LIGHT IS MORE :
PURE TRANSPARENCY
PANORAMIC LIVING



Architect: Robert Konieczny
Photography: Leszek Ogrodnik

ARTLINE
The Panoramic Slider

TECHNAL®

By Hydro

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



Architect: Daniel Isern
Photographer: Adrià Goula

ARTLINE

↗ THE PANORAMIC SLIDER

THE SLIDER WITH A MINIMALIST, FRAMELESS DESIGN THAT BRING LIGHTNESS,COMFORT, AND A SEAMLESS CONNECTION BETWEEN INDOORS AND OUTDOORS.

MINIMAL DESIGN

Elegantly bringing the outdoors inside, ARTLINE window aims at providing quality, lightness and comfort.

ARTLINE's creative and contemporary design has an architectural effect on the building. The spaces' architectural features were taken into consideration during the ARTLINE's conception, resulting in a feeling of extreme simplicity, lightness and frameless windows.

ARTLINE's sophisticated minimalist design creates a light and fluid appearance, even for large fixed and openable windows.

MULTI APPLICATION

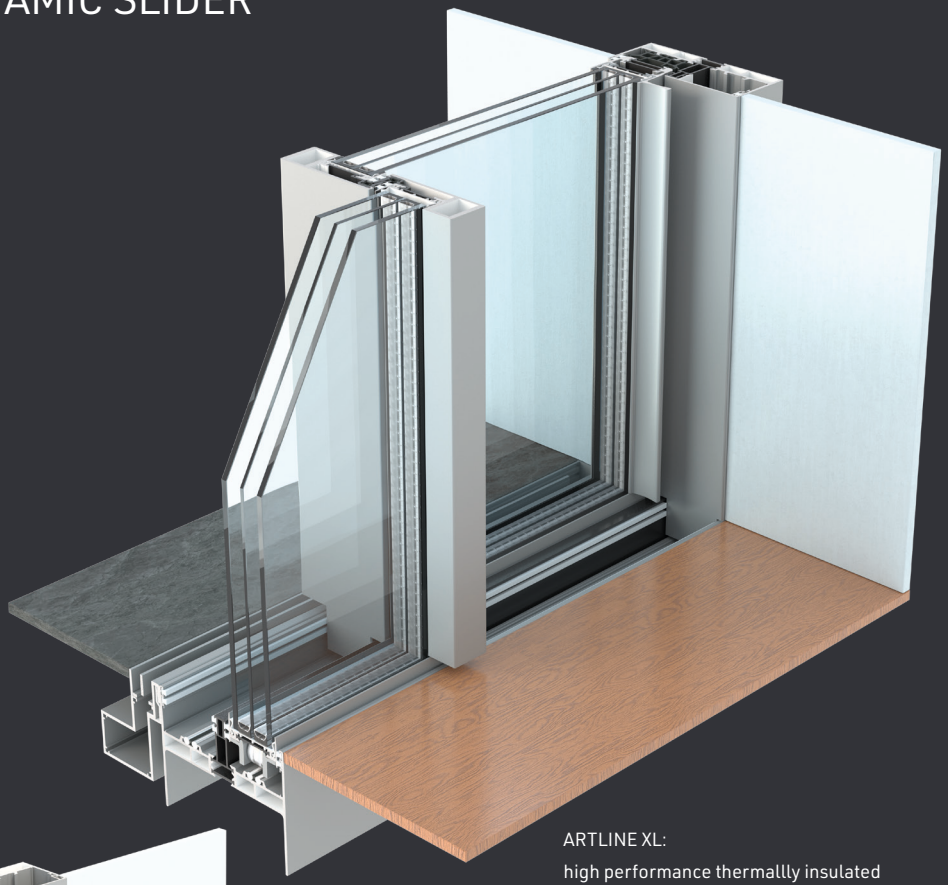
The range of applications that ARTLINE can perform is extensive, giving it a high level of functionality.

Floor to ceiling glass walls can easily be opened and closed to let the outdoors in.
ARTLINE windows heights can reach up to 4,5 m. Each sash can carry up to 1200 kg, enabling both large and heavy glazed infills.

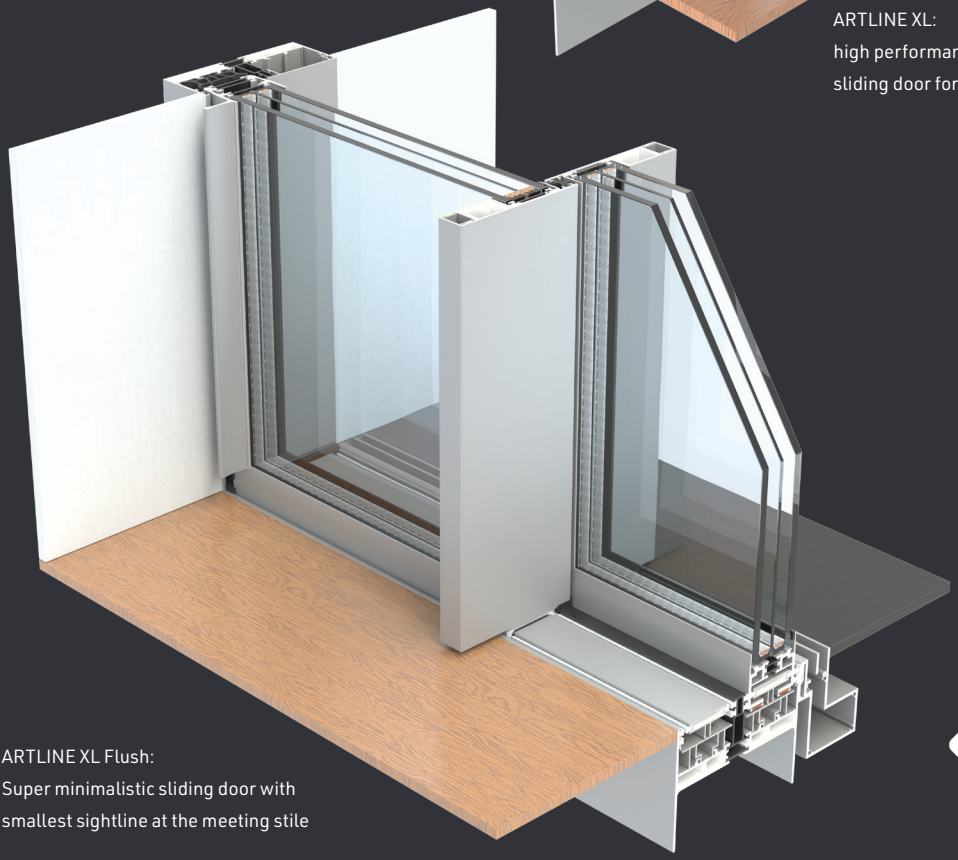
The window's impressive dimensions, combined with a minimal visible frame width, enable interiors to be flooded with light.

ARTLINE & ARTLINE XL

↗ THE PANORAMIC SLIDER



ARTLINE XL:
high performance thermallly insulated
sliding door for huge openings



ARTLINE XL Flush:
Super minimalistic sliding door with
smallest sightline at the meeting stile

Hydro
CIRCAL®
Recycled
Aluminium

KEY FEATURES & INNOVATIONS

↗ ARTLINE SLIDER

DESIGN: MINIMALISTIC

- A frameless aspect by concealing the outer frame in the building's construction.
- The sightline of the sashes is between 0 and 31.5 mm.
- Pocket solution: maximum transparency.
- Extremely slim interlocking profile (26 or 38 mm)
- Many applications available on standard version: 2 and 3 rails version, floating corner, pocket solution, fix-slide-fix solution, bi-part solution.
- Hidden gutter in flush solution
- Hidden sashes with roller in frame solution.
- No visible components: concealed drainage and hardware.

LARGE DIMENSIONS

(In standard version)

- Maximum sizes up to H = 4500 mm.
- Weight: up to 1200 kg per sash. It is recommended to motorize panes weighing over 500 kg.
- Glazing thickness up to 52 mm.

PERFORMANCES

(according to EN standards)

- Thermal: U_w < 1.0 W/m².K
- (U_g = 0.5 W/m².K, triple glazing, T_{LW} < 0.64, S_W < 0.62 1 sash + 1 fix, WxH = 3000 x 2800 mm)
- Air permeability: Class 4 (highest level)
- Water tightness: Class E900
- Wind pressure resistance: Class C3
- Durability: Cyclic test: EN1191: 50 000 cycles
- Corrosion: Salt spray test: EN1670 Grade 5 (highest level)
- Safety: Burglar resistance: RC2

ACCESSIBILITY AND COMFORT

- Ground-recessed for total access comfort on all applications.
- Optional motorization in all applications in collaboration with LIBERDA Antriebstechnik GmbH.

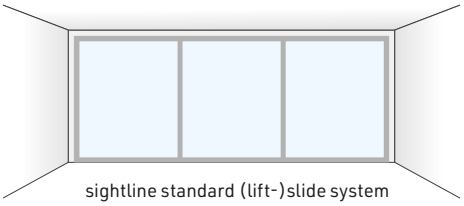
SOFTWARE

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

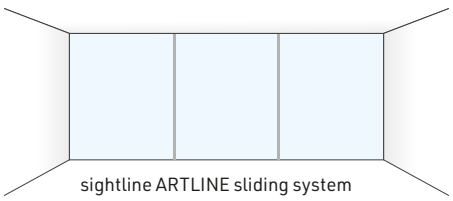
SUSTAINABLE CIRCULAR SLIDER

- ARTLINE 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
- Dynamic EPD available on TechDesign
- 75% recycled and 95% recyclable

MAXIMUM LIGHT



sightline standard (lift-)slide system



sightline ARTLINE sliding system

AESTHETIC LIGHTNESS

↗ ARTLINE SLIDER

The ARTLINE sliding door is constructed from insulated aluminium profiles and is specially designed to maximise the clear glass area and openness of the architectural design. The threshold is lowered into the floor and the frame is built in inside the walls at the sides to give a frameless appearance. Handles are stylishly integrated into the profiles and further enhance the minimalist design.



Architect: Guillaume DaSilva Architecte d'intérieur
Photography: www.shoothib.com



Photography: Jean Godecharle

View of the open pane, showing upper frame built into the false ceiling.



Photography: Jean Godecharle

Detail of the central overlap of two panes, showing lower frame flush with the outer and inner pavement. The depth of the pane upright depends on the pressure it must support so that the glass does not exceed its stress threshold.

AESTHETIC LIGHTNESS

↗ ARTLINE SLIDER

HIDDEN FRAMES

The frames (side, floor and ceiling) can be recessed and disappear almost completely from view. This way, only the interlocks of the panes remain visible, featuring a sightline that can be 38 mm or 26 mm wide (as per client specification), and the profile depth that varies depending on the inertia required to support the wind pressure according to the window surface area. Also the handles are discretely integrated in the sliding system.

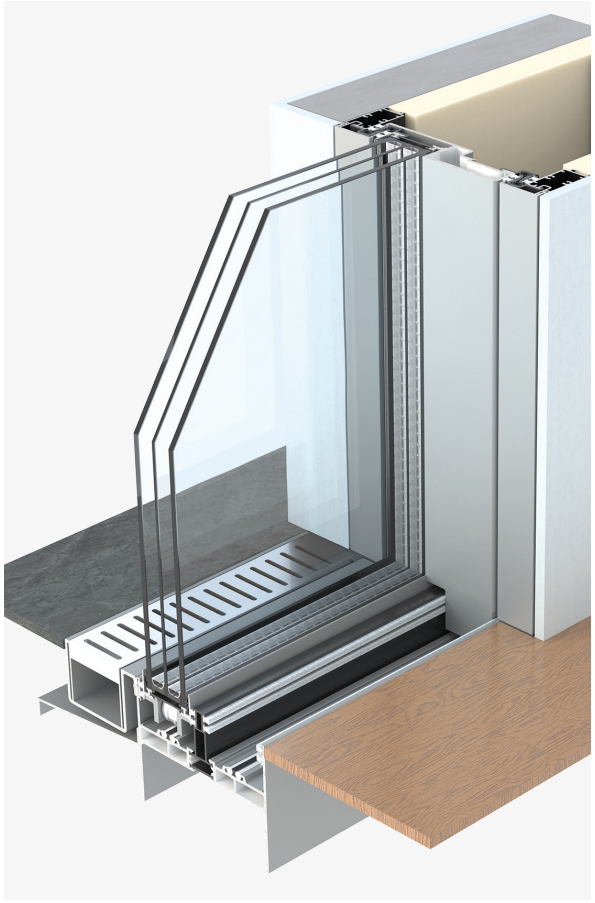
This design translates into a slenderness that works beautifully in architectural projects aiming at the utmost transparency.

POCKET SOLUTION

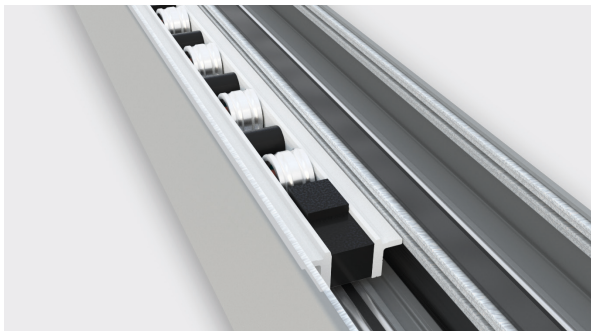
The extremely slim interlocks in addition to minimalistic pocket solution are able to offer an incredibly stunning transparency.

SECURITY AND PERFORMANCE

ARTLINE manages to convert these large glazed walls into a resistant wall–tested for water tightness, air permeability and intrusion resistance. Its system design has passed stringent certification tests.



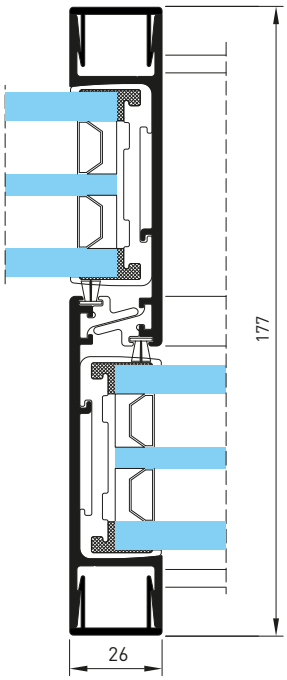
ARTLINE XL Pocket solution



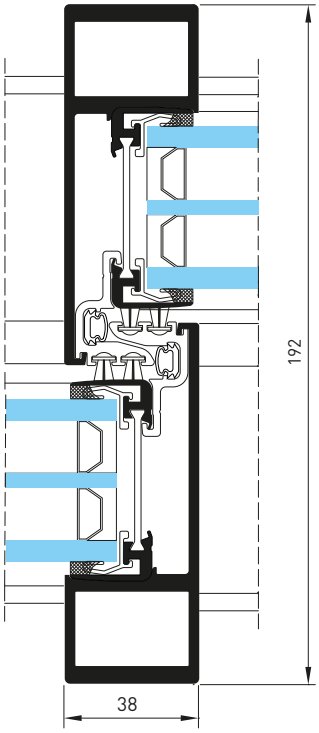
Each pane slides on two sets of wheels, like the one pictured. Each trolley has four double marine-quality stainless steel wheels that slide on a double stainless steel rail supporting 500 kg of weight, requiring minimal pushing effort. The 8-wheel roller can manage up to 1200 kg. It is advisable to motorize panes weighing > 500 kg.

APPLICATIONS

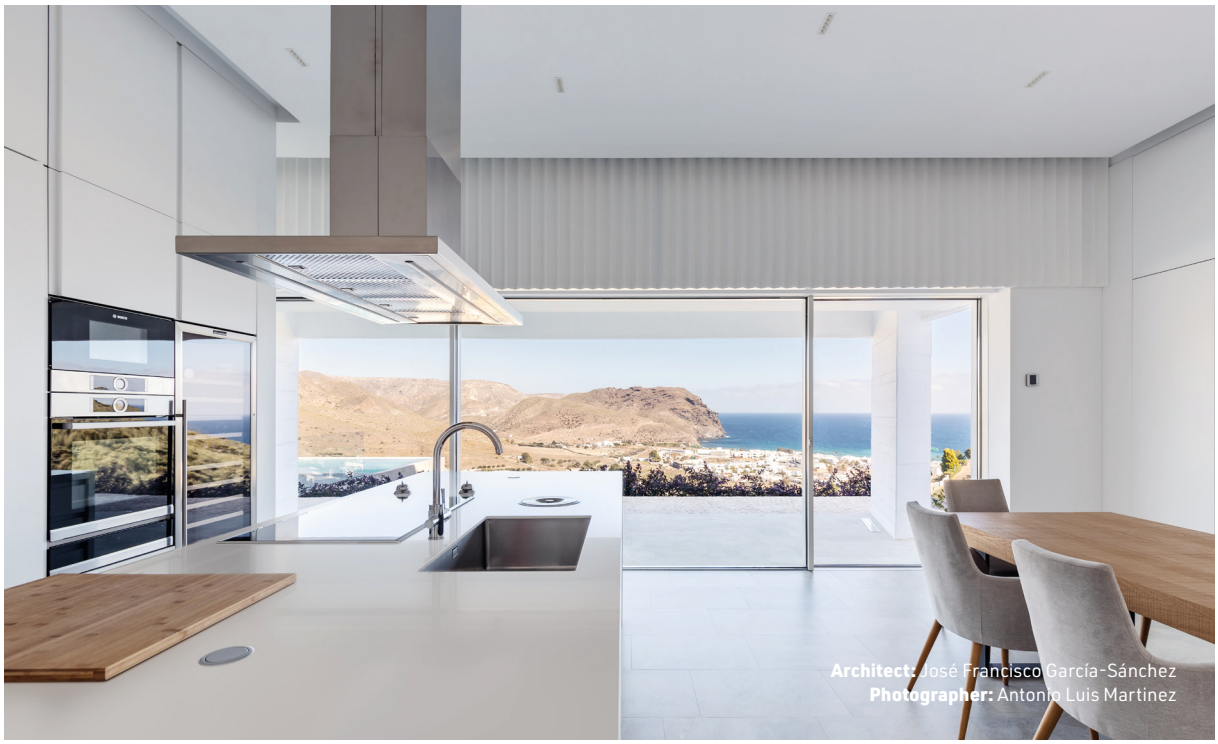
↗ ARTLINE



Central mullion 26 mm
(ARTLINE XL)



Central mullion 38 mm
(ARTLINE XL)



Architect: José Francisco García-Sánchez
Photographer: Antonio Luis Martinez

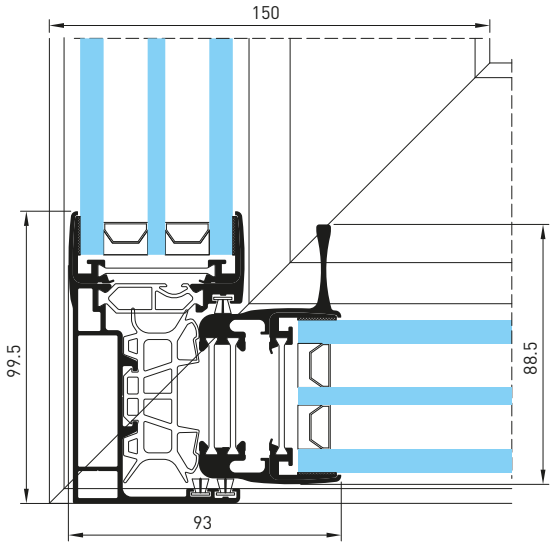
OPEN CORNER

↗ ARTLINE XL

OPEN CORNER

ARTLINE slider provides external or internal corner solution to design even more original projects. It enables users to configure the frame to corner at 90°, without the need for a corner post. When the panes are opened, the corner opens wide up, blurring the line that separates the inside from the outside. When closed, the panes on either side connect, sealing out water and air.

90 ° corner contact.
Glazing from 40 to 52 mm
(ARTLINE XL)





Architect: Daniel Isern
Photographer: Adrià Goula



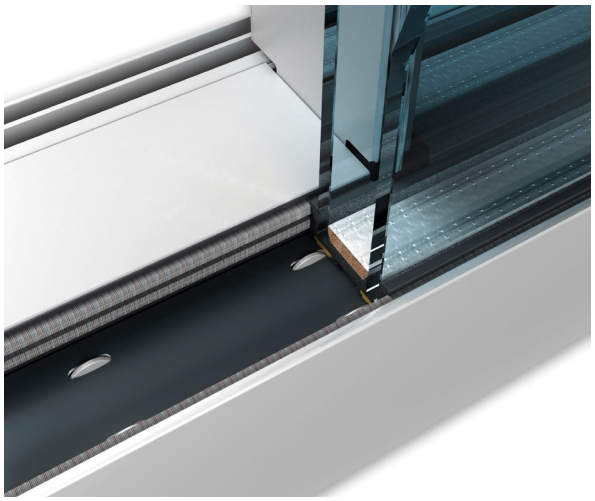
Architecture agency: By MoRE Diseño, arquitectura y construcción
Photographer: Miguel de Guzman

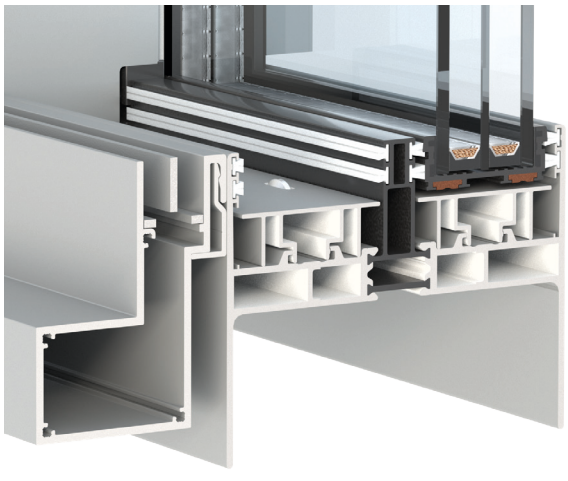
WITH ROLLERS IN THE FRAME

↗ ARTLINE XL RIF

The Artline XL RIF is a version with the rollers integrated in the frame.
In this configuration the sashes are completely invisible except for the interlock with a sightline of 26 mm.
This solution is available for a 2 and 3 rail application

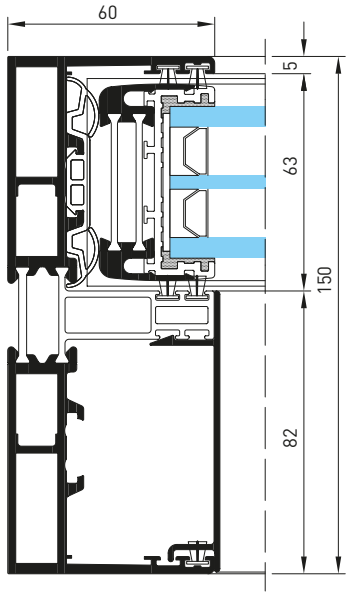




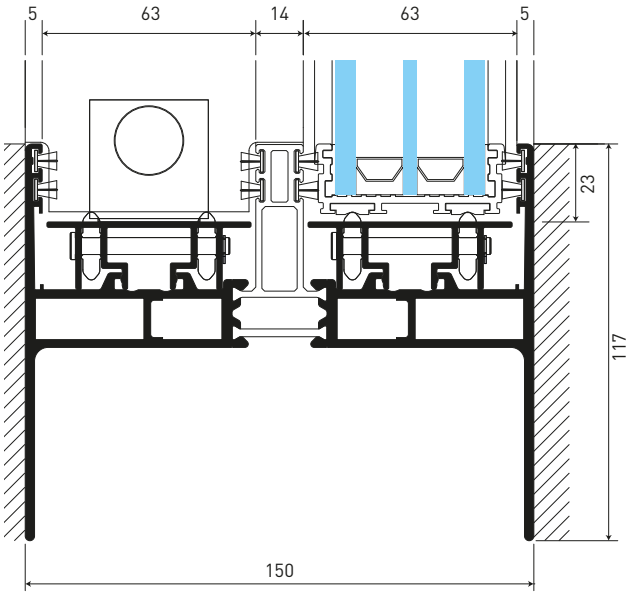


APPLICATIONS

↗ ARTLINE XL RIF



Side contact between pane and frame
Max. glazing of 45 mm
(ARTLINE XL RIF)



Contact of pane and lower frame
Max. sash weight of 500 kg
(ARTLINE XL RIF)



Architect: SIGGE architects Oy, Pekka Mäki
Photography: Vesa Loika Design

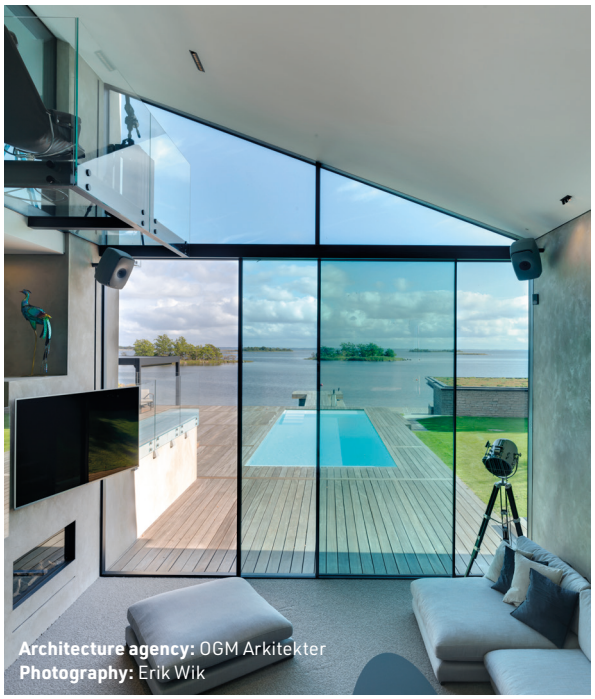
FLUSH THRESHOLD

↗ ARTLINE XL RIF

The Artline XL is also available in a completely flush threshold.
In that version the rollers are integrated in the frame but are also invisible.

This solution ensures a seamless connection of indoor and outdoor living spaces, bringing the Outside almost literally inside your building.
It also creates user comfort and accessibility.

This solution is available for a 2 and 3 rail application with 26 mm interlock.



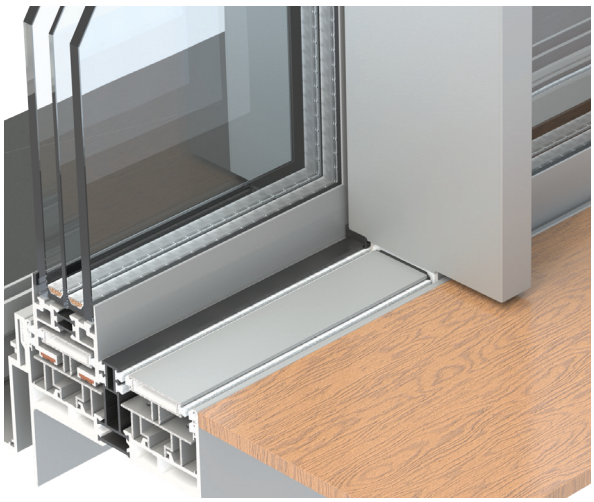
Architecture agency: OGM Arkitekter
Photography: Erik Wik

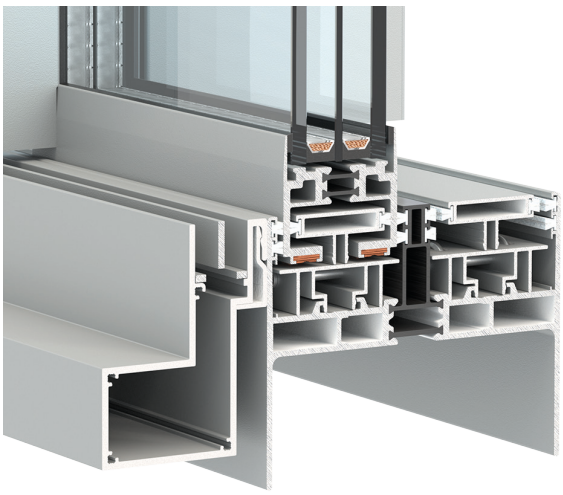


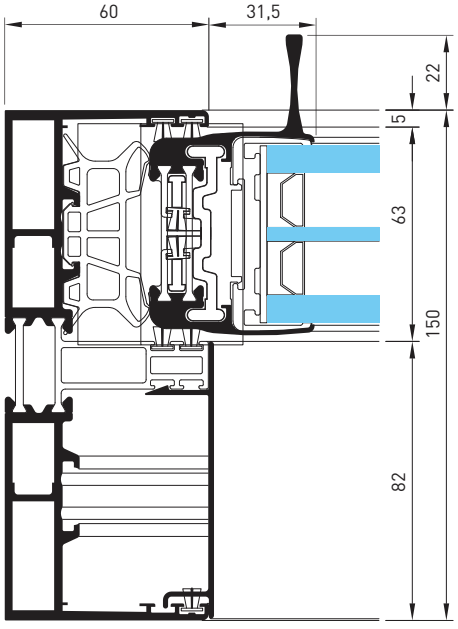
Architecture agency: Ante-Architecten bvba
Photography: Jean Godecharle

APPLICATIONS

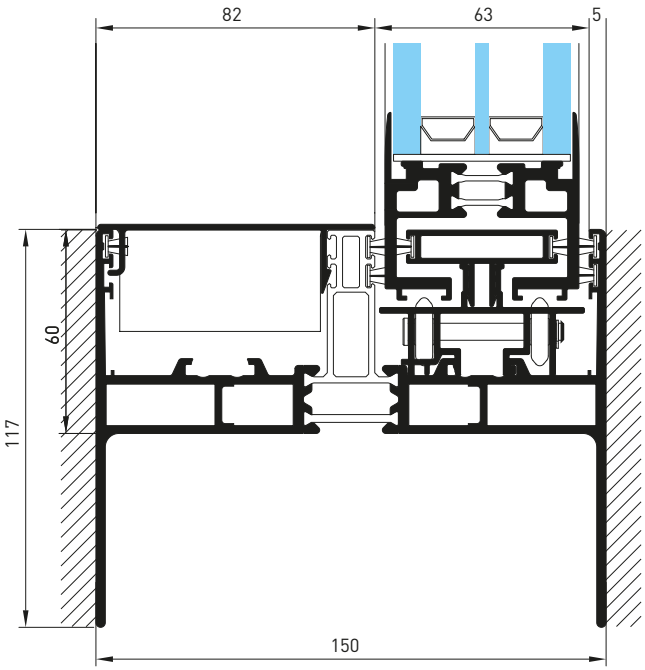
↗ ARTLINE XL RIF







Horizontal section of sash and frame
max glazing of 52 mm
(ARTLINE XL Flush)



Vertical section of sash and frame
max sash weight of 500 kg
(ARTLINE XL Flush)

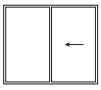
CONFIGURATIONS

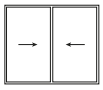
↗ ARTLINE

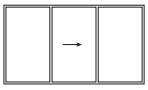
All configurations are motorizable. It is advisable to motorise panes weighing > 500 kg for safety reasons.
Applications are depending on solutions.

Available with all thresholds:

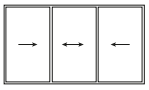
2 rails

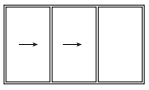






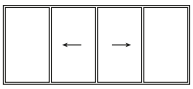
3 rails

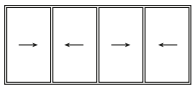




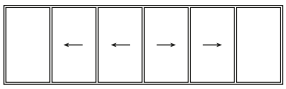
Available on standard threshold:

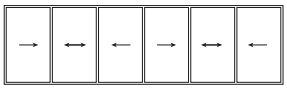
2 rails



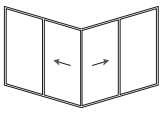


3 rails

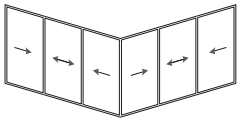




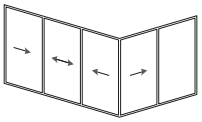
2 rails



3 rails



combination of 2 rails and 3 rails





Photography: Adrian Toon



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.
- ARTLINE is also available in lacquered finishes with the colour range EXCLUSIVE® for a stylish and contemporary look.

MORE COLOURS

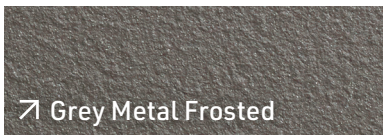
↗ ARTLINE - THE PANORAMIC SLIDER

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.

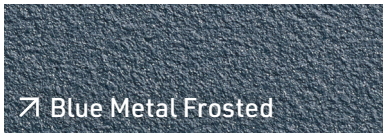


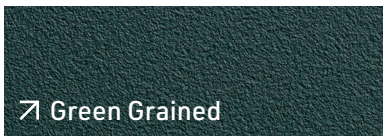






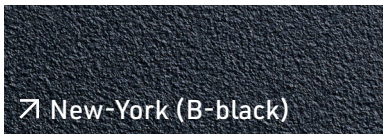




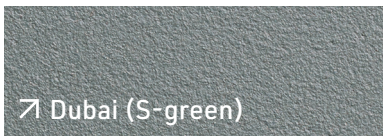


DOWNTOWN COLLECTION

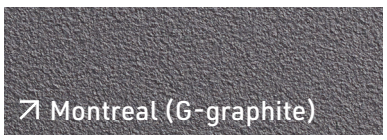
Developed in collaboration with architects, this collection is made up of eight 100% exclusive colours which enhance the aluminium. The combination of materials and light effects highlight the simplicity and elegance of the subtle colours which are reminiscent of natural materials.

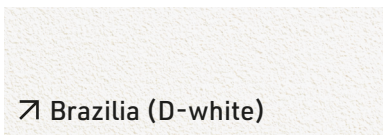




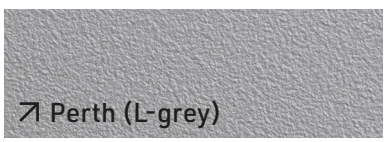














LESS IMPACT

↗ 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.



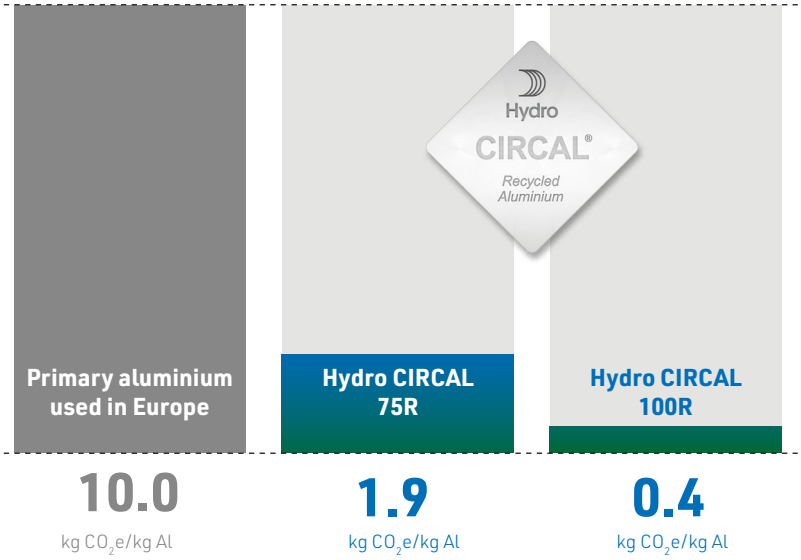
COMMITMENT AND SUSTAINABILITY

↗ 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

asi Aluminium Stewardship Initiative

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

EPD Environmental Product Declaration

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

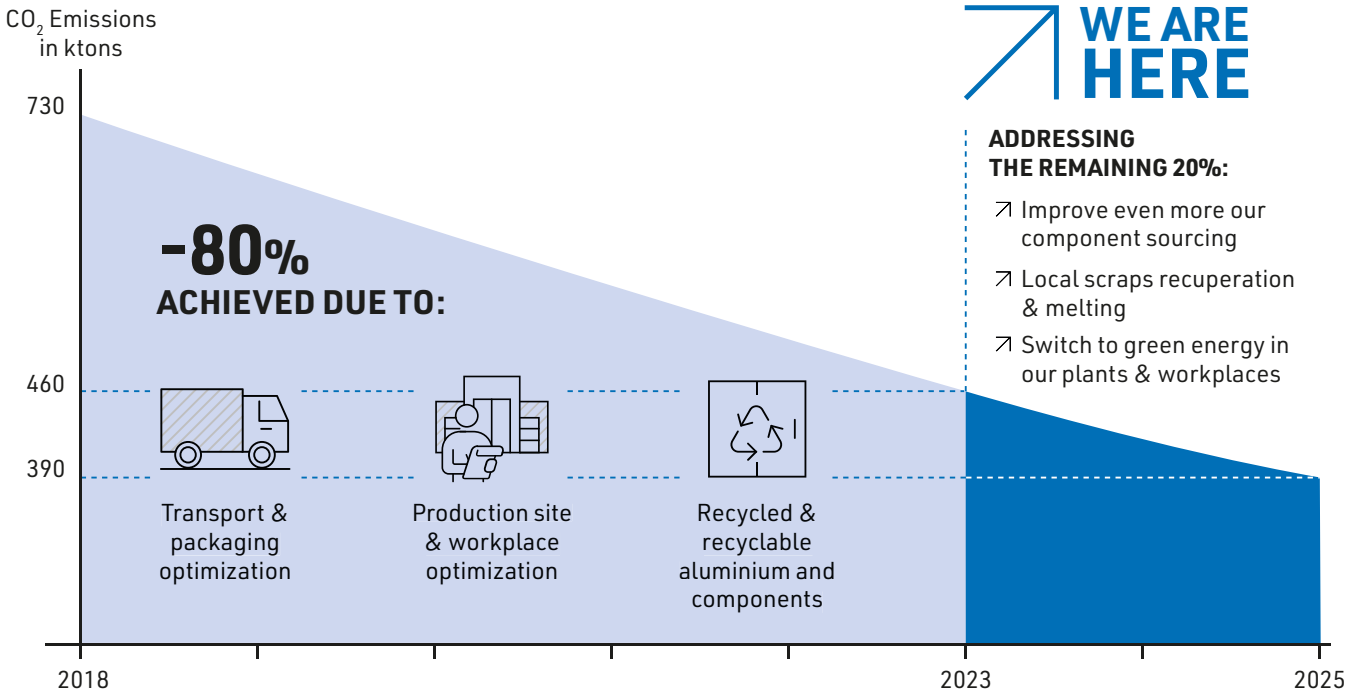


75% RECYCLED ET 95% RECYCLABLE CONTENT

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

TARGET 2025 VS 2018: CO_2 COMPANY EMISSIONS DIVIDED BY 2



PERFORMANCES

↗ ARTLINE SLIDER

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					
Application	Dimensions in mm (W x H)	Global Warming Potential / m² (kg CO_2 eq. / m²)	Global Warming Potential / Element (kg CO_2 eq.)	Surface (m²)	Transparent area (m²)
Double glazing 2-leaf 2 tracks	2800 x 2200	64,70	398,52	6,16	5,48

WEATHER PERFORMANCES						
Applications	Configuration	Dimensions in mm (W x H)	Air permeability	Water tightness	Wind resistance	Burglary resistance
ARTLINE	2 track, slide-fix	2400 x 2500	4	E750	C3	class RC2
ARTLINE XL	2 track, slide-slide	4000 x 4500	4	9A	C3	class RC2
ARTLINE XL RIF	2 track, slide-slide	4000 x 2800	4	E900	C2	-
ARTLINE XL Flush	2 track, slide-slide	4000 x 2800	4	8A	C3	-

ACOUSTIC PERFORMANCES								
Applications	Configuration	Dimensions in mm (W x H)	Glazing	Thickness in mm	Attenuation glazing (dB)		Attenuation ARTLINE (dB)	
					R_w ($C;C_{tr}$)	R_{Atr}	R_w ($C;C_{tr}$)	R_{Atr}
ARTLINE	2 track, slide-slide	3950 x 2400	66.2 - 20 - 44.2	42 (double)	50 (-2;-8)	42	39 (-1;-2)	37
ARTLINE XL	2 track, slide-slide	3950 x 2400	66.2 - 12 - 6 - 12 - 44.2	52 (triple)	50 (-2;-6)	44	37 (-1;-1)	36

THERMAL PERFORMANCES - U_w (in W/m²K)					
Applications	Configuration	Dimensions in mm (W x H)		U_w with U_g = 0.5 W/m²K / Psi = 0.039 W/mK	U_w with U_g = 1.0 W/m²K / Psi = 0.051 W/mK
ARTLINE	2 track, slide-fix	3000 x 2800	U_w	0.98	1.48
			TL_w	0.62	0.62
			S_w	0.60	0.60
ARTLINE XL	2 track, slide-fix	3000 x 2800	U_w	0.91	1.49
			TL_w	0.62	0.62
			S_w	0.60	0.60
ARTLINE XL RIF	2 track, slide-fix	3000 x 2800	U_w	0.96	1.34
			TL_w	0.62	0.63
			S_w	0.61	0.61
ARTLINE XL Flush	2 track, slide-fix	3000 x 2800	U_w	0.96	1.42
			TL_w	0.62	0.62
			S_w	0.60	0.60

CHARACTERISTICS					
Applications	Sash weight	Visible sightline of the interlock	Building depth frame	Sash depth	Max glazing sash
ARTLINE	up to 320 kg	26 or 38 mm	125 mm	47 mm	42 mm
ARTLINE XL	up to 500 kg*	26 or 38 mm	150 mm	57 mm	52 mm
ARTLINE XL RIF	up to 500 kg	26 mm	150 mm	57 mm	45 mm
ARTLINE XL Flush	up to 500 kg	26 mm	150 mm	57 mm	52 mm
ARTLINE Xl Pocket	up to 500 kg*	38 mm	150 mm	57 mm	52 mm

* up to 1200 kg upon request

TECHNAL®

IMAGINE WHAT'S NEXT

270, rue Léon-Joulin
BP 63709 - 31037 Toulouse cedex 1
Tél. 05 61 31 28 28 - www.technal.com

In accordance with our environmental policy, TECHNAL works with certified printers committed to the environment.

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