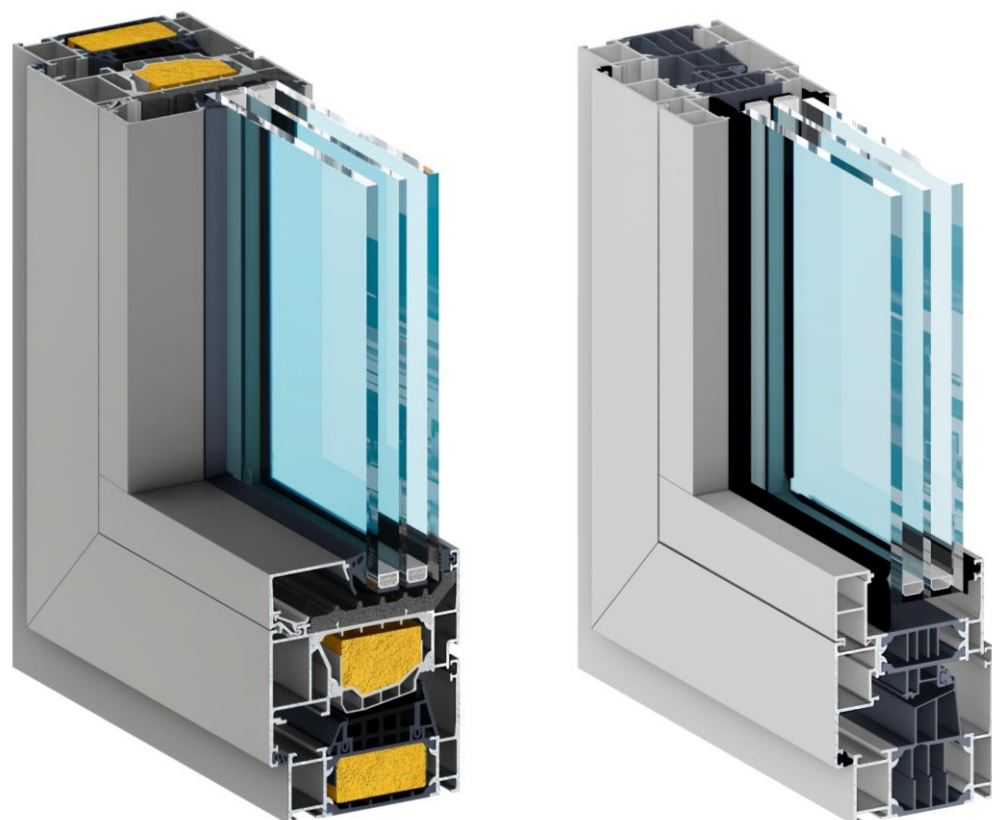
TROCAL 70 Double Seal

- Classic offset window design with narrow profile sight lines.
- Increased thermal insulation with a  $U_w$  value of up to 1.2  $W/(m^2K)$ .
- Wide range of glazing variants up to 44 mm thick for the use of triple glazing or special functional glazing.
- Improved quality of life thanks to perfect noise protection.
- Outstanding handling ease and reliable functionality thanks to the most advanced technology.





SCHÜCO AWS 90.SI+ | AW CT 72



AWS 90.SI+

AW CT 72

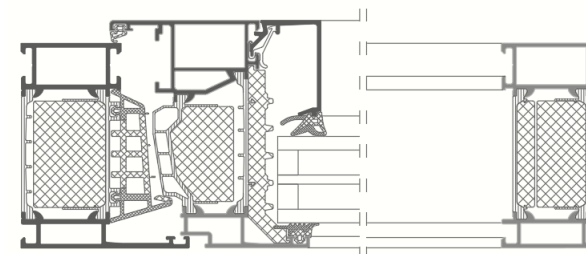


The Schüco AWS 90.SI+ (Super Insulation) and AW CT 72 window systems perfectly meet structural requirements while offering the greatest possible design freedom – including optimised thermal insulation and passive house certification.

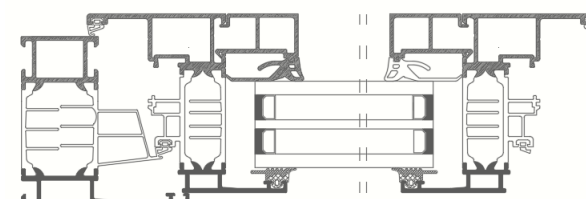
**SCHÜCO AWS 90.SI+**

- The aluminium window offers a high level of flexibility for implementing attractive design solutions in building envelopes.
- The wide range of opening types includes designs such as side-hung, turn/tilt and tilt/slide vents as well as barrier-free opening units.
- The window system with maximum thermal insulation thereby sets standards in terms of planning and design flexibility for the construction of energy-efficient envelopes.

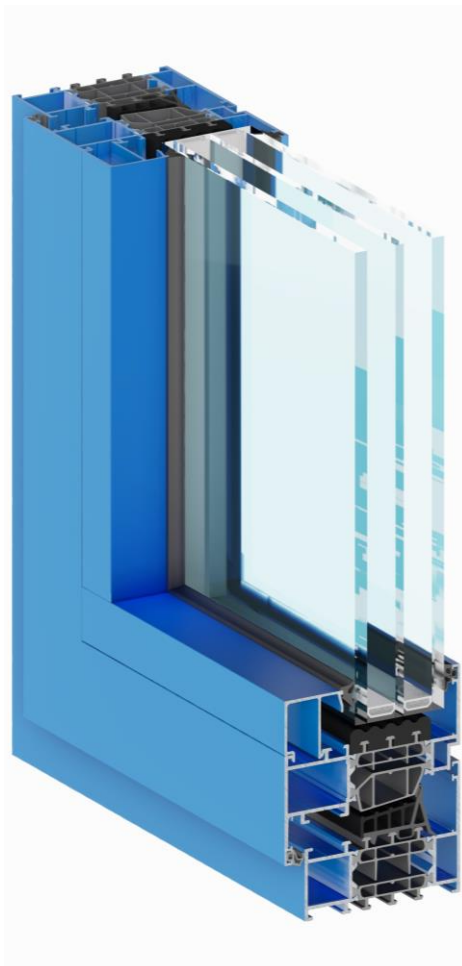
AWS 90.SI+



AW CT 72



REYNAERS CS 77

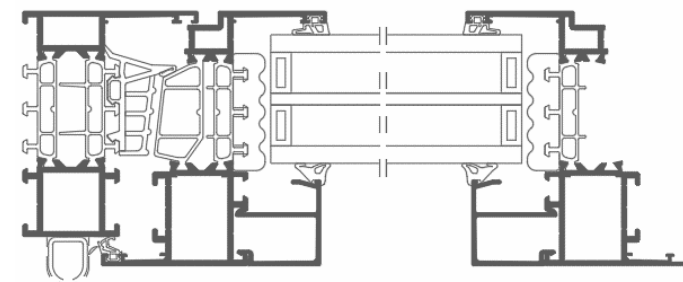


The CS 77 profile system offers a comprehensive range of solutions for all types of inward and outward opening windows. Thanks to its many possible combinations, the CS 77 is therefore ideally suited to all types of building concepts – even for those with the highest safety requirements.

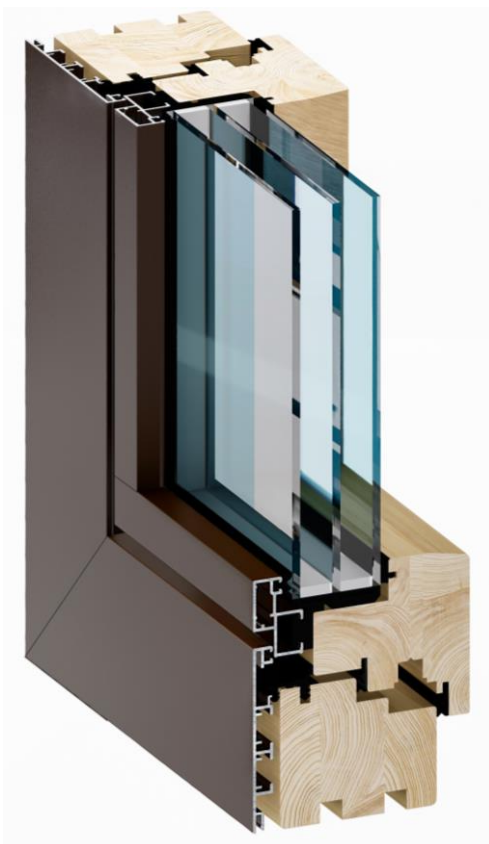


REYNAERS CS 77

- Installation depth of the entire window system: 68 mm
- Uf-value of up to 1.8 W/m<sup>2</sup>K (depending on frame/casement combination and filling thickness)
- Uw-value below 0.95 W/m<sup>2</sup>K for a standard window (dimensions 1.23 x 1.48 m, Ug 0.6 W/m<sup>2</sup>K)
- Thermal break and ideal suitability for triple glazing
- Glass fiber reinforced multi-chamber hollow bars made of polyamide



WOODEN SYSTEM | ALUMINIUM LID



WOODEN 78 + ALUMINIUM LID



WOODEN SYSTEM 78



Profile system Comfort is made of wood and aluminum with double-insulating system of the wing.

The wooden profile system is made of an ecological material. It is entirely natural and therefore the only possible solution for homes built primarily with natural materials, which is an extremely important factor for the occupants' health.

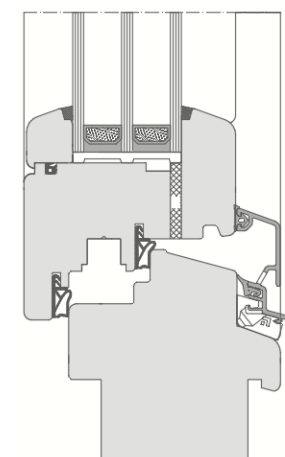


WIDE RANGE OF COLORS FOR BOTH WOOD & ALUMINIUM

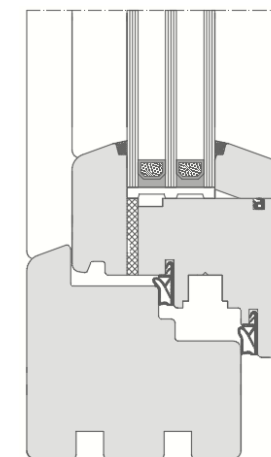
**WOODEN SYSTEM 78**

- These products have a basic security level of RC2, ActivPilot fittings, and a double sealing system on the sash.
- Excellent heat insulation values:  $U_w = 0.8 - 1.2 \text{ W}/(\text{m}^2\text{K})$ .
- Innovative seals for optimised sound insulation: 32 - 44 Db.
- Wooden windows are easy to install and are long-lasting.
- They can be easily dyed in the color you like, with high durability in external and internal conditions.

WOODEN 78 + ALUMINIUM LID



WOODEN 78

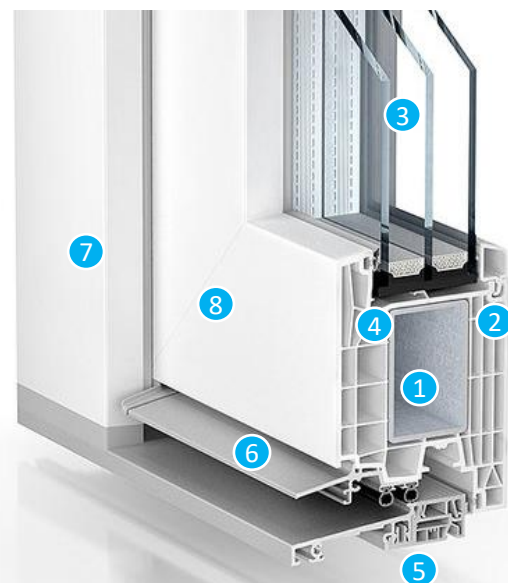


TROCAL 88 Innovations



Window

Add On



Door



**1 High functional reliability**

The maximum-dimensioned steel reinforcements guarantee high functional reliability and enable the windows to be used for window walls and wing doors of up to 2.5 m in height.



**2 Perfect multi-chamber design.**

The profile geometries are designed with optimum isothermal characteristics, calculated with the latest methods, for outstanding heat insulation and soundproofing values and optimum profile stability.



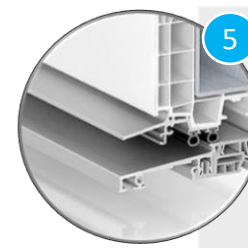
**3 Glazing options**

The deep glass rebate permits the use of triple glazing, special functional glass or door panels up to 58 mm thick.



**4 Seals**

Double seals and barrier-free thresholds with thermal break ensure a perfectly tight fit.



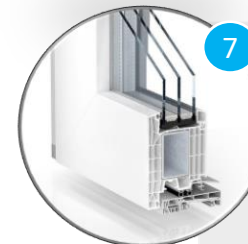
**5 For extreme installation situations.**

Aluminium weather boards and a rebate pad set provide additional protection against driving rain.



**6 Professional connection.**

The threshold connectors ensure perfect fit and a tight seal between the frame and the threshold.



**7 Variability**

The inward and outward opening residential door system is optionally available with aluminium covers.



**8 Attractive design**

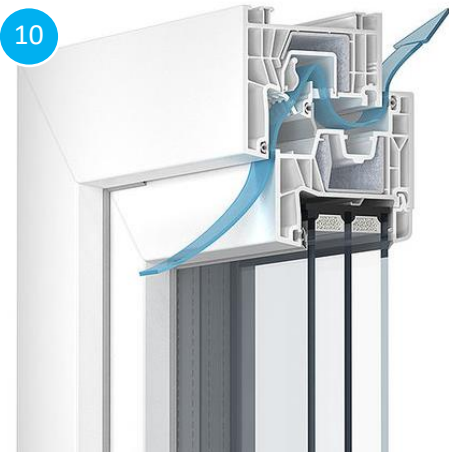
Linear, recessed design with the perfect profile proportions.



**9 Add On**

Thanks to its combination of PVC-U and aluminium, plus the additional pane TROCAL 88 AddOn provides an excellent protection for the integrated louvre which can be operated easily by hand or with an electric motor.

FEATURES | OPTIONS



10

**ClimaTec**

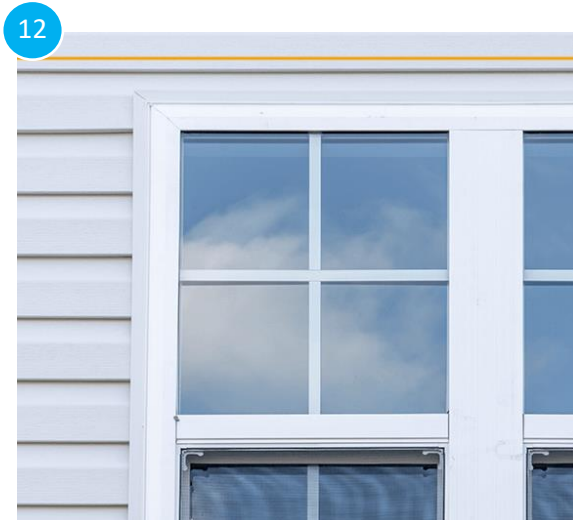
It provides for a controlled supply of fresh air without manual ventilation and does not need a power supply.



11

**Window air grill**

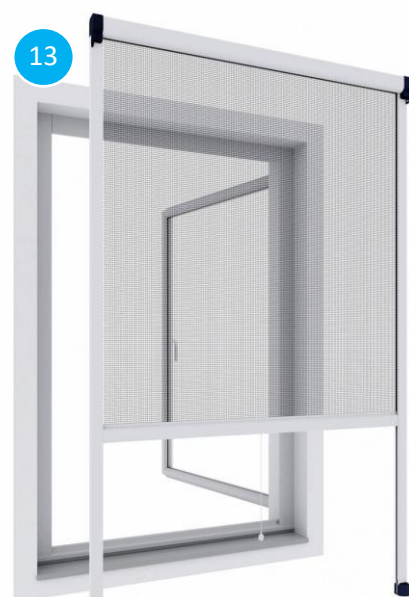
In addition to security, window grills can also enhance the aesthetic appeal of your home.



12

**Inside Argon chamber divisor**

Aluminium rib, RAL colors

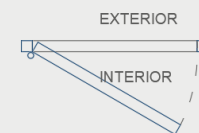


13

**Insect Screens**

The screens are made in coordination with the size of the windows and doors.

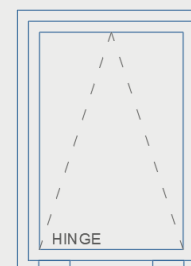
**INWARD OPENING**



**OUTWARD OPENING**



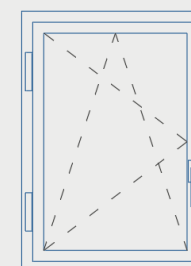
**TILT UPWARDS**



EXTERIOR



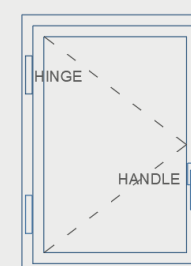
**TILT & TURN**



EXTERIOR



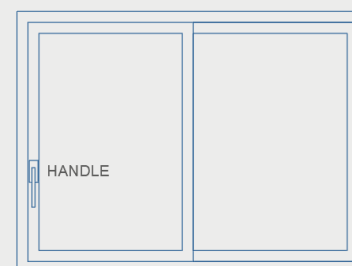
**TURN**



EXTERIOR



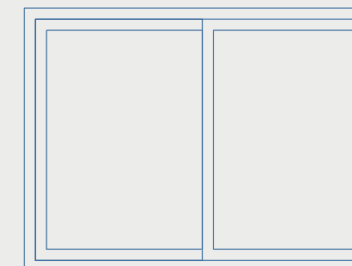
**SLIDE L2R**



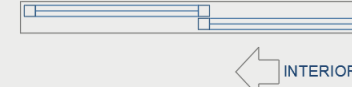
EXTERIOR



**SLIDE R2L**



EXTERIOR





Windora window innovations fulfils all requirements of both today and the future. The high tensile structure inside the PVC-U window profiles can take the 58 mm triple glazing format to next level of greatness fulfilling certified passive house performance.

**PARALLEL  
SLIDING**

**TROCAL 88  
PREMIDOOR**

**TROCAL 76  
PREMIDOOR**

**SCHUCO  
ASE 80**

**ETEM**



## PARALLEL SLIDING VW

SLIDE



Standard

A big advantage of sliding and tilt windows is the lack of limiting the living space by preventing the opening of windows inwards.

At the PSK doors rotation is parallel to the fixed leaf, one wing of which is motionless and the other one is movable.



Tilt

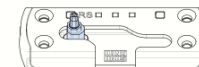
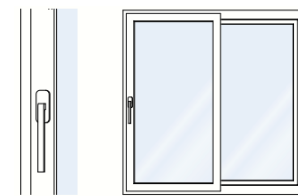


Slide

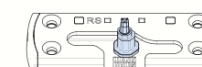
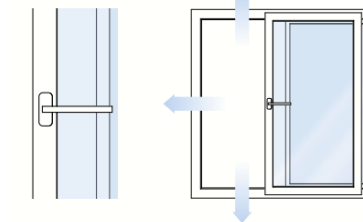


Sliding Door

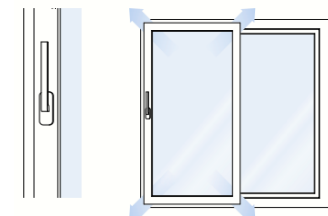
closed



open



Parallel opening up to 6 mm



### PRODUCT ADVANTAGES

- Concealed central locking system from the modular activPilot system
- Also for deep sash profiles – e. g. for highly heat-insulating window systems
- For sash weights up to 160 kg
- Frame parts matched to numerous window profiles for efficient mounting
- Smooth and gentle running capacities due to well-proven shear and bogie construction
- Safe operating convenience during the sliding process and during ventilation

# TROCAL PREMIDOOR 88

SLIDE



Premidoor 88 Standard



Premidoor 88 Lux

The PremiDoor 88 slides opens with the greatest of ease at all times, with the highest opening and closing comfort.

The “Lux” version presents PVC-U profiles with extremely slender sight lines, and does away with the sash profile at the fixed glazing for an even larger glazed area for more naturalness.



Golden Oak



Center section White



White



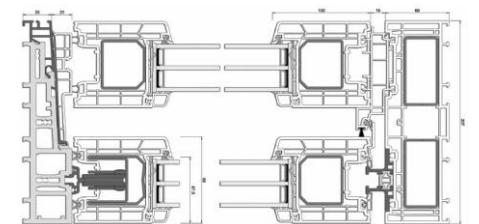
Golden Oak



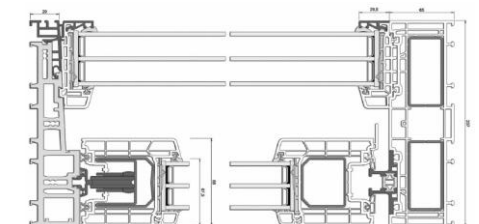
## PREMIDOOR 88 LIFT/SLIDING

- Profile construction depth of 88 mm for maximized thermal insulation.
- Excellent heat transfer coefficient  $U_f = 1.2 - 1.3 \text{ W}/(\text{m}^2\text{K})$ , an optional UD value of max  $0.8 \text{ W}/(\text{m}^2\text{K})$  is possible.
- Lamination or aluminium covers and surfaces.
- Elegantly slim sash with 100 mm and casement with 65 mm sight line.
- Concealed fastening through installation channels.

## Premidoor 88 Standard



## Premidoor 88 Lux

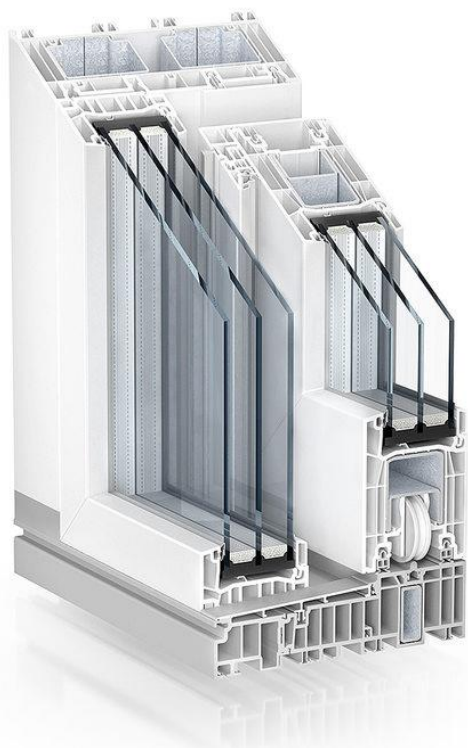




# TROCAL PREMIDOOR 76



Premidoor 76 Standard



Premidoor 76 Lux

TROCAL 76 offers outstanding thermal insulation value of  $U_f = 1.4 \text{ W}/(\text{m}^2\text{K})$  that is achieved by the 76 mm installation depth, a special glazing rebate seal and a unique sealing system with high-volume central seal in the centre fastener.



Grey

Silver

Central partie White

Dark Red

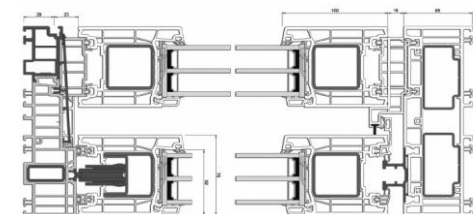
Golden Oak



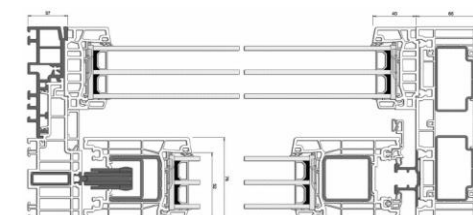
## PREMIDOOR 76 LIFT/SLIDING

- Barrier-free thresholds realised in conformance with standards.
- Large installed heights and glazed areas.
- Greater passage of light and solar energy gains.
- Ease of handling when opening and closing.
- Sustainable, recyclable system solution of environmentally friendly, lead-free PVC-U profiles.
- Optimal thermal insulation up to  $1.4 \text{ W}/(\text{m}^2\text{K})$  as standard

## Premidoor 76 Standard



## Premidoor 76 Lux





ES 64 Less Frame 2.0



ES 70



ES64 is the new minimal thermally broken sliding window system by ETEM, that provides a modern and minimalist aesthetic.

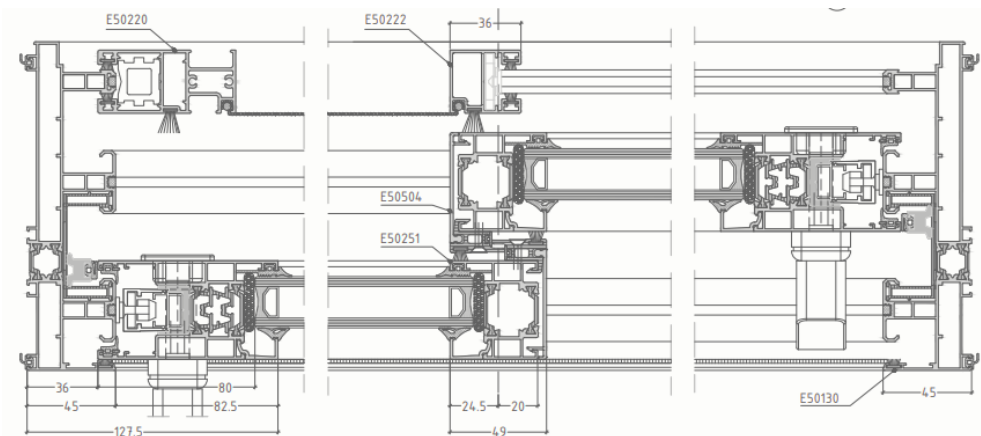
Thanks to the sleek and minimal profiles' design, the frame can be fully integrated, ensuring the maximum natural lighting.

ES70 with its 70mm sash thickness the system caters to glazing up to 50mm, making it an ideal choice for windows and doors in residential projects, villas etc.

The 400kg sash weight allowance accommodates the kind of large features that are often desirable in construction, such as restaurants, shops and galleries.

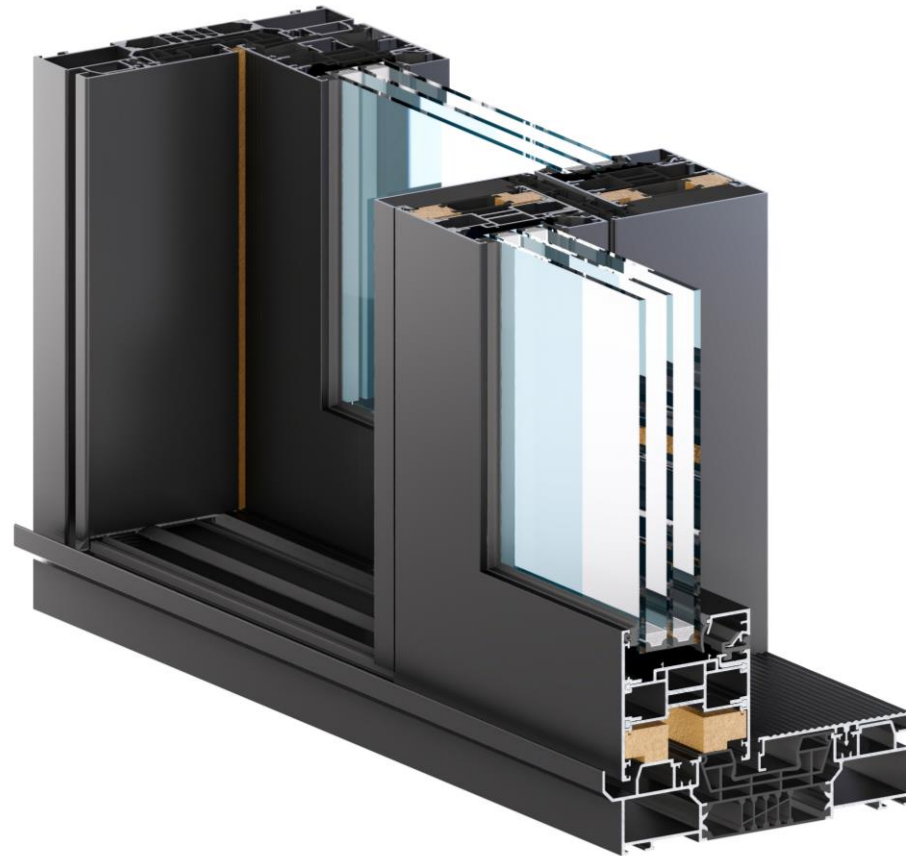
#### ETEM ES64 LESS FRAME 2.0

- Air permeability: Class 4
- Heavy duty Lift & Slide system for sash weight up to 400kg.
- Unique "frameless" structural glazing solution.
- Special anti-bimetal effect polyamides.
- Q-Ion gaskets for improved insulation and easy operation.
- Water tightness: Class E750
- Resistance to wind load: Class 4
- Thermal transmittance:  $U_f = 1,9 \text{ W/m}^2\text{K}$



## SCHUCO LIFT AND SLIDE SYSTEM ASE 80.HI

SLIDE



Standard

### The latest generation of highly thermally insulated sliding and lift-and-slide systems

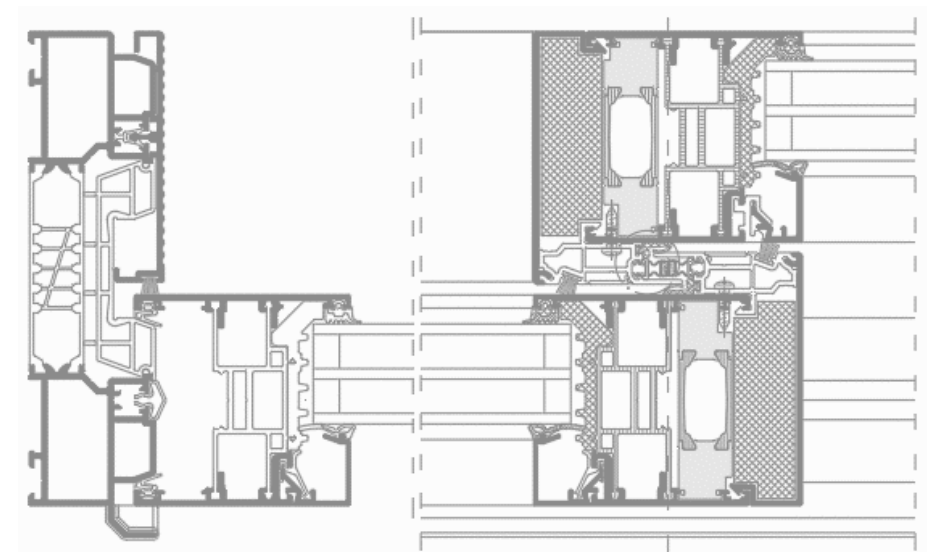
Schüco ASE 80.HI (High Insulated) sliding and lift-and-slide system offers elegant design solutions for sustainable, user-oriented architecture to passive house level.

The modular and scalable aluminium profile system captivates with the reduced DesignLine interlock section of the vents, which allows the frame units to visually recede into the background.

The level threshold allows the inside and outside areas to transition into one another harmoniously and without barriers.

### PREMIDOOR 76 LIFT/SLIDING

- Multifunctional components and prefabricated construction parts reduce fabrication time and increase process reliability
- Vent fabrication without rolling: the split connection reduces the bi-metallic effect and meets increased security requirements
- The use of a single range of fittings for sliding and lift-and-slide applications reduces complexity and storage



## WINDORA IV 92

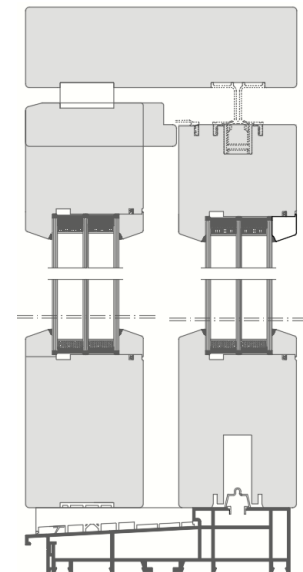


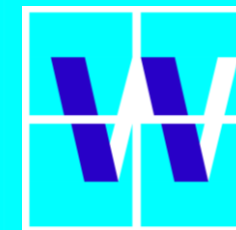
A wooden system that comes in 78mm or 92mm types, offering full RAL colors



## WINDORA IV 92

- Barrier-free thresholds realised in conformance with standards.
- Large installed heights and glazed areas.
- Greater passage of light and solar energy gains.
- Ease of handling when opening and closing.
- Optimal thermal insulation up to 1.2 W/(m<sup>2</sup>K) as standard
- Protection against forced entry up to RC2
- Large variety of natural wood colors.





Windora window innovations fulfils all requirements of both today and the future. The high tensile structure inside the PVC-U window profiles can take the 58 mm triple glazing format to next level of greatness fulfilling certified passive house performance.



**PARALLEL  
SLIDING**

**TROCAL 88  
PREMIDOOR**

**TROCAL 76  
PREMIDOOR**

**SCHUCO  
ASE 80**

**ETEM XX**

## TROCAL 88 Doors



Inward opening



Outward opening

The TROCAL 88 residential door system of PVC-U features an ultra modern six chamber design with an installation depth of 88 mm.

It offers you top engineering performance in every respect. Your high tech door is your warranty of high security, outstanding thermal insulation, reliable tightness, and impressive static properties.

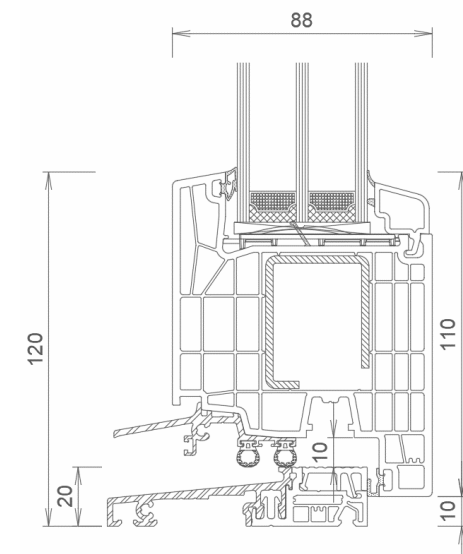


## TECHNICAL DATA

- High insulation profile cross section with 88 mm construction depth - UD value up to 1,1 W/(m<sup>2</sup>K)
- panelling up to 58 mm thick
- High tightness with weather seal to barrier free residential door threshold with thermal break

**Maximum sash sizes:**

- Residential door, single-sash 1200 x 2400 mm
- Residential door, floating mullion sash 1000 x 2400 mm



## TROCAL 76 Doors

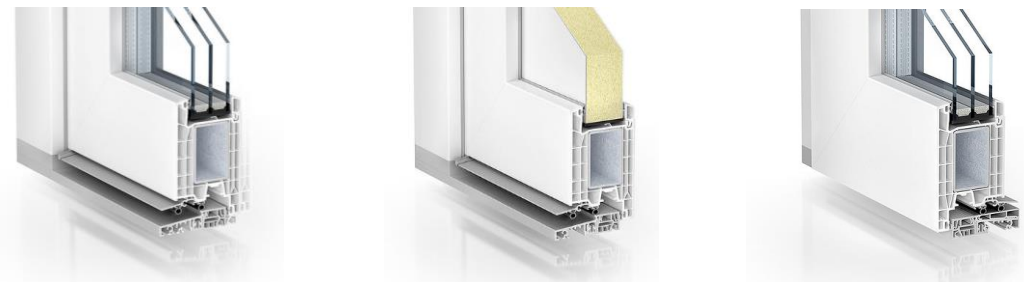


Golden Oak PAN

Outward opening White

TROCAL 76 PVC-U residential doors exhibit outstanding thermal insulation.

The residential door panelling can make use of modern functional glazing in a great many surface patterns and colours, panes with LED effect lighting, or motif glazing, or you can choose from the extensive prefabricated panel range from renowned manufacturers.



Inward White

Inward White PAN

Outward White GLA

## Door Panel Models



VENICE



RIGA



AMSTERDAM



DREZDEN



DUBROVIK



COPENHAGEN



PISA



WARSHAVA



MARIBOR



FRANKFURT



SIDNEY



BERN



PRAGA



LISABON



MILANO



VALENCIA

## WOODEN / ALUMINIUM Doors



Wooden Profile Zero



Wooden Profile



Aluminium Profile Zero

**TROCAL 76WOODEN PROFILE ZERO**

- A wooden system with a Winkhaus frame and Simonswerg hinges for maximum security.
- Coefficient of heat transfer:  $U_f =$  up to 1.3 W/m<sup>2</sup>k

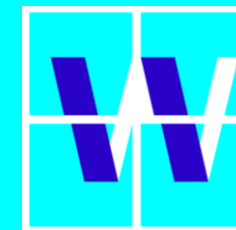
**WOODEN PROFILE**

- A wood profile with a Winkhaus frame and Simonswerg hinges; with maximum structural stability for optimal home security, with multi-point locking and double-insulating wing system.
- Coefficient of heat transfer:  $U_f =$  up to 1.3 W/m<sup>2</sup>k

**ALUMINIUM PROFILE ZERO**

- Etem E75 system with system frames and BKV hinges for maximum security.
- Coefficient of heat transfer:  $U_f =$  up to 1.4 W/m<sup>2</sup>k





WINDORA window innovations fulfils all requirements of both today and the future. The high tensile structure inside the PVC-U window profiles can take the 58 mm triple glazing format to next level of greatness fulfilling certified passive house performance.



**GLAZED FACADE  
SYSTEMS**

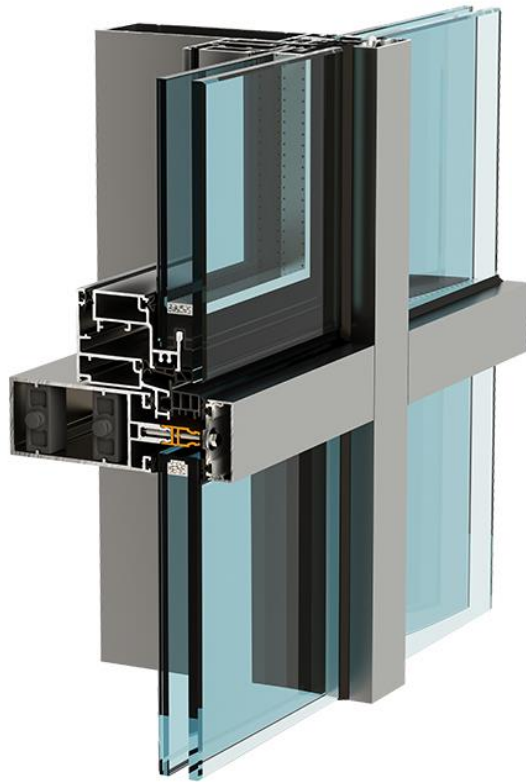
**TROCAL 88  
PREMIDOOR**

**TROCAL 76  
PREMIDOOR**

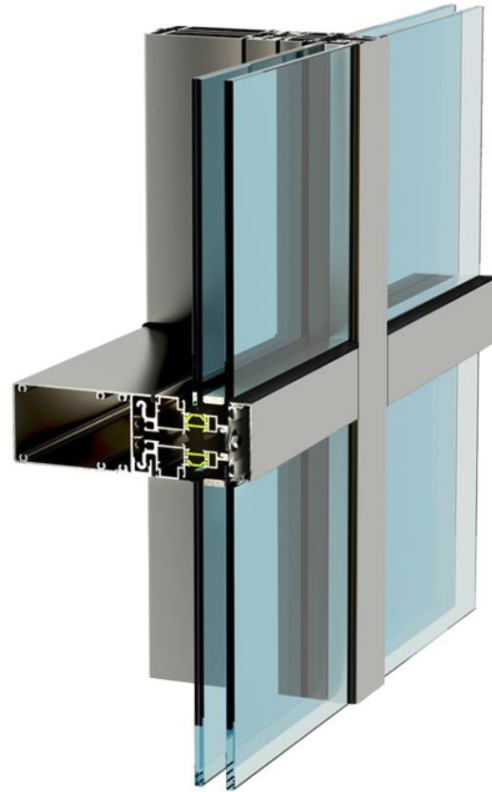
**SCHUCO  
ASE 80**

**ETEM XX**

GLAZED Facade Systems



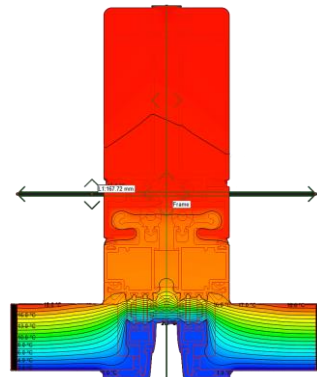
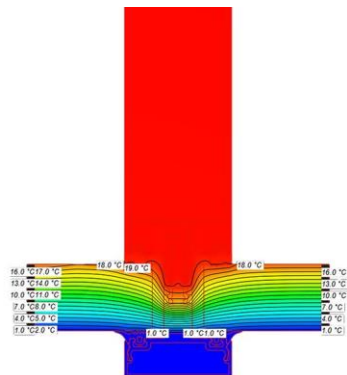
30 000 Standard



33 000 Semi-Structural Facade

Combines the high-quality appearance of an all-glass facade with the efficient construction of a high performance unitized facade.

Unitized customized construction is a flexible and powerful modular system for unitized facades.

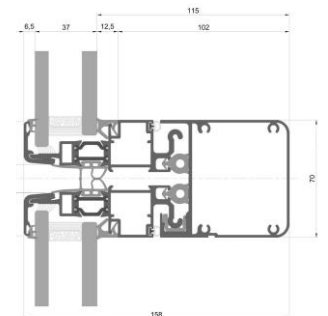
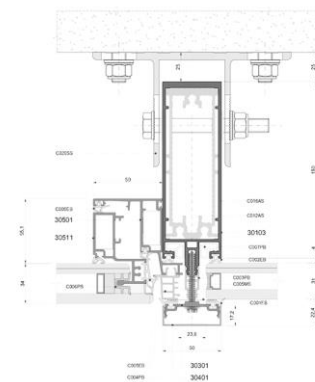


Thermal Performance



TECHNICAL DATA

- Exterior visible width: 50mm [2"]
- Mullion Depth: 75-220 mm [3" - 8.7"]
- Transom Depth: 75-220 mm [3" - 8.7"]
- Glass Thickness: ≤ 50 mm [≤ 2"]
- Uf: 0.87 W/m2K [0.153 BTU/h ft2°F]



Window Wall



37 000 Window Wall Outswing



37 000 Window Wall Inswing

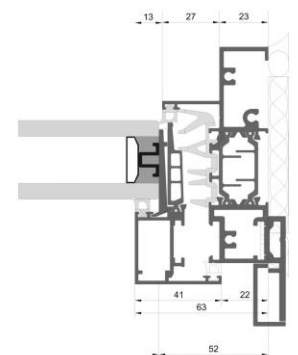
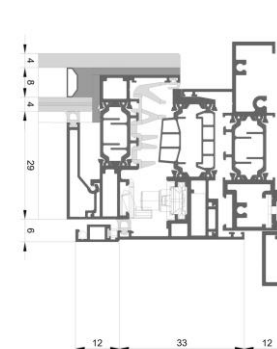
Window wall systems are commonly used in ribbon window configurations or punched openings.

They can also employ floor slab edge covers that enable the system to mimic the look of a curtain wall system at a significantly reduced cost.

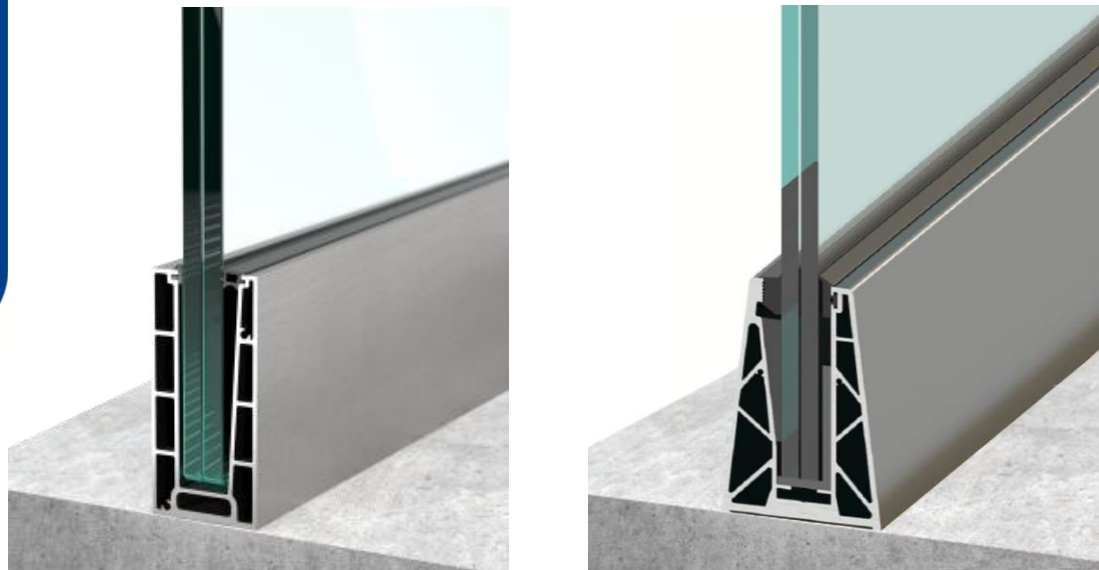


TECHNICAL DATA

- Exterior visible width: 46mm [1.8"]
- Mullion Depth: 152 mm [6"]
- Transom Depth: 152 mm [6"]
- Glass Thickness: ≤ 50 mm [≤ 2"]
- Uf: 0.87 W/m2K [0.153 BTU/h ft2°F]



GLASS | RAILINGS



Windora offers a large variety of ready glasses:




**Dimensions:** Glasses can be ordered in custom thickness | sizes | assembly.

**Appearance:** Extra / ultra clear transparence | transcend | sanded | textured

**Special features:** Sunlight selectivity | stress resistance | bullet proof, treatment as: rectified | laminated | spandrel | oven painted

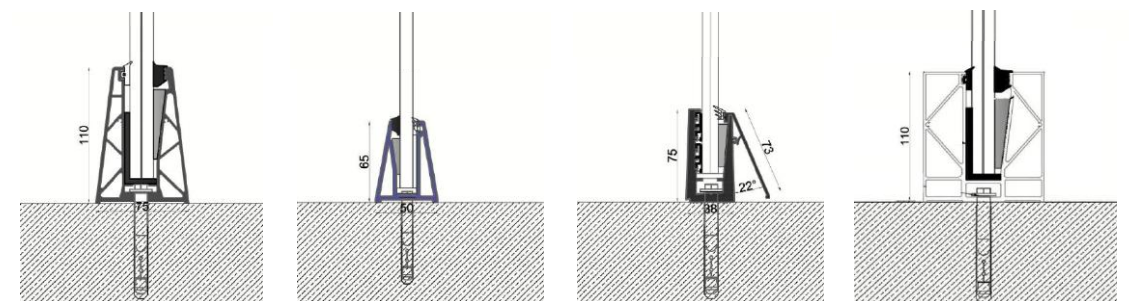
**Areas of use:** Infinity pool structural glass | balustrades | partitioning | walk-on transparent floor

**Technical assistance:** We provide consultancy and assist you to choose the right glass and make it work for you We offer static calculations for glasses used as structural elements

	<a href="#">T 6</a>		<a href="#">TL 6.6.1</a>		<a href="#">L 6.6.1</a>
	<a href="#">T 8</a>		<a href="#">TL 8.8.1</a>		<a href="#">L 8.8.1</a>
	<a href="#">T10</a>		<a href="#">TL 10.10.1</a>		<a href="#">L 10.10.1</a>
	<a href="#">T12</a>		<a href="#">TL 12.12.2</a>		<a href="#">L 12.12.1</a>
	<a href="#">T15</a>		<a href="#">TL 15.15.3</a>		
	<a href="#">T19</a>				
<b>Tempered</b>		<b>Tempered + Laminated</b>		<b>Laminated</b>	



Aluminium Glass Balustrate Channels



Metal textures



STOREFRONTS



38 000 STOREFRONT



39 000 STOREFRONT



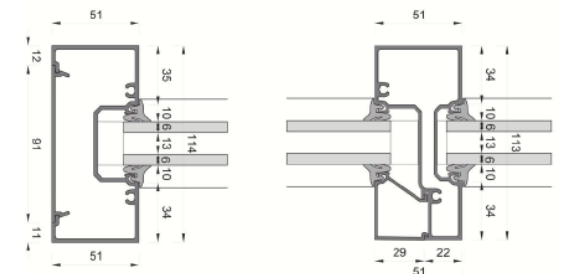
39 000 STOREFRONT



TECHNICAL DATA

- Storfront is a thermally broken system by a 14mm (0.55in) thermal barrier.
- Grid side lines will be 114 mm (4.48 in), and sightline 121 mm (4.76 in).
- Door openings are usually out casement.
- This system can be used up to 30mm (1.18 in)
- The glass is center applied.
- It has a very good thermal performance, reaching  $U_w$  values as low as 0.22 BTU/h ft<sup>2</sup>/O F

38 000 STOREFRONT



39 000 STOREFRONT

