WINDOW BEYOND LIMITS
FOR THE ARCHITECTURAL CREATIVITY



Architect: Emmanuel Bouffioux
Photographer: Emmanuel Bouffioux

SOLEAL NEXT
The Universal Window

TECHNAL®

By Hydro

↗ **Windows** ↗ **Doors** ↗ **Curtain walls**



Photographer: Pedro Pegenaute

SOLEAL NEXT

↗ THE UNIVERSAL WINDOW

THE SOLEAL NEXT DOOR WAS CREATED WITH A VIEW TO OFFERING ARCHITECTS AN EXTENSIVE RANGE OF SOLUTIONS, GIVING THEM AS MUCH CREATIVE FREEDOM AS POSSIBLE WHEN DESIGNING A BUILDING.

MORE POSSIBILITIES

SOLEAL Next casement is available in Visible and Minimal design, open-in and open-out to adapt to all types of architectures. There are multiple applications: 1 and 2-vents windows and patio windows, continuous horizontal windows, integrated or overlapping assemblies, fixed-light frames, fanlight and/or side fixed lights, horizontal and vertical pivot, and Italian-style. Most of these applications are available in 65 mm and 75 mm

Residential doors are also offered with low threshold for reduced mobility access. The installation and cladding environments are the same as for SOLEAL Next doors and sliders.

MORE COMFORT

SOLEAL Next offers effective thermal, acoustic and weather tightness performances, complying with most international regulatory requirements. Ventilation and micro ventilation solutions are available as optional features.

MORE DESIGN

SOLEAL Next combines aesthetic design with a large choice of colours and accessories, as well as concealed elements, bringing elegance and modernity to new or renovated building projects.

LESS IMPACT

SOLEAL Next combines aesthetic design with a large choice of colours and accessories, as well as concealed elements, bringing elegance and modernity to new or renovated building projects.

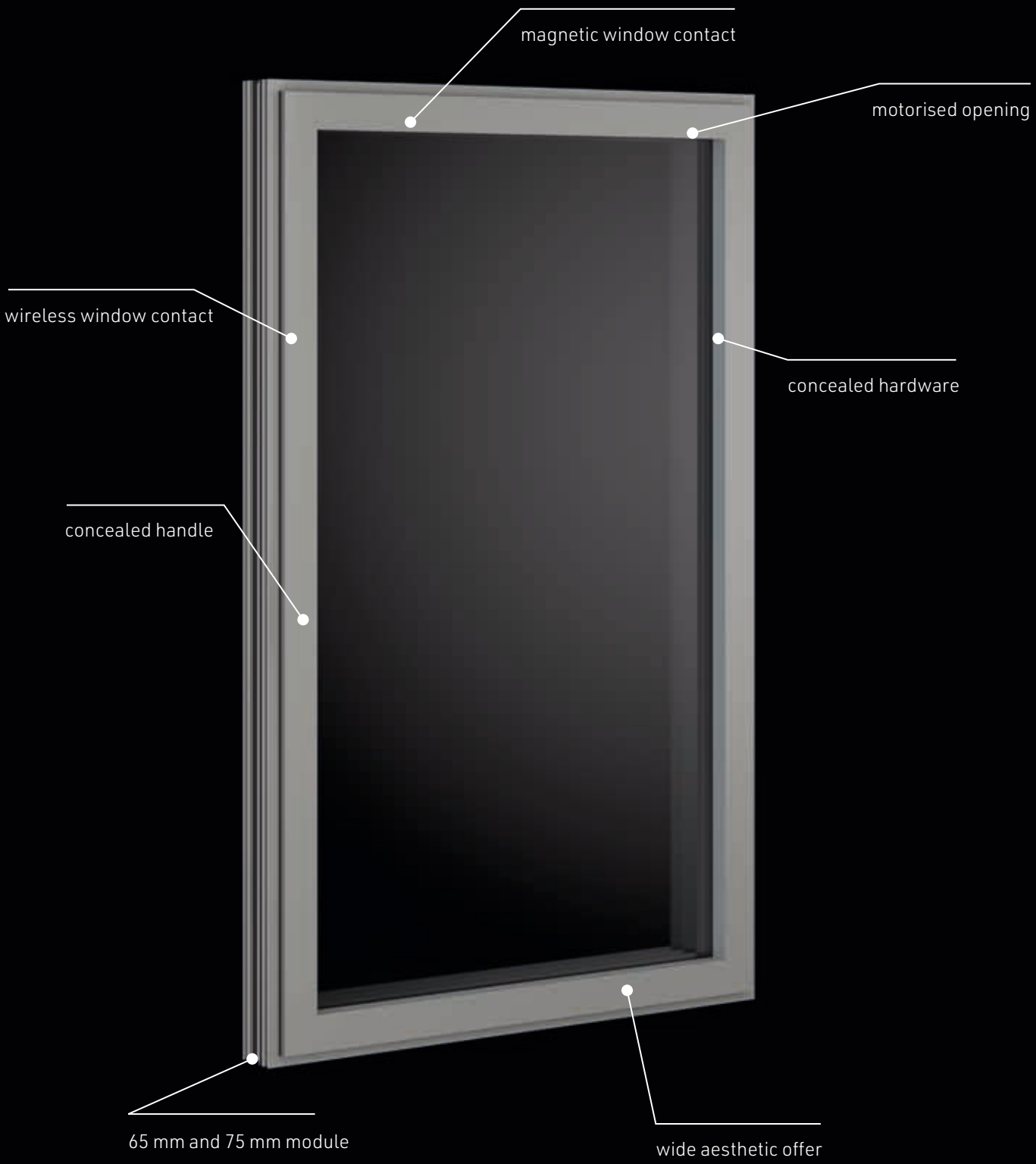
MORE RECYCLABLE

The specific characteristics contribute to constructing sustainable buildings that are eligible to be awarded to the main environmental certifications.

SOLEAL Next Window has been certified Cradle to Cradle® silver label.

MORE POSSIBILITES, LESS IMPACT

↗ SOLEAL NEXT WINDOW 65 & 75



Hydro CIRCAL® Recycled Aluminium

KEY FEATURES & INNOVATIONS

↗ SOLEAL NEXT WINDOW 65 & 75

MORE DESIGN & AESTHETICS

- Wide choice of Minimal and Visible vents and frames design
- Concealed hardware
- Concealed handle and drainage
- EXCLUSIVE® handle collection
- EXCLUSIVE® colour range

LARGE DIMENSIONS

- Module: 65 and 75 mm
- Height: up to 3 meters
- Glazing thickness: up to 69 mm
- Infill weight: up to 160 kg

MORE APPLICATIONS

- Numerous opening possibilities
- Façade and other ranges integration
- Composite assemblies
- Horizontal and vertical pivot frame
- Residential door
- Patio window
- Juliet balcony
- Motorisation available
- Magnetic window contact
- Wireless window contact: energy harvesting without battery

HOME SAFETY AND ACCESSIBILITY

- Burglary resistance: RC2, RC3 and PAS24
- Security glazing beads for glass pan installation from the outside, including open-out
- Magnetic window contact: certified for high- end security
- Antibacterial coating on handles on demand
- Reduced threshold for disabled: 15-20 mm

MORE PERFORMANCES

- Thermal: U_w up to 0.78 W/m²K
- Air permeability: Class 4
- Watertightness:
  - up to 1500 Pa for open-in
  - up to 1800 Pa for open-out
- Wind pressure resistance: Class 5
- Acoustic performance: R_w up to 48 dB

SOFTWARE

- Available in TechDesign
- BIM: available in Tech3D, Archicad and REVIT
- TechAcoustic

MORE SUSTAINABILITY

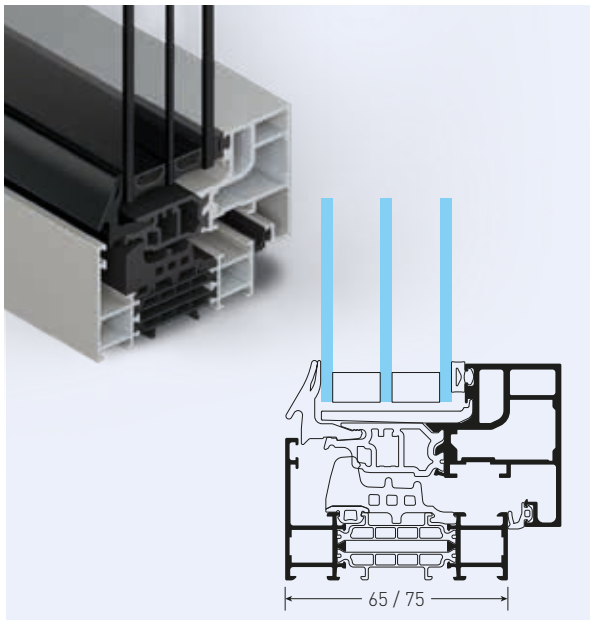
- SOLEAL Next is made in Hydro CIRCAL®, aluminium made with a minimum of 75% recycled end-of-life aluminium. This aluminium has one of the lowest CO_2 footprints worldwide: 1.9 kg of CO_2/kg aluminium.
- PVC-free components
- Cradle to Cradle® certificate (silver level)
- Dynamic EPD available on TechDesign
- 75% recycled and 95% recyclable

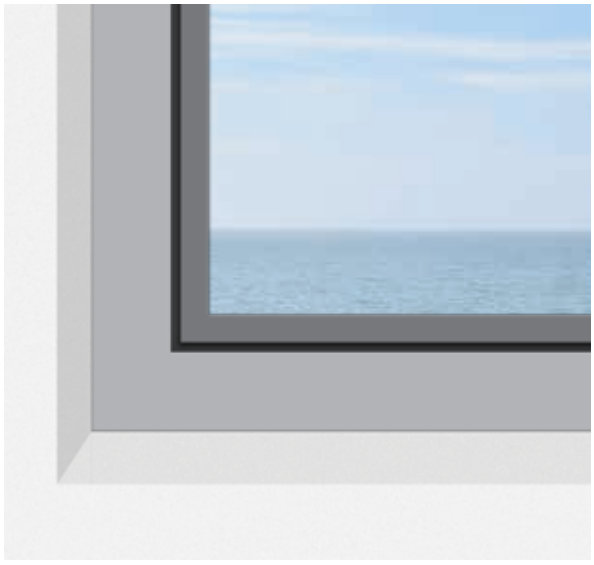
A MODULAR SOLUTION

↗ SOLEAL NEXT WINDOW 65 & 75

MINIMAL

The fine lines of the Minimal vent contribute to creating elegant and minimalistic architecture.

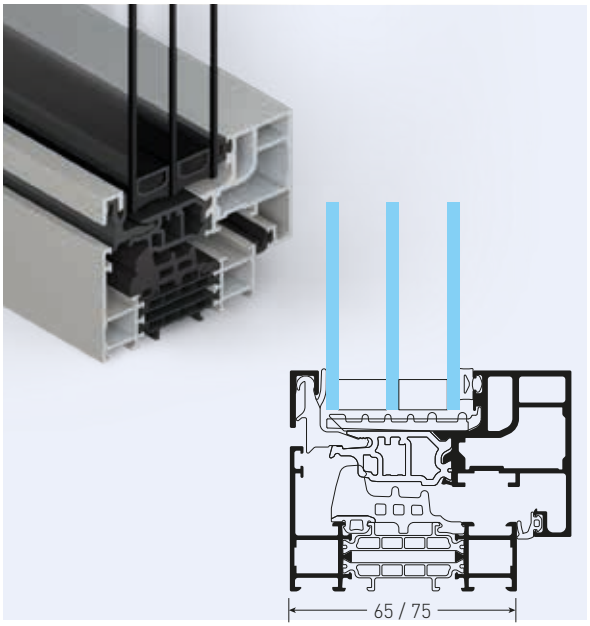


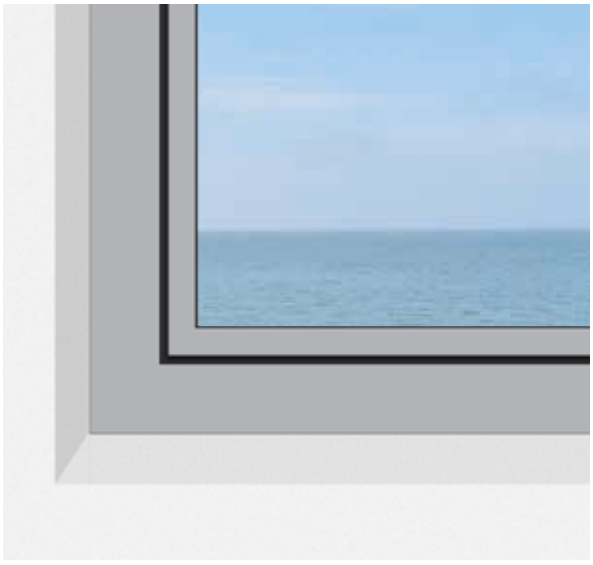


SOLEAL NEXT Minimal

MINIMAL CLIP-ON TRIM

The clip-on-trim adds modernity to the joinery and discreetly highlights the presence of the opening vent.

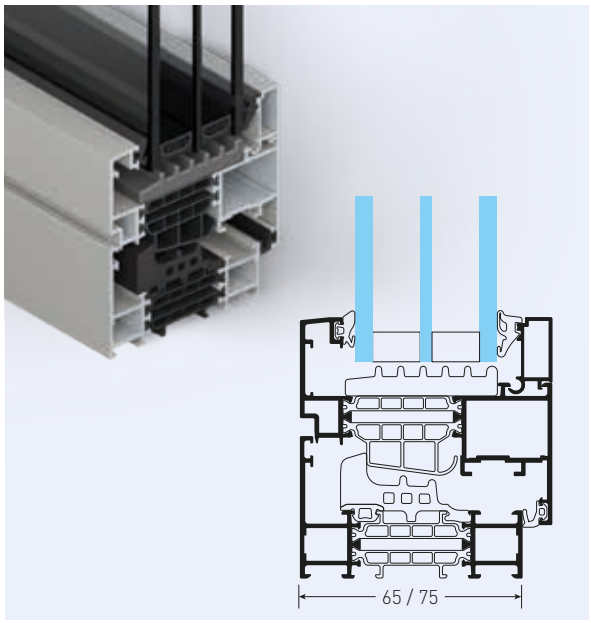


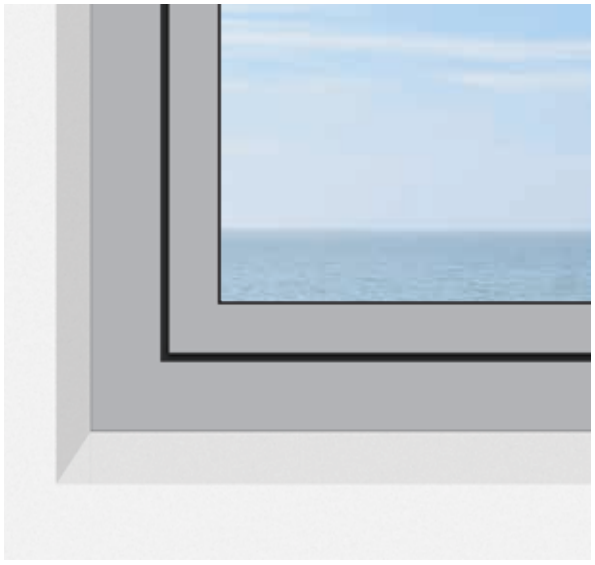


SOLEAL NEXT Minimal Clip-On Trim

VISIBLE OPEN-IN

The visible structure is balanced between the fixed frame and the opening vent, providing an additional aesthetical touch to the window.

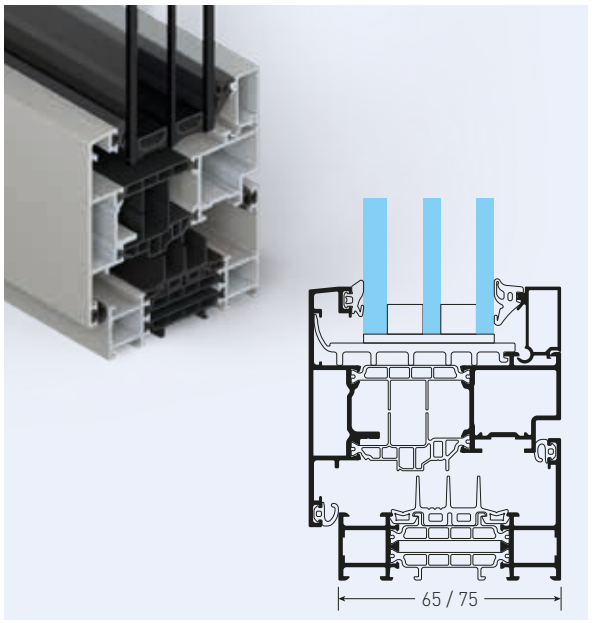




SOLEAL NEXT Visible Open-In

VISIBLE OPEN-OUT

Not only are there several designs of visible vents, it's also available for outward opening, giving a wide choice of possibilities.





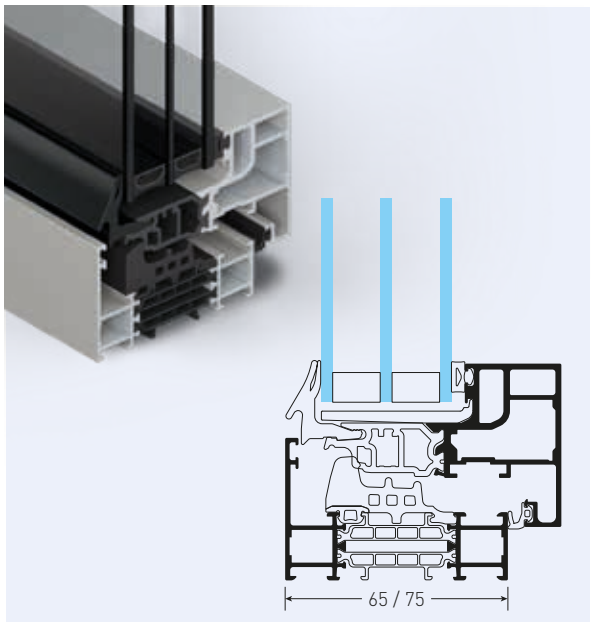
SOLEAL NEXT Visible Open-Out

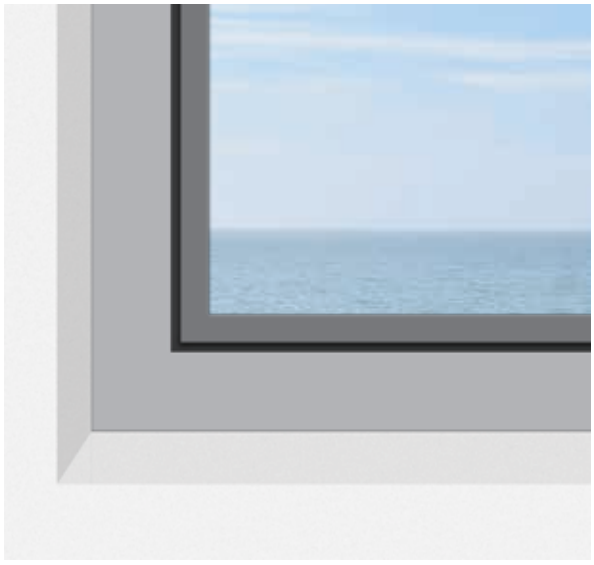
A MODULAR SOLUTION

↗ SOLEAL NEXT WINDOW 65 & 75

MINIMAL

The fine lines of the Minimal vent contribute to creating elegant and minimalistic architecture.

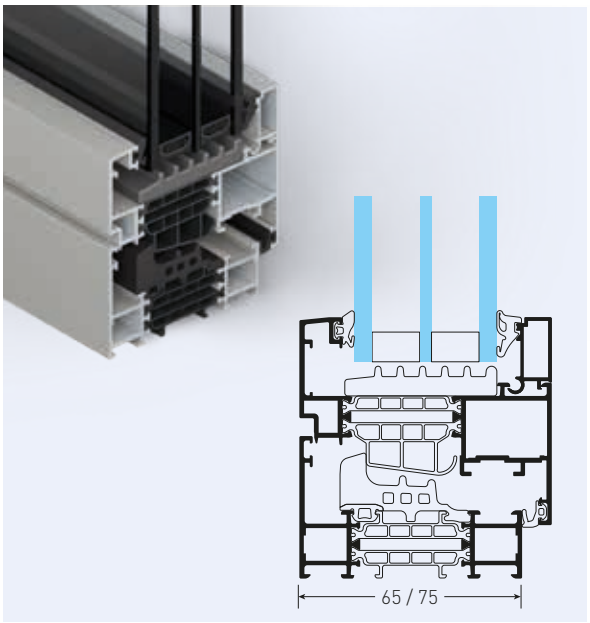


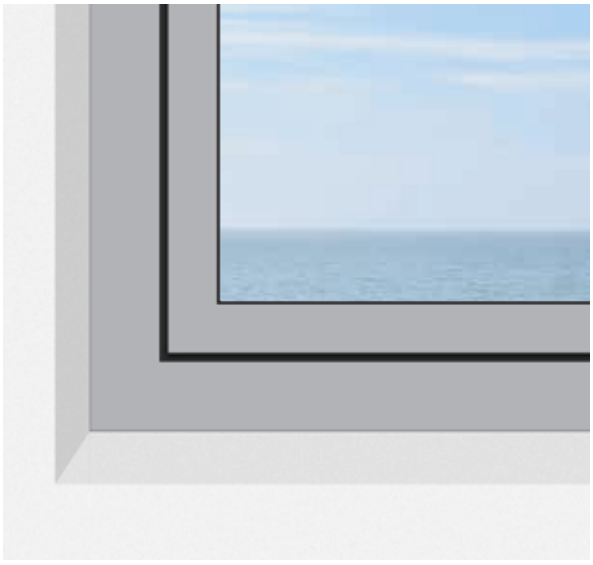


SOLEAL NEXT Minimal

VISIBLE OPEN-IN SQUARE

The visible structure is balanced between the fixed frame and the opening vent, providing an additional aesthetical touch to the window.

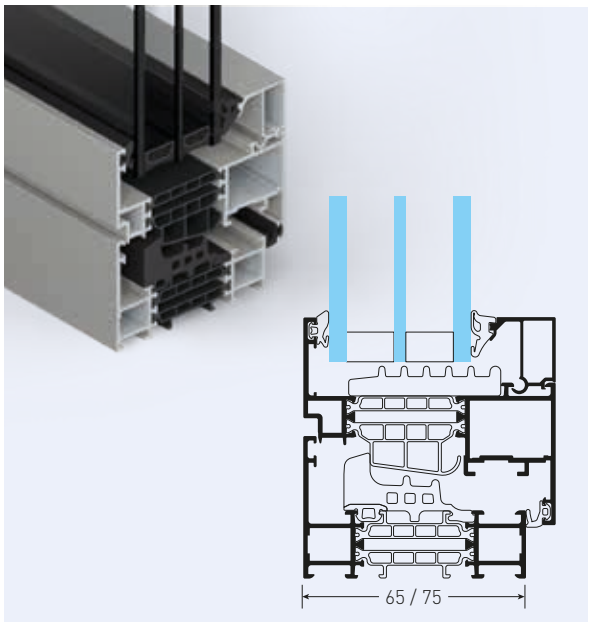


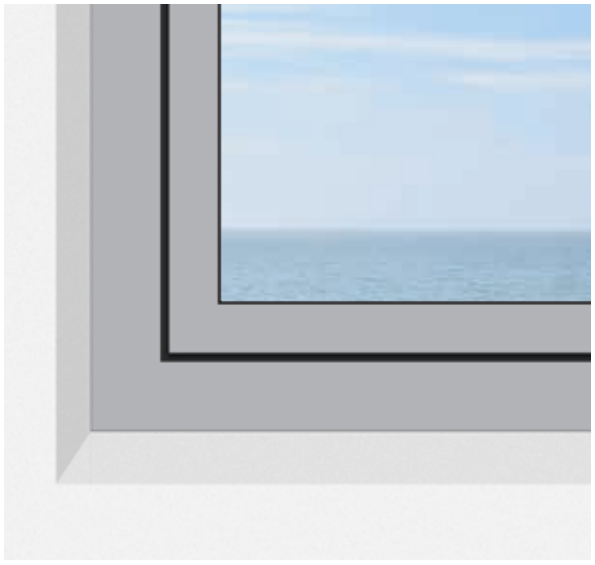


SOLEAL NEXT Visible Open-In Square

VISIBLE OPEN-IN FLUSH

The visible structure is balanced between the fixed frame and the opening vent, providing an additional aesthetical touch to the window.

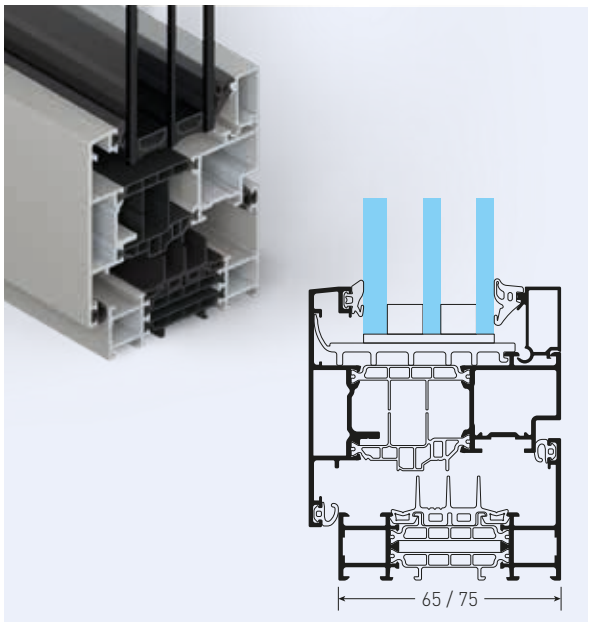




SOLEAL NEXT Visible Open-In Flush

VISIBLE OPEN-OUT

Not only are there several designs of visible vents, it's also available for outward opening, giving a wide choice of possibilities.





SOLEAL NEXT Visible Open-Out

MINIMAL

↗ SOLEAL NEXT WINDOW

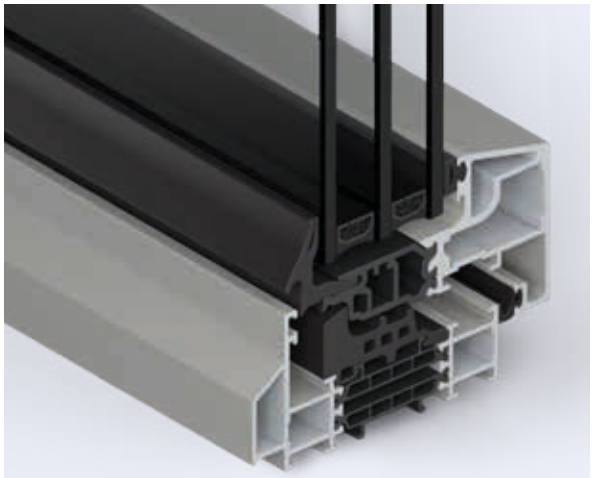
With a range of 5 different frames and 4 different vent designs, SOLEAL Next Minimal can be offered in 20 different visual aspects.

FRAME DESIGNS

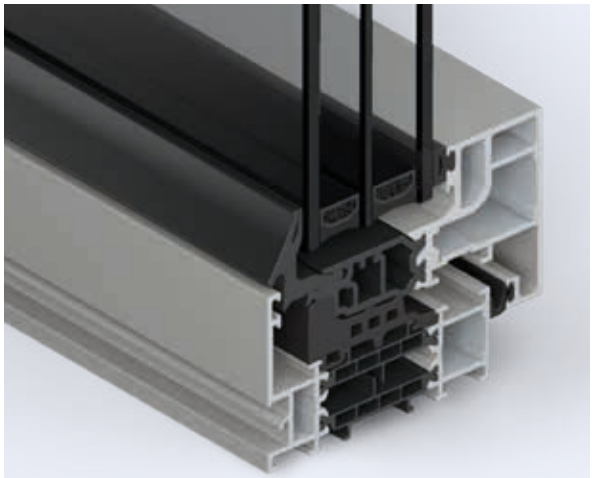
- Standard
- Step
- Slope
- Concealed drainage
- T frame with concealed drainage

VENT DESIGNS

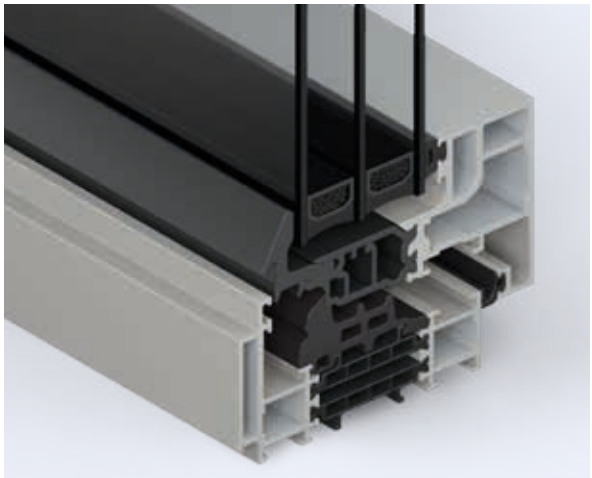
- Square
- Step
- Slope
- Clip on trim



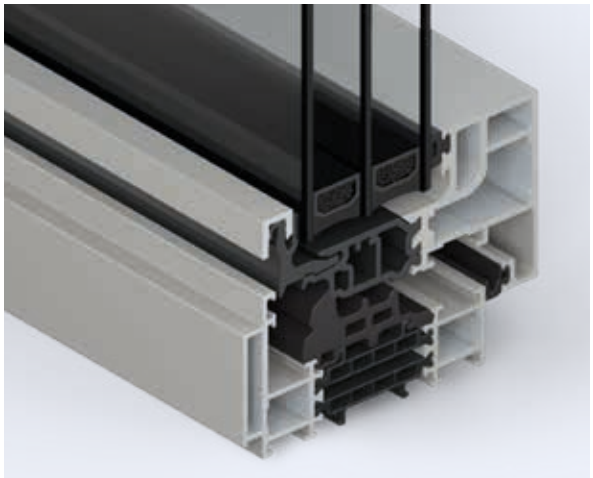
SOLEAL NEXT 75 Minimal
Slope frame and Slope vent



SOLEAL NEXT 75 Minimal
Concealed drainage frame and Square vent



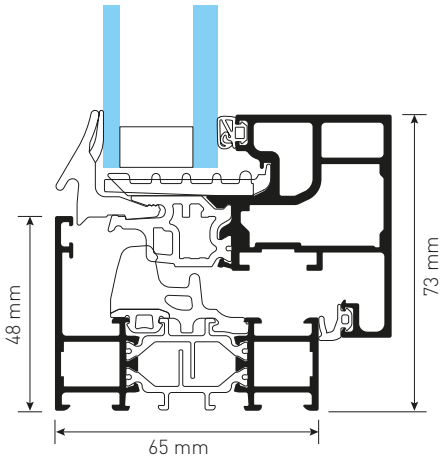
SOLEAL NEXT 75 Minimal
Step frame and Square vent



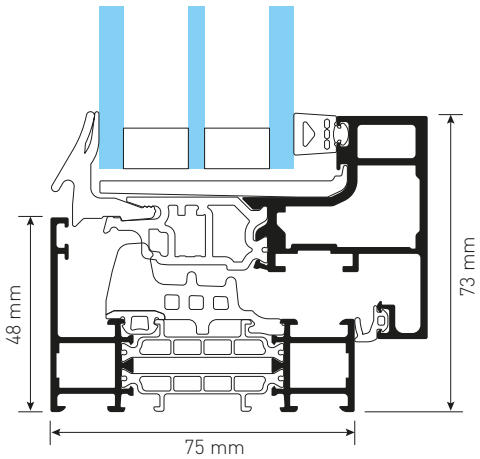
SOLEAL NEXT 75 Minimal Clip-On-Trim
Step frame and Square vent

The patented minimalist opening frame with slim, subtle sightlines is perfect to reduce the visible aluminium and to increase the amount of glazing.

SOLEAL NEXT 65
Minimal



SOLEAL NEXT 75
Minimal





Architect: MortonScarr
Photographer: John Kees Photography

VISIBLE OPEN-IN

↗ SOLEAL NEXT WINDOW

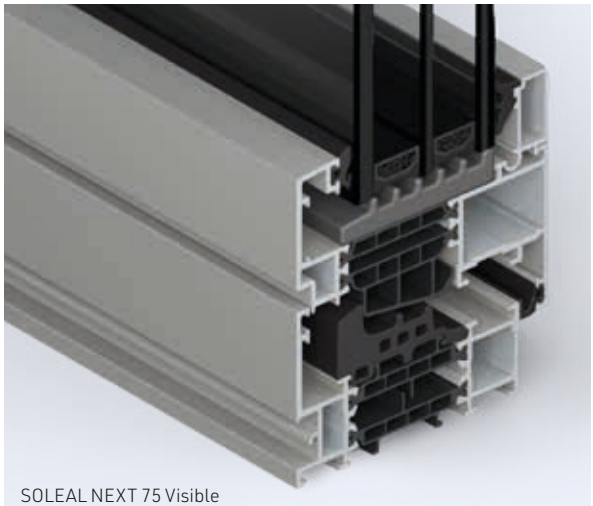
With a range of 5 different frames and 5 different vent designs, SOLEAL Next Visible can be offered in 25 different visual aspects.

FRAME DESIGNS

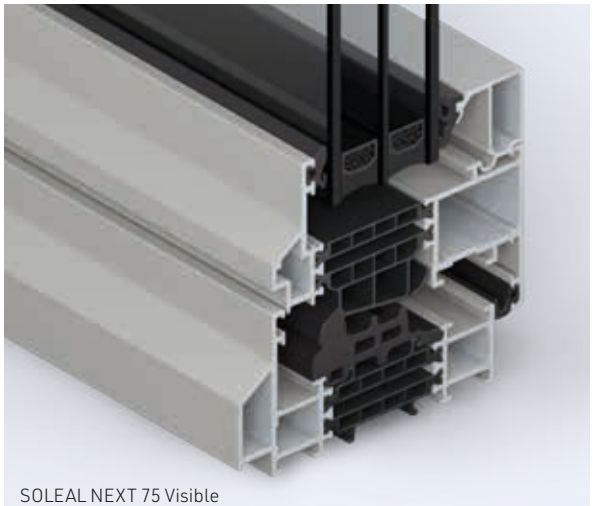
- Standard
- Step
- Slope
- Concealed drainage
- T frame with concealed drainage

VENT DESIGNS

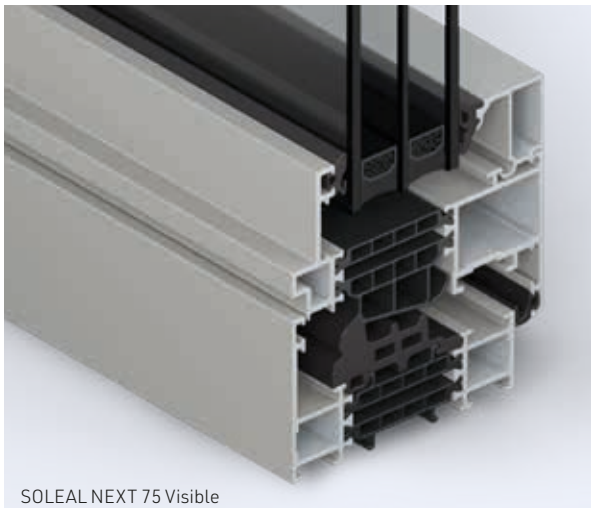
- Square
- Step
- Slope
- Soft
- Flush



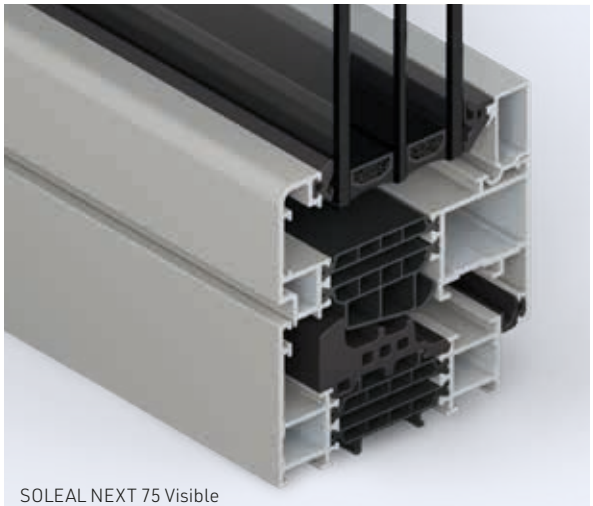
SOLEAL NEXT 75 Visible
Concealed drainage frame and Square vent



SOLEAL NEXT 75 Visible
Slope frame and Slope vent



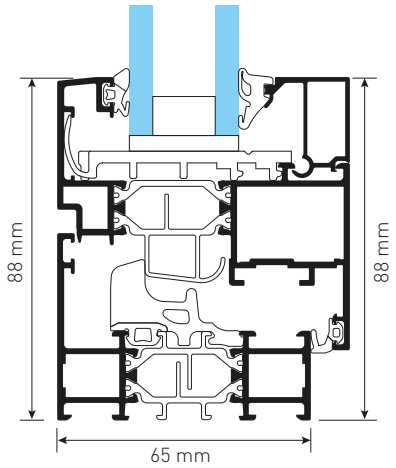
SOLEAL NEXT 75 Visible
Standard frame and Step vent



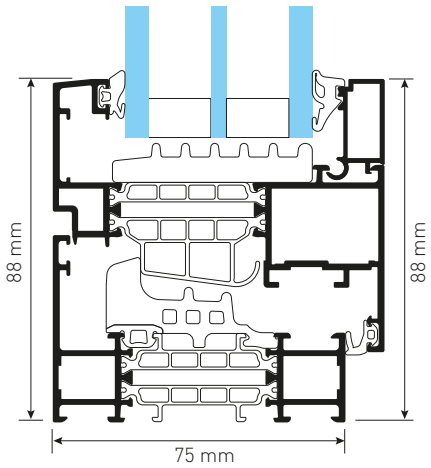
SOLEAL NEXT 75 Visible
Standard frame and Soft vent

The stylish visible opening frame provides a contemporary, modern aesthetic.

SOLEAL NEXT 65
Visible



SOLEAL NEXT 75
Visible





Architect: Bernardino Seguí Cool
Photographer: Wenzel

VISIBLE OPEN-IN

↗ SOLEAL NEXT WINDOW

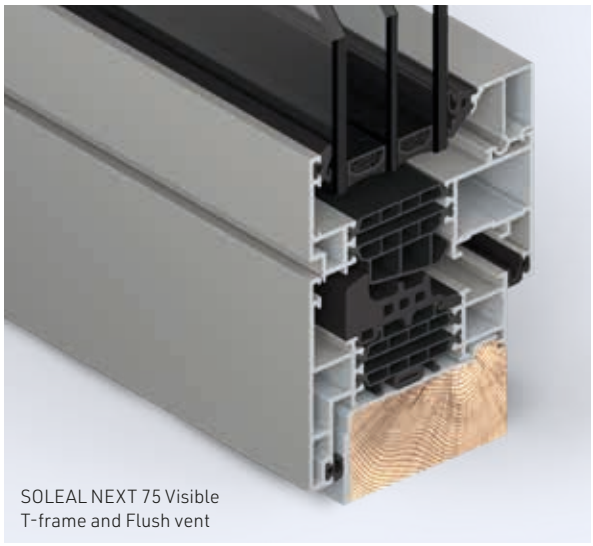
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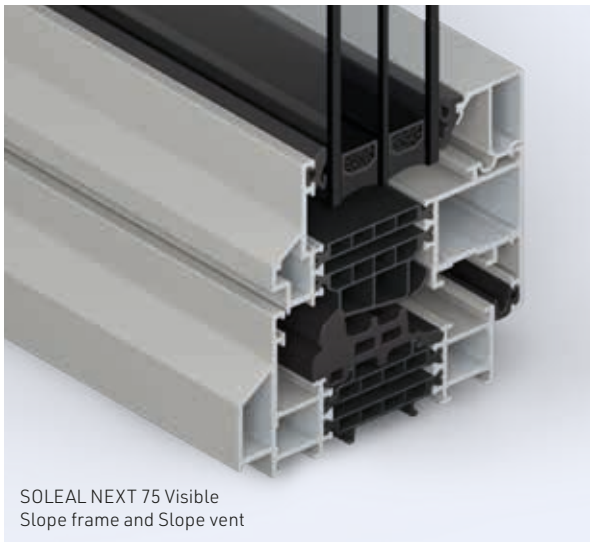
- Standard
- Step
- Slope
- Concealed drainage
- T frame with concealed drainage

VENT DESIGNS

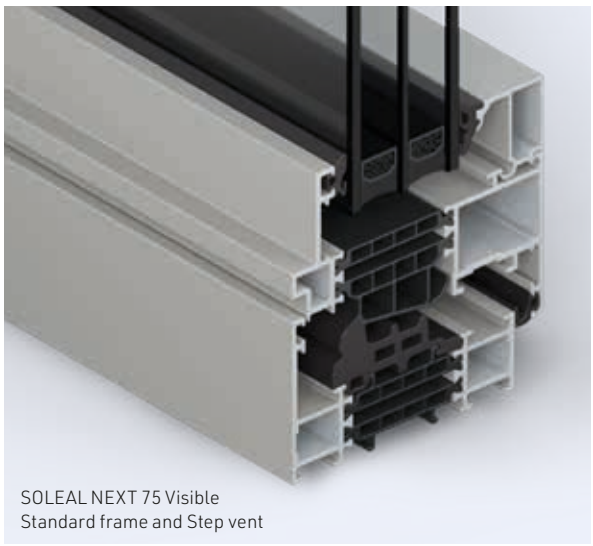
- Square
- Step
- Slope
- Soft
- Flush



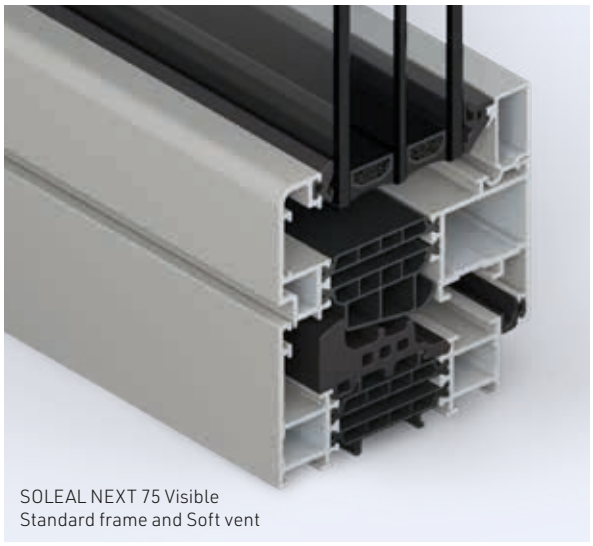
SOLEAL NEXT 75 Visible
T-frame and Flush vent



SOLEAL NEXT 75 Visible
Slope frame and Slope vent



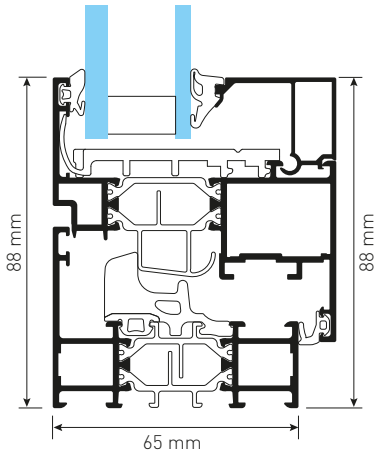
SOLEAL NEXT 75 Visible
Standard frame and Step vent



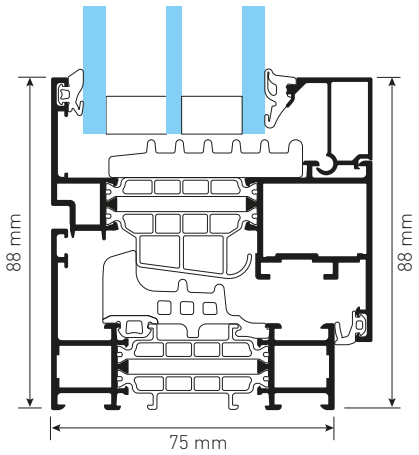
SOLEAL NEXT 75 Visible
Standard frame and Soft vent

The stylish visible opening frame provides a contemporary, modern aesthetic.

SOLEAL NEXT 65
Visible



SOLEAL NEXT 75
Visible



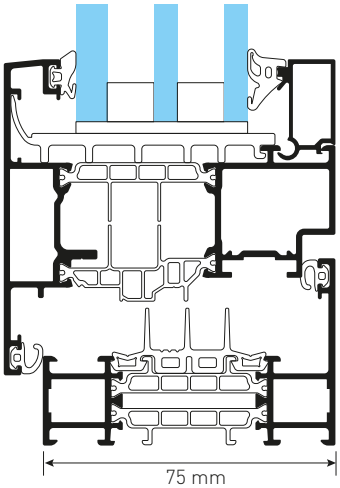


Architect: Bernardino Seguí Cool
Photographer: Wenzel

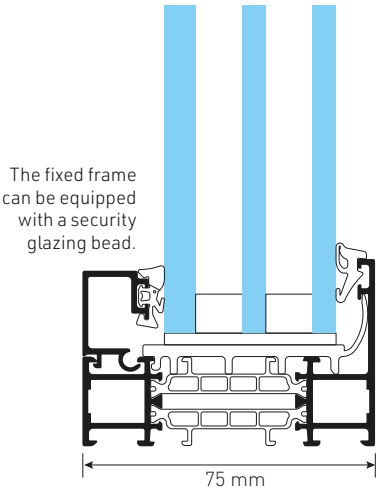
VISIBLE OPEN-OUT

↗ SOLEAL NEXT WINDOW

SOLEAL NEXT 75
Visible Open-Out



SOLEAL NEXT 75
Fixed Frame

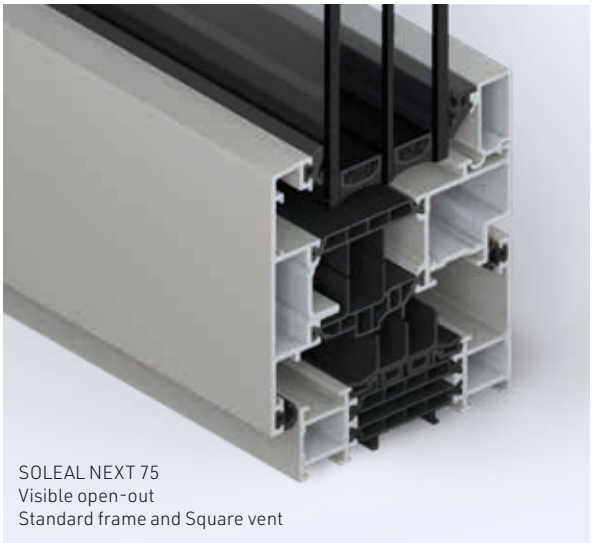


WINDOW FEATURES

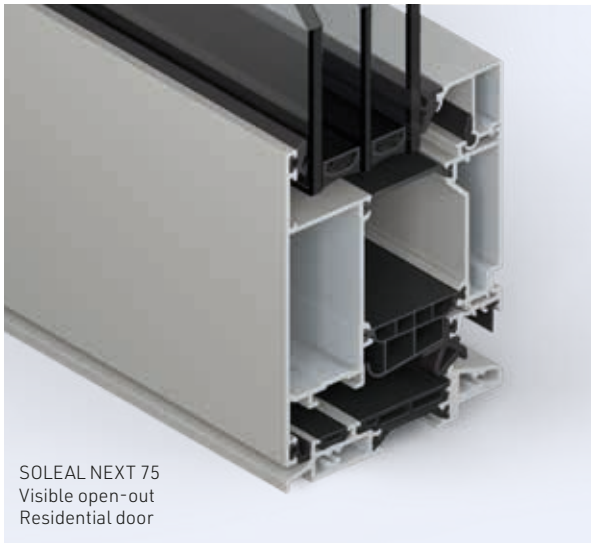
- Vent optimized for friction stay (No packer on the vent)
- Straight cut central gasket (Overlapping lips)
- Exist in single and double vent
- PAS24 available

RESIDENTIAL DOOR FEATURES

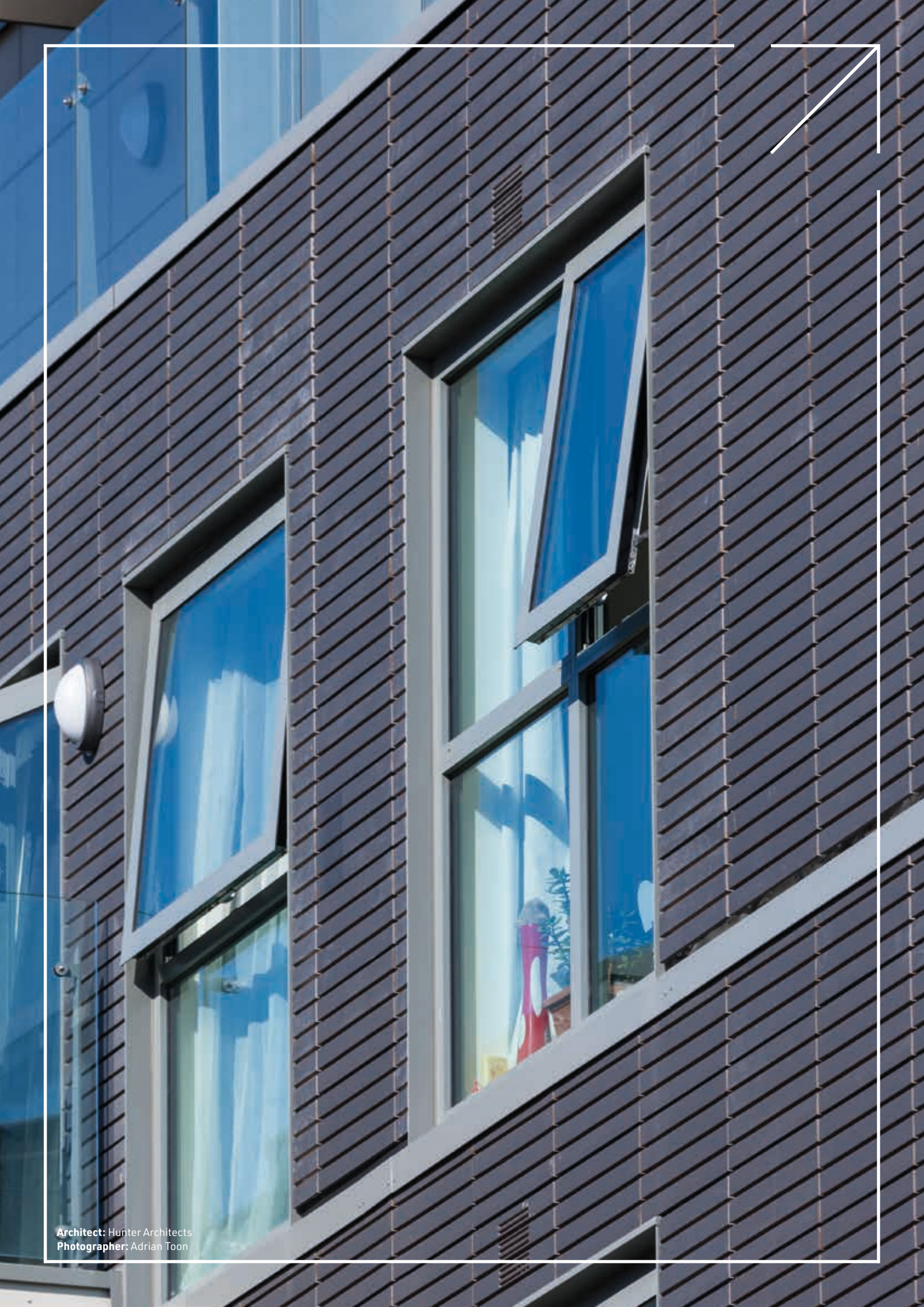
- Door lock offer
- Door hinges tested at 200 000 cycles



SOLEAL NEXT 75
Visible open-out
Standard frame and Square vent



SOLEAL NEXT 75
Visible open-out
Residential door



Architect: Hunter Architects
Photographer: Adrian Toon

CONCEALED ELEMENTS & HARDWARE

↗ SOLEAL NEXT WINDOW

AESTHETICS

- Invisible hinges to create a minimalistic look
- Thin hardware components, harmonious finishes
- Finishing covers tie rod and frame groove for a clean appearance



FAST ASSEMBLY

- Frontal mounted elements
- Direct punching of the tie rod
- No groove notching on the vent
- Positioning with breakable stoppers

SIMPLE SUPPLY

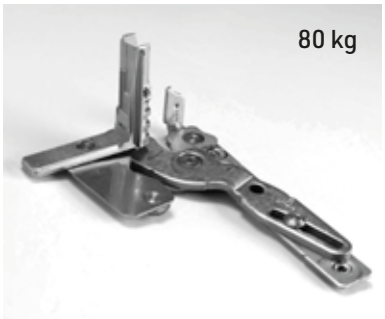
- No coated or anodized part, which reduces lead time for supply
- All components are common except for the bottom hinge, which enables stock to be built up according to weight and opening

LARGE DIMENSIONS

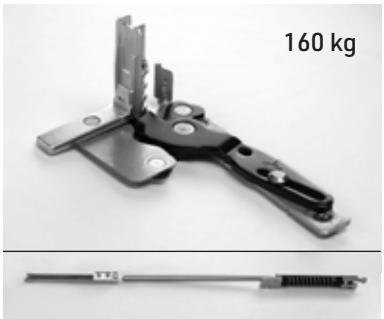
- Up to 3 m height
- 160 kg per vent

COMPREHENSIVE SOLUTION

- Bottom hinges adapted to the weight of the glazing and the type of project:







CONCEALED HANDLES

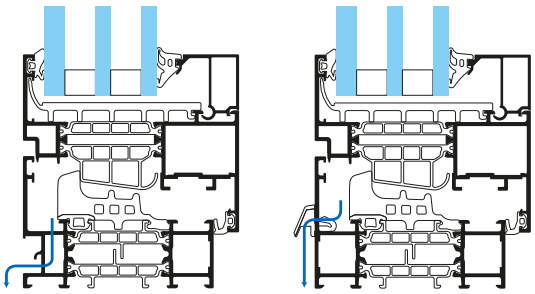
The window handle is hidden in the vent, adding to the harmonious appearance of the window. This innovative design idea was awarded prizes from the international expert juries of the iF DESIGN AWARD, the Red Dot Design Award. This feature is proposed on the Minimal vent.



CONCEALED DRAINAGE

Concealed, our drainage is strategically placed on the casement frame to drain water out while preventing the air from coming inside.

If visible, our minimalistic drainage cap features standard colour, or lacquered in order to match the tint of the window.



Concealed drainage **Visible drainage**

Concealed drainage versus traditional drainage through the frame profile and drainage caps.

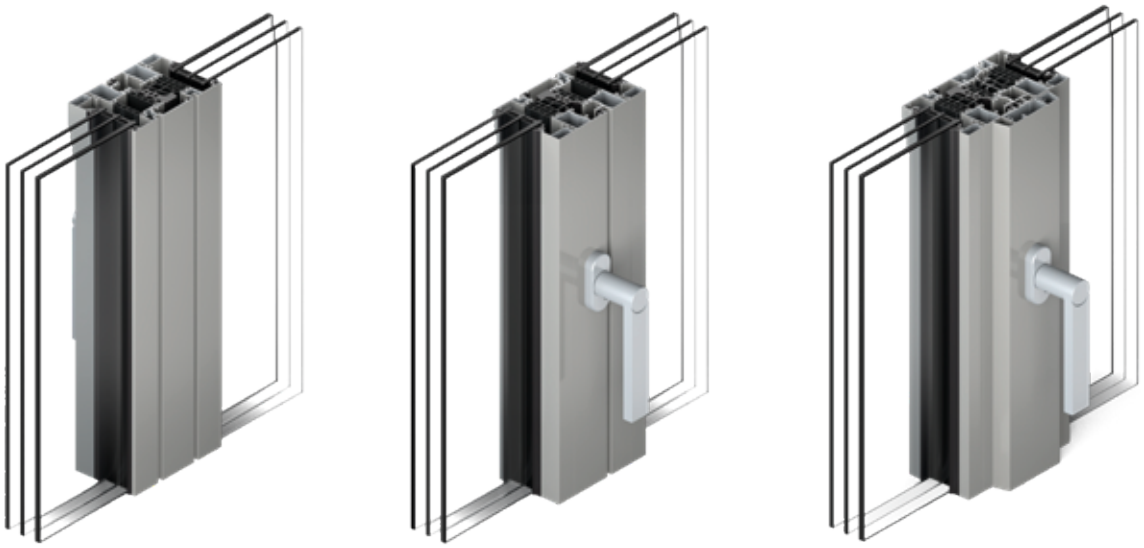


Architect: Elding Oscarsson Architects
Photographer: Erik Wik

MORE AESTHETIC FEATURES

↗ SOLEAL NEXT WINDOW

2 VENTS MULLION SOLUTION

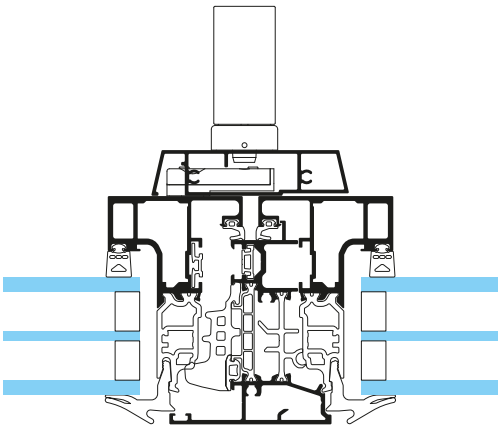


REDUCED EXTERNAL SIGHTLINE

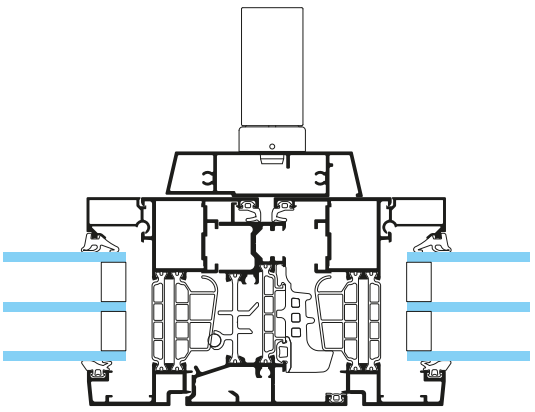
- 146 mm for Visible vent with central mullion
- 126 mm for Visble vent with reduced central mullion
- 66 mm for Minimal vent

CENTERED HANDLE

- Contributes to an harmoniuous internal design
- Available in Minimal and Visible vent

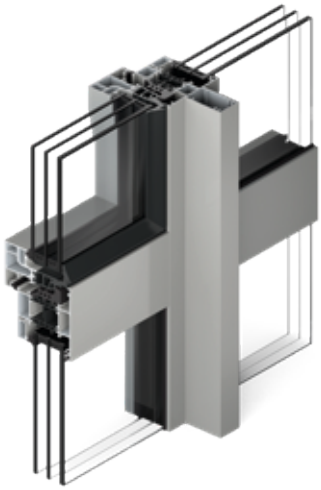


SOLEAL NEXT Minimal
centered handle

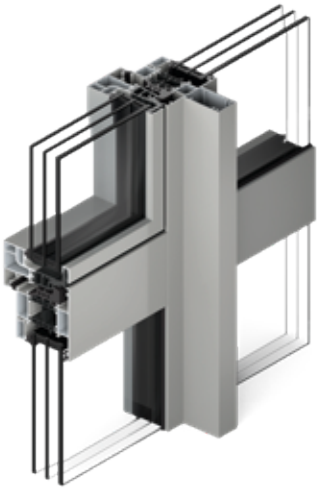


SOLEAL NEXT Visible
centered handle

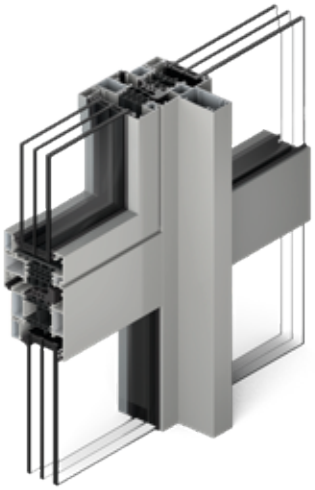
COMPOSITE FRAME WITH OPEN-IN VENT



Minimal



Minimal Clip-On-Trim



Visible Open-In

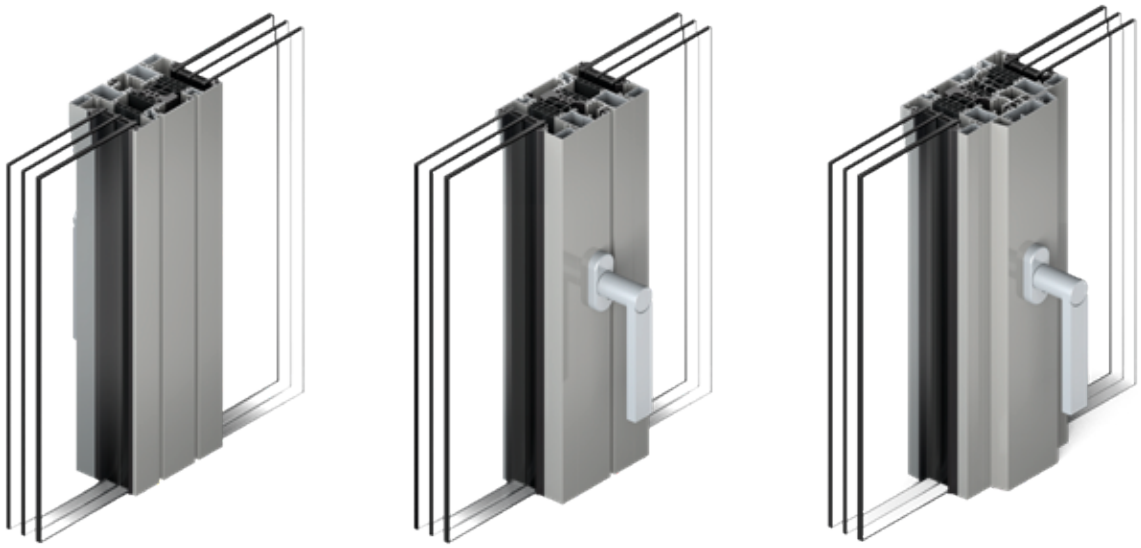


Architect: Arquinur + Baum
Photographer: Javier Orive

MORE AESTHETIC FEATURES

↗ SOLEAL NEXT WINDOW

2 VENTS MULLION SOLUTION

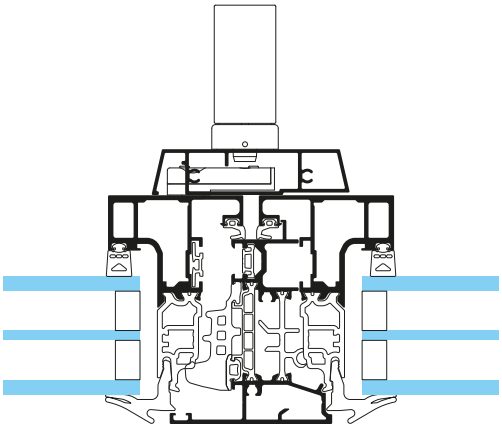


REDUCED EXTERNAL SIGHTLINE

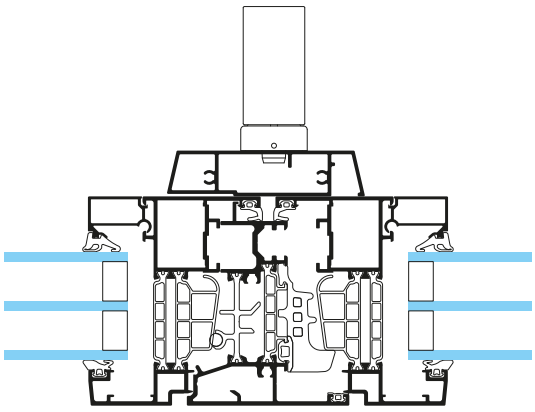
- 146 mm for Visible vent with central mullion
- 126 mm for Visble vent with reduced central mullion
- 66 mm for Minimal vent

CENTERED HANDLE

- Contributes to an harmoniuous internal design
- Available in Minimal and Visible vent

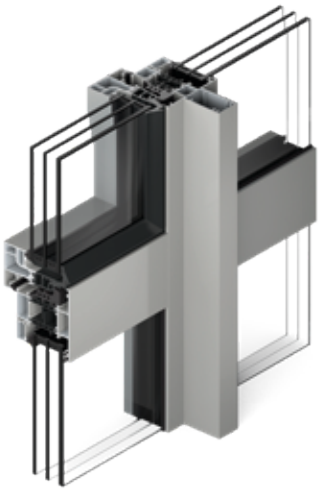


SOLEAL NEXT Minimal
centered handle



SOLEAL NEXT Visible
centered handle

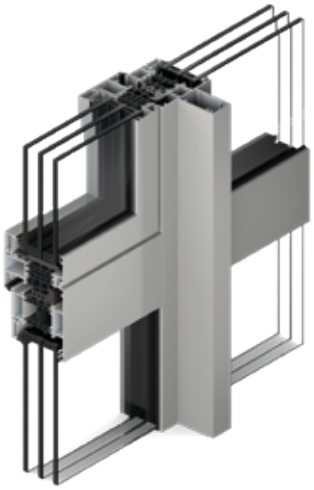
COMPOSITE FRAME WITH OPEN-IN VENT



Minimal



Minimal Clip-On-Trim



Visible Open-In



Architects: Arquinur + Baum
Photographer: Javier Orive

EXCLUSIVE HANDLES COLLECTION

↗ SOLEAL NEXT WINDOW

TECHNAL's Exclusive Handles Collection combines sleek, sensory design with refined materials and finishes, offering an innovative touch that conceals the brand's renowned expertise in durable, high-performance aluminium solutions

SELECTION

This range of handles draws attention with its understated and elegant lines. It offers a strong visual identity through simple, graphic geometric shapes—round or square—with an ergonomic design that modernises the current offer. Proven quality is ensured with anodised or coated finishes, including the new black anodised option for added sophistication. The collection are made of cast aluminium with lacquered or anodized finishes, available in the complete TECHNAL colour range for precise project integration.



Handle with standard round rosette



Locking handle with standard round rosette



Handle with reduced round rosette





Handle with standard square rosette



Handle with reduced square rosette



Locking handle with standard square rosette



Open out handle square rosette without key

Open out handle square rosette with key

Designed by Bernard Monfort

EXCLUSIVE HANDLES COLLECTION

↗ SOLEAL NEXT WINDOW

TEMPTATION

This range builds on TECHNAL's expertise, taking its extruded aluminium design to new levels of high quality and clean lines. All the elements come in a mix of finishes, textures and colours and can be combined to get unique and personalised colour options. All this designed to achieve a unique visual sensation and a magnificent experience to the touch.



Handle with standard round rosette



Handle with standard square rosette



Handle with reduced round rosette



Handle with reduced square rosette



Handle with key rosette round version



Handle with key rosette square version

PASSION

Taking design to new heights, the PASSION range stands out for its refined geometric forms and exclusive combinations of materials and finishes. Fully customisable to meet the demands of each project, it offers a base in multiple colours from the TECHNAL palette and a wide selection of premium materials such as brass, bronze, and stainless steel. Distinctive details like milled grooves enhance its uniqueness, making each piece a genuine, tailored expression that effortlessly complements diverse architectural styles.



Handle with standard round rosette



Handle with standard square rosette



Handle with reduced round rosette



Handle with reduced square rosette



Designed by Bernard Monfort



Architect Agency: Véronique Joffre
Photographer: Kévin Dolmaire

TECHNAL RELEASES THE COLOURS FOR A LIVING ARCHITECTURE

Ever faithful to its creative and architectural logic, TECHNAL has enriched its colour range with different collections. To highlight the EXCLUSIVE COLLECTION.

At first glance, it's the material that speaks. This voice comes from the colours themselves, which are sometimes concrete and solid and sometimes light and volatile.

This choice of material is also enhanced by looks or finishes: the classic / satin / gloss duo is joined by textured, matt, metallised, spangled or even iridescent finishes.

This visual and tactile experience is primarily an echo of noble and ancestral materials - the rustic character of the earth, the raw harshness of adobe, the grain of stone - all expressed through colour.

It's also the imprint of innovation which mixes the ephemeral play of light and the changing nature of pigment in colour and recreates a new materiality that has never been seen before.

FINISHES AND COLOURS

A wide range of finishes and colours is available to meet individual project requirements, enhancing existing buildings and offering architects and designers greater design freedom:

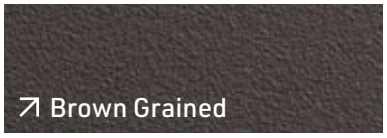
- Natural anodised in accordance with "QUALANOD" instructions. EN 23731:2001.
- Polyester coating finishes in a wide range of colours in accordance with "QUALICOAT" and "QUALIMARINE" instructions.
- SOLEAL NEXT WINDOW is also available in lacquered finishes with the colour range EXCLUSIVE® for a stylish and contemporary look.

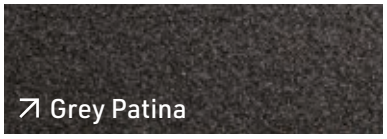
MORE COLOURS

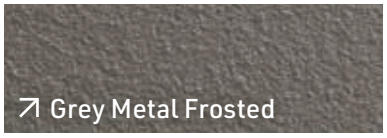
↗ SOLEAL NEXT WINDOW

CLASSIC COLLECTION

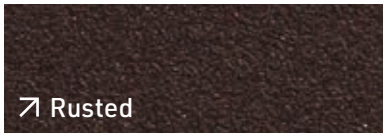
The Classic Collection is made up a unique selection of aluminium finishes offering different material effects: grained, frosted and patina. Every face of metal is explored to combine colour, texture and light.

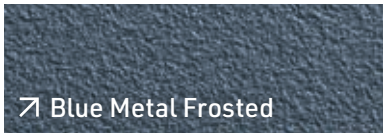

↗ Brown Grained

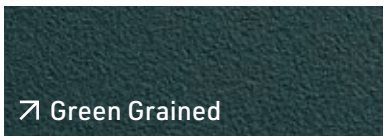

↗ Grey Patina


↗ Grey Metal Frosted


↗ Grey Grained


↗ Rusted


↗ Blue Metal Frosted

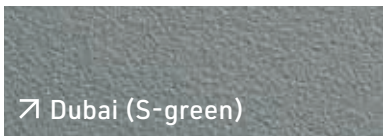

↗ Green Grained

DOWNTOWN COLLECTION

Developed in collaboration with architects, this collection is made up of eight 100% exclusive colours which enhance the aluminium. The combination of materials and light effects highlight the simplicity and elegance of the subtle colours which are reminiscent of natural materials.

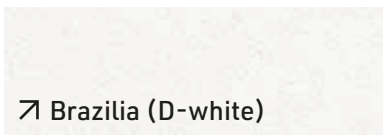

↗ New-York (B-black)


↗ Shangai (G-brown)

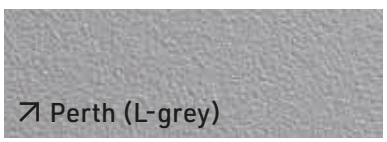

↗ Dubai (S-green)


↗ Bombay (P-grey)


↗ Montreal (G-graphite)


↗ Brazilia (D-white)


↗ Dakar (R-brown)


↗ Perth (L-grey)

MORE POSSIBILITES, LESS IMPACT

↗ SOLEAL NEXT WINDOW 75



SOLEAL NEXT 75
Minimal Open-In



SOLEAL NEXT 75
Visible Open-Out

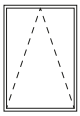
Hydro
CIRCAL®
Recycled Aluminium

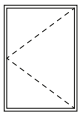
APPLICATIONS

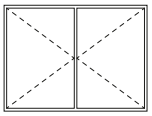
↗ SOLEAL NEXT WINDOW 75 MM

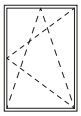
OPEN-IN

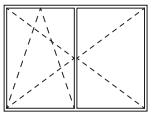

Fixed frame

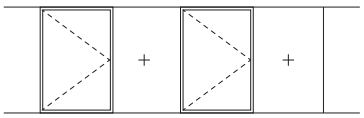

Bottom-hung

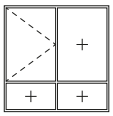

1 vent

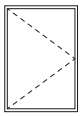

2 vents

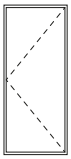

Turn/tilt or tilt/turn 1 vent

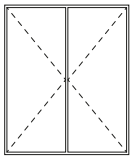

Turn/tilt or tilt/turn 2 vents

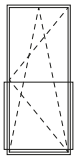

Ribbon window


Fixed composite open-in window

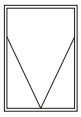

Fireman access

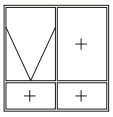

Residential door with threshold 1 vent

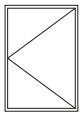

Residential door with threshold 2 vents

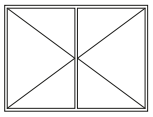

Juliet balcony

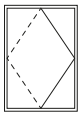
OPEN-OUT

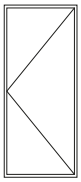

Top-hung

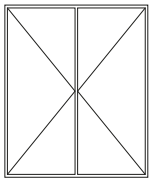

Fixed composite top-hung


Side hung 1 vent


Side hung 2 vents


Pivot H + V


Residential door with threshold 1 vent


Residential door with threshold 2 vents

MORE POSSIBILITES, LESS IMPACT

↗ SOLEAL NEXT WINDOW 65



SOLEAL NEXT 65
Minimal Open-In



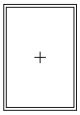
SOLEAL NEXT 65
Visible Open-In

Hydro
CIRCAL®
Recycled Aluminium

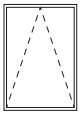
APPLICATIONS

↗ SOLEAL NEXT WINDOW 65 MM

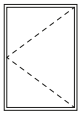
OPEN-IN



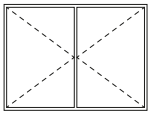
Fixed frame



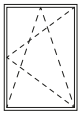
Bottom-hung



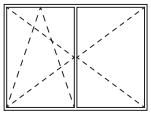
1 vent



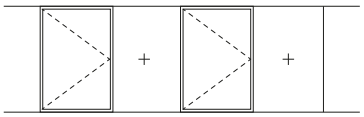
2 vents



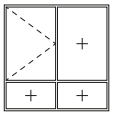
Turn/tilt or tilt/turn 1 vent



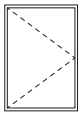
Turn/tilt or tilt/turn 2 vents



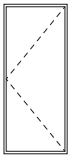
Ribbon window



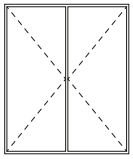
Fixed composite open-in window



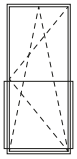
Fireman access



Residential door with threshold 1 vent

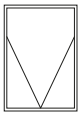


Residential door with threshold 2 vents

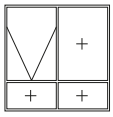


Juliet balcony

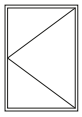
OPEN-OUT



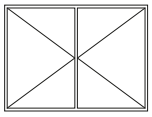
Top-hung



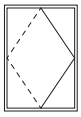
Fixed composite top-hung



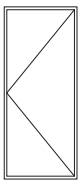
Side hung 1 vent



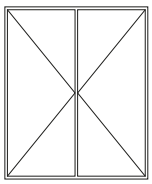
Side hung 2 vents



Pivot H + V



Residential door with threshold 1 vent



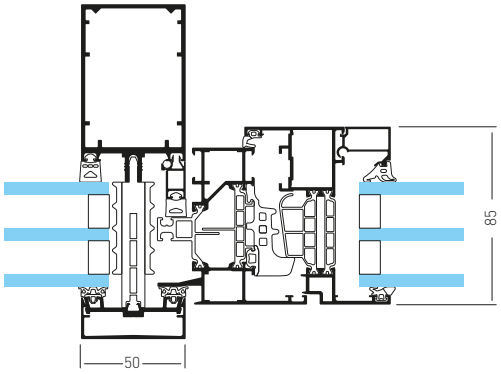
Residential door with threshold 2 vents

MORE APPLICATIONS

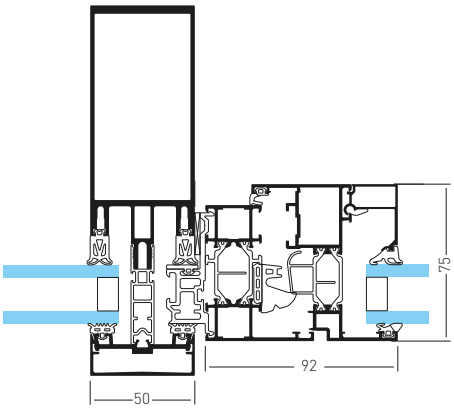
↗ SOLEAL NEXT WINDOW

CURTAIN WALL INTEGRATION

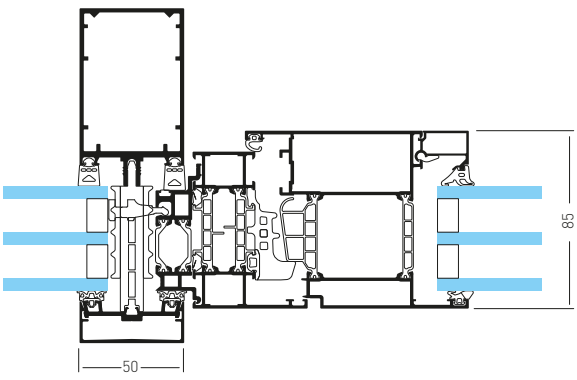
All SOLEAL Next vents can be integrated in TENTAL 50 and 60 curtain wall.



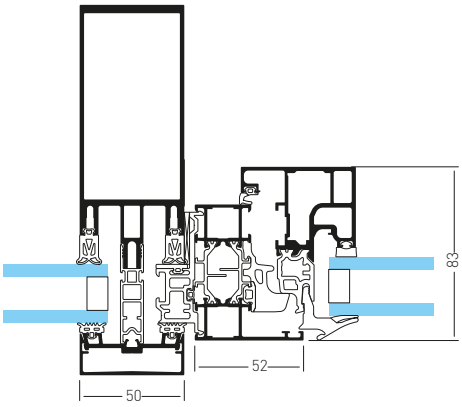
SOLEAL NEXT 75
Visible Flush integrated in TENTAL 50



SOLEAL NEXT 65
Visible Flush integrated in TENTAL 50



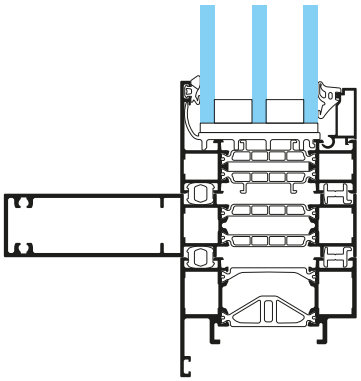
SOLEAL Next 75
Visible Residential Door integrated in TENTAL 50



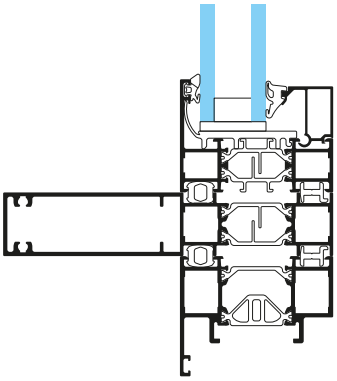
SOLEAL Next 65
Minimal integrated in TENTAL 50

COUPLING

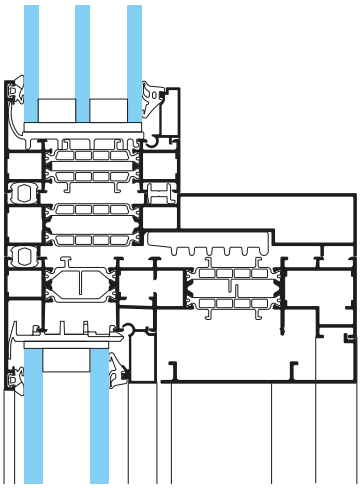
A range of couplers exist in 65mm and 75mm modules to fit with other product ranges from 65mm up to 180mm frame depth.



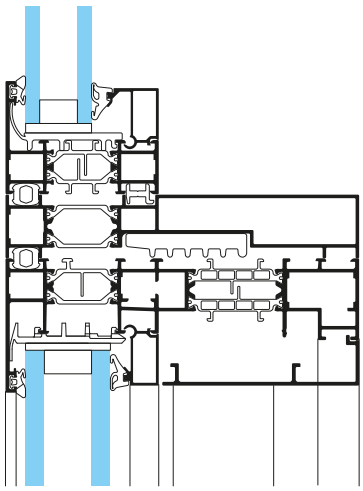
SOLEAL NEXT 75
Reinforced add-on mullion fixe glass and door frame



SOLEAL NEXT 65
Reinforced add-on mullion fixe glass and door frame



SOLEAL NEXT 75
Add-on mullion with TIGAL pull & slide



SOLEAL NEXT 65
Add-on mullion with TIGAL pull & slide

RESIDENTIAL DOOR

↗ SOLEAL NEXT

2 BOTTOM SECTION OPTIONS

- Features no threshold with drop seal
- One low threshold profile to allow easy entrance for disabled

ENDURANCE

- Door hinges tested: 200.000 cycles

APPLICATIONS

- Single and double residential door open-in
- Single and double residential door open-out

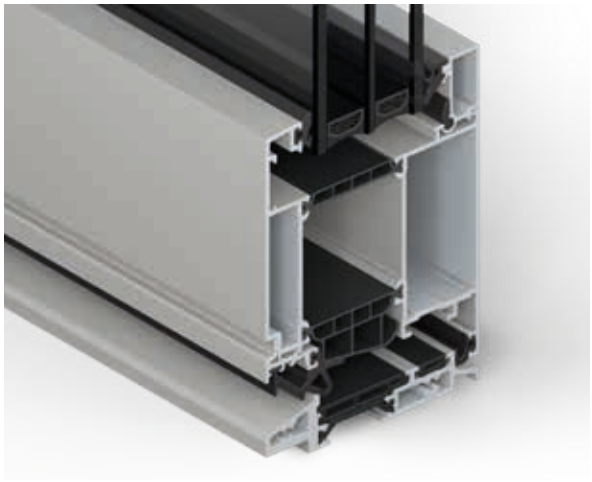


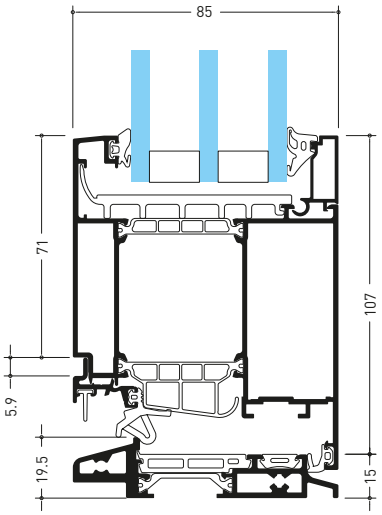
MORE ACCESSIBILITY

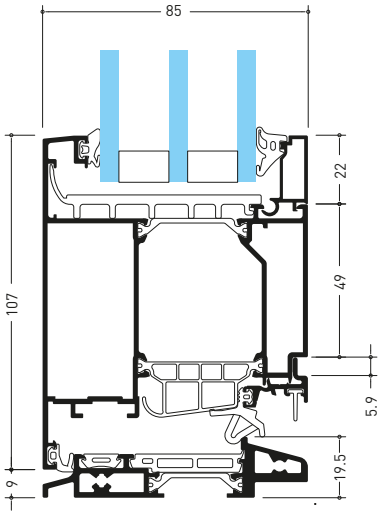
↗ SOLEAL NEXT WINDOW

THRESHOLD FOR DISABLED

- Adapted for easy access on all available applications:
  - Easy opening / closing
  - Adaptable handle height
- No functional gasket at bottom
- No front drainage like flush doors
- Sloped < 5mm
- 15 mm and 20 mm solution can be used with support profile







MORE COMFORT

↗ SOLEAL NEXT WINDOW

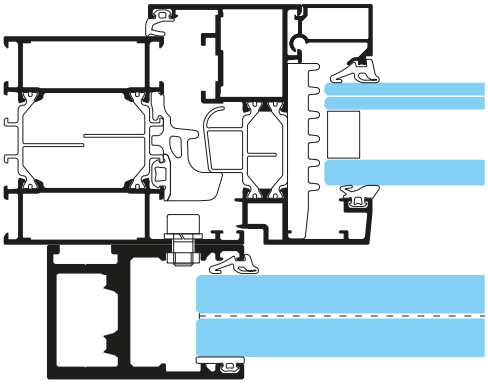
JULIET BALCONY

Integrated into the window system, the Juliet balcony is a glass balustrade which provides additional safety for peace of mind.

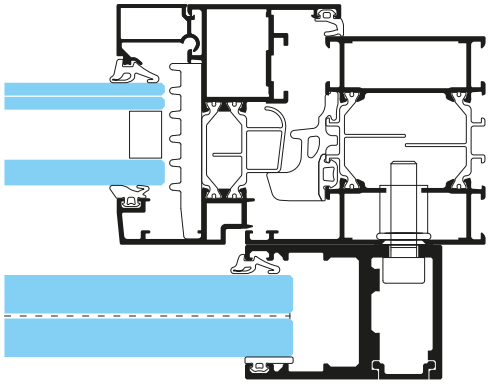
- Can be fixed on 65 and 75 mm module
- Glass can be installed from the inside or from outside
- Limited to 35 mm protrusion for roller shutters
- End plugs without screws visible from the outside
- 2 profiles dimensions to allow standard or XL Juliet balcony
  - Standard glazing and max dimensions: 66,4 / 1300mm - 88,4 / 1600 mm. Maximum height 1200mm
  - XL glazing and max dimensions: 1010,4 / 2300mm - 1212,4
  - / 2900 mm. Maximum height 1200mm



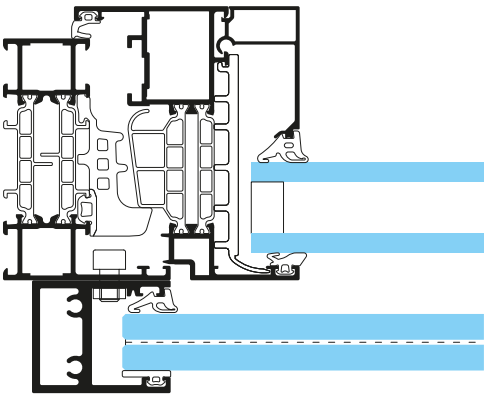
Architect: DBV Architecten
Photographer: fotovanhuffel.be



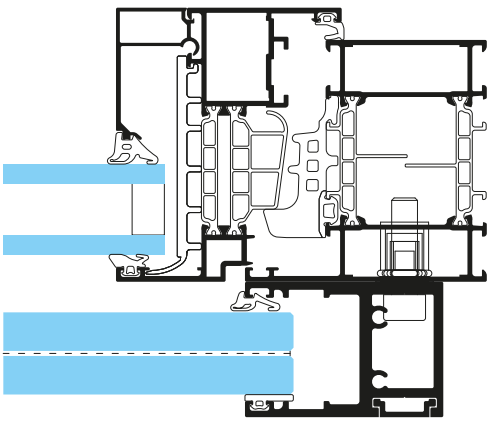
Soleal Next 65: Fixation from the inside



Soleal Next 65: fixation from the outside



Soleal Next 75: Fixation from the inside



Soleal Next 75: fixation from the outside

MORE COMFORT

↗ SOLEAL NEXT WINDOW

MAGNETIC WINDOW CONTACT

The magnetic window contact is an additional security features as it sends an alert on the user's device when the window is not properly closed.

- Easy to mount
- Integrated into the profile
- Certified for high-end security









WIRELESS WINDOW CONTACT

The wireless window detects the opening and closing state of the window.

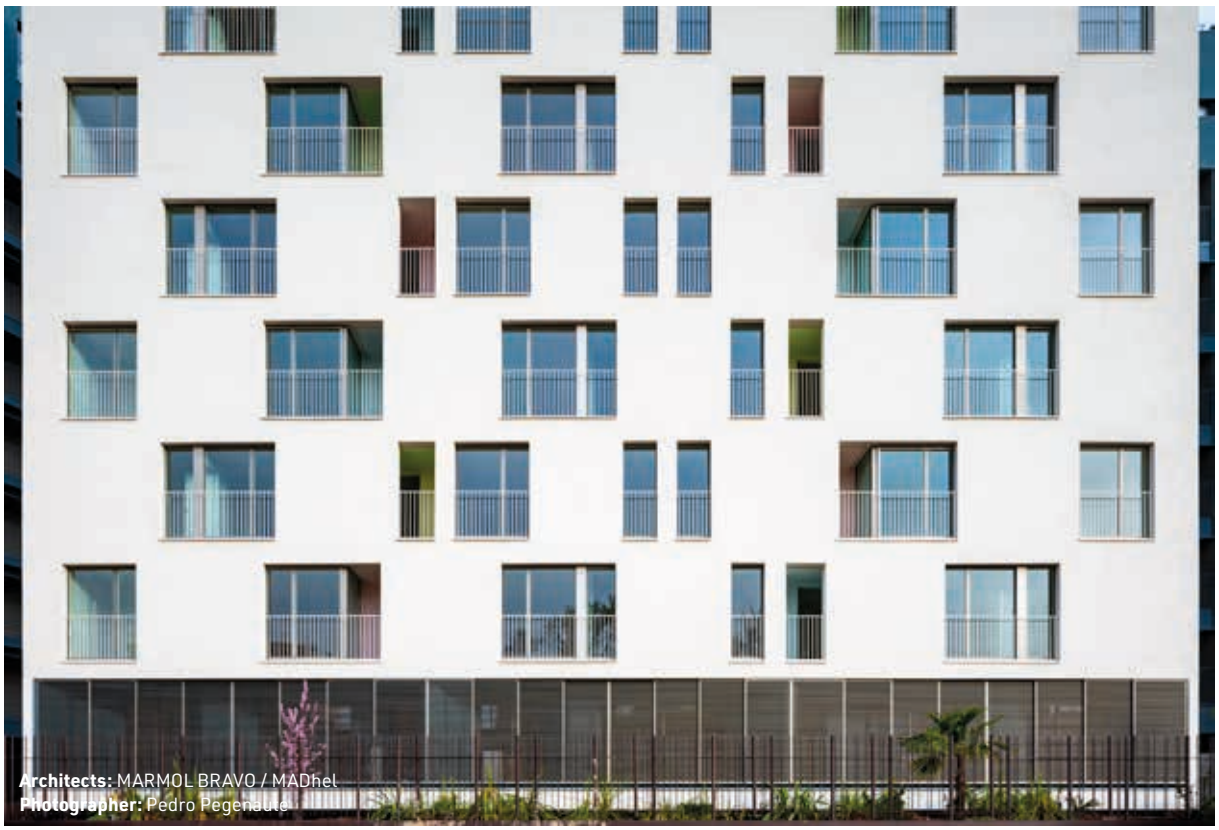
- Easy to install and pair
- Suitable for building management system: for EnOcean
- Compatible with many home automation boxes, including Tahoma box from Somfy
- HVAC management
- Designed in recyled ABS
- Energy harvesting (no battery)

MOTORISED OPENING CONTROL TO REDUCE ENERGY LOSS

Motorisation can be integrated in SOLEAL Next Minimal and Visible vent, tilt open-in, in both 65 and 75 modules.

- Simple solution, easy to install
- Concealed chain engine
- 1 or 2 chain drive depending on configuration
- High tightness performances: A4 - 900 Pa - C3
- Optional motorised window module available: provide feedback information, allows to control the motorisation in several ways and with other equipment
- Silent operation system; less than 35 dB
- Suitable for building management system : EnOcean and Modbus RTU
- 3 years guarantee





Architects: MARMOL BRAVO / MADhel
Photographer: Pedro Pegenaute

MORE SAFETY

↗ SOLEAL NEXT WINDOW

BURGLARY RESISTANCE

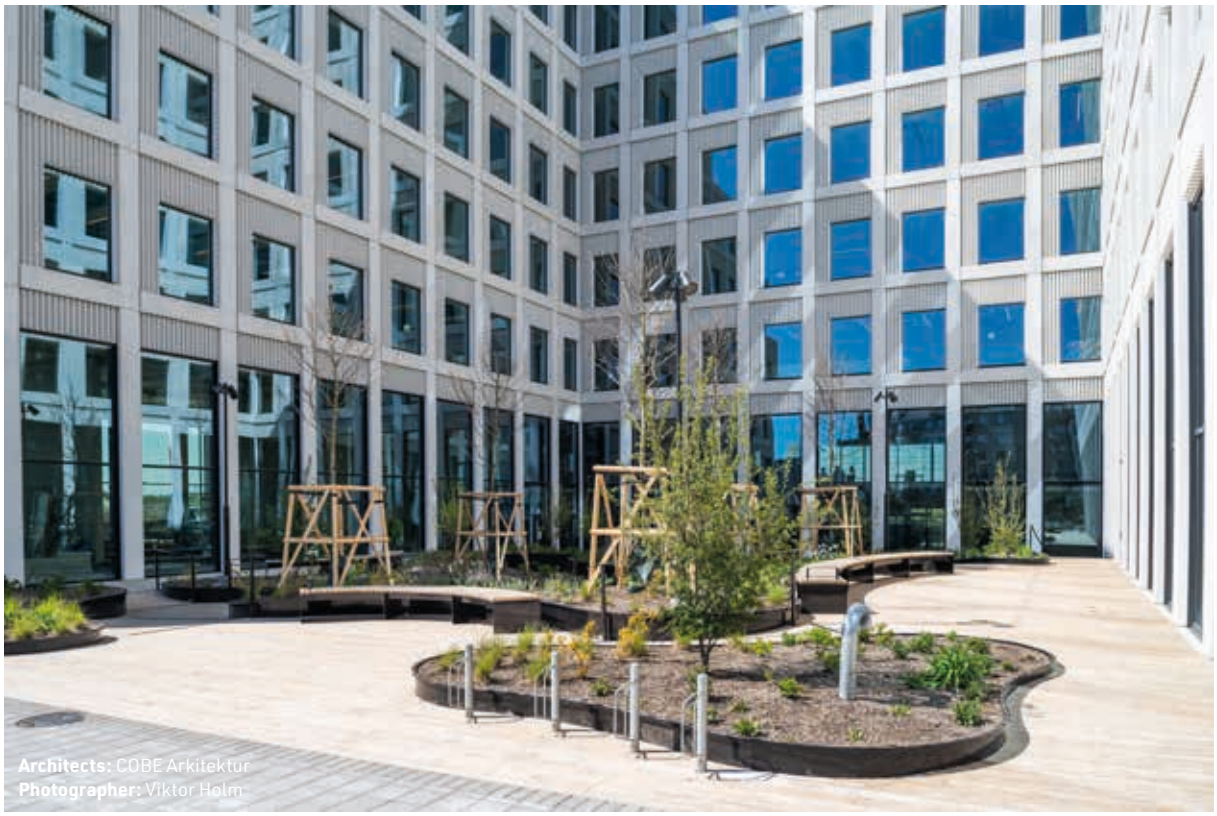
SOLEAL Next provides excellent protection against burglary, up to Resistance Class 3 (RC3) in accordance with EN-1627-30 and PAS24. It can be fitted with multi-point locks as an optional feature. Locking handles are available to increase security and reduce the risk of burglary.

APPLICATIONS

RC3 available for the following window type:
- Visible 1 vent turn and turn & tilt

RC2 available for the following window types:
- Fixed frame
- Visible and Minimal 1 vent turn
- Visible and Minimal 1 vent turn & tilt

PAS 24 available for the following window types:
- Side hung 1 vent and 2 vents and top hung friction hinges open-out
- 1 vent turn & tilt open-in, Visible and Minimal vents



Architects: COBE Arkitektur
Photographer: Viktor Holm



Architect: Anne Demians
Photographer: Jean Pierre PORCHER et Martin ARGYROGLO



LESS IMPACT

↗ IMAGINE BEYOND LIMITS

The building and construction sector represents 39% of global energy-related carbon emissions.

The carbon footprint of a building is made of two stages:
USE: "operational" emissions caused by heating, cooling... and
CONSTRUCTION: "upfront" emissions caused by materials extraction and production, delivery, waste management...

We go beyond materials to provide you with high-performance and circular products which contributes to reducing the carbon emissions caused in the **use** phase.

At the same time we go beyond products to focus on upfront emissions, to contribute to the reduction of carbon emissions during both the **production and construction** phase.



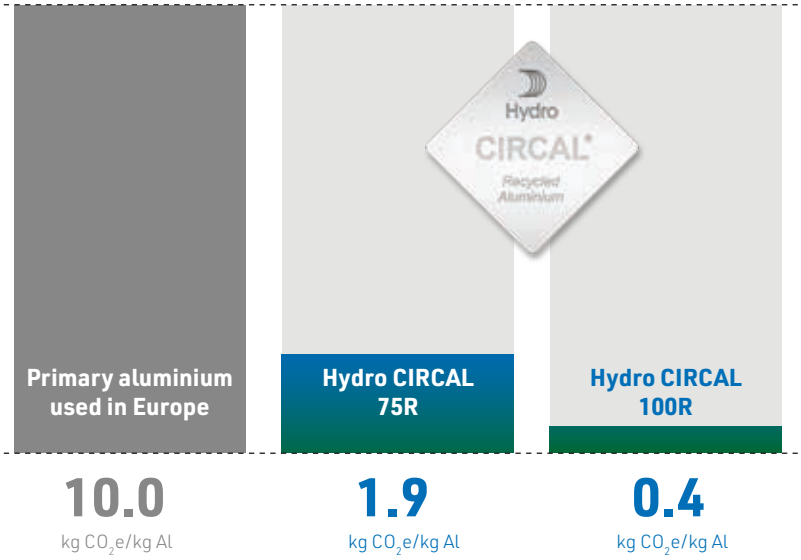
COMMITMENT AND SUSTAINABILITY

↗ DRIVING DECARBONISATION PATHWAY

TECHNAL demonstrates its strong commitment to the environment in all areas: by using recycled and low-carbon materials, with a product design that is adapted to a circular economy, and produced within a responsible supply chain. In addition, these statements are certified by external organisations to ensure maximum transparency.

HYDRO CIRCAL®

We are demonstrating our focus on sustainability by using Hydro CIRCAL® for our system solutions, one of the most sustainable aluminium alloys in our sector. Hydro CIRCAL® is a range of prime quality aluminium made with a minimum of 75% recycled end-of-life aluminium (post-consumer scrap). Hydro CIRCAL® also has **one of the smallest CO_2 footprint worldwide: 1.9 kg CO_2 per kg of aluminium** – 80% of reduction vs the European primary average.



OUR CERTIFICATIONS

SOLEAL Next Window has been certified Cradle to Cradle silver.

100% of our extrusion plants are ASI Performance Standard Certified.

Thanks to TechDesign, it's possible to generate a dynamic EPD according specified dimensions, applications any type of glazing.

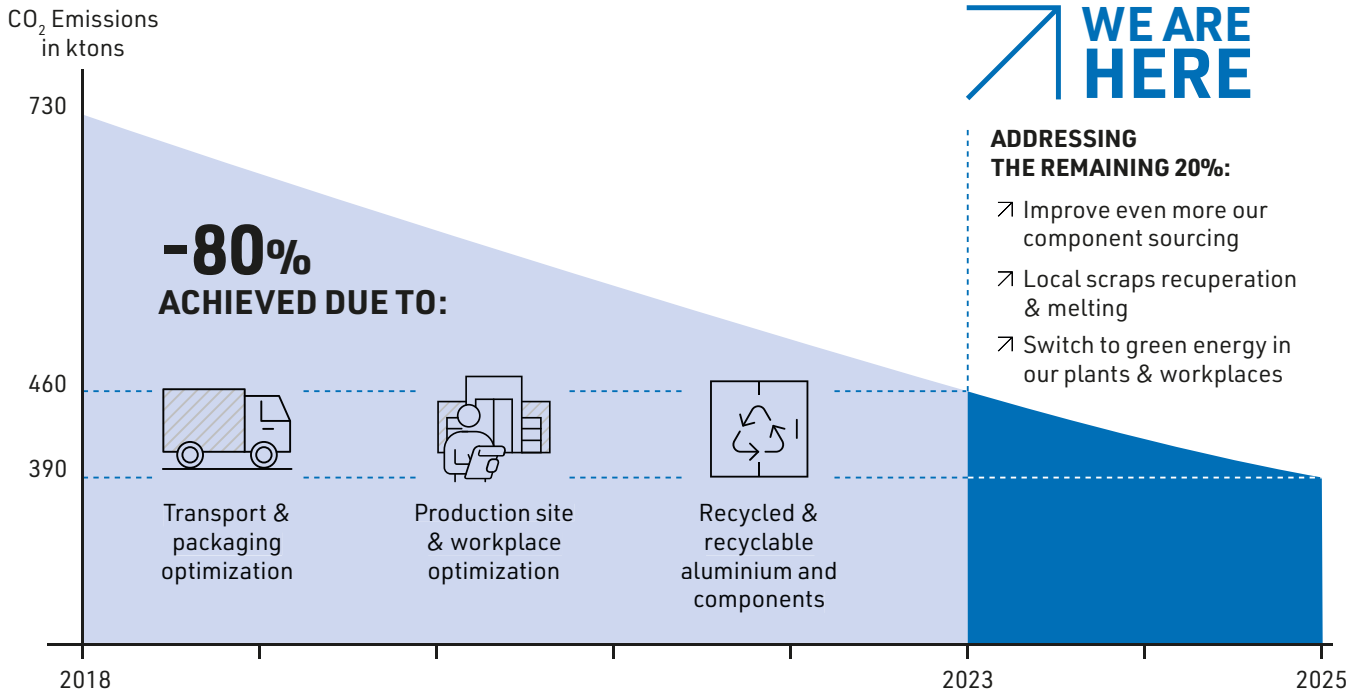


75% RECYCLED ET 95% RECYCLABLE CONTENT

Following our path to the certified circular economy, all of our systems are composed with a majority of materials and compone nts that can be infinitely recyclable, that can come from recycled raw materials, that can be recycled to have a second life or components that can also be reused.

In rough figures, we're talking about **75% recycled content and 95% recyclable content**. It's an efficient way to drastically reduce the impact of materials on the life cycle of a building. Finally, our greener approach goes a step further thanks to recycled thermal strips for 75 mm modules.

TARGET 2025 VS 2018: CO_2 COMPANY EMISSIONS DIVIDED BY 2



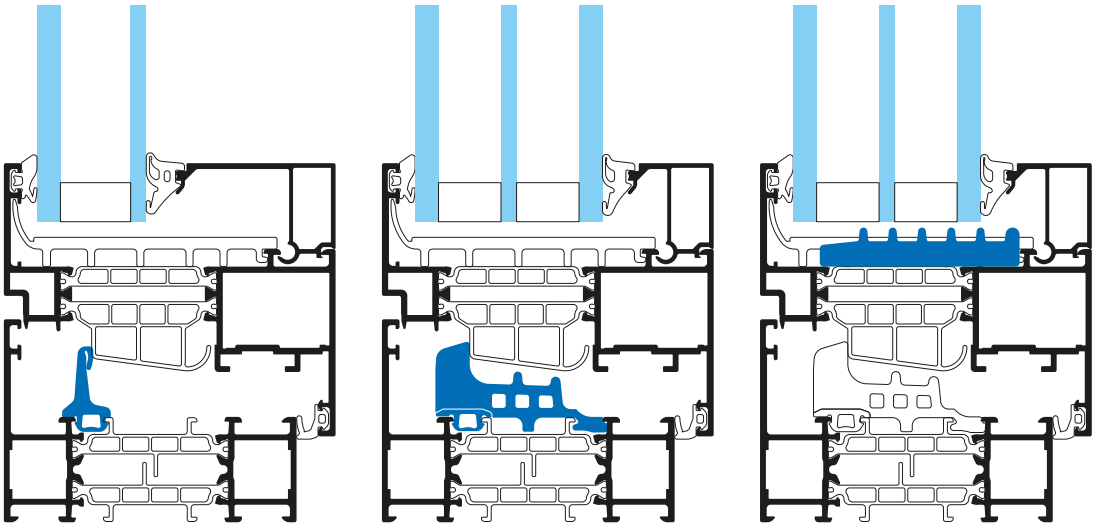
MORE PERFORMANCES

↗ SOLEAL NEXT WINDOW

Thanks to the property of our recycled aluminium, we are able to reduce the CO_2 footprint on stage A1 to A3 (raw material supply, transport and manufacturing).

SUSTAINABILITY performances (Results obtained with double glazing windows)					
Application	Dimensions L x H (mm)	Global Warming Potential /m² (kg CO_2 eq. / m²)	Global Warming Potential element (kg CO_2 eq. / m²)	Surface (m²)	Transparent area (m²)
SOLEAL Next 65 Visible	1000 x 1400	58.70	82.21	1.40	1.07
SOLEAL Next 65 Minimal	1000 x 1400	62.50	87.46	1.40	1.13
SOLEAL Next 75 Visible	1000 x 1400	53.90	75.50	1.40	1.07
SOLEAL Next 75 Minimal	1000 x 1400	58.70	82.20	1.40	1.13
SOLEAL Next 75 Open-out	1000 x 1400	57.80	80.87	1.40	1.03

Our modular design allows to cover several thermal performance levels, from hot temperature regions to the coldest parts of the world.



T-EFFICIENCY **T-PERFORMANCE** **T-PERFORMANCE +**

THERMAL PERFORMANCES - SOLEAL NEXT 65 (results obtained with «T-Performance +» version)								
Application	Dimensions W x H (mm)	U_g	1.1	1.0	1.0	0.7	0.6	0.5
		spacer	Warm Edge Swisspacer Ultimate					
		glazing	24 mm	24 mm	28 mm	36 mm	42 mm	48 mm
SOLEAL NEXT Visible Open-In 65 mm								
window, 1 vent	1230 x 1480	$U_{f\,moy}$ =	1.9 W/m².K					
		U_w =	1.4	1.3	1.3	1.1	0.98	0.90
		S_w =	0.54	0.54	0.54	0.49	0.49	0.49
		T_{Lw} =	0.37	0.37	0.37	0.35	0.35	0.35
patio window, 1 vent	1230 x 2180	$U_{f\,moy}$ =	1.9 W/m².K					
		U_w =	1.3	1.3	1.3	1.0	0.93	0.85
		S_w =	0.56	0.56	0.56	0.51	0.51	0.51
		T_{Lw} =	0.39	0.39	0.39	0.36	0.36	0.36
window, 2 vents	1530 x 1480	$U_{f\,moy}$ =	1.9 W/m².K					1.8
		U_w =	1.4	1.4	1.3	1.2	1.1	1.0
		S_w =	0.49	0.49	0.49	0.45	0.45	0.45
		T_{Lw} =	0.35	0.35	0.35	0.33	0.33	0.33
patio window, 2 vents	1530 x 2180	$U_{f\,moy}$ =	1.9 W/m².K					1.8
		U_w =	1.4	1.3	1.3	1.1	1.0	0.96
		S_w =	0.51	0.51	0.51	0.47	0.47	0.47
		T_{Lw} =	0.36	0.36	0.36	0.34	0.34	0.34
SOLEAL NEXT Minimal Open-In 65 mm								
window, 1 vent	1230 x 1480	$U_{f\,moy}$ =	2.0 W/m².K					
		U_w =	1.4	1.3	1.3	1.0	0.96	-
		S_w =	0.56	0.56	0.56	0.52	0.52	-
		T_{Lw} =	0.39	0.39	0.39	0.37	0.37	-
patio window, 1 vent	1230 x 2180	$U_{f\,moy}$ =	2.0 W/m².K					
		U_w =	1.4	1.4	1.3	1.1	1.1	-
		S_w =	0.53	0.53	0.53	0.48	0.48	-
		T_{Lw} =	0.37	0.37	0.37	0.35	0.35	-

MORE COMFORT

↗ SOLEAL NEXT WINDOW

THERMAL PERFORMANCES - SOLEAL NEXT 75 (results obtained with «T-Performance +» version)								
Application	Dimensions L x H (mm) w	U_g	1.1	1.0	1.0	0.7	0.6	0.5
		spacer	Warm Edge Swisspacer Ultimate					
		glazing	24 mm	24 mm	28 mm	36 mm	42 mm	48 mm
SOLEAL NEXT Visible Open-In 75 mm								
window, 1 vent	1230 x 1480	$U_{f\,moy}$ =	1.4 W/m².K					
		U_w =	1.3	1.2	1.2	0.96	0.87	0.79
		S_w =	0.54	0.54	0.54	0.49	0.49	0.49
		T_{Lw} =	0.37	0.37	0.37	0.35	0.35	0.35
patio window, 1 vent	1230 x 2180	$U_{f\,moy}$ =	1.4 W/m².K					
		U_w =	1.3	1.2	1.2	0.92	0.83	0.75
		S_w =	0.56	0.56	0.56	0.51	0.51	0.51
		T_{Lw} =	0.38	0.38	0.38	0.36	0.36	0.36
window, 2 vents	1530 x 1480	$U_{f\,moy}$ =	1.4 W/m².K					
		U_w =	1.3	1.3	1.2	1.0	0.94	0.86
		S_w =	0.49	0.49	0.49	0.45	0.45	0.45
		T_{Lw} =	0.34	0.34	0.34	0.32	0.32	0.32
patio window, 2 vents	1530 x 2180	$U_{f\,moy}$ =	1.4 W/m².K					
		U_w =	1.3	1.2	1.2	1.00	0.91	0.83
		S_w =	0.51	0.51	0.51	0.47	0.47	0.47
		T_{Lw} =	0.36	0.36	0.36	0.33	0.33	0.33
SOLEAL NEXT Visible Open-Out 75 mm								
window, 1 vent	1230 x 1480	$U_{f\,moy}$ =	1.5 W/m².K					
		U_w =	1.3	1.2	1.2	0.99	0.91	0.83
		S_w =	0.52	0.52	0.52	0.47	0.47	0.47
		T_{Lw} =	0.36	0.36	0.36	0.34	0.34	0.34
patio window, 1 vent	1230 x 2180	$U_{f\,moy}$ =	1.5 W/m².K					
		U_w =	1.3	1.2	1.2	0.96	0.87	0.79
		S_w =	0.54	0.54	0.54	0.50	0.50	0.50
		T_{Lw} =	0.37	0.37	0.37	0.35	0.35	0.35
window, 2 vents	1530 x 1480	$U_{f\,moy}$ =	1.5 W/m².K					
		U_w =	1.3	1.3	1.3	1.1	0.99	0.91
		S_w =	0.47	0.47	0.47	0.43	0.43	0.43
		T_{Lw} =	0.33	0.33	0.33	0.31	0.31	0.31

THERMAL PERFORMANCES - SOLEAL NEXT 75 (results obtained with «T-Performance +» version)								
Application	Dimensions L x H (mm)	U_g	1.1	1.0	1.0	0.7	0.6	0.5
		spacer	Warm Edge Swisspacer Ultimate					
		glazing	24 mm	24 mm	28 mm	36 mm	42 mm	48 mm
SOLEAL NEXT Minimal Open-In 75 mm								
window, 1 vent	1230 x 1480	$U_{f\,moy}$ =	1.6 W/m².K			1.5 W/m².K		
		U_w =	1.3	1.2	1.2	0.96	0.87	0.78
		S_w =	0.56	0.56	0.56	0.52	0.52	0.52
		T_{Lw} =	0.39	0.39	0.39	0.36	0.36	0.36
patio window, 1 vent	1230 x 2180	$U_{f\,moy}$ =	1.6 W/m².K			1.5 W/m².K		
		U_w =	1.2	1.2	1.2	0.92	0.83	0.74
		S_w =	0.58	0.58	0.58	0.53	0.53	0.53
		T_{Lw} =	0.40	0.40	0.40	0.37	0.37	0.37
window, 2 vents	1530 x 1480	$U_{f\,moy}$ =	1.6 W/m².K			1.5 W/m².K		
		U_w =	1.3	1.2	1.2	1.0	0.94	0.85
		S_w =	0.53	0.53	0.53	0.48	0.48	0.48
		T_{Lw} =	0.37	0.37	0.37	0.34	0.34	0.34
patio window, 2 vents	1530 x 2180	$U_{f\,moy}$ =	1.6 W/m².K			1.5 W/m².K		
		U_w =	1.3	1.2	1.2	1.00	0.91	0.82
		S_w =	0.55	0.55	0.55	0.50	0.50	0.50
		T_{Lw} =	0.38	0.38	0.38	0.35	0.35	0.35

MORE COMFORT

↗ SOLEAL NEXT WINDOW

WEATHER PERFORMANCES - SOLEAL NEXT 65				
Application	W x H (mm)	Air tightness	Water tightness	Wind resistance
Visible Open-In, 1 vent turn&tilt	1394 x 3044	A4	1500	C5
Visible Open-In, 1 vent turn&tilt	1500 x 1700	A4	1500	C5
Visible Open-In, 1 vent turn&tilt	1500 x 2300	A4	1500	C5
Visible Open-in, 2 vents turn&tilt	2000 x 2300	A4	9A	C5
Minimal Open-In, 1 vent turn&tilt	1500 x 1700	A4	1050	C5
Minimal Open-In, 1 vent turn&tilt	1200 x 2300	A4	1050	C5
Minimal Open-In, 2 vent turn&tilt	1700 x 2300	A4	9A	C2
Motorization 1 chain drive, 1 vent tilt	1290 x 990	A4	9A	C3
Motorization 2 chain drives, 1 vent tilt	2490 x 890	A4	900	C3
Residential door Open-In 65 mm, 1 vent	1200 x 2300	A3	3A	C2

WEATHER PERFORMANCES - SOLEAL NEXT 75				
Application	W x H (mm)	Air tightness	Water tightness	Wind resistance
Visible Open-In, 1 vent turn&tilt	1500 x 1700	A4	1500	C5
Visible Open-In, 2 vents, turn&tilt	2000 x 2300	A4	9A	C2
Visible Open-Out, 1 vent side-hung	884 x 1844	A4	1500	C5
Visible Open-Out, 2 vents side-hung	1730 x 1844	A4	1350	C5
Visible Open-Out, top-hung, friction stay	1844 x 1844	A4	1800	C5
Minimal Open-In, 1 vent turn&tilt	1500 x 1700	A4	1050	C5
Motorization 1 chain drive, 1 vent tilt	1290 x 990	A4	9A	C3
Motorization 2 chain drives, 1 vent tilt	2490 x 890	A4	900	C3
Residential door open-out, 1 vent	1200 x 2300	A3	3A	C2

ACOUSTIC PERFORMANCES - SOLEAL NEXT 65							
L x H (mm)	Glazing composition	Glazing			Window		
		Rw	RA	RA,tr	Rw	RA	RA,tr
Visible, 1 vent turn&tilt							
1230 x 1480	4/16/6	36	35	31	36	34	31
	44.2/20/66.2	49	47	43	45	44	40
	88.2Ac/20/66.2Ac	52	51	47	47	46	44
Visible, 2 vents turn&tilt							
1450 x 2180	4/16/6	36	35	31	35	34	30
	44.2/20/66.2	49	47	43	45	44	40
	88.2Ac/20/66.2Ac	52	51	47	46	45	42
Minimal, 1 vent turn&tilt							
1230 x 1480	4/16/6	45	44	40	44	43	39
	44.2/20/66.2	36	35	31	35	34	32
	88.2Ac/20/66.2Ac	49	47	43	46	45	41

ACOUSTIC PERFORMANCES - SOLEAL NEXT 75							
L x H (mm)	Glazing composition	Glazing			Window		
		Rw	RA	RA,tr	Rw	RA	RA,tr
Visible, 1 vent turn&tilt							
1230 x 1480	4/16/6	36	35	31	36	34	31
	44.2/20/66.2	49	47	43	47	46	42
	88.2Ac/20/66.2Ac	52	51	47	48	47	45
Visible, Residential door							
1450 x 2180	4/16/6	36	35	31	35	33	30
	44.2/20/66.2	49	47	43	47	45	41
	88.2Ac/20/66.2Ac	52	51	47	47	45	42
Visible, 2 vents turn&tilt							
1230 x 1480	4/16/6	36	35	31	36	34	30
	10/16/66.2Ac	45	44	40	44	42	38
	44.2Ac/20/66.2Ac	49	47	43	46	44	40
Minimal, 1 vent turn&tilt							
1230 x 1480	10/16/66.2Ac	45	44	40	44	43	40
	66.2Ac/12/6/12/44.2Ac	49	47	43	47	46	42
	88.2Ac/20/66.2Ac	52	51	47	48	47	45

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