

More than a view, a vision.

Titawin was founded with a clear objective: to produce minimal windows of the highest quality and to bring them into as many homes as possible.



Redefining industry standards

Titawin has a unique way of elevating the quality of minimal windows, bringing to the market Fly Light, the threshold-free, lift-and-slide system with the thinnest vertical and horizontal profiles ever.

Our Fly Light windows are elegant and modern thanks to their large glass surface area and guarantee high thermal insulation, performance and weather resistance.

Using dedicated and fully automated production lines, we are able to perform precise machining in every detail and reduce costs over the entire supply chain. The combination of these factors enables a very high quality, technologically advanced product to be spread more widely. Now European, Asian and American window fabricators and showrooms can offer their customers the minimalist lift-and-slide system that is redefining the industry.





Redefining exclusivity to bring it into the every day

We believe that beautiful vistas unobstructed by intrusive frames needn't be the exclusive prerogative of large villas designed by prominent architects. To make the Fly Light minimalist windows truly affordable, we've completely rethought the design and production process and simplified the assembly stages.

In this way we've drastically reduced production and installation costs, while at the same time enhancing

the technical specifications.

"From the spoon to the city", as Ernesto Nathan Rogers' famous slogan recited to indicate the cross-functional approach that architecture should adopt according to his manifesto.

In the Switzerland where the great architect found refuge, we endeavour to take up his invitation in our own way, ensuring that the benefits of Fly Light minimal windows can easily find their way "from villa to studio apartment".



More light and more comfort, in everyday homes

Light draws everything our eyes see, and a bright and comfortable environment helps us to live better. It's no coincidence that the most exclusive villas feature large windows with very thin frames.

The thinner the frame containing the glass, the more light can pass through it. Glass not only makes our rooms brighter, but it is the key element that reduces heat loss and increases energy efficiency. And glass also always determines the sound insulation; it isn't the frames, whatever material they're made of.

Glass has the ability to make us feel protected in our home and at the same time become one with our surroundings.

In short, glass can improve the quality of our daily lives and increase the value of our everyday homes.

It is with this in mind that our designers have worked to break down the physical barriers of minimalist windows and allow Fly Light to be installed even in buildings undergoing renovation, taking advantage of existing openings even on raised floors.





What our windows offer you is not just a view, but a vision.



The first and only one without a threshold

The Titawin team has designed
Fly Light: the first and only lift-and-slide
mechanism that can be installed without
a threshold. Remove all obstacles
and enjoy better insulation than any
alternative available on the market.

Compatible in all buildings and situations

Titawin Fly Light windows can be installed in any housing and operated with handles of the same size and shape as those used for traditional windows, making them a perfect match even for previously installed windows.







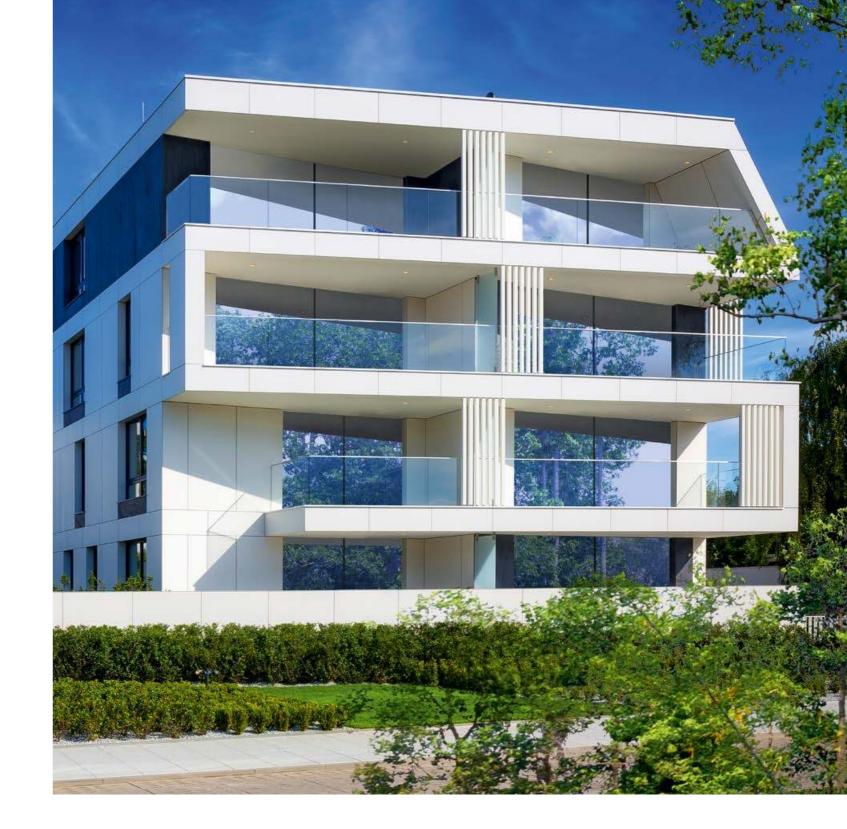
Thermal insulation without compromise

The innovative Fly Light lift-and-slide system provides excellent thermal insulation but without a threshold, reaching a value of 0.68 UW (W/m² K). It also offers high resistance to weathering, for a performance which exceeds all expectations.

Our windows perform so well that we can use the double-glazed version, with a considerable reduction in the weight of the frame.
Other manufacturers are obliged to install triple-glazing to achieve the same results.

Fly Light, the first minimal window that installs easily on upper floors





The innovative threshold-free sliding system allows Fly Light windows to be installed in new or renovated buildings, regardless of the flooring, without the need for time-consuming masonry work or expensive drainage systems.



Manual and motorised for the same price

Titawin's team of engineers have developed a sophisticated, patented lifting mechanism that makes it possible to effortlessly move Fly Light windows of any size and weight using a unique joint system.

Thanks to its small size, the lifting mechanism can be inserted into the upper transom of the frame in the motorised version.

Fly Light can be controlled via voice commands, a dedicated app or a wall-mounted keypad – this is the first digital native window!

On the other hand, the light system of the manual version allows you to use traditional handles whose style and size ultimately match your home. If you passionately believe "less is more", a retractable handle is also available for a timeless design.

Fly Light wooden windows

CARRYING
Up to 400

CARRYING CAPACITY

Up to 400 kg (model with a load capacity of up to 1,000 kg available soon)



THERMAL INSULATION

Excellent level of thermal insulation: up to **0.65 Uw/m² K** for a 3 x 2.5 m sliding window



WATER RESISTANCE

High water resistance: up to E900 Pa (equivalent to a wind speed of about 140 km/h in heavy rain)



AIR RESISTANCE

Can be installed even in the worst environmental conditions: **class A4** (zero draught) Wind load resistance up to **class C3**



AVAILABLE VERSIONS

Manual or motorised opening, with double or triple glazing



^(*) Where necessary, an insulating flat sill measuring a few mm thick can be laid to join internal and external flooring



- **4.** Beam and roller system integrated into timber frame
- **5.** Extremely easy to install and adjust beam and roller system
- **6.** Hanging rollers that work in the "absence" of dust

- 7. Structural sash columns that are just 30 mm (45 mm for wood/ aluminium version)
- 8. Silicone seals and plugs with suction effect for high weather resistance
- **9.** Sturdy and durable window frame as weight is released on the ground with the window closed







Manual wooden windows

In the manual version of Fly Light the handle can have the same style and size as others in the house or even become "invisible" with the retractable model.

Thanks to the patented mechanical lifting system, Fly Light large windows are simple, smooth and effortless to open.

Motorised wooden windows

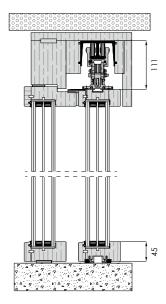
In the motorised version of Fly Light the handle disappears, making the columns less thick and giving them an even more modern and minimalist design.

Fly Light motorised windows can be controlled via voice assistants, proprietary app or keypad.

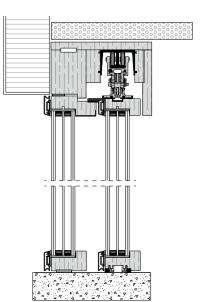
Installation diagrams

Vertical sections

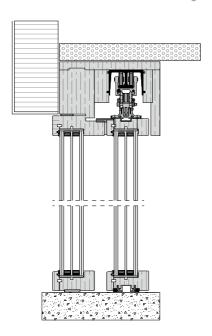
Triple-glazed wooden structure fixed in clearance



Wood/aluminium triple-glazed structure fixed in clearance and outer coating

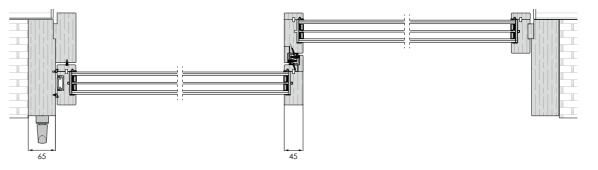


Triple-glazed wooden structure fixed in clearance and outer coating

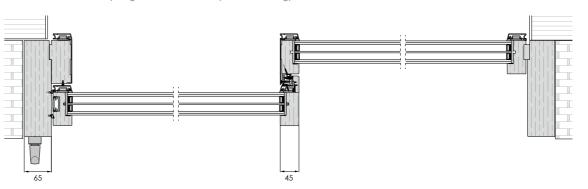


Horizontal sections

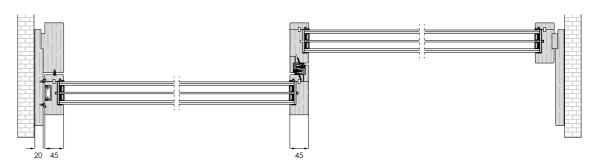
Triple-glazed wooden structure (handle lifting) fixed in clearance and outer coating



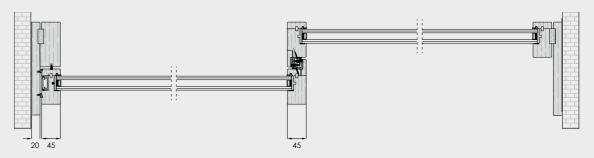
Wood/aluminium triple-glazed structure (handle lifting) with fix frame



Triple-glazed wooden structure (motorised lifting) with light frame



The proposed solutions are also available with double-glazed frames



Fly Light: models, sizes and performance

 T_1

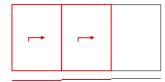
ONE MOVABLE AND ONE FIXED SASH



Already available in aluminium and wood

12

TWO MOVABLE SASHES AND ONE FIXED SIDE SASH



Available soon in aluminium and wood

T3

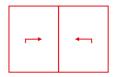
ONE RETRACTABLE MOVABLE SASH



Already available in aluminium and wood

T4

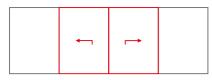
TWO MOVABLE SASHES



Already available in aluminium, soon also in wood

15

TWO FIXED SIDE SASHES AND TWO CENTRAL MOVABLE SASHES



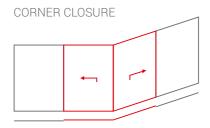
Available soon in aluminium and wood

T6

TWO MOVABLE SIDE SASHES AND ONE FIXED CENTRAL SASH



Already available in aluminium and wood



Available soon in aluminium and wood

MODEL	TYPE	STRUCTURE	A / W*	ARCHITECTURAL HOLE WIDTH (mm)		ARCHITECTURAL HOLE HEIGHT (mm)	
				L min	L max	H min	H max
T1	А	One movable and one fixed sash	(A) (W)	1920 1895	6510 6510	1950 1950	4000 4000
T2	Е	Two movable sashes and one fixed side sash	(A) (W)	3270 3260	6510 6510	1950 1950	4000 4000
Т3	-	One retractable movable sash	(A) (W)	870 900	3300 3300	1950 1950	4000 4000
T4	D	Two movable sashes	(A) (W)	1920	6510	1950	4000
T5	С	Two fixed side sashes and two central movable sashes	(A) (W)	4385	13000	1950	4000
Т6	-	Two movable side sashes and one fixed central sash	(A) (W)	2780 2750	13000 13000	1950 1950	4000 4000

^(*) A = Fly Light aluminium frame / W = Fly Light wooden frame

Up to 97% Up to 96% Class 4 Up to class E1050	Up to 97% Up to 96% Class 4 Up to class E1050	
Up to 96% Class 4 Up to class E1050	Up to 96% Class 4	
Up to class E1050		
•	Up to class E1050	
Op to class E900	Up to class E1050 Up to class E900	
Up to class C5	Up to class C5	
Up to 37 dB	Up to 44 dB	
RC2	RC2	
Uw = 1.24 W/m ² K Ψg = 0.043 Ug = 1 W/m ² K	$Uw = 0.75 \text{ W/m}^2 \text{ K}$ $\Psi g = 0.043$ $Ug = 0.5 \text{ W/m}^2 \text{ K}$	
Uw = 1.17 W/m ² K Ψg = 0.043 Ug = 1 W/m ² K	$Uw = 0.68 \text{ W/m}^2 \text{ K}$ $\Psi g = 0.043$ $Ug = 0.5 \text{ W/m}^2 \text{ K}$	
$Uw = 1.15 \text{ W/m}^2 \text{ K}$ $\Psi g = 0.043$ $Ug = 1 \text{ W/m}^2 \text{ K}$	$Uw = 0.65 \text{ W/m}^2 \text{ K}$ $\Psi g = 0.043$ $Ug = 0.5 \text{ W/m}^2 \text{ K}$	
_	Up to class E900 Up to class C5 Up to 37 dB RC2 Uw = 1.24 W/m² K Ψg = 0.043 Ug = 1 W/m² K Ψg = 0.043 Ug = 1.17 W/m² K Ψg = 0.043 Ug = 1 W/m² K Uw = 1.15 W/m² K Uw = 1.15 W/m² K	

^(*) A = Fly Light aluminium frame / W = Fly Light wooden frame

⁽¹⁾ Fly Light test sample 2000 mm x 2300 mm

⁽²⁾ Fly Light test sample 3000 mm x 2500 mm

A service that lives up to our vision



In order to bring a superlative standard product into every home, we have not just designed and manufactured it, but streamlined an entire supply chain to deal with orders quickly and keep costs down.

Our choices have been guided by the needs of those assembling and installing the frames.

To handle a large volume of orders, we use integrated, automated production lines specifically designed for our models, guaranteeing speed, precision and product quality.

In this way we gain two benefits: firstly, we don't have to ask window fitters to make large stocks of special windows, which gradually lead to surplus stock, waste and charges to be passed on to customers; and secondly, we don't put them in the position of having to adapt standard machining centres to non-standard production.

Titawin can deliver the window in kit form (or complete if required), without the burden of costs associated with non-continuous production: no spare parts, no surplus stock, no errors.

Discover, configure and order online

Go to www.titawin.ch and discover a constantly evolving site that reflects our corporate philosophy

Stay up-to-date on the new solutions we are introducing and try out our configurator.

In order to simplify the work of designers and window fitters, we have developed a simple and intuitive system that allows you to design the most suitable minimal windows in just a few steps.



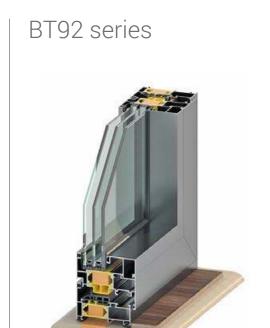


Frame the code with the camera

Not just minimal windows

Titawin is able to supply a complete range of doors and windows to meet its customers' every need.

Two traditional window models, double and triple glazed, complete a product range that stands out for its high quality construction and excellent performance.





SYSTEM PERFORMANCE	BT92 series	BST73 series	
Frame depth	92 mm	73 mm	
External visible part	81 mm	73 mm	
Air permeability (EN 12207)	Class 4	Class 4	
Water tightness (EN 12208)	Up to class E1500	Up to class E1500	
Wind load resistance (EN 12210)	Up to class C5	Up to class C5	
Glass thickness	≤ 61 mm	≤ 28 mm	
Thermal transmittance coefficient (EN 1007)	Uf = 1.15 W/m ² K	Uf = 1.7 W/m ² K	

