

# ARTLINE & ARTLINE XL

LIGHT IS MORE



Photo: AdriaGoulaPhoto



By  Hydro



# ARTLINE

/ LIGHT IS MORE

## 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.

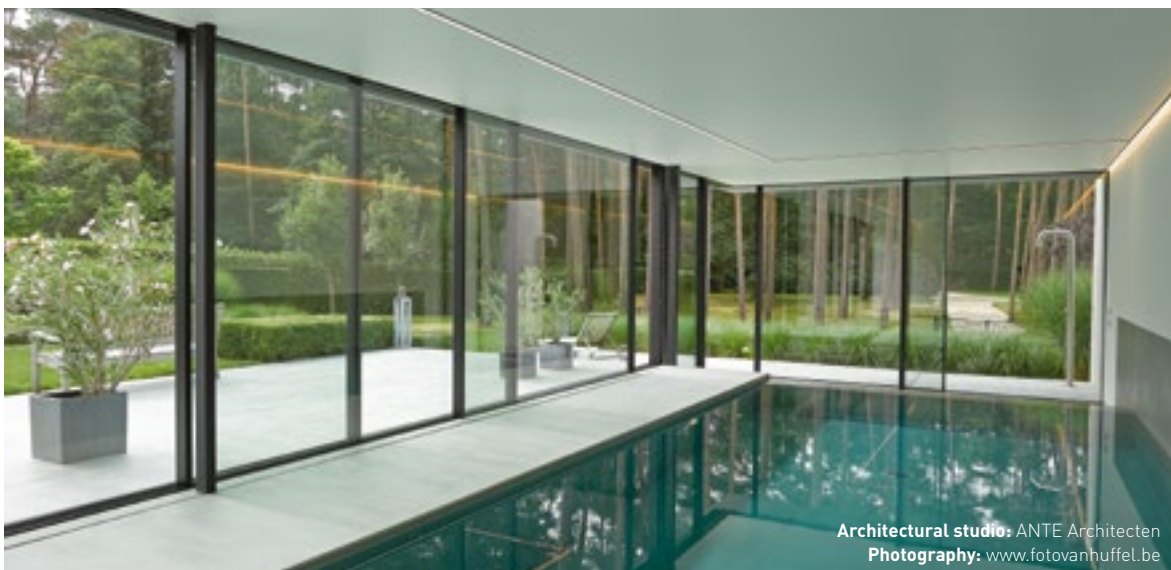
## MULTI APPLICATION

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.

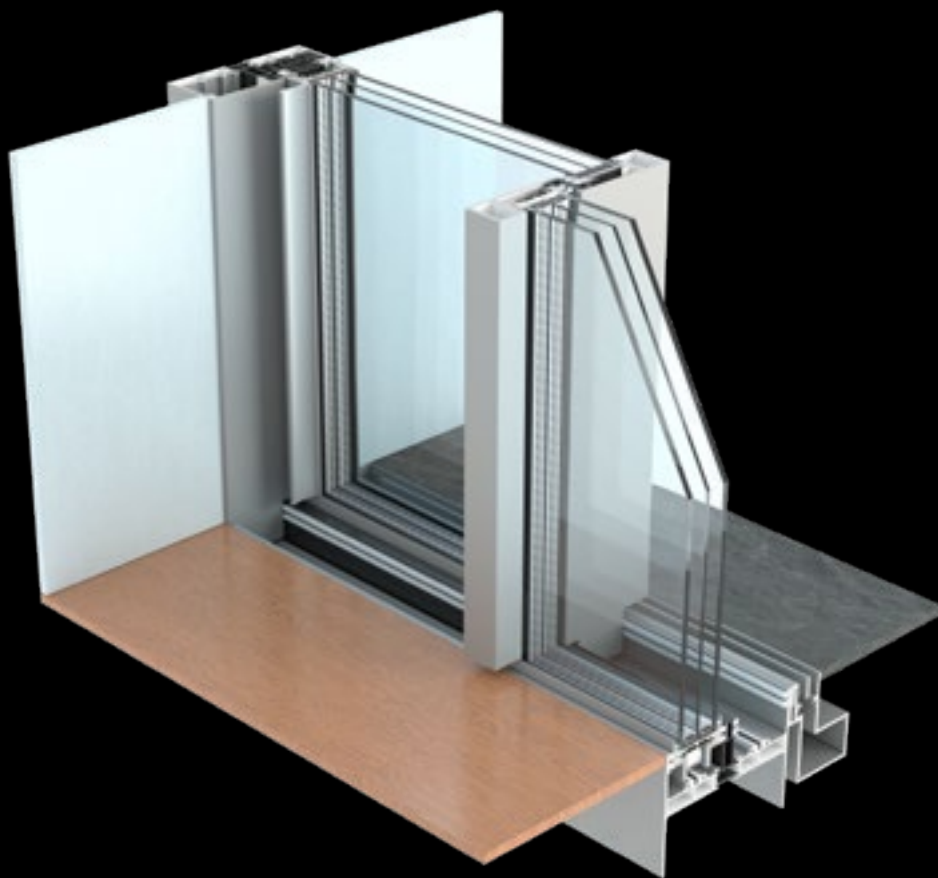
The window's impressive dimensions, combined with a minimal visible frame width, enable interiors to be flooded with light.



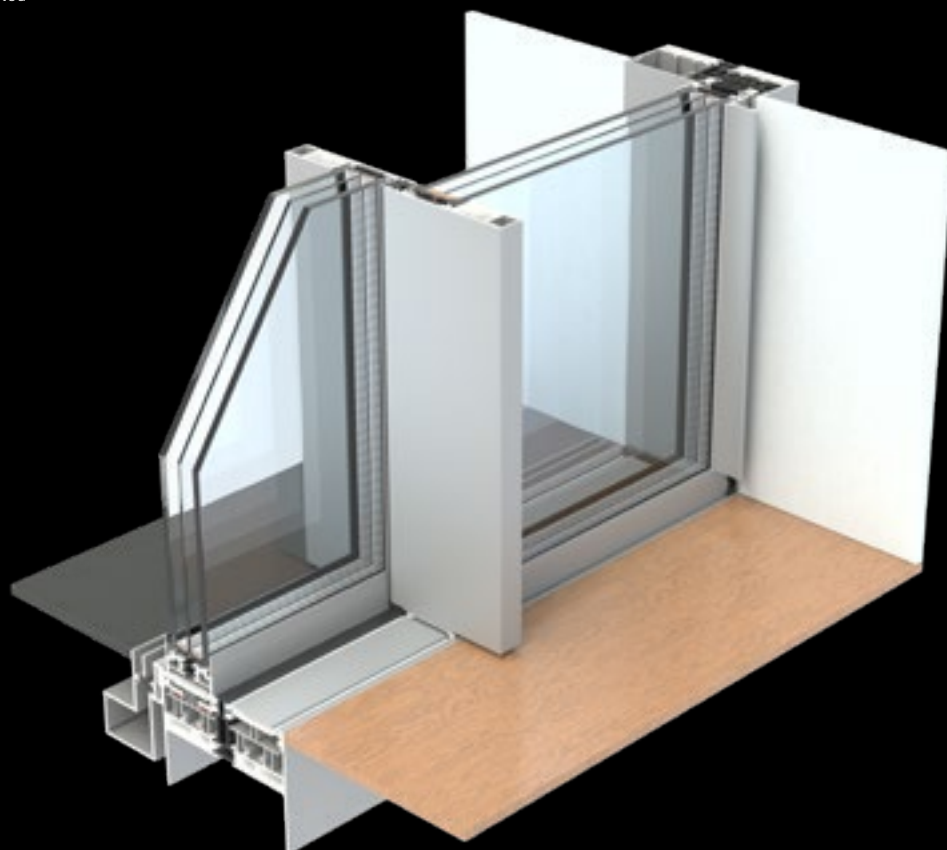
Architectural studio: ANTE Architecten  
Photography: [www.fotovanhuffel.be](http://www.fotovanhuffel.be)

# ARTLINE & ARTLINE XL

/ THE PANORAMIC SLIDING DOOR



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



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

# KEY FEATURES AND INNOVATIONS

## 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:**  $U_w < 1.0 \text{ W/m}^2\cdot\text{K}$   
( $U_g = 0.5 \text{ W/m}^2\cdot\text{K}$ , triple glazing,  $T_{LW} < 0.64$ ,  $S_w < 0.62$   
1 sash + 1 fix,  $W \times H = 3000 \times 2800 \text{ mm}$ )
- **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

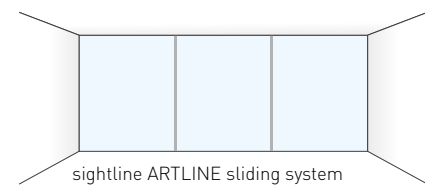
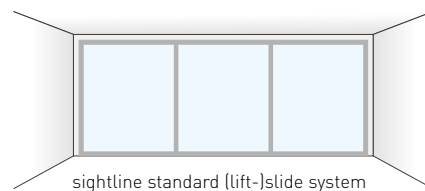
## ACCESSIBILITY AND COMFORT

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

## SUSTAINABILITY

- Available in Hydro CIRCAL<sup>®</sup>, aluminium made with a minimum of 75% recycled end-of-life aluminium. This aluminium has one of the lowest CO<sub>2</sub> footprint worldwide: 2.3 kg of CO<sub>2</sub>/kg of aluminium.
- EPD on demand

## MAXIMUM LIGHT



# ARTLINE

/ AESTHETIC LIGHTNESS

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 Godecharte

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



Photography: Jean Godecharte

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.



Photography: Leszek Ogrodnik - [www.quadroom.pl](http://www.quadroom.pl)



Photography: [info@fclama.be](mailto:info@fclama.be)

# ARTLINE

/ AESTHETIC LIGHTNESS

## 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.



ARTLINE XL Pocket solution

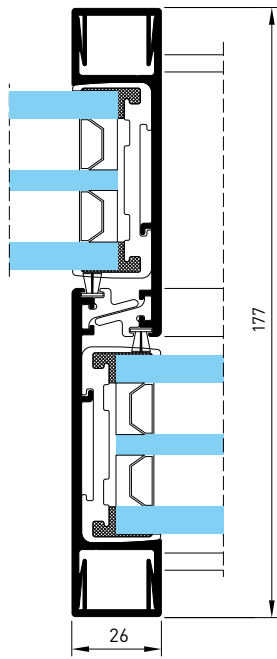
## SECURITY AND PERFORMANCE

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.

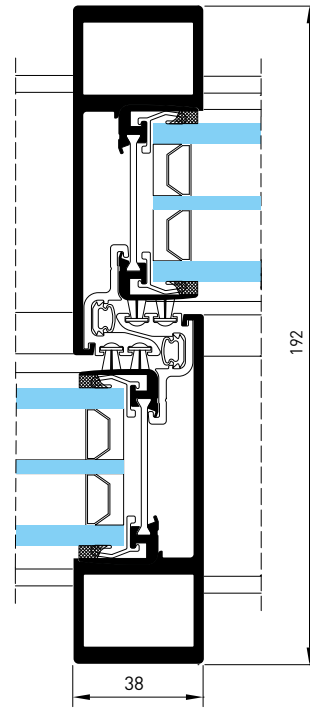


Each pane slides on two sets of wheels, like the one pictured. Each trolley has four double marine-quality stainless steel wheels that slide on a double stainless steel rail supporting 500 kg of weight, requiring minimal pushing effort. The 8-wheel roller can manage up to 1200 kg. It is advisable to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





Central mullion 26 mm  
(ARTLINE XL)



Central mullion 38 mm  
(ARTLINE XL)



**Architect:** Robert Konieczny  
**Photography:** Leszek Ogrodnik - [www.quadroom.pl](http://www.quadroom.pl)

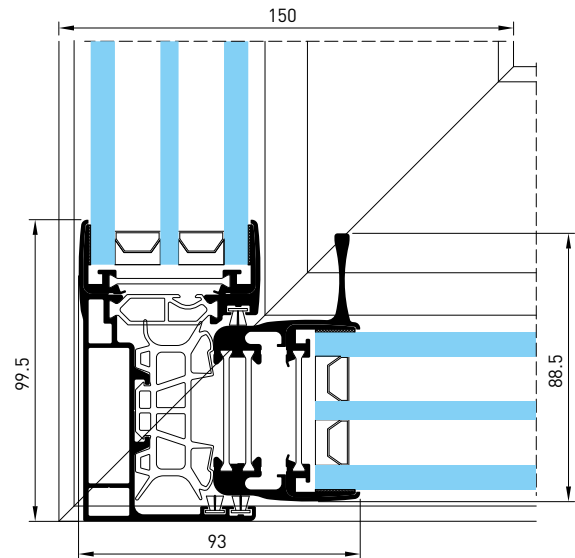
# ARTLINE XL

/ OPEN CORNER

## 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)



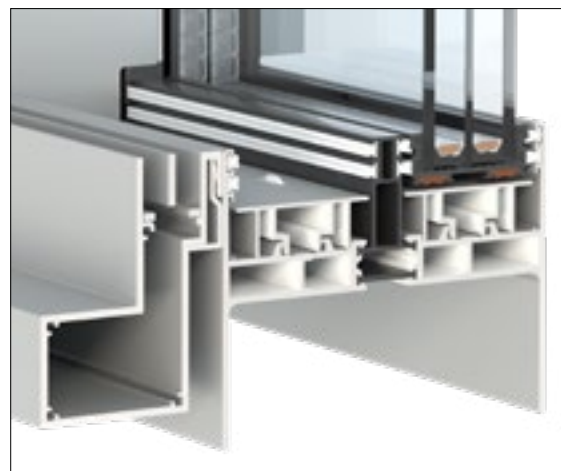
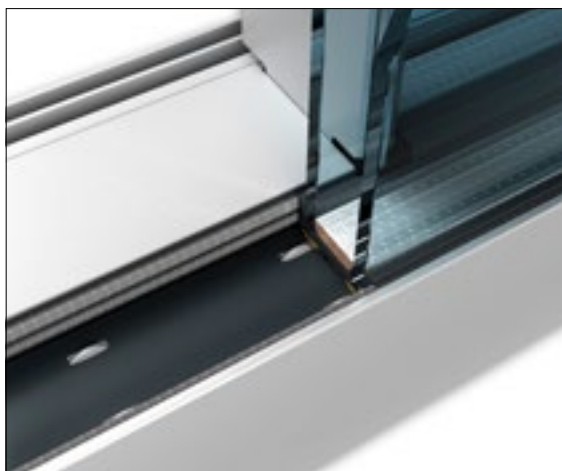
Photography: AdriaGoulaPhoto

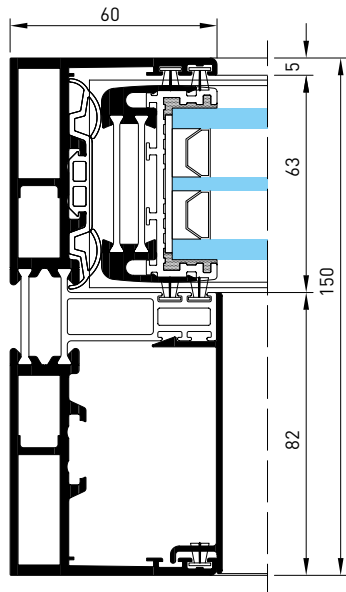


# ARTLINE XL RIF

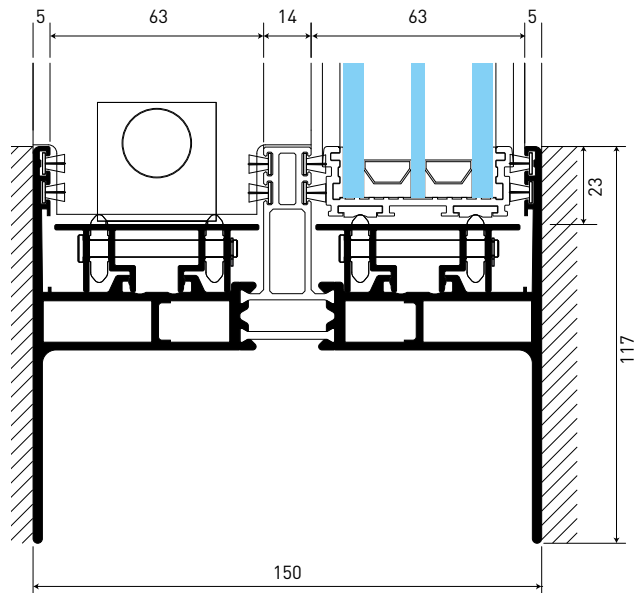
/ WITH ROLLERS IN THE FRAME

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.





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

# ARTLINE XL FLUSH

/ FLUSH THRESHOLD

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.

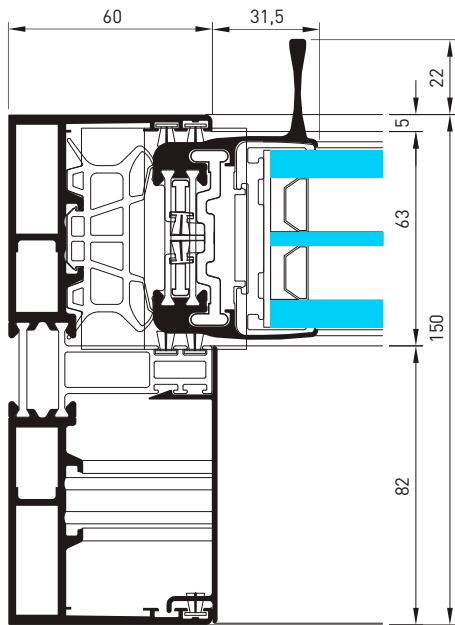
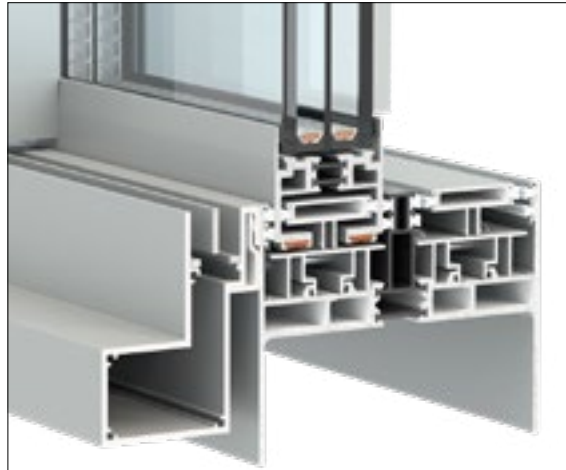
This solution is available for a 2 and 3 rail application with 26 mm interlock.



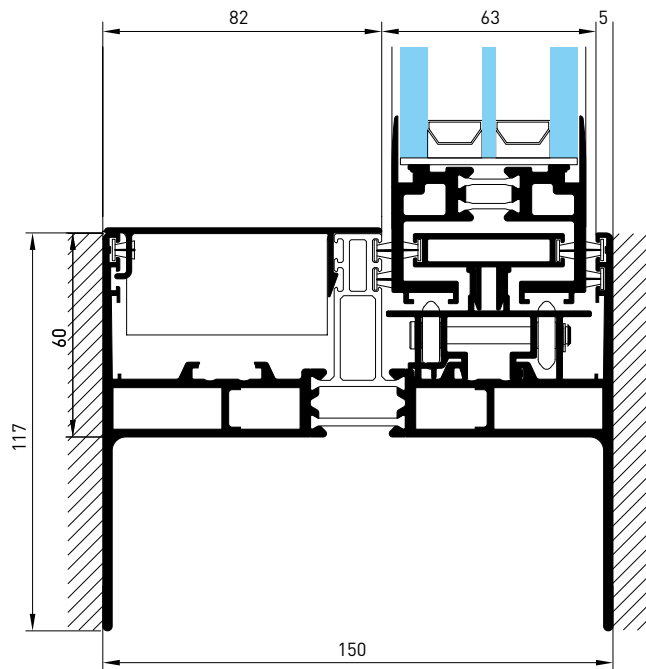
Photo: Erik Wik



Photo: Jean Godecharle



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)

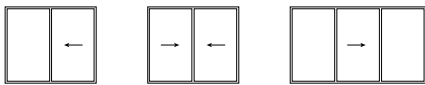
# APPLICATIONS

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:

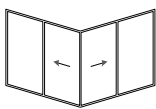
2 rails



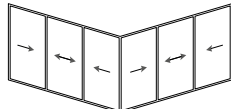
3 rails



2 rails



3 rails



combination of 2 rails and 3 rails

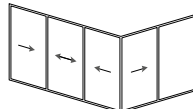


Photo: Adrian Toon



# CHARACTERISTICS & PERFORMANCES

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

TIGHTNESS PERFORMANCES (according EN12207, EN12208, EN12210) & BURGLARY RESISTANCE (according EN1627-EN1630)						
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 <sub>tr</sub> ]	$R_{Atr}$	$R_w$ [C;C <sub>tr</sub> ]	$R_{Atr}$
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/m <sup>2</sup> K)							
Applications	Configuration	Dimensions in mm (W x H)		$U_w$ with $U_g = 0.5$ W/m <sup>2</sup> K / $\Psi = 0.039$ W/mK		$U_w$ with $U_g = 1.0$ W/m <sup>2</sup> K / $\Psi = 0.051$ W/mK	
				$U_w$	$TL_w$	$U_w$	$TL_w$
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	



**Architect:** SIGGE architects Oy, Pekka Mäki  
**Photo:** Vesa Loikas



## MATERIALS AND COMPONENTS

ARTLINE is made of Hydro CIRCAL®, recycled low carbon aluminum. It is a prime quality aluminum made with a minimum of 75% recycled end-of-life aluminum (post-consumer scrap). Hydro CIRCAL® has one of the lowest CO<sub>2</sub> footprint worldwide: 2.3 kg of CO<sub>2</sub> per kilo of aluminum.

- The aluminum profiles are extruded from alloys 6060 Building compliant with EN 12020, EN 573-3, EN 515 and EN 775-1 to 9.
- As with all TECHNAL systems, only high-quality materials and components are used to ensure reduced maintenance and optimal long-term performance.
- Accessories are made of aluminum or aluminum alloy.
- The window assembly features EPDM seals.
- The screws are made of stainless steel.

## FINISHES

ARTLINE boasts a wide array of finishes and textures to let architects and decorators choose the right solution for their design and meet the demands of both new construction and rehabilitation projects.

- Anodized as per QUALANOD Quality Label specifications.
- Lacquered with a wide range of colours as per QUALICOAT Quality Seal specifications.

# ARTLINE

## / COMMITMENT AND SUSTAINABILITY

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). 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 CO<sub>2</sub> footprint worldwide: 2.3 kg CO<sub>2</sub> 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 CO<sub>2</sub> EMISSIONS**

The consequence of using Hydro CIRCAL® is the drastic reduction in CO<sub>2</sub> emissions which sums more than 85% when compared with the global average for primary aluminium production.

**ARTLINE**

75% RECYCLED  
95% RECYCLABLE



# ARTLINE

## / CERTIFICATIONS



### 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



IMAGINE WHAT'S NEXT

**HYDRO BUILDING SYSTEMS MIDDLE EAST W.L.L**

P.O. Box: 21848, Manama, Kingdom of Bahrain

T: +973 17225777 | F: +973 17217799 | E: [technal-hbsme@hydro.com](mailto:technal-hbsme@hydro.com) | W: [www.technal-me.com](http://www.technal-me.com)

 TechnalME

 [technal\\_middleeast](https://www.instagram.com/technal_middleeast)

 TechnalME

 TECHNAL Middle East