

SOLEAL NEXT

THE UNIVERSAL DOOR



Architects: Julie Fabre et Mathieu De Marien (FABRE/de MARIEN Architectes)
Photographer: Stephane Chalmeau

By  Hydro



SOLEAL NEXT

/ THE UNIVERSAL DOOR

DOOR BEYOND LIMITS FOR THE ARCHITECTURAL CREATIVITY

MORE POSSIBILITIES

The SOLEAL Next door was created with a view to offering architects an extensive range of solutions to cover the different needs on level of safety, comfort and building management.

SOLEAL Next door is available in many applications: stand-alone or with fixed field, glazed or with overlapping panel, push pull, single or double action, façade integrated, hinged or pivoting, low or barrier free threshold.

SOLEAL Next offers effective thermal, acoustic and weather performances, complying to highest international standards.

SOLEAL Next includes safety features such as anti-finger-trap, panic escape route, burglary and bullet resistance as well as smoke and fire protection.

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

LESS IMPACT

Using the UN Sustainability Goals as our compass, we aim to reduce by half our CO₂ emissions by 2025 and commit to contribute to quality education and capacity building for 500,000 people in our communities and for business partners from 2018 until the end of 2030.

Using Hydro CIRCAL[®], an alloy made with a minimum of 75% recycled end-of-life aluminium, allows tons of scrap that would otherwise become solid waste to be reintroduced into the system. SOLEAL Next's thermal break elements are made from recycled material on 75 series.

SOLEAL Next is under certification to obtain Cradle to Cradle label. The specific characteristics contribute to constructing sustainable buildings that are eligible to be awarded to the main building environmental certifications.

SOLEAL NEXT 65 & 75 DOOR

/ MORE POSSIBILITIES, LESS IMPACT



SOLEAL NEXT 75 Flush Open-Out



KEY FEATURES AND INNOVATIONS

MORE DESIGN

- Concealed hinges
- EXCLUSIVE® handle collection
- EXCLUSIVE® colour pallet

LARGE DIMENSIONS

- Modules: 65 and 75 mm
- Height: up to 3 meters
- Glazing thickness: up to 49 mm (module 65) or 59 mm (module 75)
- Infill weight: up to 200 kg

MORE APPLICATIONS

- Multiple opening options:
 - Open-in and open-out, 1-leaf or 2-leaves
 - Single action, with or without fixed field
 - Double action, with or without fixed field
 - Push-pull
 - Vent overlapping panel
 - Simultaneous door
 - Automatic sliding door
- Facade integration
- Compatible with TENTAL facade, and SOLEAL Next window ranges.

MORE SAFETY & ACCESSIBILITY

- Finger protection
- Burglary and bullet resistance
- Emergency exit
- Anti-bacterial nano-coating on handles
- Barrier free and low threshold
- Mechatronics insertion (technical mullion)

MORE PERFORMANCES

- Endurance test for heavy traffic – up to 2.000.000 cycles
- Acoustic insulation up to 43 dB
- Weather and thermal performances complying to highest international standards

MORE SUSTAINABILITY

- SOLEAL Next is made in Hydro CIRCAL®, aluminium made with a minimum of 75% recycled end-of-life aluminium.
- PVC-free components
- Cradle to Cradle®: under certification
- Dynamic EPD available on TechDesign
- 75% recycled and 95% recyclable

SOFTWARE

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

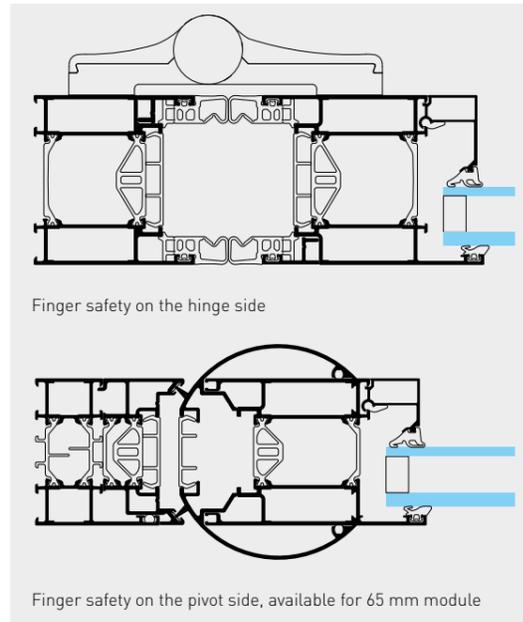
SOLEAL NEXT 65 & 75

/ MORE SAFETY

FINGER SAFETY

Finger entrapment in doors can result in serious injuries. Preventing such injuries is therefore important, especially in educational and healthcare buildings.

SOLEAL Next door offers optional finger safety solution on several types of hinged and pivot doors.



MOTORIZED LOCK FOR ACCESS CONTROL

The motorized locks can easily be combined with all kind of activators for proximate or remote access control: fingerprint sensor, badge reader, internet of Things (IoT), etc...

EMERGENCY EXIT

In panic situations, the safety and evacuation are the main concern. SOLEAL Next door systems offer a comprehensive range of applications, which can also be combined with other functions and design options.

- Anti panic locks, handles and push bars
- Emergency exits according to EN 179 for buildings to which the general public does not have access
- Panic door exit according to EN 1125 for public buildings like schools, hospitals, shopping malls etc...



BURGLARY AND BULLET RESISTANCE

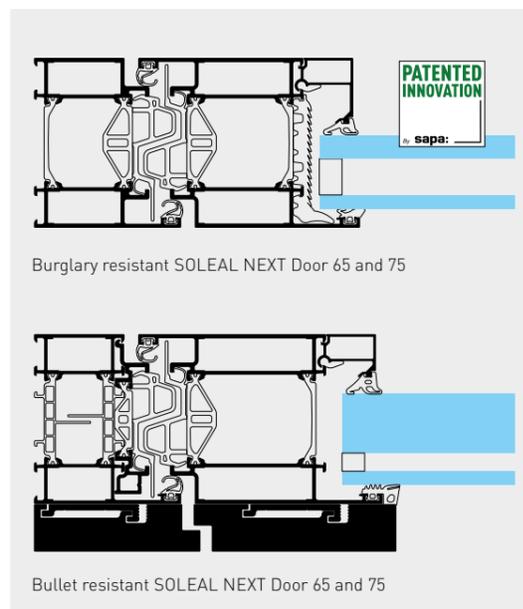
Building protection can be accomplished with SOLEAL Next door solution. It can provide both burglar and bullet resistance, in combination with other additional functions. The various levels of resistance classes can be achieved without altering the architectural lines.

Burglary resistance

- Available on most applications
- Resistance levels: RC1, RC2, RC3 and PAS24

Bullet resistance

- Bullet resistant door offer for open-in and open-out single hinged doors
- Resistance level: FB4 NS



Architect: Planforum Arkitekter
Photographer: Hundven-Clements Photography

SOLEAL NEXT 75 DOOR

/ MORE POSSIBILITIES, LESS IMPACT



SOLEAL NEXT 75 Flush Open-Out



KEY FEATURES AND INNOVATIONS

MORE DESIGN

- Concealed hinges
- EXCLUSIVE® handle collection
- EXCLUSIVE® colour pallet

LARGE DIMENSIONS

- Module: 75 mm
- Height: up to 3 meters
- Glazing thickness: up to 59 mm
- Infill weight: up to 200 kg

MORE APPLICATIONS

- Multiple opening options:
 - Open-in and open-out, 1-leaf or 2-leaves
 - Single action, with or without fixed field
 - Double action, with or without fixed field
 - Push-pull
 - Vent overlapping panel
- Facade integration
- Compatible with TENTAL facade, and SOLEAL Next window ranges

MORE SAFETY & ACCESIBILITY

- Finger protection
- Burglary and bullet resistance
- Emergency exit
- Anti-bacterial nano-coating on handles
- Barrier free and low threshold
- Mechatronics insertion (technical mullion)

MORE PERFORMANCES

- Endurance test for heavy traffic – up to 2.000.000 cycles
- Acoustic insulation up to 43 dB
- Weather tightness and thermal performances complying to highest international standards

MORE SUSTAINABILITY

- SOLEAL Next is made in Hydro CIRCAL®, aluminium made with a minimum of 75% recycled end-of-life aluminium.
- PVC-free components
- Cradle to Cradle®: under certification
- Dynamic EPD available on TechDesign
- 75% recycled and 95% recyclable

SOFTWARE

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- BIM: available in Tech3D, Archicad and REVIT

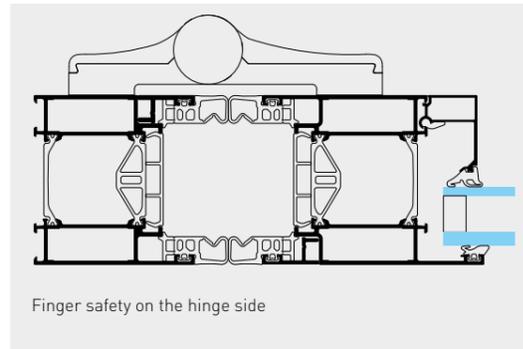
SOLEAL NEXT 75

/ MORE SAFETY

FINGER SAFETY

Finger entrapment in doors can result in serious injuries. Preventing such injuries is therefore important, especially in educational and healthcare buildings.

SOLEAL Next door offers optional finger safety solution on several types of hinged and pivot doors.



Finger safety on the hinge side

MOTORIZED LOCK FOR ACCESS CONTROL

The motorized locks can easily be combined with all kind of activators for proximate or remote access control: fingerprint sensor, badge reader, internet of Things (IoT), etc...

EMERGENCY EXIT

In panic situations, the safety and evacuation are the main concern. SOLEAL Next door systems offer a comprehensive range of applications, which can also be combined with other functions and design options.

- Anti panic locks, handles and push bars
- Emergency exits according to EN 179 for buildings to which the general public does not have access
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BURGLARY AND BULLET RESISTANCE

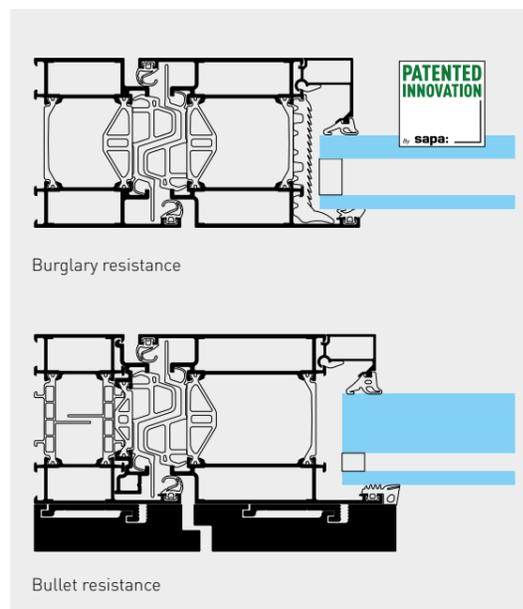
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burglary resistance

- Available on most applications
- Resistance levels: RC1, RC2, RC3 and PAS24

bullet resistance

- Bullet resistant door offer for open-in and open-out single hinged doors
- Resistance level: FB4 NS



Burglary resistance

Bullet resistance



Architect: Planforum Arkitekter
Photographer: Hundven-Clements Photography

SOLEAL NEXT 65 DOOR

/ MORE POSSIBILITIES, LESS IMPACT



SOLEAL NEXT 65 Flush Open-Out



KEY FEATURES AND INNOVATIONS

MORE DESIGN

- Concealed hinges
- EXCLUSIVE® handle collection
- EXCLUSIVE® colour pallet

LARGE DIMENSIONS

- Modules: 65 mm
- Height: up to 3 meters
- Glazing thickness: up to 49 mm
- Infill weight: up to 200 kg

MORE APPLICATIONS

- Multiple opening options:
 - Open-in and open-out, 1-leaf or 2-leaves
 - Single action, with or without fixed field
 - Double action, with or without fixed field
 - Push-pull
 - Simultaneous door
 - Automatic sliding door
- Facade integration
- Reinforced version for high traffic applications
- Compatible with TENTAL facade, and SOLEAL Next window ranges

MORE SAFETY & ACCESIBILITY

- Finger protection
- Burglary and bullet resistance
- Emergency exit
- Anti-bacterial nano-coating on handles
- Multiple, high performing, low threshold solutions
- Mechatronics insertion (technical mullion)

MORE PERFORMANCES

- Endurance test for heavy traffic – up to 1.000.000 cycles
- Acoustic insulation up to 43 dB
- Weather tightness and thermal performances complying to highest international standards

MORE SUSTAINABILITY

- SOLEAL Next is made in Hydro CIRCAL®, aluminium made with a minimum of 75% recycled end-of-life aluminium.
- PVC-free components
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SOFTWARE

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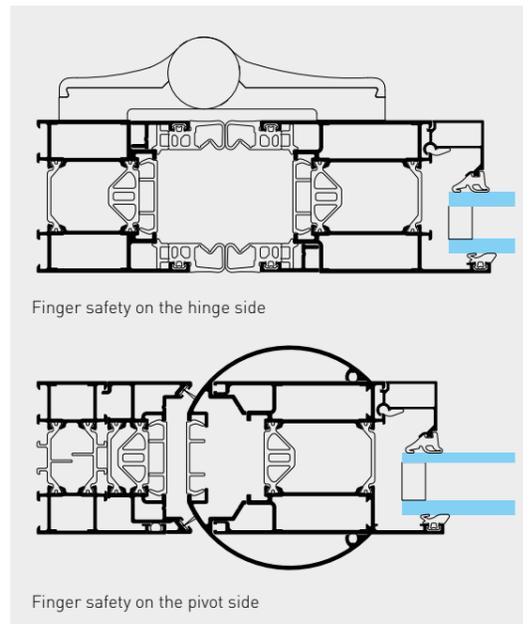
SOLEAL NEXT 65

/ MORE SAFETY

FINGER SAFETY

Finger entrapment in doors can result in serious injuries. Preventing such injuries is therefore important, especially in educational and healthcare buildings.

SOLEAL Next door offers optional finger safety solution on several types of hinged and pivot doors.



BURGLARY AND BULLET RESISTANCE

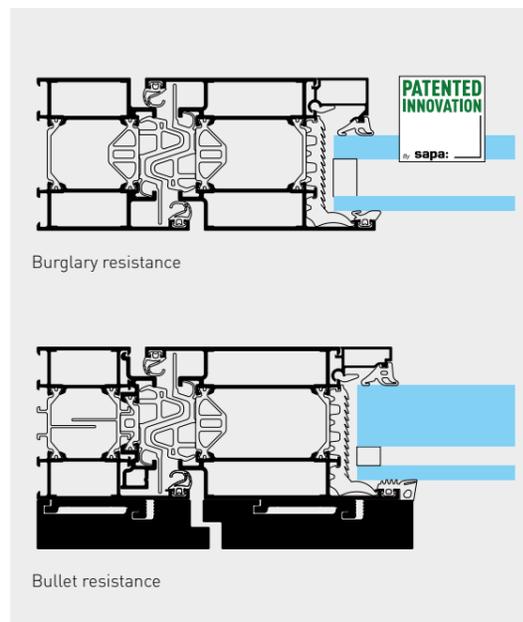
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Architect: Planforum Arkitekter
Photographer: Hundven-Clements Photography

SOLEAL NEXT 65N D00R

/ MORE POSSIBILITIES, LESS IMPACT



SOLEAL NEXT 65N Flush Open-Out



KEY FEATURES AND INNOVATIONS

MORE DESIGN

- Concealed hinges
- EXCLUSIVE® handle collection
- EXCLUSIVE® colour pallet

LARGE DIMENSIONS

- Modules: 65 mm non thermal break
- Height: up to 3 meters
- Glazing thickness: up to 49 mm
- Infill weight: up to 200 kg

MORE APPLICATIONS

- Multiple opening options:
 - Open-in and open-out, 1-leaf or 2-leaves
 - Single action, with or without fixed field
 - Double action, with or without fixed field
 - Push-pull
 - Simultaneous door
 - Automatic sliding door
- Facade integration
- Reinforced version for high traffic applications
- Compatible with TENTAL facade, and SOLEAL Next window ranges

MORE SAFETY & ACCESIBILITY

- Finger protection
- Fire resistance EW 30 and smoke resistance S_a and S_{200}
- Emergency exit
- Anti-bacterial nano-coating on handles
- Multiple, high performing, low threshold solutions
- Burglar resistant RC2 & RC3
- Mechatronics insertion (technical mullion)

MORE PERFORMANCES

- Endurance test for heavy traffic – up to 1.000.000 cycles
- Acoustic insulation up to 44 dB
- Weather tightness complying to highest international standards

MORE SUSTAINABILITY

- SOLEAL Next is made in Hydro CIRCAL®, aluminium made with a minimum of 75% recycled end-of-life aluminium.
- PVC-free components
- Cradle to Cradle®: under certification
- Dynamic EPD available on TechDesign
- 75% recycled and 95% recyclable

SOFTWARE

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

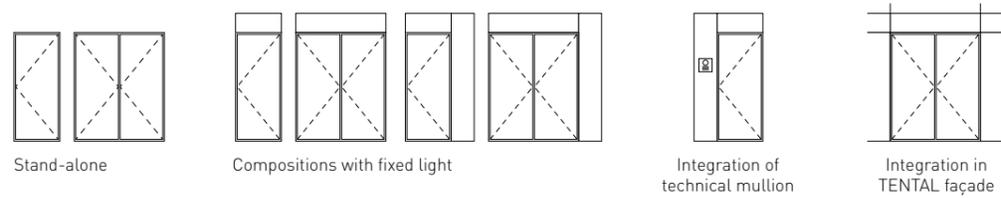
SOLEAL NEXT DOOR

/ MORE APPLICATIONS

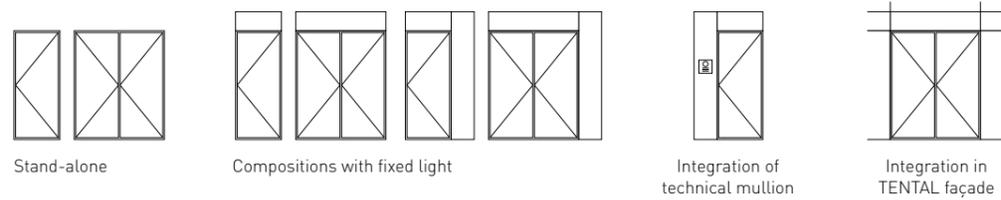
The SOLEAL Next door is available in 75 mm, 65 mm and 65 mm non thermal break. Its modularity allows a wide choice of applications.



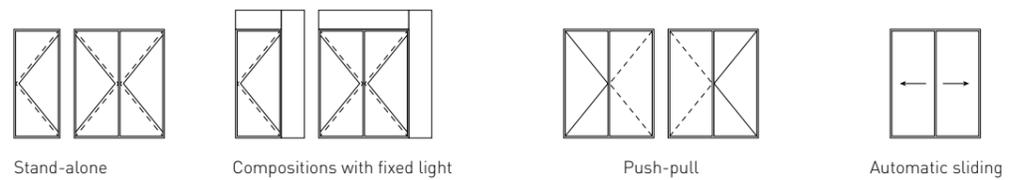
Open-in Single Action



Open-out Single Action



Double Action



Architect: OECO Architectes
 Photographer: Kevin Dolmaire

SOLEAL NEXT DOOR

/ MORE ACCESSIBILITY

DISABLED ACCESS THRESHOLDS

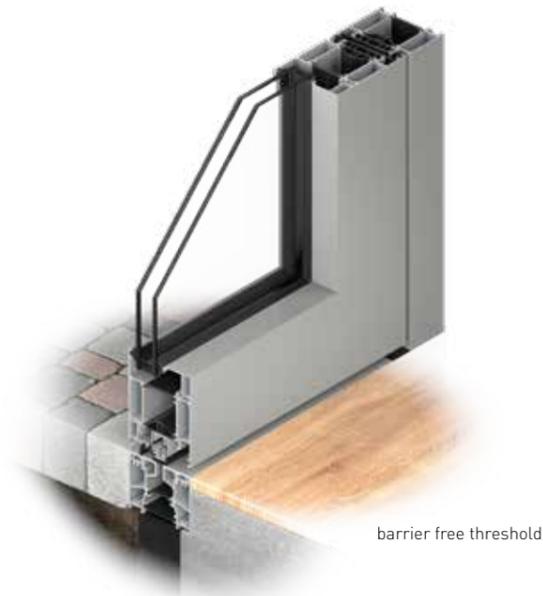
The disabled access threshold for the SOLEAL NEXT door complies with regulations for accessibility, while maintaining high weather performance.

Low threshold

- available for all modules
- as low as 19 mm

Barrier free threshold

- Available only on 75 mm
- Slick lines for minimalistic architectural design
- No obstacle to the door passage
- Superior technical performance
- Thermal insulation in line with new standards



ELECTRO-MAGNETIC LOCK

- Integrated in the continuous hand-grip
- Flexibility in access control



TECHNICAL MULLION

- Integration of all kind of access control systems (camera's etc.)
- Easy access for maintenance from the inside
- Can be combined with a wide diversity of window frames & transoms



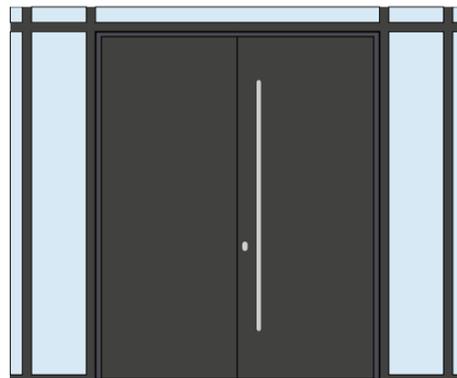
Photographer: Adrian Toon

SOLEAL NEXT DOOR

/ MORE DESIGN

CONCEALED HINGES

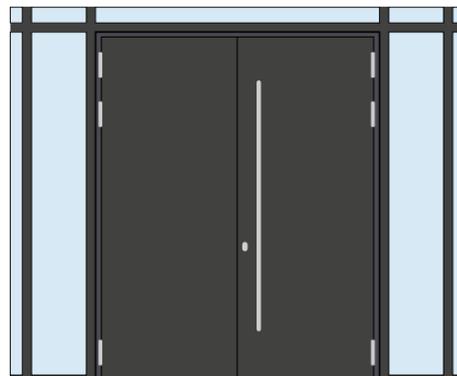
- Combining pure elegance with high durability
- An invisible eye-catcher
- No coated or anodized part for reduced supply lead time



VISIBLE HINGES

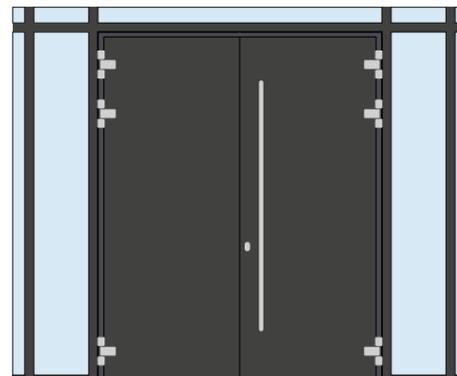
Butt hinges

- Best compromise between design and functionality
- Anodised or powder-coated, to match or contrast with the doors



Build on hinges

- Supports large vent dimensions and weights
- Anodised or powder-coated, to match or contrast with the doors



EXCLUSIVE® HANDLES COLLECTION

The discreet but effective design approach for our new EXCLUSIVE® range - SELECTION, TEMPTATION & PASSION - aims to allow users to customise their handles, creating a sophisticated but timeless and functional visual signature on SOLEAL Next doors. Our handles offer a wide choice of colour, noble materials and clean lines.

Selection

True to our practical approach to design, this range of handles draws attention with its understated and elegant lines. A strong visual identity with simple and graphic geometric shapes, round with an ergonomic design to the touch that modernises the current offer. Proven quality, with anodised or coated finishes for each handle, not to mention the new black anodised finish that adds an extra level of sophistication.



Temptation

This range builds on our 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.



Passion

Taking design to new heights, the passion range is a new expression in luxury fittings, with exclusive mixes of finishes and materials aimed at pleasing even the most demanding users. Making use of simple geometric shapes, this collection works as the perfect complement to a wide range of architectural aesthetics.



SOLEAL NEXT DOOR

/ MORE COLOURS



SAPA RELEASES THE COLOURS FOR A LIVING ARCHITECTURE

Ever faithful to its creative and architectural logic, SAPA 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 is also available in lacquered finishes with the colour range EXCLUSIVE® for a stylish and contemporary look.

EXCLUSIVE / 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.



EXCLUSIVE / 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.



SOLEAL NEXT DOOR

/ COMMITMENT AND SUSTAINABILITY

SAPA 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). The production process is verified by an independent third party (DNV-GL), and confirmed by an EPD (Environmental Product Declaration). Hydro CIRCAL® also has **one of the smallest CO₂ footprint worldwide: 2.3 kg CO₂ per kilo of aluminium** – 4.5 times less than the world global primary average.

RECYCLED & RECYCLABLE

Following our path to the certified circular economy, all of our systems are composed with a majority of materials and components 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.

75% RECYCLED POST CONSUMER

Hydro CIRCAL® is the world's first certified recycled aluminium which means that at least 75% of the prime-quality aluminium alloy comes from post-consumer materials.

95% ENERGY SAVED

By recycling post-consumer scrap aluminium, the remelting process saves up to 95% of energy that would normally be spent and maintain the same high quality as primary aluminium.

85% REDUCTION OF CO₂ EMISSIONS

The consequence of using Hydro CIRCAL® is the drastic reduction in CO₂ emissions which sums more than 85% when compared with the global average for primary aluminium production.

SOLEAL NEXT

75% RECYCLED
95% RECYCLABLE



SOLEAL NEXT DOOR

/ CERTIFICATIONS



CRADLE TO CRADLE (C2C) CERTIFICATION

From its design to the selection of materials and how it is manufactured, the product must offer the level of performance required by the market by reducing, to the greatest extent possible, environmental impacts such as energy consumption or greenhouse gas emissions. We classify our range under the criteria of the Cradle to Cradle seal, an independent institute that certifies products and processes from a circular economy perspective. We have numerous Cradle to Cradle certified series, including the manufacturing in our plants. In this way, we are able to ensure that the carbon footprint of transporting our products is as low as possible.

Our range is under certification.



ALUMINIUM STEWARD INITIATIVE (ASI)

ASI is a multi-stakeholder, non-profit, standards-setting and certification organisation. It is the most internationally recognised standard, which addresses the environmental, social and governance (ESG) aspects of the entire aluminium value chain. The assessment is based around the sustainable production of aluminium, from bauxite or mining to the production of semi-fabricated products, taking into account the recycling of pre- and post-consumer scrap. Hydro was one of the first companies, that received this recognition, in accordance with its commitment to a more sustainable future.

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



ENVIRONMENTAL PRODUCT DECLARATION

An Environmental Product Declaration (EPD) is an independently third party-verified document that communicates precise, transparent and comparable information about the life-cycle environmental impacts of a product. But it is not only limited to products, such as a window, but can also be applied to materials (an aluminium billet), assembly parts of products or even for services (like maintenance). This document is used for many different applications, e.g. public procurement or green building rating schemes (i.e. BREEAM, LEED, DGNB).

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

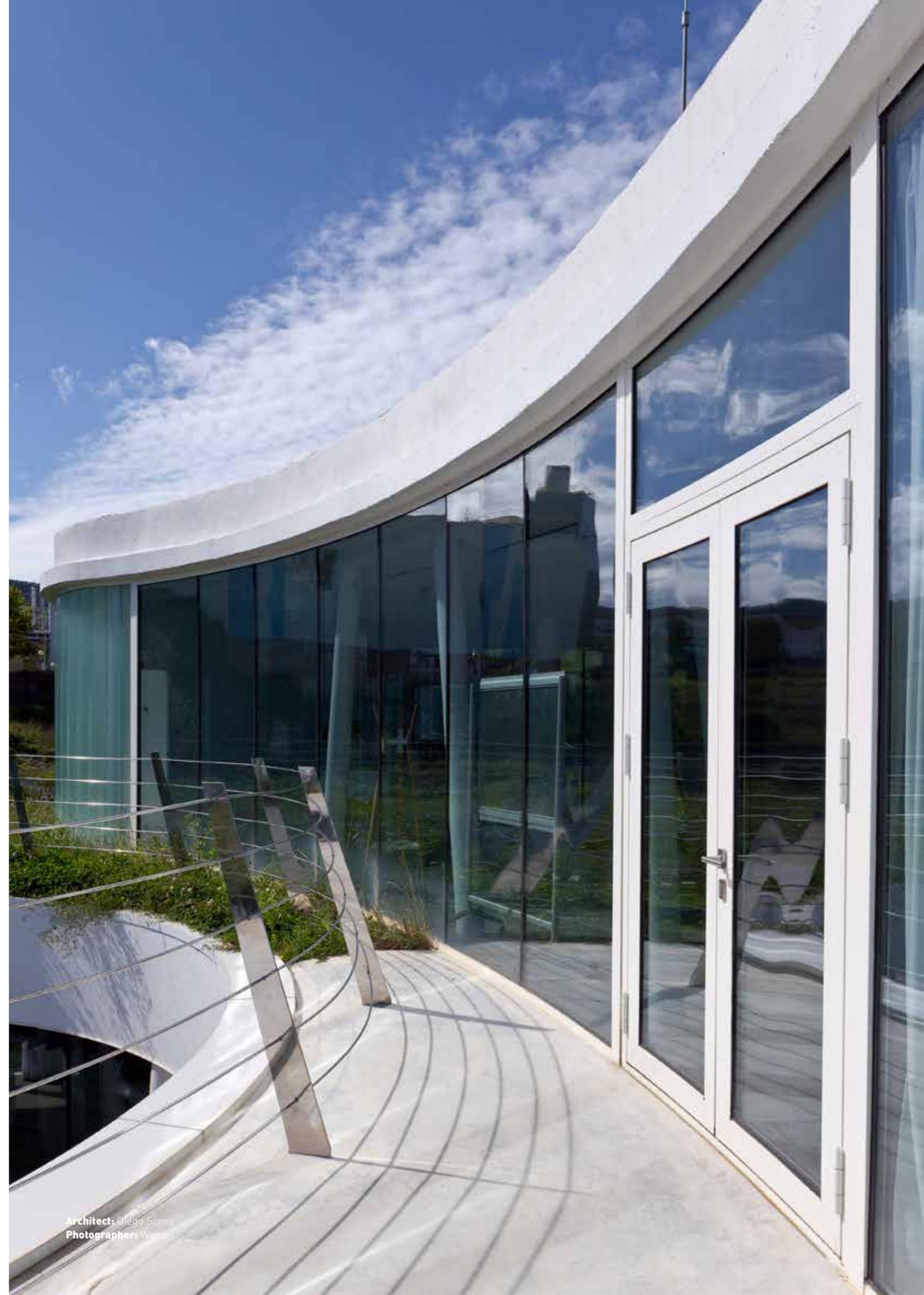


Architect: OECO Architectes
Photographer: Kevin Dolmaire

PERFORMANCES

WEATHER PERFORMANCES				
Configuration	W x H (mm)	Air permeability	Water tightness	Wind resistance
1-leaf door open out, low threshold	1390 x 2400	Class 4	Class 6A	Class C2
1-leaf door open in, barrier free threshold	1500 x 2640	Class 2	Class 5A	Class C2/B2

THERMAL PERFORMANCES - U_D				
Configuration	W x H (mm)	with $U_g = 1.0$ (double glazing $\Psi = 0.036$)	with $U_g = 0.7$ (triple glazing $\Psi = 0.031$)	with $U_g = 0.5$ (triple glazing $\Psi = 0.031$)
1-leaf open in, low threshold, glazed	1230 x 2180	1.3 W/m ² K	1.1 W/m ² K	0.96 W/m ² K
1-leaf open in, low threshold, glazed	1500 x 2640	1.3 W/m ² K	1.0 W/m ² K	0.89 W/m ² K



sapa:

IMAGINE WHAT'S NEXT

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