



WINDORA

WINDOWS + DOORS + FACADES



TABLE OF CONTENTS

Welcome to Windora	2-3
What we get from Windora?	4-5
Windows	6-7
Trocal 88	8-9
Trocal 76	10-11
Trocal 70	12-13
Schuco Aw 90.SI, Aw CT 72	14-15
Reynaers Cs 77	16-17
Reynaers Slimline 38	18-19
Reynaers Masterline 10	20-21
Reynaers Masterline 10 Renaissance	22-23
Etem aluminium E45, E75	24-25
Wooden system, aluminium lid	26-27
Trocal 88 Innovations	28-29
Features, options	30-31
Sound Proof Glazed	32-33
Sliding Window Systems	34-35
Parallel Sliding VW	36-37
Trocal Premidoor 88	38-39
Trocal Premidoor 76	40-41
Etem Slide 64, ES 70	42-43
Schuco Slide System ASE 80.HI	44-45
Windora IV 92	46-47
Doors	48-49
Trocal 88 Doors	50-51
Trocal 76 Doors	52-53
Wooden, Aluminium Doors	54-55
Window Walls & Facades	56-57
Facade Engineering	58-59
Glazed Facades Systems	60-61
Window Wall	62-63
Glass, Railings	64-65
Storefronts	66-67





Welcome to Windora

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

Glazed facades is another field of high expertise where we have a lot to offer. Internationally rewarded façade architects and engineers of Windora, consult, design and make top energy performance facades a reality for your home, business or high rise building.

Our main focus is on delivering top-notch, energy-efficient windows and doors and facades 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.

Consultation

Discover the seamless process of transforming your windows with our no-obligation consultation. Our experts will guide you through the entire journey, from selecting the perfect window options to installation and beyond.

Production

The skilled craftsmen at our window fabrication facility meticulously oversee the production of your selected windows, ensuring every detail is expertly executed. With their expertise and attention to quality, you can trust that your windows will be crafted to perfection, providing both aesthetic appeal and optimal functionality for years to come.

Delivery

We understand the importance of convenience, which is why we offer on-site delivery of your selected windows. Our goal is to make your window replacement process as seamless and hassle-free as possible.

Installation

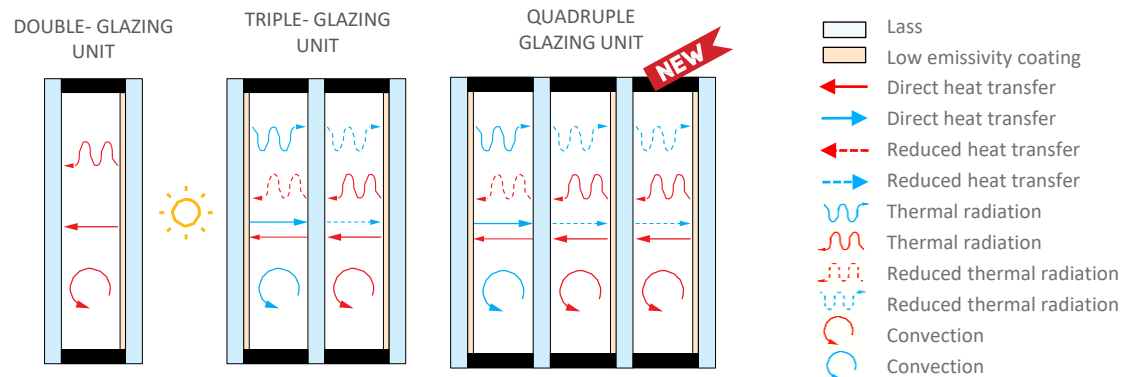
Our expert team will handle the installation of your selected windows with precision and care. You can trust us to ensure a seamless and hassle-free window installation process, leaving you with beautiful and functional windows that enhance the aesthetics and energy efficiency of your home.

What we get from windora?

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

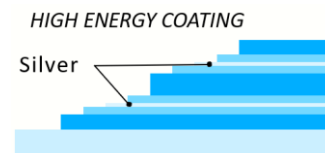
The wider the profile, the better thermal insulation is achieved, especially in combination with a triple-glazing unit with 2 coated panes and argon gas. By choosing a unit created with a high selective spacer, you will achieve a 10 % improvement in thermal insulation and prevent the possibility of condensation.

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

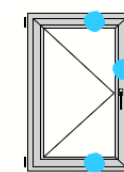
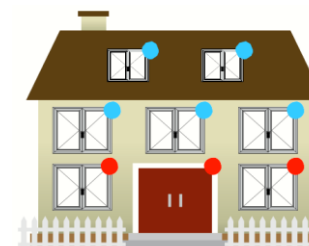
*** The most crucial element is the combination of panes in the unit.

4. FOR BETTER SECURITY

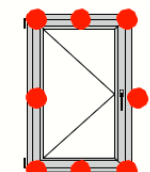


Statistics show that the most frequent break-in attempts are done through the windows. Windora offers products with a basic security Basis+, with a minimum of 2 security points of locking and a Hoppe Secustik handle.

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+

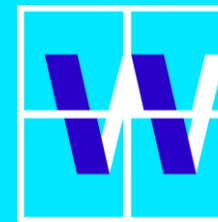


● RC2 or RC3

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 windows are not only aesthetically pleasing, but they also offer excellent insulation and durability. With their sleek design and energy-efficient properties, these windows are a popular choice for homeowners looking to enhance both the look and functionality of their homes.



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

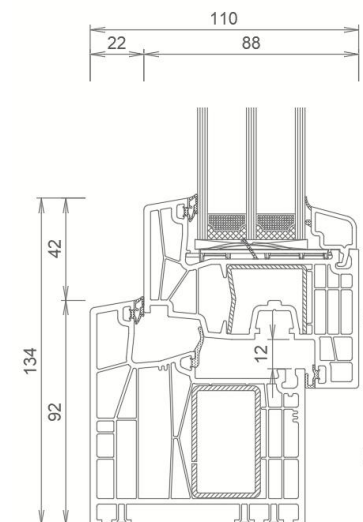


Golden Oak



TROCAL 88 PVC-U

- Passive house certified in accordance with ift directive WA-15/2.
- Excellent heat insulation values: Ug value = 0.5 W/(m2K) and Uw up to 0.72 W/(m2K).
- 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.



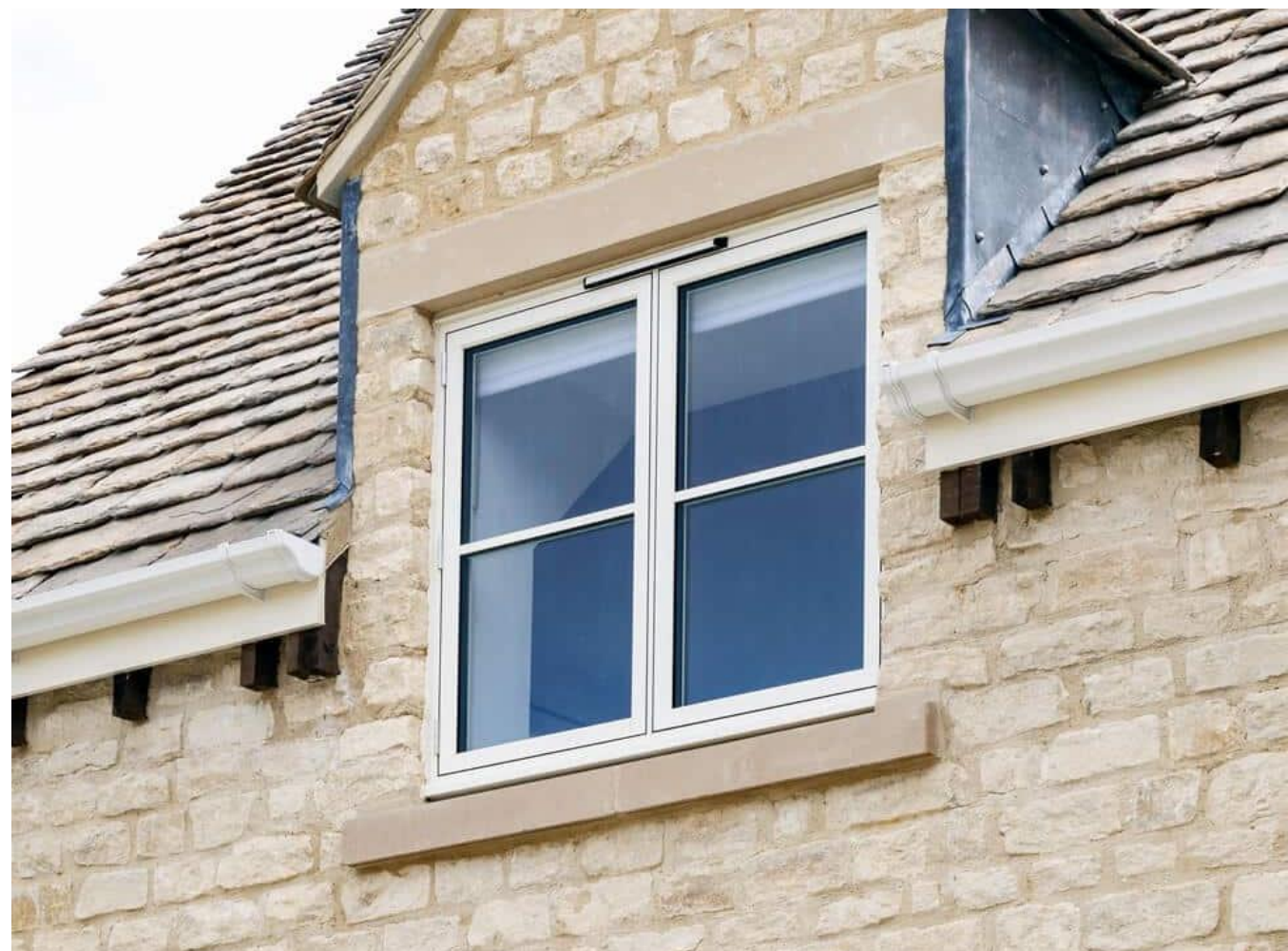
TROCAL 76



Centre Seal

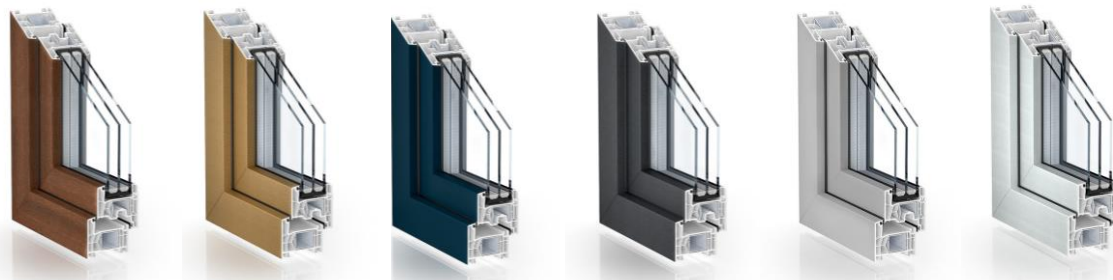


Double Seal



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.



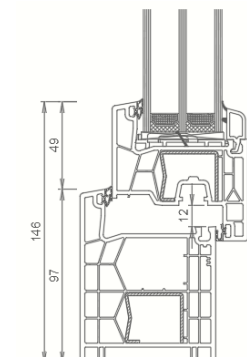
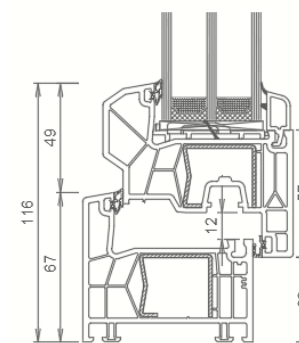
Walnut Bronze Black grey Antracite Agate grey Silver

TROCAL 76 PVC-U

- High heat insulating double seal system with a 76 mm construction depth providing $U_w 1.1 \text{ W/m}^2\text{K}$.
- 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



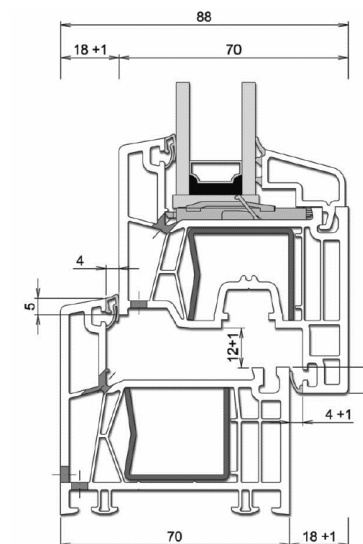
Golden Oak



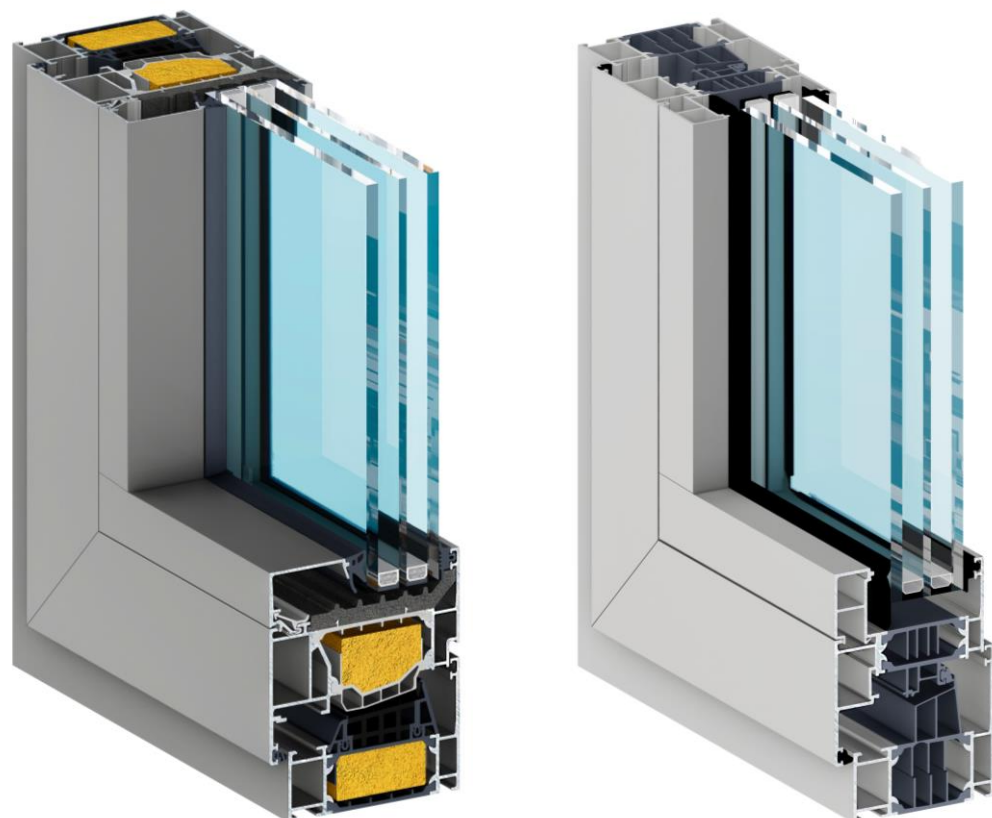
Anthracite

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

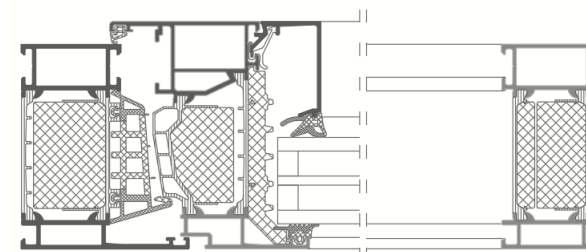


The Schüco AWS 90.SI+ (Super Insulation) and AW CT 72 window systems perfectly meet structural requirements while offering the greatest possible design freedom – including optimised thermal insulation and passive house certification.

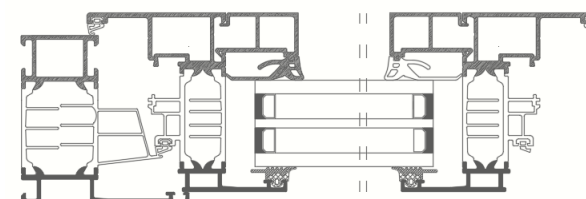
SCHÜCO AWS 90.SI+

- 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.

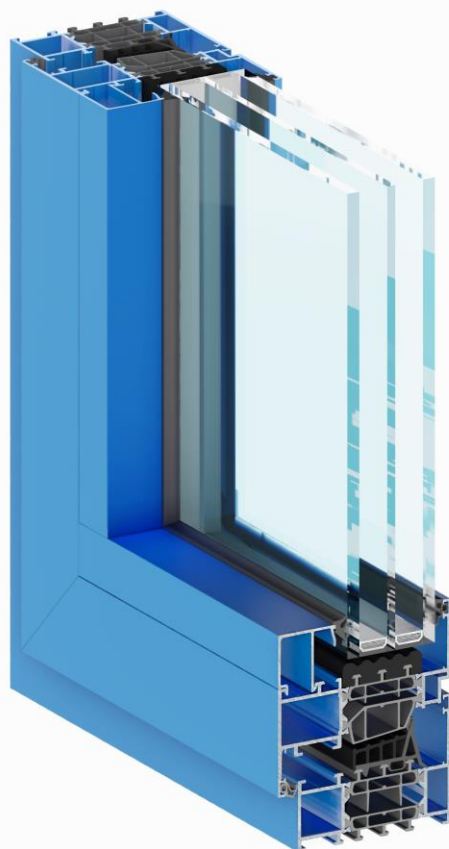
AWS 90.SI+



AW CT 72



REYNAERS CS 77

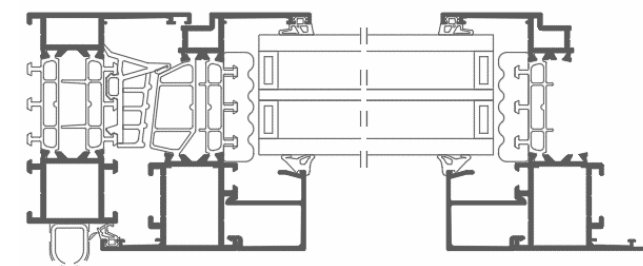


The CS 77 profile system offers a comprehensive range of solutions for all types of inward and outward opening windows. Thanks to its many possible combinations, the CS 77 is therefore ideally suited to all types of building concepts – even for those with the highest safety requirements.



REYNAERS CS 77

- Installation depth of the entire window system: 68 mm
- U_f -value of up to $1.8 \text{ W/m}^2\text{K}$ (depending on frame/casement combination and filling thickness)
- U_w -value below $0.95 \text{ W/m}^2\text{K}$ for a standard window (dimensions $1.23 \times 1.48 \text{ m}$, U_g $0.6 \text{ W/m}^2\text{K}$)
- Thermal break and ideal suitability for triple glazing
- Glass fiber reinforced multi-chamber hollow bars made of polyamide



REYNAERS SLIMLINE 38



FUNCTIONAL



Its slender steel-look design makes the SlimLine 38 high-insulation system the perfect fit for your contemporary project. The standard Functional look fits any building style, offering a clean flush finish.

REYNAERS SLIM LINE38

Insulation

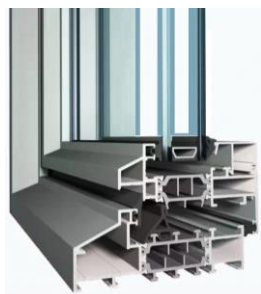
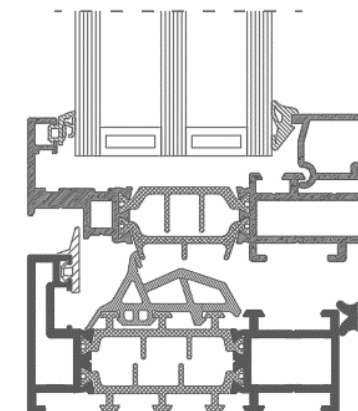
- Thermal insulation – Uf: 1.9 W/m²K
- Thermal insulation – Uw: 0.94 W/m²K
- Frame-vent HI: Ug 0.6W/m²K, warm edge spacer, @1.23x1.48m (73mm sight line), 36mm glass

Comfort

- Air tightness: Class 4 (600Pa)
- Acoustics - Rw(C;Ctr): 45(-1,-5) dB

Safety & Security

- Burglar resistance: RC2



Classic



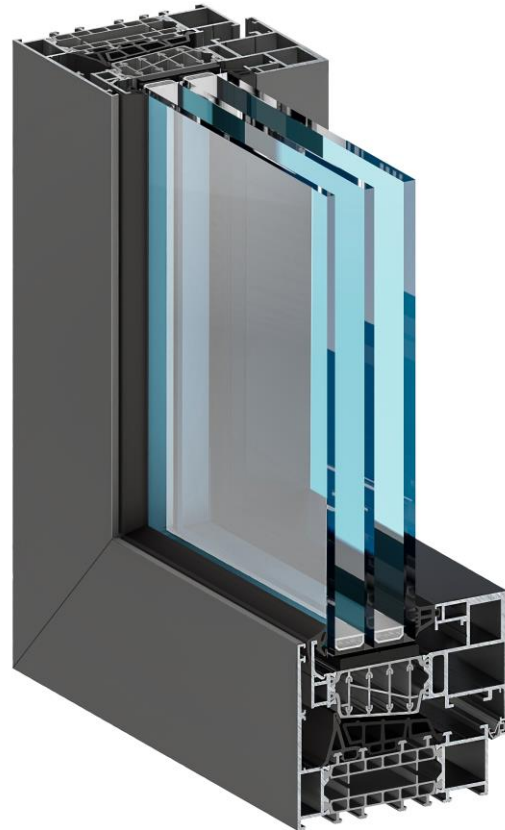
Ferro



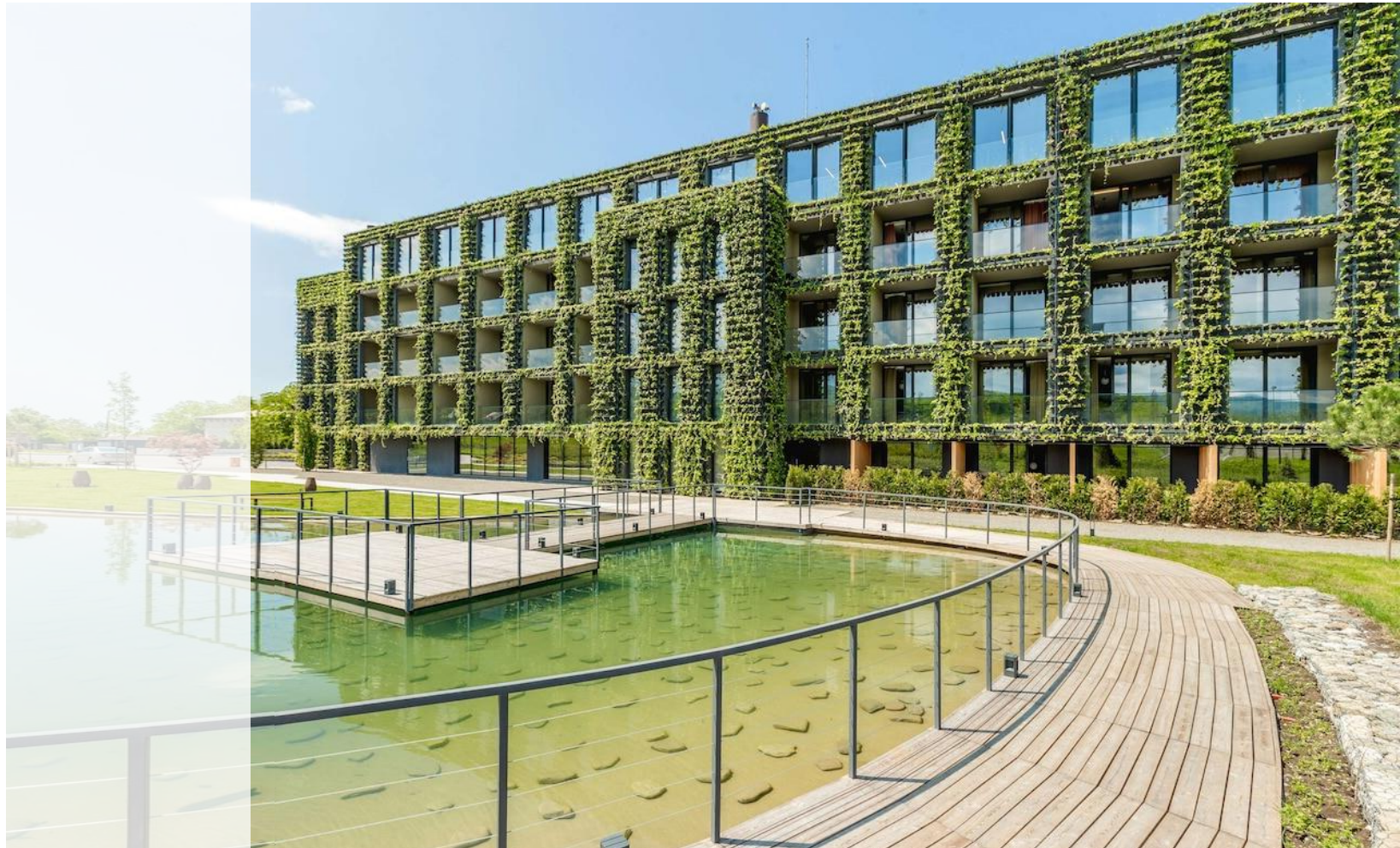
Cubic

REYNAERS MASTERLINE 10

WINDOWS



HIDDEN VENT



Masterline 10 is a huge step toward a sustainable and greener architecture.

It is the most advanced system in aluminum, developed to re-define the boundaries of the Passive House , starting a new era of energy efficiency performance.



Deco



Renaissance

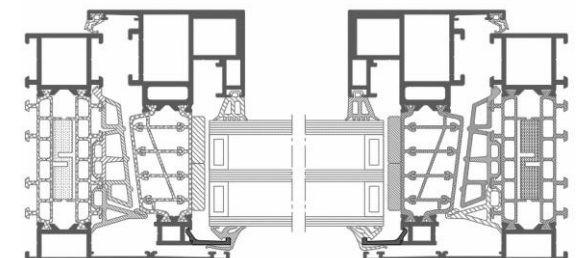


Functional



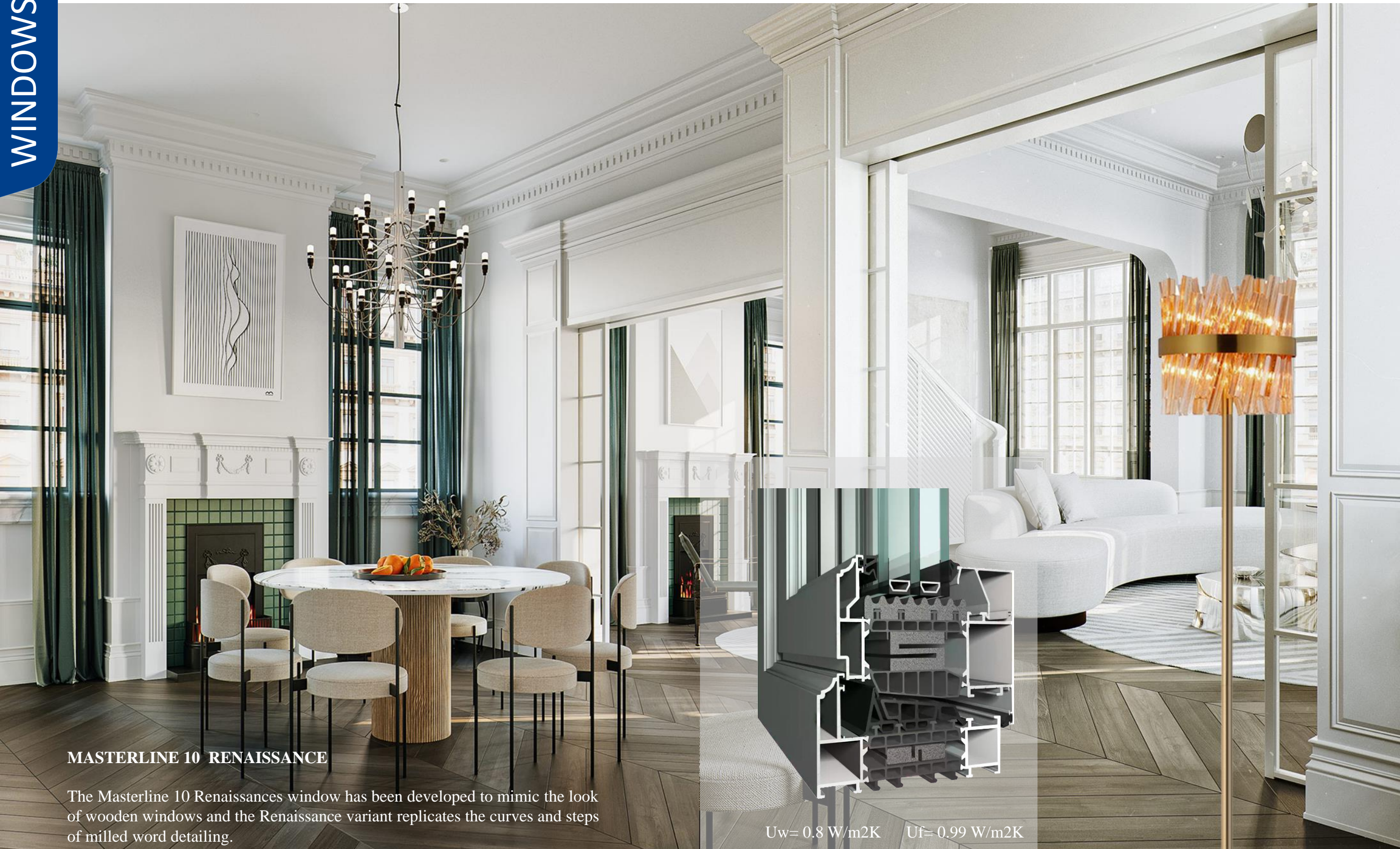
High Insulation+

The Hidden Vent is an operable element that looks like a fixed element from the outside, for more architectural symmetry and a clean look.
 $U_w = 0.79 \text{ W/m}^2\text{K}$
 $U_f = 1 \text{ W/m}^2\text{K}$



REYNAERS MASTERLINE 10 RENAISSANCE

WINDOWS



MASTERLINE 10 RENAISSANCE

The Masterline 10 Renaissance window has been developed to mimic the look of wooden windows and the Renaissance variant replicates the curves and steps of milled wood detailing.

$U_w = 0.8 \text{ W/m}^2\text{K}$ $U_f = 0.99 \text{ W/m}^2\text{K}$

ETEM ALUMINIUM E45 | E75



E 45



E 75

E45 and E75 windows are systems corresponding to the most stringent requirements for thermal insulation, functionality and aesthetics.

Optimized for maximum structural stability while using minimum aluminium. Profiles are reinforced at the load bearing points. Very broad set of profiles and typologies. Aesthetic options with straight and round design.

Possible application of burglar resistant hardware up to class RC2. Glazing in frame up to 40mm.

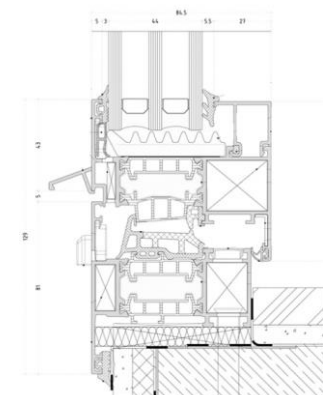
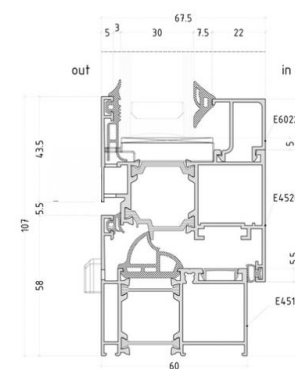


ETEM E75

- Elegant straight design
- 75mm system width allowing usage of triple glazing
- Wide polyamide bars
- Excellent thermal insulation from 1.1W/m2K
- Additional insulator in the thermo-break area
- Additional insulator in the thermo-break area
- Effective drainage
- Excellent water-tightness and air-permeability
- Co-extruded central gasket

E45

E75



WOODEN SYSTEM | ALUMINIUM LID



WOODEN SYSTEM 78



WOODEN 78 + ALUMINIUM LID



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.

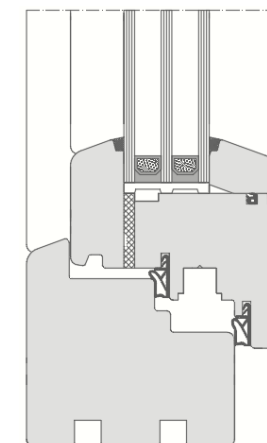


WIDE RANGE OF COLORS FOR BOTH WOOD & ALUMINIUM

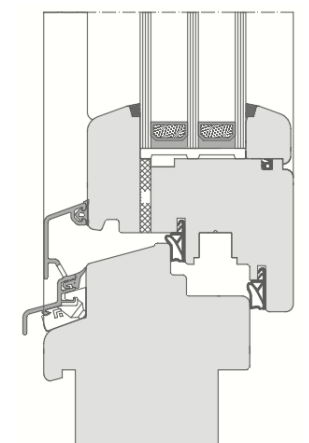
WOODEN SYSTEM 78

- 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.

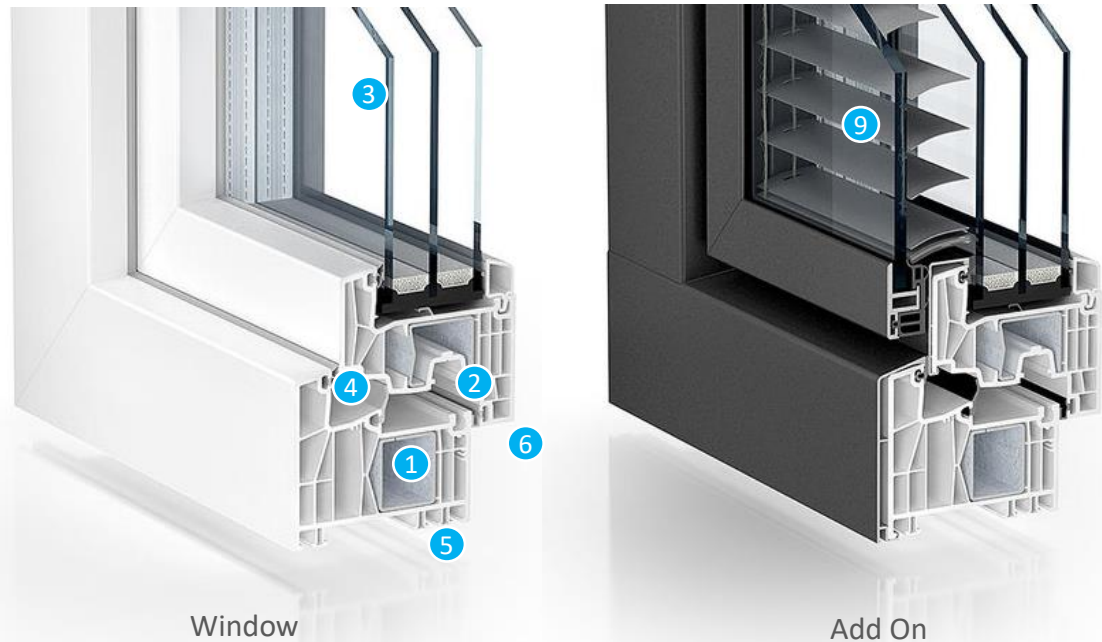
WOODEN



WOODEN + ALUMINIUM LID

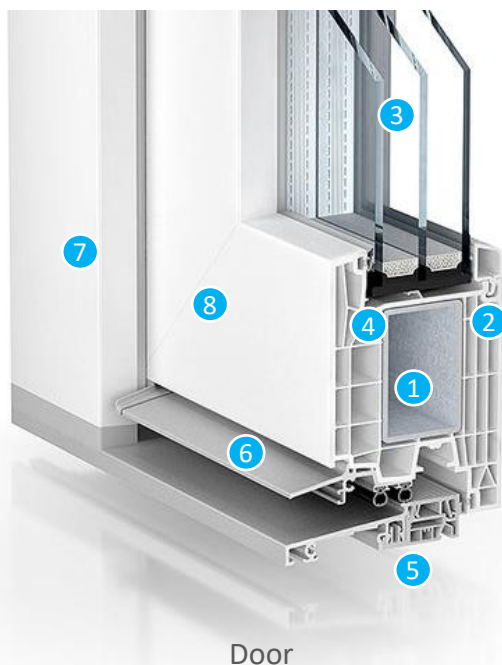


TROCAL 88 INNOVATIONS



Window

Add On

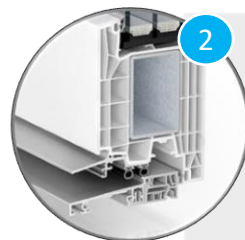


Door



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.



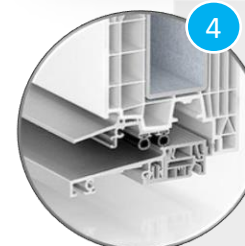
2 Perfect multi-chamber design.

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.



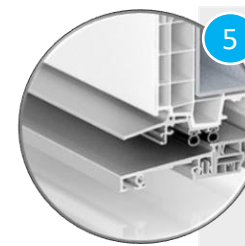
3 Glazing options

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

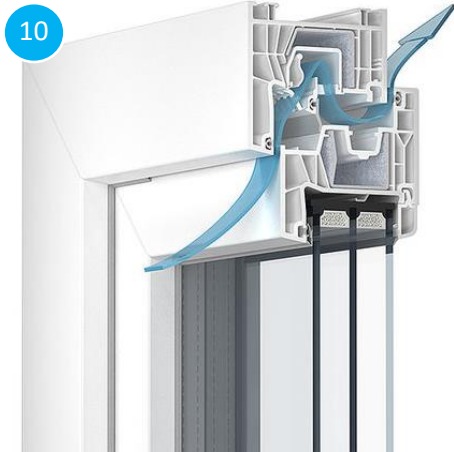
Linear, recessed design with the perfect profile proportions.



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.

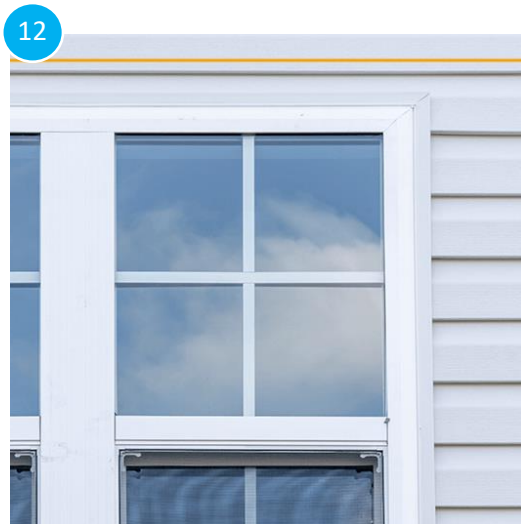
FEATURES | OPTIONS



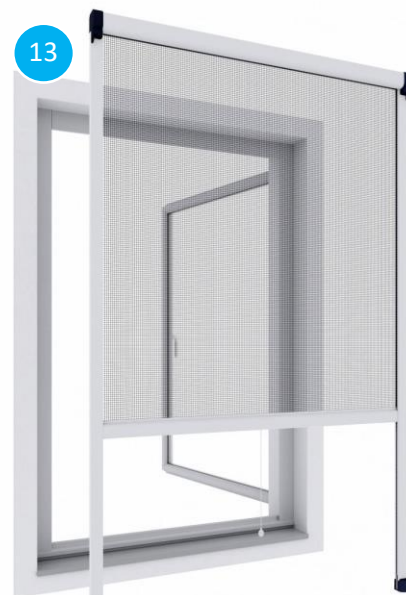
ClimaTec
The In-body air ventilation provides a fair fresh air supply, avoiding the use of ventilators. It can successfully be used in quiet neighborhoods.



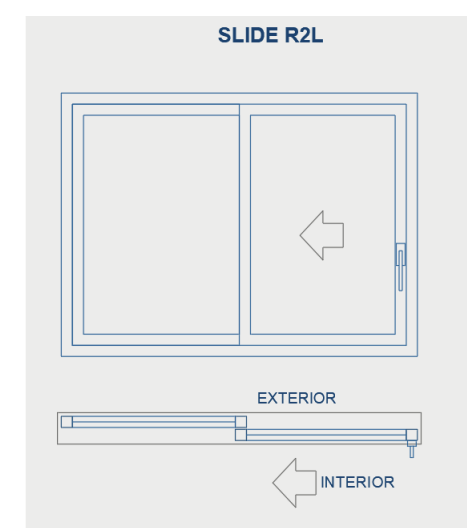
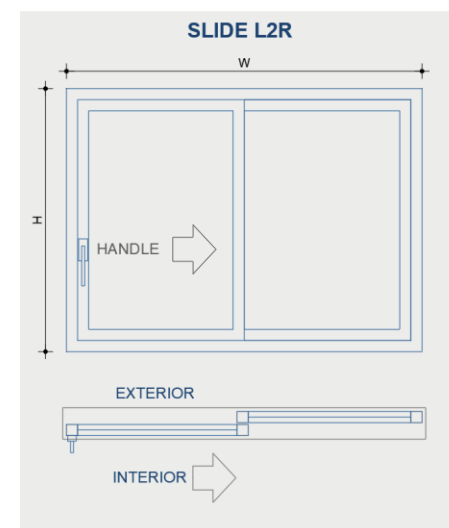
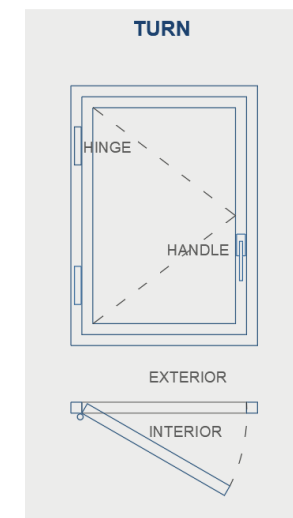
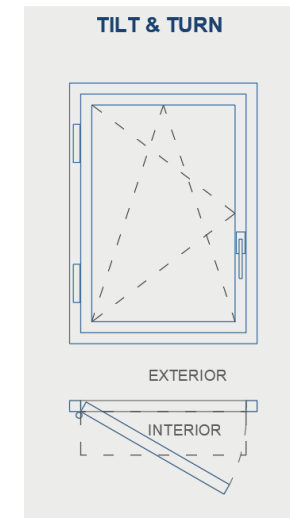
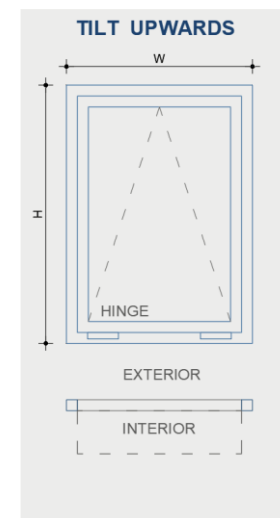
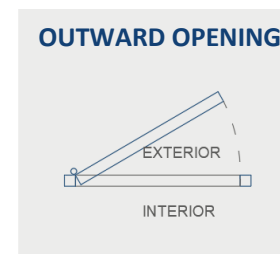
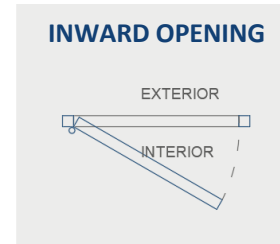
Window air grill
It provides a controlled supply of fresh air. An easy manually controlled ventilation which does not need any power supply.



Inside Argon chamber divisor
Aluminium rib, RAL colors



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



Sizing, Dimensioning, Options

- Dimensions (W and H) of the ordered windows and doors are those of the outer edge of the frame, which have to be a few millimeters smaller than the wall opening, allowing a perimetral gap, so that specific installation requirements can be filled with PU foam insulation.
 - Architects and builders can specifically require from several available feature options for windows and doors to be provided. Tilt, Turn, Slide at any direction, any size, any performance.
 - Below window views are all seen from inside.
 - Height of the door handle -according to the architectural design.
10. Clima Tech In-bodyAir ventilation
 11. Window air grill
 12. Aluminum decorative ribs
 13. Insects screen

SOUND PROOF GLAZED



SOUND PROOFING

Along with the thermal insulation properties of the units and the anti-burglary protection, soundproofing is very important and an increasingly sought-after feature of panes and units as materials used in contemporary construction. The soundproofing of the unit is an indicator of the level of absorption of sound waves. The acoustic properties of a window are measured by the soundproofing value – R_w , in dB (logarithmic decibel scale).

The percentages by which they reduce noise at specific soundproofing values should also be known:

3 dB – barely audible sound
10 dB – sound is reduced by 50 %
20 dB – sound is reduced by 75 %
30 dB – sound is reduced by 88 %
40 dB – sound is reduced by 94 %

Based on European standards, Windora recommends that residential buildings, schools and hospitals in the vicinity of busy streets and crossroads use windows with soundproofing over 37 dB, and that buildings near airports or industrial areas have soundproofing over 41 dB.

Good soundproofing is achieved through:

- the use of laminated glasses and glassess with special sound-absorbing films;
- laminated glass
- an asymmetrical composition of the panes – a combination of glasses with different widths (such as 6 + 4 mm) leads to improved absorption of resonance oscillations;

NOTE:

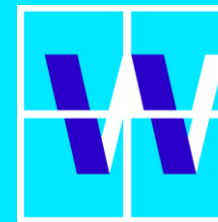
C (dB) is the correction when the source of noise is: fast traffic, fast rail traffic, proximity to and airport or playground.

Ctr (dB) is the correction when the noise source is: urban traffic, music, slow rail traffic.

Insulated Glass Unit	CONFIGURATION	GAS	SOUND PROOFING R_w (C, Ctr), dB
24*	4/16/4	Argon	31(-1;-4)
24	6/16/4	Argon	33(-1;-4)
24	6/16/4	Argon	33(-1;-4)
24	4/12/4.4.2	Argon	35(-2;-6)
30*	6/16/4.4.2	SR Argon	42(-2;-7)
TRIPLE GLAZING UNIT			
38	4/14/4/12/4	Argon	29(-1;-5)
38	6/12/4/10/6	Argon	33(-2;-5)
38	4/12/4/12/3.3.2	Argon	34(-2;-5)
38	3.3.2/12/4/10/3.3.2	Argon	35(-3;-7)
44*	4/16/4/16/4	Argon	32(-1;-5)
44	6 / 14 / 4 / 14 / 6	Argon	34(-3;-7)
44*	6/12/6/12/4.4.2	Argon	40(-2;-6)
44	4.4.2/12/4/14/3.3.2	Argon	39(-2;-6)
52	8/16/4/14/5.5.2	Argon	42(-2;-5)
QUADRUPLE GLAZING UNIT			
56	4/14/4/14/4/14/4	Argon	33(-1;-4)
56	6/12/4/14/4/14/4	Argon	35(-2;-5)
64	6/14/4/16/4/16/4	Argon	35(-2;-6)
64	3.3.2/12/4/14/4/14/4	Argon	37(-3;-7)
66	6/16/4/16/4/16/4	Argon	35(-1;-5)
66	3.3.2 / 18 / 4 / 16 / 4/16/4	Argon	37(-2;-5)
66	4.4.2/18/4/16/4/16/4	SR Argon	44(-2;-7)
66	4.4.2/18/4/16/4/16/4	Argon	37(-3;-5)

IMPORTANT:

DB values for the labeled *glass thickness blades were obtained for laboratory testing according to EN 12758.



SLIDING

Aluminum and PVC-U sliding doors offer a seamless and modern solution for those seeking to lift the aesthetic appeal of their living spaces. With their sleek design and smooth operation, these doors effortlessly slide open, allowing natural light to flood in and creating a sense of openness and connection with the outdoors.



PARALLEL
SLIDING

TROCAL 88
PREMIDOOR

TROCAL 76
PREMIDOOR

SCHUCO
ASE 80

EDEM ES 64
ES 70

SCHUCO
ASE 80.HI

WINDORA
IV 92

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

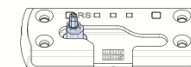
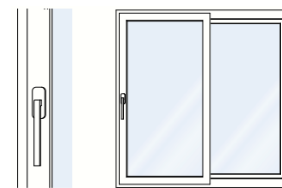


Slide

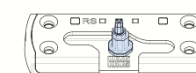
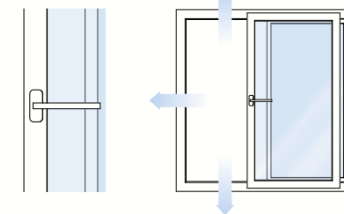


SLIDING DOOR

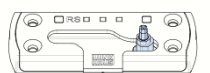
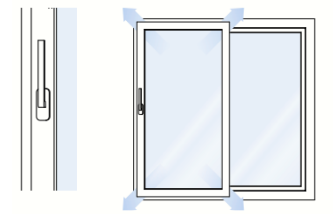
closed



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

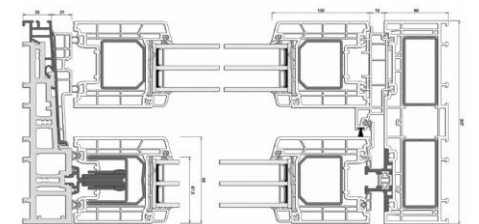


Golden Oak

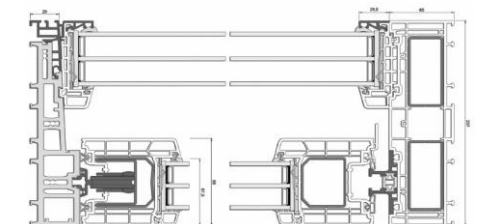
PREMIDOOR 88 LIFT/SLIDING

- 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.

STANDARD



LUX

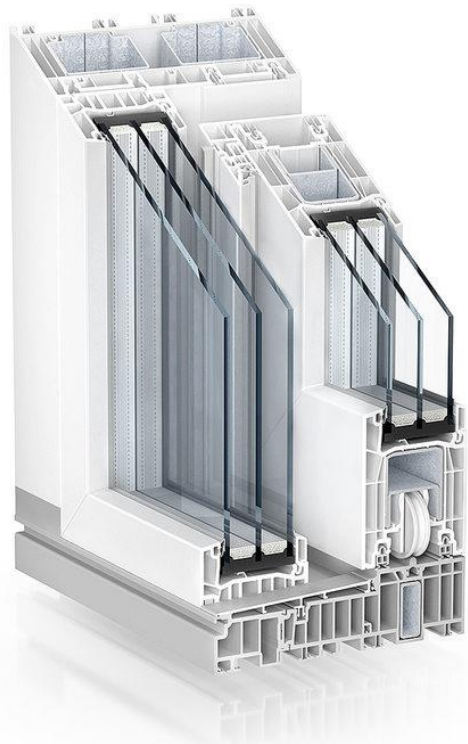


TROCAL PREMIDOOR 76

SLIDE



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



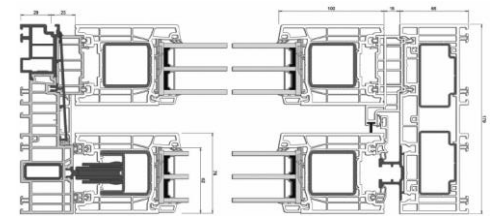
Golden Oak



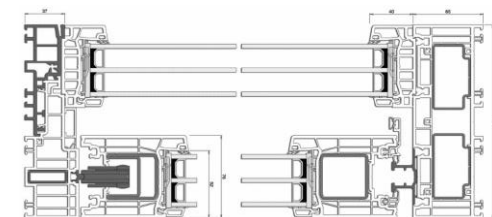
PREMIDOOR 76 LIFT/SLIDING

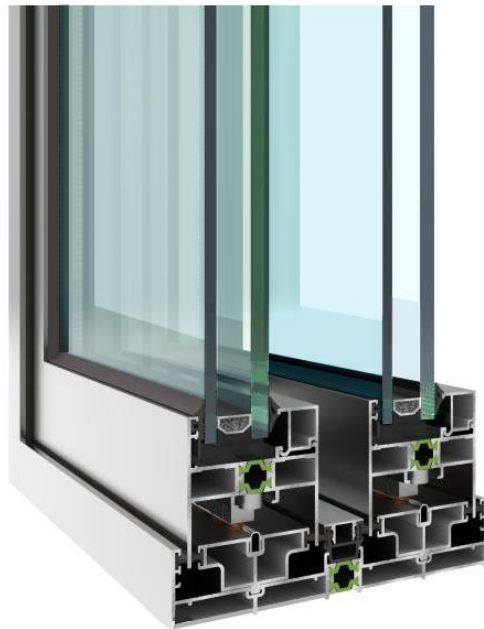
- Barrier-free thresholds realised in conformance with standards.
- Large installed heights and glazed areas.
- Greater passage of light and solar energy gains.
- Ease of handling when opening and closing.
- Sustainable, recyclable system solution of environmentally friendly, lead-free PVC-U profiles.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

STANDARD



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.

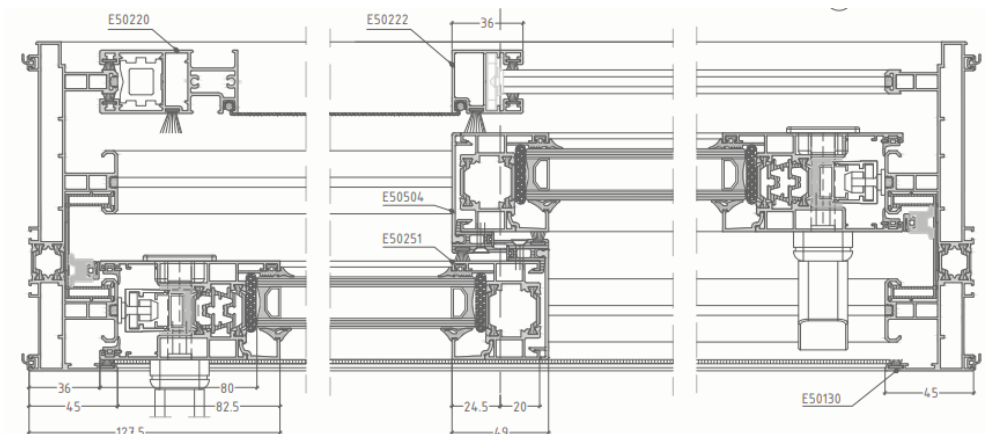
Thanks to the sleek and minimal profiles' design, the frame can be fully integrated, ensuring the maximum natural lighting.

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.

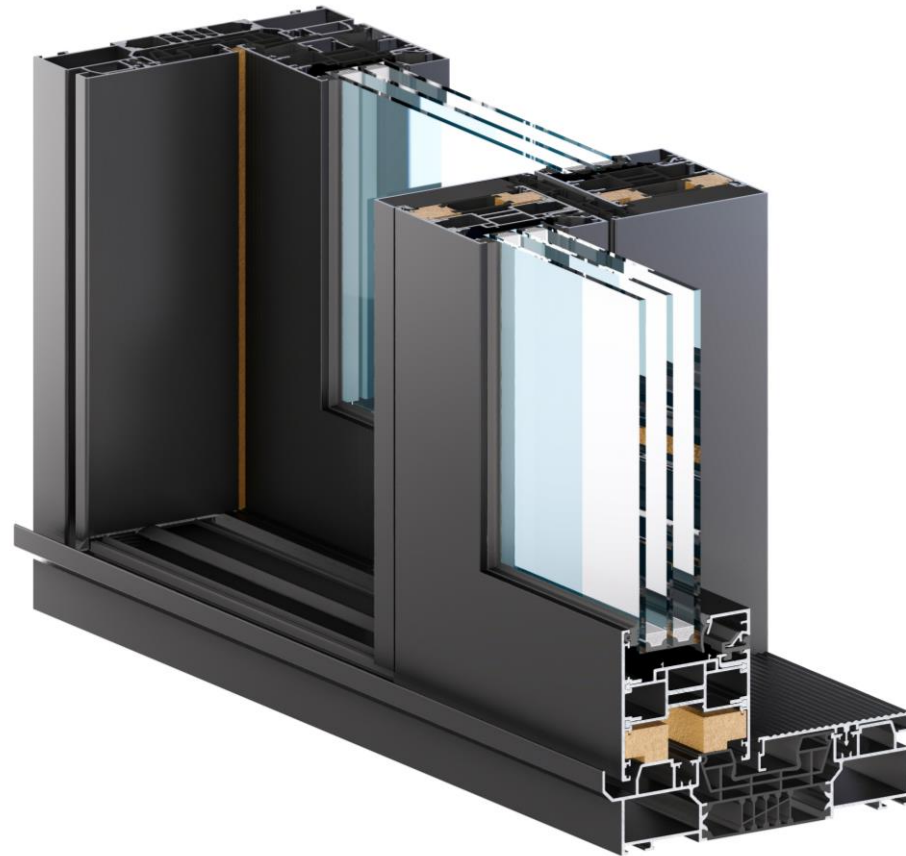
ETEM ES64 LESS FRAME 2.0

- 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 SLIDE SYSTEM ASE 80.HI

SLIDE



Standard

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

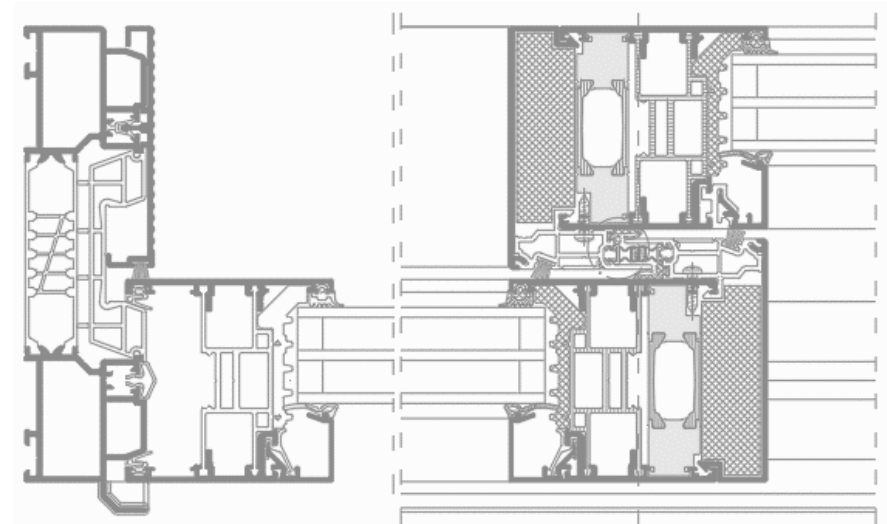
Schüco ASE 80.HI (High Insulated) sliding and lift-and-slide system offers elegant design solutions for sustainable, user-oriented architecture to passive house level.

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.

LIFT/SLIDING SYSTEM

- 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

SLIDE

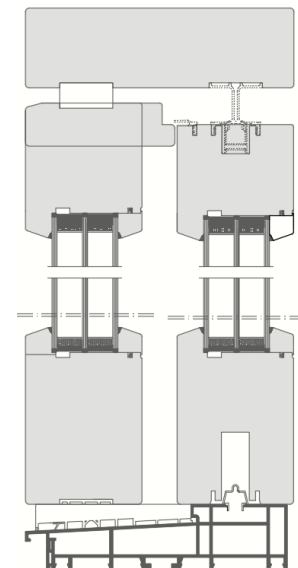


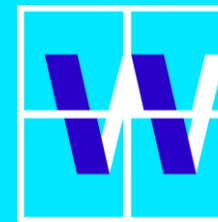
A wooden system that comes in 78mm or 92mm types, offering full RAL colors



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/(m²K) as standard
- Protection against forced entry up to RC2
- Large variety of natural wood colors.





DOORS

Introducing our Aluminum and PVC-U entry doors, featuring a modern design that seamlessly combines durability with aesthetic appeal. These doors are carefully crafted to enhance the visual appeal of any property while providing long-lasting performance and security.



TROCAL 88

TROCAL 76

WOODEN

ALUMINIUM

TROCAL 88 DOORS



Inward opening



Outward opening



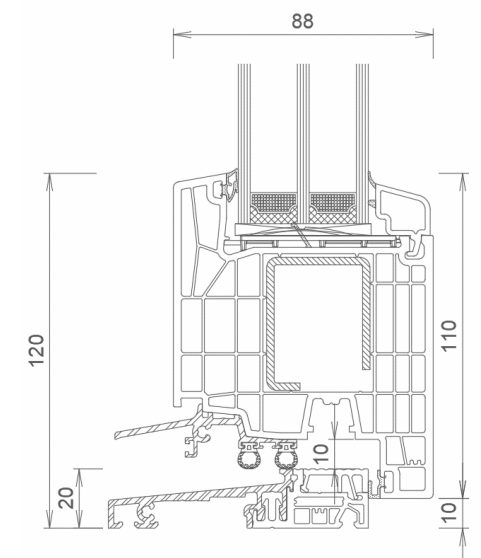
The TROCAL 88 residential door system of PVC-U features an ultra modern six chamber design with an installation depth of 88 mm, offering you top engineering performance in every respect.

FEATURES

- High insulation profile cross section with 88 mm construction depth - UD value up to 1,1 W/(m²K)
- 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.

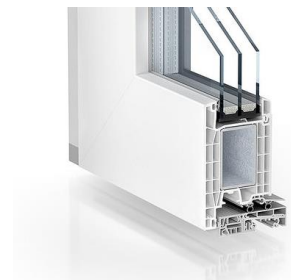
The residential door panelling can make use of modern functional glazing in a great many surface patterns and colours, panes with LED effect lighting, or motif glazing, or you can choose from the extensive prefabricated panel range from renowned manufacturers.



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**

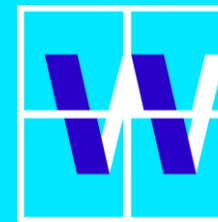
- A wooden system with a Winkhaus frame and Simonswerk hinges for maximum security.
- Coefficient of heat transfer: $U_f =$ up to 1.3 W/m²k

WOODEN PROFILE

- A wood profile with a Winkhaus frame and Simonswerk 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/m²k

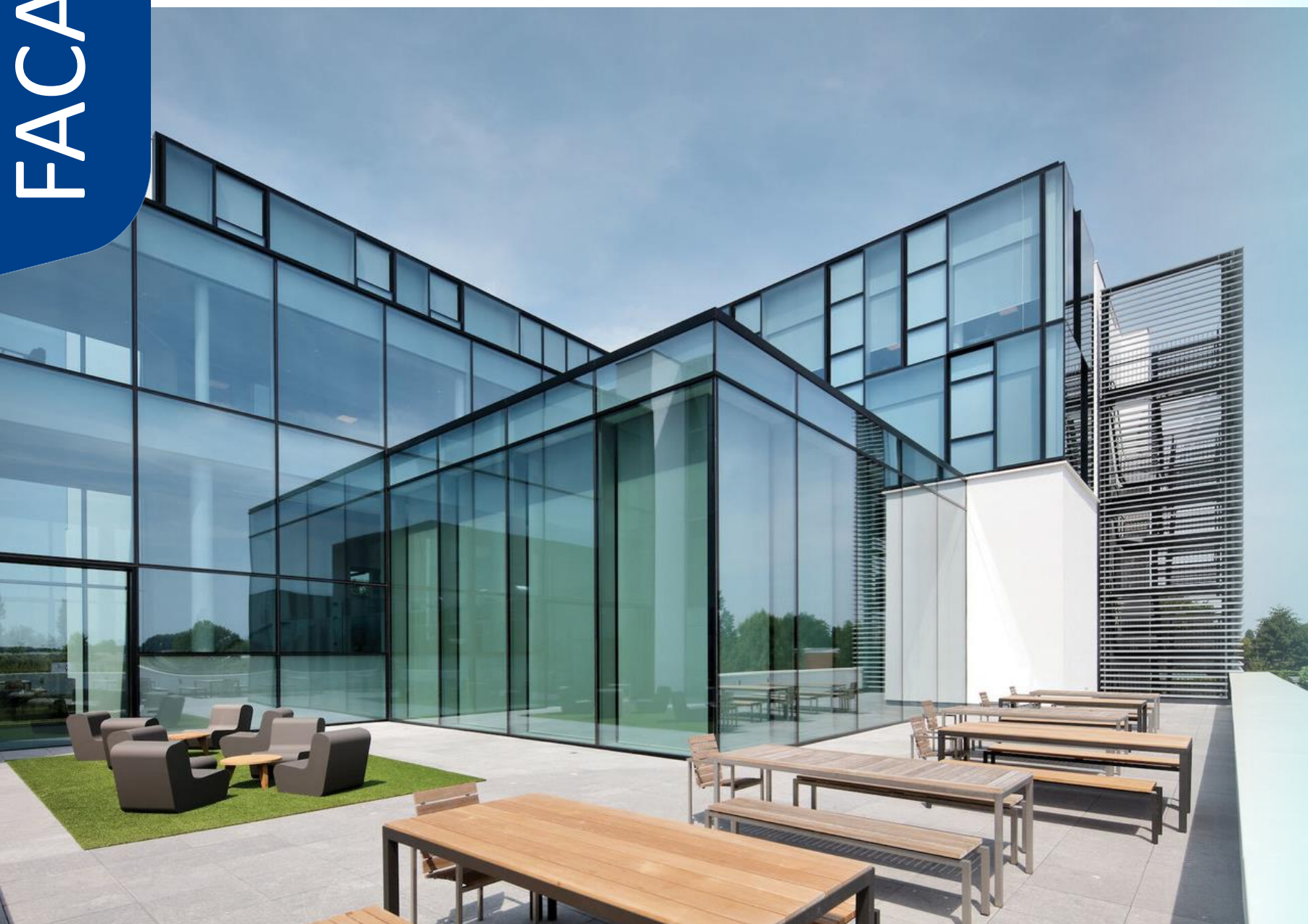
ALUMINIUM PROFILE ZERO

- Etem E75 system with system frames and BKV hinges for maximum security.
- Coefficient of heat transfer: $U_f =$ up to 1.4 W/m²k



FACADES

Our architect team is highly skilled in creating innovative and visually striking facades that perfectly complement the overall design of any building.



FACADE
ENGINEERING

GLAZED
FACADES
SYSTEMS

WINDOW
WALL

GLASS
RAILINGS

STOREFRONTS

FACADE ENGINEERING

Facades Design

Glazed facades is another field of high expertise where we have a lot to offer. Internationally rewarded façade architects and engineers of Windora, consult, design and make top energy performance facades a reality for you home, business or high rise building



STEPS

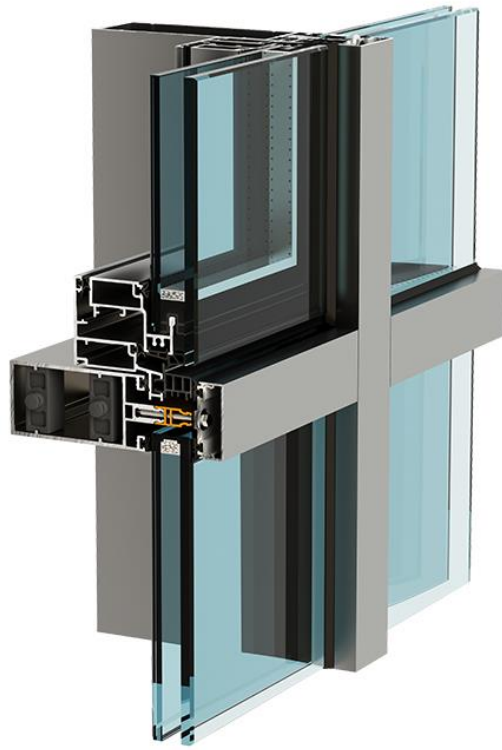
- Consultation with the architect or builder to understand their needs
- Proposals of the façade system to match the requirements
- Facade Design and Quotation
- Production and installation of the facade
- Testing and Commissioning

Glaze facades are built to last for long, but still they can be designed to be built quickly.

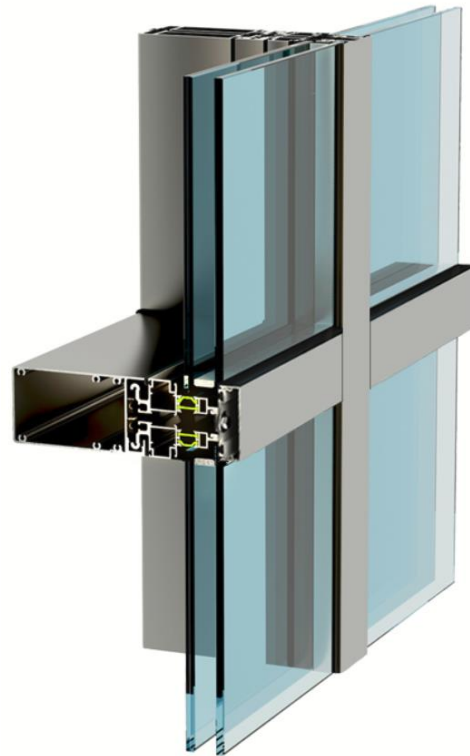
Our highly skilled architects and engineers team are everyday pushing the boundaries, involving the most advanced technologies to build the facades safely, quickly at convenient cost.

They create innovative and aesthetic facades that perfectly complement the overall design of any building.

GLAZED FACADE SYSTEMS



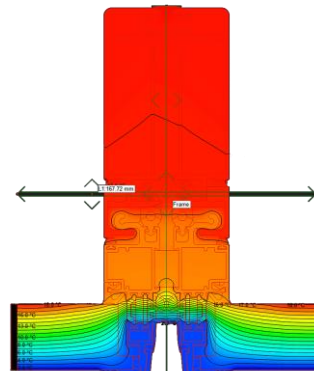
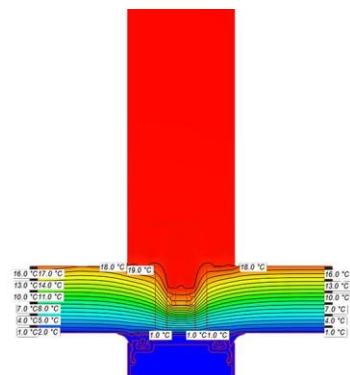
30 000 Standard



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.



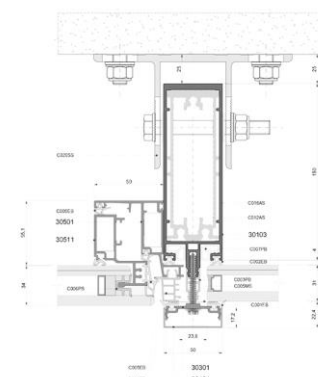
Thermal Performance



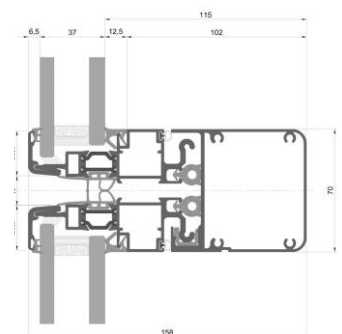
TECHNICAL DATA

- 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]

STANDARD



SEMI-STRUCTURAL



WINDOW WALL



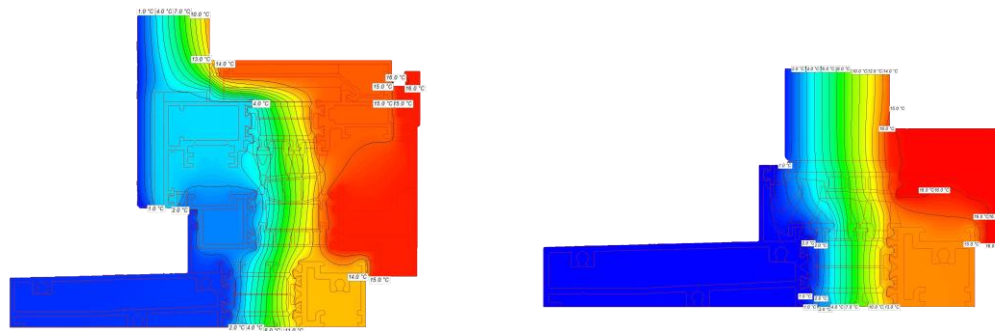
37 000 Window Wall Outswing



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.



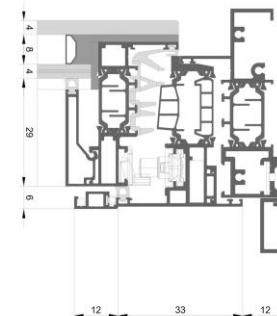
Thermal Performance



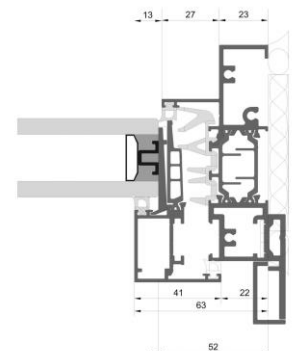
TECHNICAL DATA

- 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]

OUTSWING



INSWING



STOREFRONTS



38 000 STOREFRONT



39 000 STOREFRONT



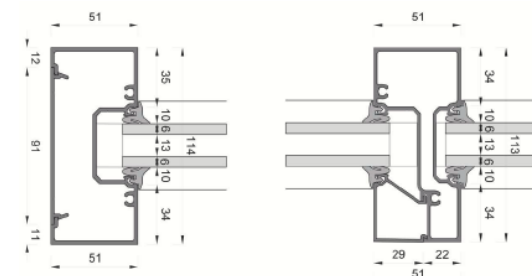
39 000 STOREFRONT



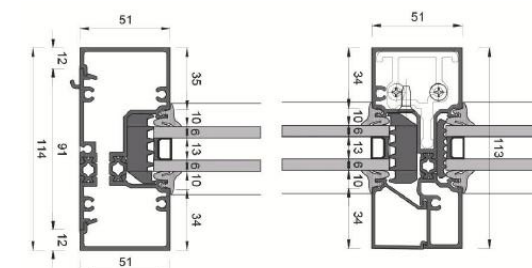
TECHNICAL DATA

- 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 ft²/O F

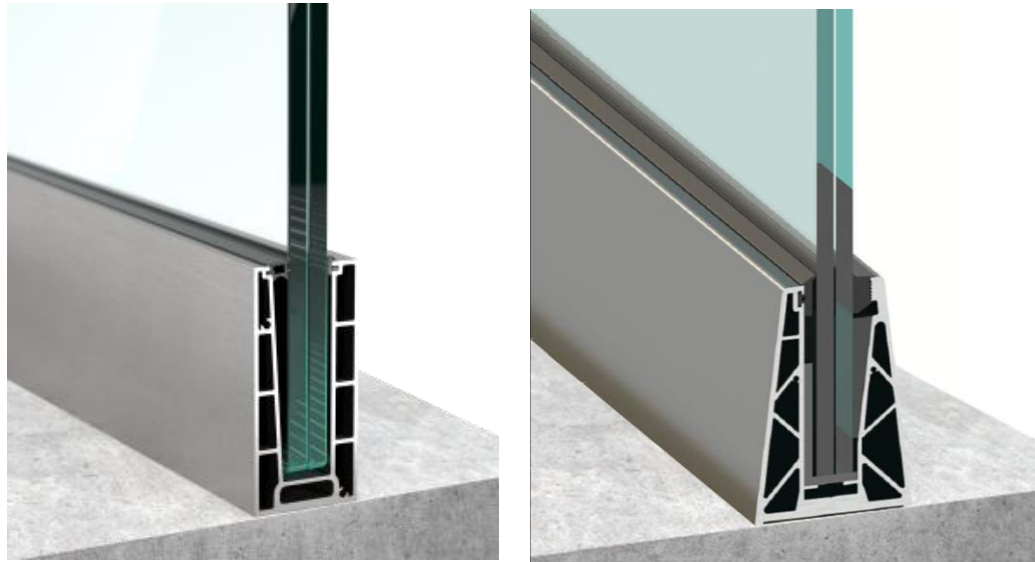
38 000 STOREFRONT



39 000 STOREFRONT



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

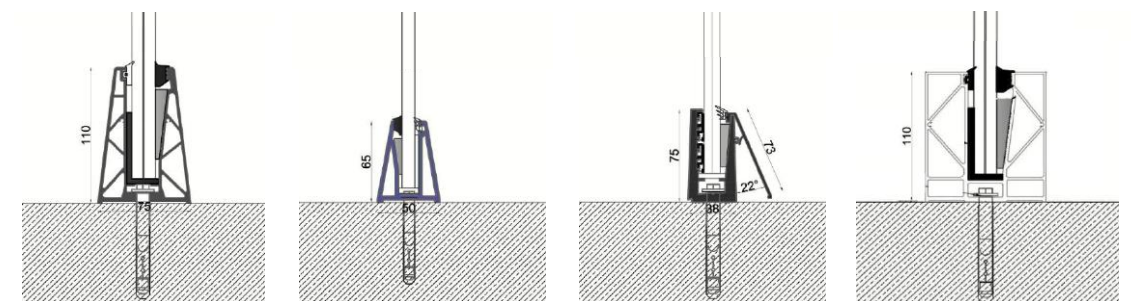
Areas of use: Infinity pool structural glass | balustrades | partitioning | walk-on transparent floor

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

	T 6		TL 6.6.1		L 6.6.1
	T 8		TL 8.8.1		L 8.8.1
	T10		TL 10.10.1		L 10.10.1
	T12		TL 12.12.2		L 12.12.1
	T15		TL 15.15.3		
	T19				
	Tempered		Tempered + Laminated		Laminated



Aluminium Glass Balustrate Channels



Metal textures





WINDORA

+1 647-693-4323
arthur.kola@windora.ca
www.windora.ca