

PRODUCT CATALOGUE

Sosoares

The Vision of Excellence

Aluminium and Glass Systems for Architecture

CASA DA RIA | ARQ. MÁRIO MARTINS ATELIER | FOTO. FERNANDO GUERRA | LAGOS - PORTUGAL

Precision Engineered

Architecturally Refined

KR are a fabricator, installer and distributor of advanced aluminium window, door, shade and façade systems.

Specialising in high quality European systems, we work closely with our partners, clients, award-winning construction companies and architects to deliver bespoke solutions for some of Australia's most technically advanced, architecturally striking commercial buildings and luxury homes.

As Sosoares' exclusive Australian partner, KR provides their full range of systems, including their elegant, super-minimal aluminium OS-D window and door system.



PORTET HOUSE · ARQ. DALIA ALBA · PHOTO JAVIER BRIONES · ALICANTE, SPAIN

KR Installations — one partner, one exacting standard for every scale of project. Australia wide.

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Sosoares

Aluminium and glass systems for architecture since 1979

Introduction

Sosoares began in 1979 with the founding of "Sosoares — Máquinas e Ferragens, Lda.". Since then it has grown steadily and today comprises four companies working in a complementary way across the design, development, production and sale of aluminium and glass window and door systems for architecture.

Through an integrated approach, the Group aims to meet the technical and aesthetic demands of contemporary developments, offering innovative solutions that keep pace with modern architecture — an architecture strongly oriented towards transparency and visual lightness.

It stands out as the first national group to bring together, within a single transformation and distribution process, the two fundamental materials in fenestration — aluminium and glass — delivering a complete and efficient response to the needs of designers and architects.

Sustainability Policy

If we consider that aluminium is a metal with properties that give it high versatility and that, at the same time, allow it to be fully and continuously reused, then we can confidently say that we work with a green material as the basis of our solutions.

At Sosoares, sustainability is a principle that runs across every area of activity. From production and development through to product communication and administrative management, we promote and instil best environmental practice in every team, with the aim of minimising the negative impacts of our activities and reducing our ecological footprint. Among the various principles adopted, the following stand out:

PRINCIPLES ADOPTED

- Personalised, hands-on technical support for designers, recognising that every project is unique and requires specific solutions. We therefore advise on the most appropriate window and door systems, combining energy efficiency and aesthetics, always in line with the architectural requirements;
- Efficient recycling of aluminium scrap through re-melting processes, promoting the circularity of the material;
- Holding the Single Environmental Permit (TUA), demonstrating our commitment to strict compliance with environmental legislation;
- Use of lead-free powder in the lacquering processes, with reuse of the surplus to reduce waste;
- Priority on digital communication of our products wherever possible, reducing paper consumption and its associated impacts;
- Promotion of internal digital practices, encouraging the use of IT tools for information handling, new-product development and internal communication, printing only when strictly necessary. This commitment aims to reduce energy consumption and CO_2 emissions and to improve waste management;
- Membership of the Class A+ Platform, supporting our clients on matters of energy efficiency and sustainable construction.

Design, extrusion, finishing and glass

Product Design & Development

Sosoares has an in-house Development & Design Office in permanent creative activity, dedicated to conceiving innovative solutions that respond effectively to the technical and aesthetic demands of designers. All the work is built on three fundamental pillars: Innovation, Architecture and Design.

To ensure excellence in implementing the proposed solutions, Sosoares also has a specialist technical team that supports designers through every stage of study and detailing. This close support ensures that the solutions developed are fully tailored to the specifics of each project, contributing to a harmonious, functional and efficient architectural integration.

Aluminium Extrusion

As the result of a solid creative and technical development process, Sosoares has the capability to design and produce dies for the extrusion of aluminium profiles. This competence allows us to develop exclusive, fully bespoke solutions, both for our own projects and for clients seeking made-to-measure profiles not available on the conventional market.

Anodising & Lacquering

The final finish of a profile is essentially the “aesthetic signature” of the designer or end client on the project. Whether through thermosetting paint (lacquering) or through an electrolytic process that forms a protective film (anodising), the Sosoares Group offers a broad and sophisticated colour range, enabling solutions that combine personality, durability and elegance.

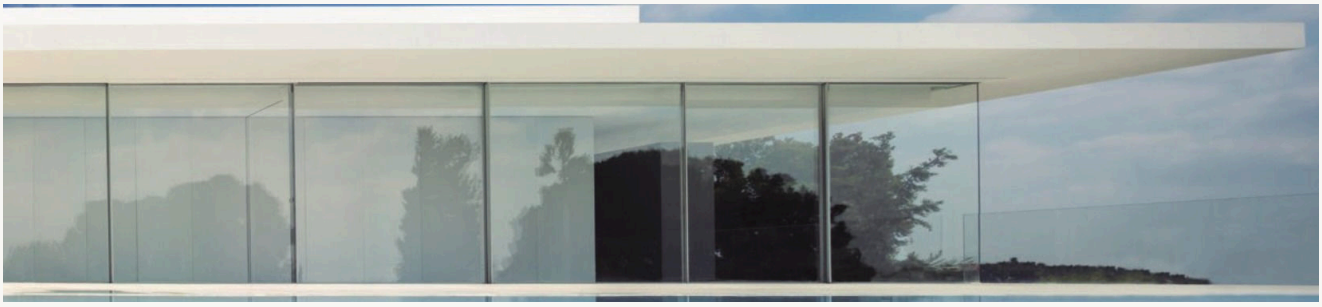
All finishes are certified to the most demanding quality standards — in particular by the Qualanod and Qualicoat Seaside bodies — guaranteeing resistance, technical performance and aesthetic excellence, even in highly aggressive environments.

Glass Processing

Complementing its window and door systems, Sosoares has a glass-processing unit equipped with state-of-the-art technology, capable of producing every type of glass available on the market.

Among the many solutions offered, the following stand out: laminated glass with thermal and acoustic control, safety glass, toughened glass, toughened glass with HST, as well as decorative glass with vitrified digital printing, among other bespoke options that meet the most demanding technical and aesthetic needs of contemporary architecture.

Certifications: Qualanod, Qualicoat Seaside · Licences 1406/1411, Licence No. 808, Licence No. 817



CASA HOFFMAN · ARQ. FRAN SILVESTRE · PHOTO FERNANDO GUERRA · VALENCIA, SPAIN

Sustainability

A Focus on Sustainability and Innovation

Sustainability is a principle that runs across every area and company within Sosoares. We promote best environmental practice at every stage, from product development through to administrative management, with the aim of minimising the negative impacts of our activity and reducing our ecological footprint.

KEY SUSTAINABLE PRACTICES

- Personalised technical support, with solutions tailored to each project, combining aesthetics and energy efficiency, always in line with the architectural requirements;
- Careful supplier selection, favouring those who share our sustainability values;
- Recycling of aluminium scrap through re-melting processes, promoting the circularity of the material;
- Recycling of glass waste, in partnership with certified bodies;
- Use of lead-free lacquering powder, with reuse of the surplus, reducing waste;
- International certifications: Qualicoat (lacquering) and Qualanod (anodising), ensuring compliance with the most demanding standards;
- Single Environmental Permit (TUA), evidencing strict compliance with environmental legislation;
- Commitment to digital communication, reducing paper consumption and its associated impacts;
- Promotion of internal digital practices, encouraging efficient use of IT tools and minimising printing;
- Membership of the Class A+ Platform, supporting our clients on sustainable-construction and energy-efficiency projects.

On the basis of these principles, and given that aluminium is a 100% recyclable, versatile and durable material, we can confidently state that our solutions are built on a genuinely green material.

Energy sources and self-consumption

ENVIRONMENT

Energy Sources

In 2023 we launched a new Energy Rationalisation Plan running to 2030, with the goal of reducing

495 t CO_2/yr

in emissions from electricity and natural-gas consumption.

ON-SITE GENERATION

Self-Consumption Production Units

Energy Produced

1,282 MWh

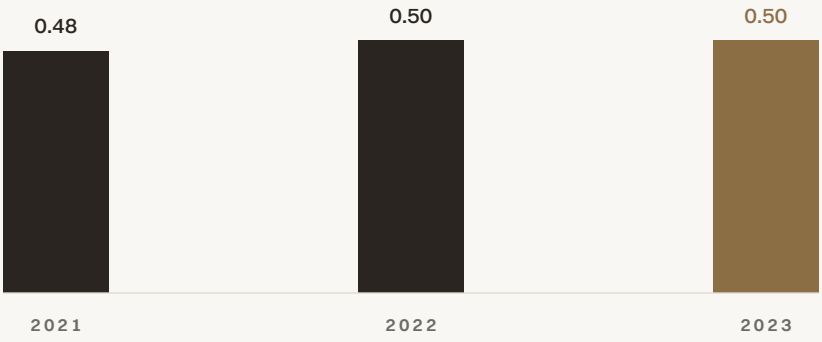
Emissions Avoided

235 t CO_2

Equivalent Absorption

11K

CO_2e per tonne of aluminium produced has held flat at 0.50 t since 2022.



TONNES CO2E PER TONNE OF ALUMINIUM · SOURCE: SOSOARES

Greenhouse Gases

We believe that companies play a central, pioneering role in minimising and mitigating the impacts of climate change.

The carbon-footprint quantification was carried out using the methodology established by the international standard ISO 14064-1:2018, in line with the principles and requirements of the GHG Protocol.

In this context, the circular economy takes on a strategic role in the extrusion industry, allowing a significant reduction in the consumption of natural resources and in the emissions associated with production.

Committed to this principle, Sosoares has been strengthening its circularity practices, promoting the reuse of materials, the incorporation of recycled aluminium into production processes, and the recovery of waste across the entire value chain.

15%	of the aluminium used in the extrusion of our profiles is green
40%	is recycled
98%	of the waste generated is recovered, directly contributing to reduced use of natural resources

As the result of a solid creative and technical process, Sosoares has the capability to design and produce dies for the extrusion of aluminium profiles. This competence allows us to develop exclusive, fully bespoke solutions, both for our own systems and for clients seeking specific profiles not available on the conventional market.

Aware of the impact of our industrial activity and of the raw materials used in the processes, we operate an aluminium re-melting unit that ensures the recycling of scrap from post-consumer processes.

The production of aluminium alloys is highly energy-intensive, especially when based on primary extraction. Recycling, in turn, uses only about 5% of the energy needed to produce virgin aluminium. Being 100% recyclable and infinitely reusable without loss of quality, aluminium stands out as an outstanding raw material in the context of industrial sustainability.

CERTIFIED FINISHES

QUALITY LABEL · INTERNATIONAL · Qualanod · FOR ANODISING · ARCHITECTURE

QUALICOAT

QUALICOAT SEASIDE

CERTIFICATIONS: QUALANOD, QUALICOAT SEASIDE · LICENCES 1406/1411, LICENCE NO. 808, LICENCE NO. 817

OS

Minimalist Thermal-Break Sliding System

Developed specifically for large openings, the OS minimalist thermal-break sliding system answers the new architectural trends that favour maximum transparency with the least possible visual interference from the aluminium structure.

Available in the OS-D+, OS-D+ Concealed Sill and OS-D+ Pass-through Sill versions, this system offers versatile, elegant solutions for a range of applications.

Compatible with motorised opening, the OS system allows the creation of wide openings, significantly increasing the glazed surface and maximising natural light within the spaces.

OUR MINIMALIST SLIDING SOLUTION IS AVAILABLE IN THREE VARIANTS:

- OS — Simple
- OS — Double+
- OS — Triple

OS-D+ HURRICANE RATED

Florida Product Approval FL47923 (HVHZ)

Approved for Florida's High-Velocity Hurricane Zone in impact (large-missile) and non-impact versions, to TAS 201/202/203. ±1.92 kPa design pressure, proof-tested to ±2.87 kPa. Applies to approved 2-track sizes.

Whether with a visible aluminium sill or one fully recessed into the floor, the system ensures optimised accessibility, easing circulation — including for people with reduced mobility.

Note: for other dimensions, please consult the Technical Department.

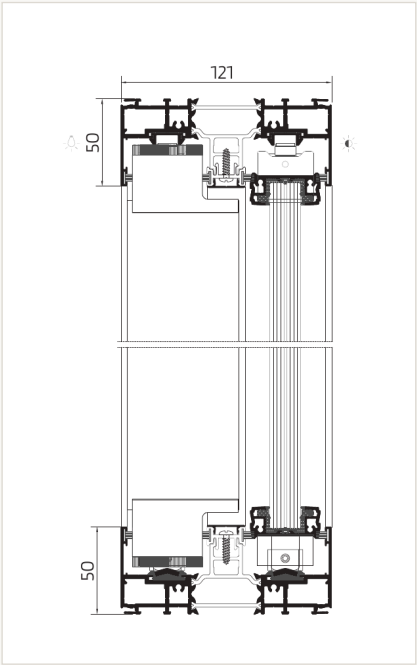


CASA SANTA POLA · ARQ. FRAN SILVESTRE · PHOTO FERNANDO GUERRA

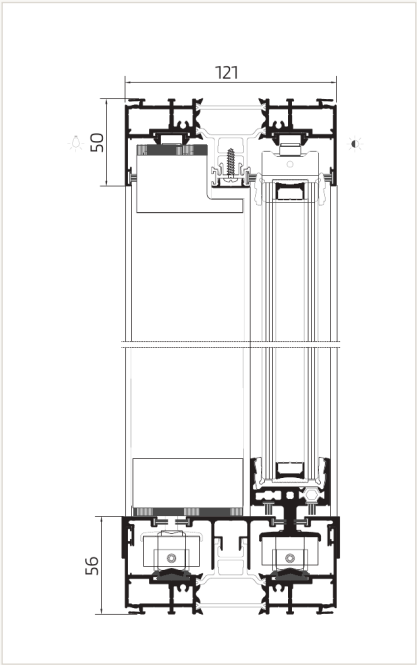
OS — Cross-sections

Minimalist thermal-break sliding system

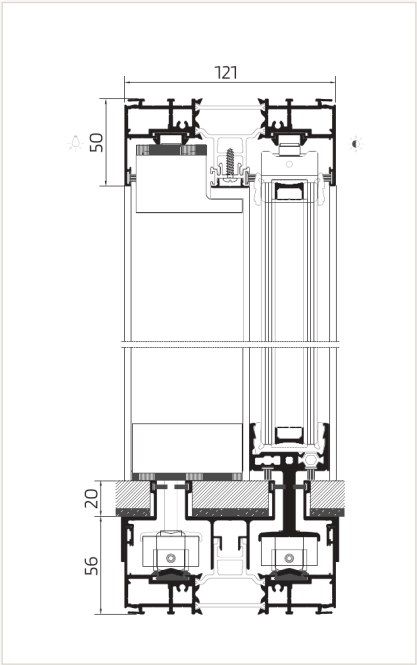
OS — SIMPLE



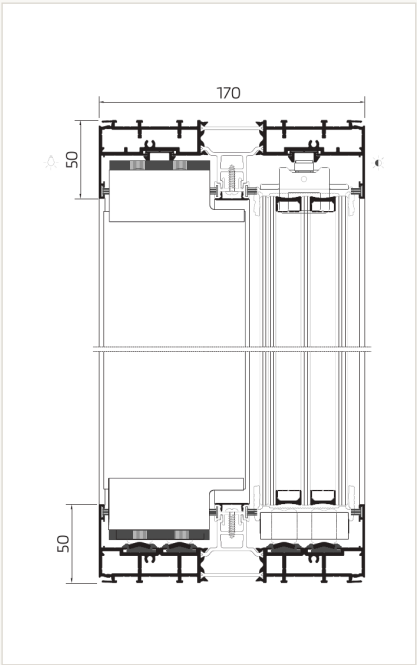
OS — DOUBLE+



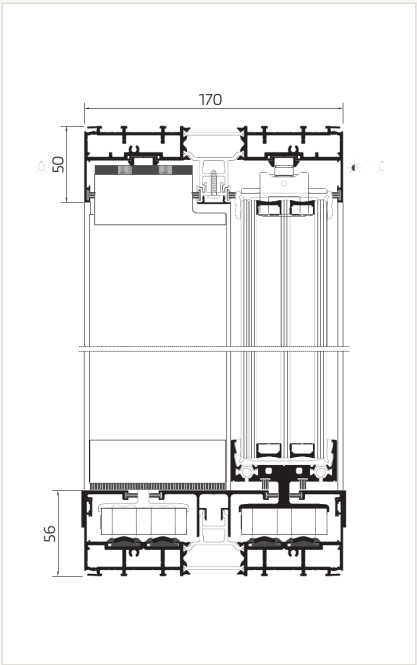
OS — DOUBLE+ (SILL)



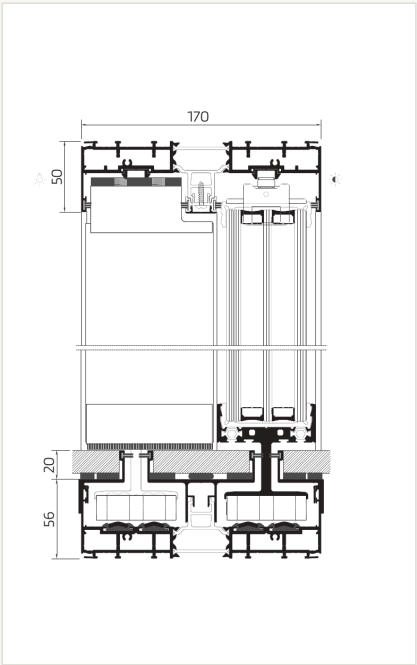
OS — TRIPLE



OS — TRIPLE (JAMB)



OS — TRIPLE (SILL)



Cross-sections shown at indicative scale; dimensions in millimetres. Sightlines vary with sill type — standard, concealed or pass-through.

OS — Characteristics

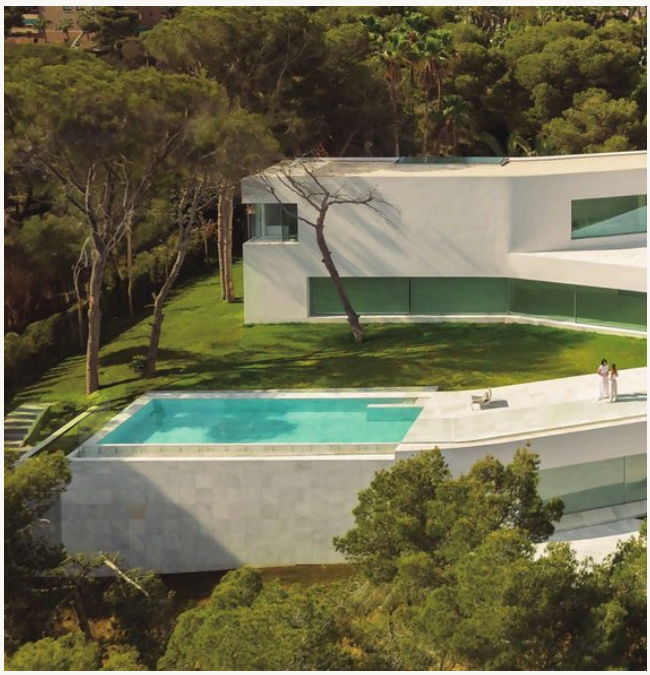
	OS-SIMPLE	OS-DOUBLE+	OS-TRIPLE
Maximum area per sash	8.00 m²	8.00 m²	14.00 m²
Maximum weight per sash	500 kg	500 kg	1,000 kg
Maximum height per sash	4,000 mm	4,000 mm	6,000 mm
Infill (glazing)	10 / 12 / 16 mm	32 / 35 mm	42 / 56 mm (toughened glass)
Test	CXL 123/19 — ITeCons	CXL 123/19 — ITeCons	—
Air permeability	4	4	—
Watertightness	7A	7A	—
Wind-load resistance	B3	B3	—
Thermal transmittance ISO 10077-1:2017 | 10077-2:2017	—	Uw = 1.48 W/m²K Ug = 1.0 W/m²K	Uw = 1.10 W/m²K Ug = 0.6 W/m²K
Acoustic insulation (Test ACL 166-19 — ITeCons)	—	Rw = 39 dB (-1;-3;-1;-3) Rg = 42 dB (-1;5)	—

Note: for other dimensions, please consult the Technical Department.

TYPOLOGIES & OPTIONS

Typologies: OS-D+ available in 1-rail, 2-rail, 3-rail and 4-rail configurations, manual or motorised. OS-D+ is offered with a standard sill, a concealed sill or a pass-through sill. Motorisation is optional — see the Motorisation Catalogue. An integrated Sosoares insect screen is also available: it unrolls vertically together with the sash, releasing automatically at a set opening and retracting discreetly until fully recessed into the reveal, allowing free air circulation without external interference.





CASA SABATER · ARQ. FRAN SILVESTRE · PHOTO FERNANDO GUERRA · SPAIN

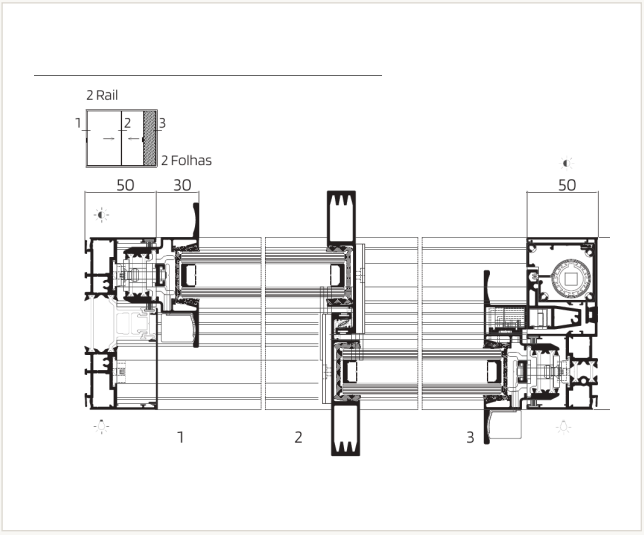
OS — Integrated insect screen

Vertical unrolling screen, recessed into the reveal

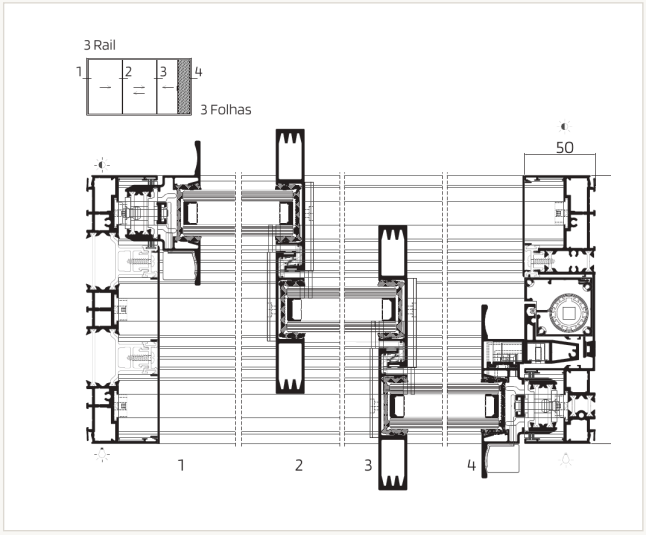
INSTALLED DETAIL



2-RAIL — 2 SASHES



3-RAIL — 3 SASHES



The screen unrolls vertically with the sash, releases automatically at a set opening and retracts until fully recessed into the reveal.

OS-P

Minimalist Thermal-Break Pivot System

Aligned with the concept of minimalist openings in architecture and focused on meeting the expectations of the most demanding clients, Sosoares has developed the Minimalist Pivot system, conceived to complement the OS sliding range.

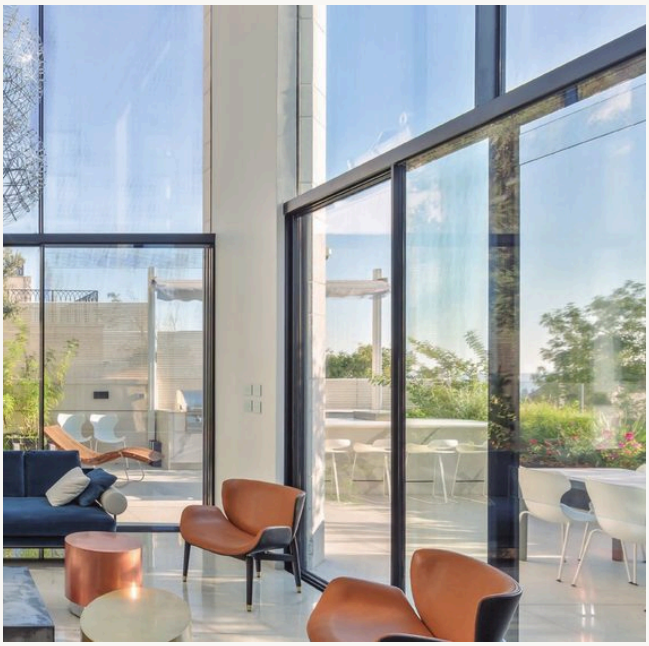
This solution gives buildings a cohesive architectural language in their fenestration. Designed specifically for large openings, the new system supports sashes of up to 500 kg — or 650 kg when motorised — combining design, functionality and robustness.

CHARACTERISTICS

	OS-PIVOT
Maximum weight per sash	500 kg | 650 kg (motorised)
Maximum width per sash	1,500 mm
Infill (glazing)	21 / 42 / 56 mm double or triple glazing
Thermal transmittance (triple glazing)	Uw = 1.24 W/m²K / Ug = 0.5 W/m²K
Thermal transmittance (double glazing)	Uw = 1.75 W/m²K / Ug = 1.10 W/m²K
Standards	ISO 10077-1:2017 | ISO 10077-2:2017

Note: for other dimensions, please consult the Technical Department.

Minimum jamb: 200 mm (without reinforcement); 350 mm (with reinforcement). Available manual or motorised (motorisation optional — see the Motorisation Catalogue).





PORTER HOUSE · PHOTO JAVIER BRIONES

OS-P — Sill options and typologies

Minimalist thermal-break pivot system

STANDARD SILL



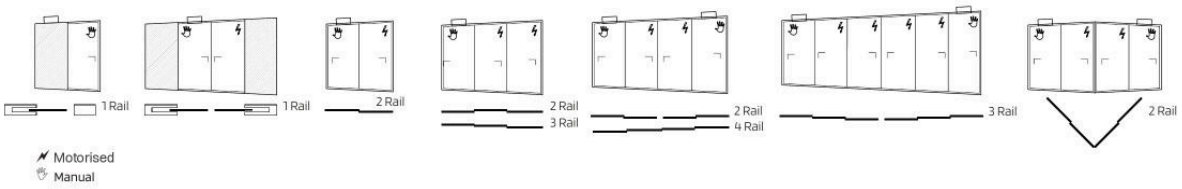
CONCEALED SILL



FLUSH / PASS-THROUGH SILL



TYPOLOGIES — MOTORISED / MANUAL



OS-P — Renders and jamb details

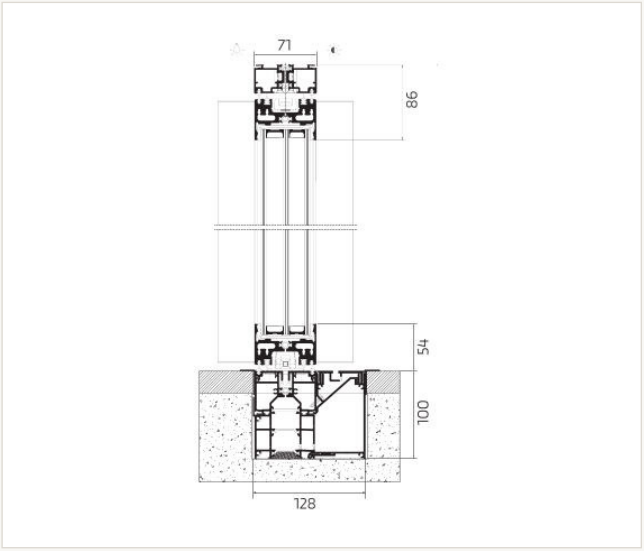
CLOSED



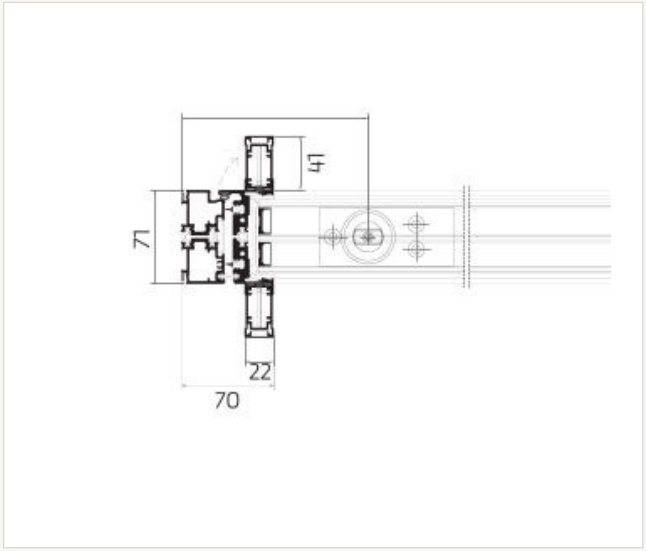
OPEN CORNER



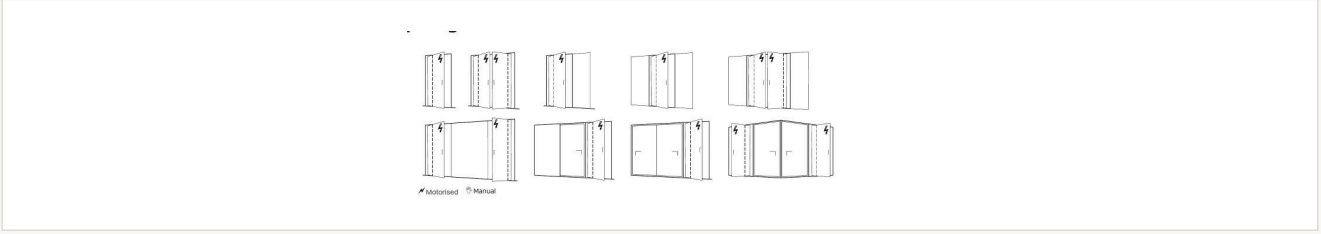
PIVOT JAMB



JAMB DETAIL



TYPOLOGIES



Minimum jamb 200 mm without reinforcement, 350 mm with reinforcement.

OS-G

Minimalist Thermal-Break Sash (Guillotine) System

The guillotine version of the OS minimalist system arrives as a complement to the existing solutions, offering an equally bold opening alternative.

With easy handling and light operation, this minimalist variant stands out as an innovative solution for large openings, maximising outward visibility and functional elegance.

CHARACTERISTICS

	OS-GUILLOTINE
Opening	Manual or motorised
Maximum weight per sash	Consult the Technical Department
Infill (toughened glass)	56 mm
Other typologies	On request

Note: for other dimensions, please consult the Technical Department.

Configurations available in 1-rail, 2-rail and 3-rail arrangements (1, 2 or 3 sashes). Minimum jamb depths from 250 mm to 400 mm depending on configuration.



CASA TRANSPARENTE · PHOTO NOUFAR BOUGANIN

OS-G — Renders and cross-sections

Minimalist thermal-break sash (guillotine) system

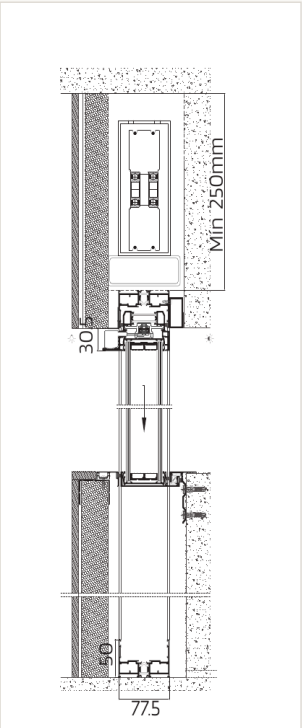
MANUAL



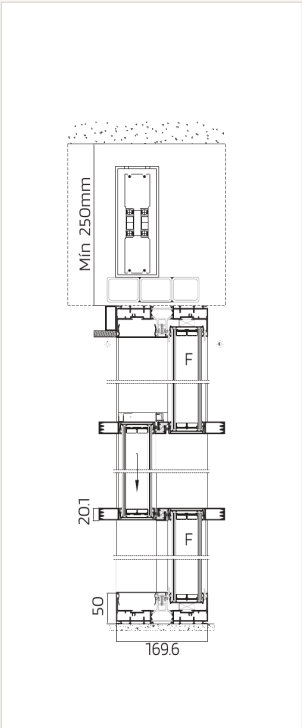
MOTORISED



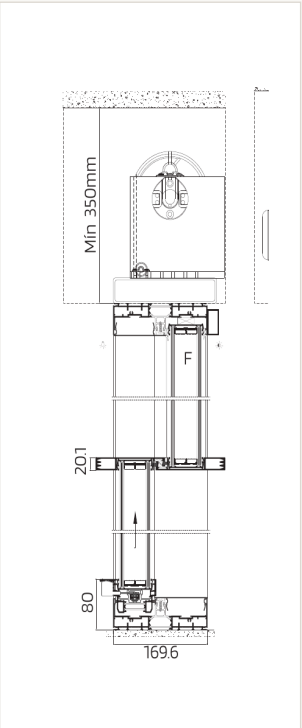
1-RAIL



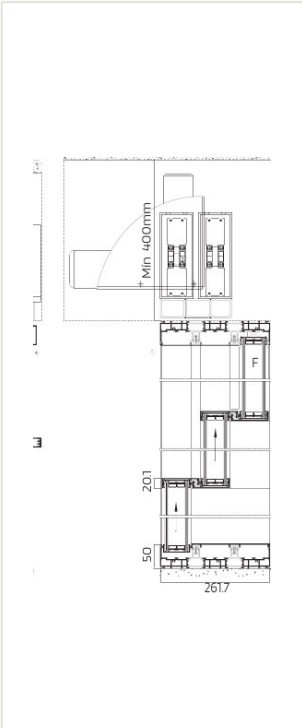
2-RAIL



2-RAIL MOTORISED

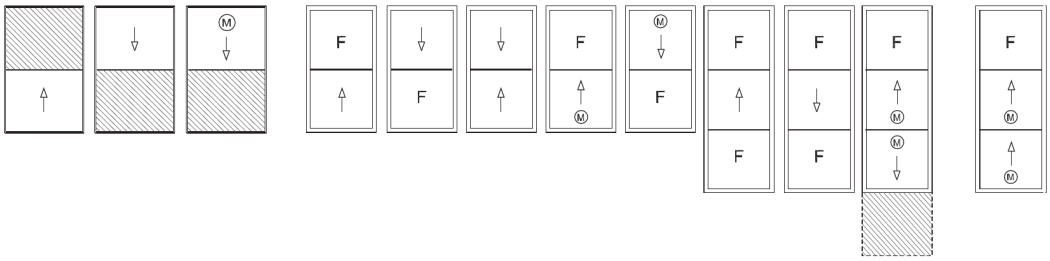


3-RAIL



OS-G — Typologies

TYPOLOGY MATRIX — F FIXED · M MOTORISED



RAIL CONFIGURATIONS — 1, 2 AND 3 SASHES



MANUAL



MOTORISED



Configurations available in 1-rail, 2-rail and 3-rail arrangements (1, 2 or 3 sashes). Minimum jamb depths from 250 mm to 400 mm depending on configuration.

JT

Thermal-Break Sliding System

Versatile, robust and secure, the JT system can be used in large openings and is compatible with configurations of 1 to 8 sashes, in 2-, 3- or 4-rail arrangements, including corner solutions. With clean lines and slim aluminium sightlines, it incorporates a thermal break, aligning with contemporary architectural trends.

The system is now joined by JT-Perimeter, which allows perimeter moving frames, the fitting of lift-and-slide hardware, and the use of glazing beads to secure the glass. The introduction of these new moving frames makes it possible to create lift-and-slide typologies previously unavailable, making the JT system even more complete and adaptable to today's market demands.

Standards: ISO 10077-1:2017 | ISO 10077-2:2017. Variants: JT, JT-Slim, JT-Perimeter. For other dimensions, please consult the Technical Department.



PURO HOMES · ARQ. MÁRIO ALVES · PHOTO IVO TAVARES · AVEIRO, PORTUGAL

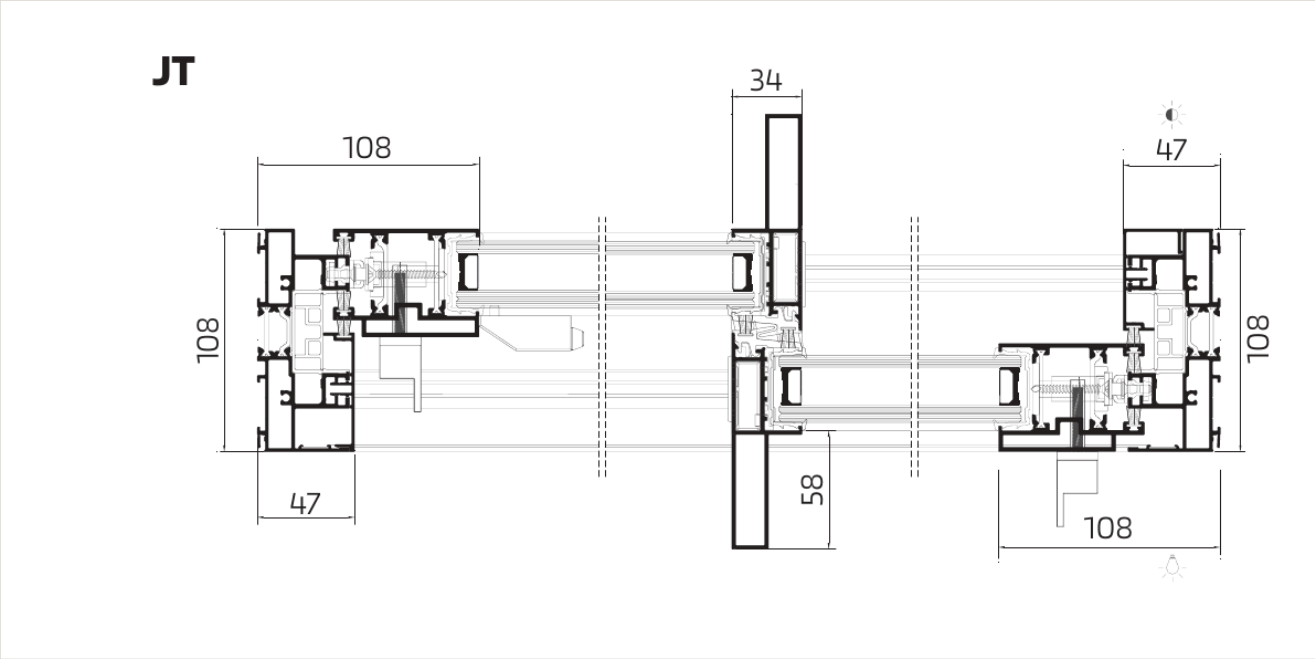


EDIFÍCIO GUL · ARQ. VERÓNICA COVAS · PHOTO JHOMEA INVEST · AVEIRO, PORTUGAL

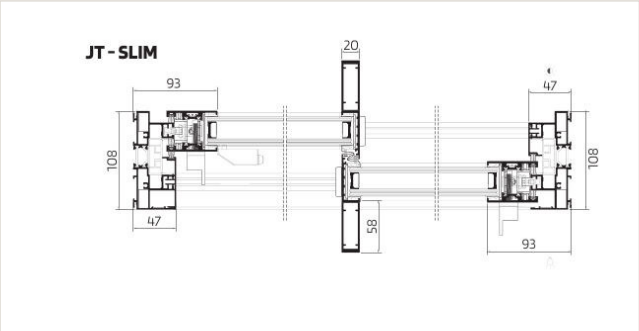
JT — Cross-sections and renders

JT · JT-Slim · JT-Perimeter

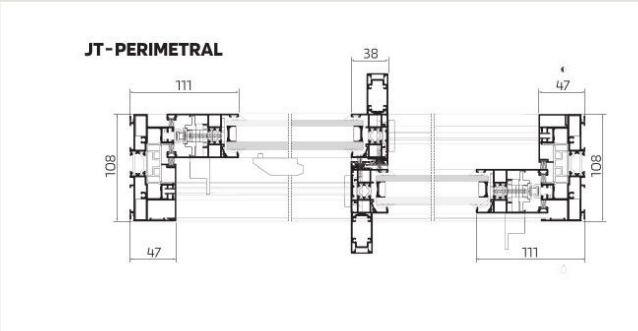
JT CROSS-SECTION



JT-SLIM CROSS-SECTION



JT-PERIMETER CROSS-SECTION



JT



JT-SLIM

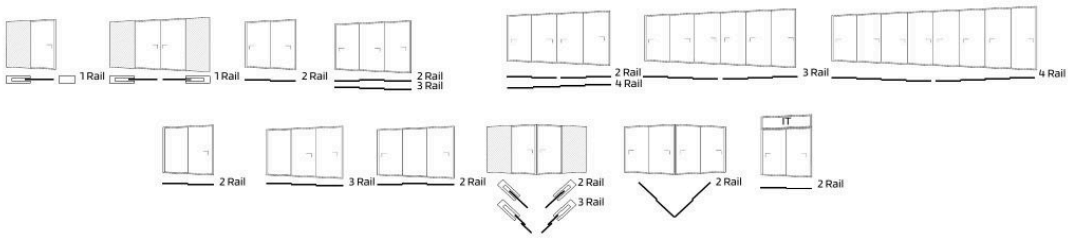


JT-PERIMETER



JT — Typologies

TYPOLOGIES — 1 TO 8 SASHES, 2, 3 AND 4-RAIL



JT — Characteristics

	JT	JT-SLIM	JT-PERIMETER
Maximum area per sash	4.50 m²	4.50 m²	5.00 m²
Maximum weight per sash	280 kg	290 kg	280 kg (multi-point) / 300 kg (lift-slide)
Maximum height per sash	3,000 mm	3,000 mm	3,000 mm
Maximum width per sash	2,000 mm	2,000 mm	2,000 mm
Infill (glazing)	28–34 mm (moving) / 28–37 mm (fixed)	28–34 mm	24–35 mm
Test	CXL 121/22 — ITeCons	CXL 094/23 — ITeCons	CXL 071/24 — ITeCons
Air permeability	4	4	4
Watertightness	7A	7A	7A
Wind-load resistance	C3	C3	B4
Thermal transmittance (triple glazing)	Uw = 1.37 / Ug = 0.8 W/m²K	Uw = 1.34 / Ug = 0.8 W/m²K	Uw = 1.51 / Ug = 0.8 W/m²K
Thermal transmittance (double glazing)	Uw = 1.46 / Ug = 1.00 W/m²K	Uw = 1.44 / Ug = 1.00 W/m²K	Uw = 1.59 / Ug = 1.00 W/m²K
Acoustic insulation (Test ACL 055/21 — ITeCons)	Rw = 37 dB (-1;-2;0;-2) Rg = 47 dB (-2;-7)	—	—

Standards: ISO 10077-1:2017 | ISO 10077-2:2017. Variants: JT, JT-Slim, JT-Perimeter. For other dimensions, please consult the Technical Department.

Corner solutions available. Lift-and-slide hardware and glazing beads available on JT-Perimeter.

JE

Straight Perimeter Thermal-Break System

This system is the ideal solution for contemporary, bold architecture that values massing to span large openings.

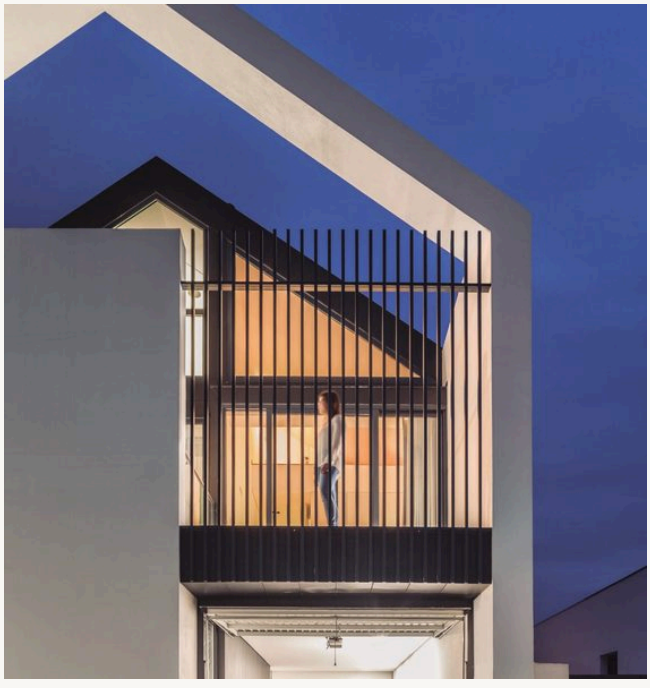
It is a sliding system with optimised thermal break — 24 mm polyamides in the fixed frame and 16 mm in the moving frame — developed to suit both new-build projects and refurbishment work.

CHARACTERISTICS

	JE
Maximum area per sash	5.00 m²
Maximum weight per sash	250 kg (multi-point) | 300 kg (lift-slide)
Maximum height per sash	2,800 mm
Infill (glazing)	24–35 mm
Test	01/12 — LNEC/LEC
Air permeability	4
Watertightness	6A
Wind-load resistance	B2
Thermal transmittance (Test CSTB DBV21-02531)	Uw = 2.10 W/m²K (NF EN ISO 10077-1) | Ug = 1.00 W/m²K

Configurations available in 1-, 2- and 3-rail arrangements. For other dimensions, please consult the Technical Department.





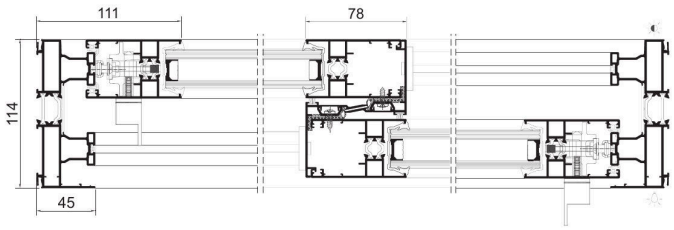
EDIFÍCIO ONDAS · PORTUGAL

JE — Cross-sections, renders and typologies

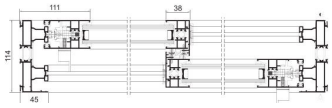
Straight perimeter thermal-break system

CROSS-SECTION — HEAD, JAMB AND SILL





MEETING-STILE DETAIL



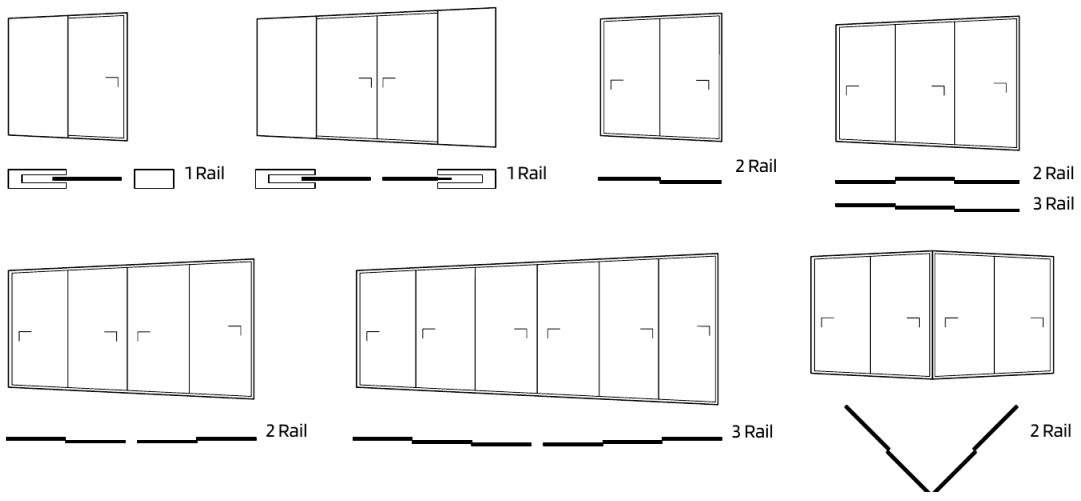
FRAME RENDER



SILL RENDER



TYPOLOGIES — 1, 2 AND 3-RAIL



ST | ST-Steel

71 mm & 78 mm Thermal-Break Casement System

The ST system was developed to deliver a high level of comfort. Its combination of thermally optimised profiles with selective double or triple glazing ensures excellent thermal and acoustic insulation performance, meeting the most demanding standards of sustainable construction.

The ST family is now joined by the ST-Steel version, conceived to recreate the distinctive design of steel windows in aluminium.

CHARACTERISTICS

	ST	ST-CONCEALED	ST-STEEL
Maximum weight per sash	70–180 kg (by typology)	—	130–180 kg (by typology)
Infill (glazing)	18–54 mm	28–32 mm	18–54 mm
AEV test	CLX 062/15 — ITeCons	—	—
Air permeability	4	—	—
Watertightness	E1350	—	—
Wind-load resistance	C5	—	—
Thermal transmittance — triple glazing	Uw = 0.96 / Ug = 0.50 W/m²K	—	Uw = 0.97 / Ug = 0.50 W/m²K
Thermal transmittance — double glazing	Uw = 1.35 / Ug = 1.00 W/m²K	—	Uw = 1.36 / Ug = 1.00 W/m²K
Acoustic insulation	Rw = 45 dB (-1;-4;0;-4) Rg = 49 dB (-2;-6) (ACL 358/20 — ITeCons)	Rw = 42 dB (-2;-5;-1;-5) Rg = 43 dB (-2;-5) (ACL 168/22 — ITeCons)	—

Standards: ISO 10077-1:2017 | ISO 10077-2:2017. Variants: ST, ST-Concealed, ST-Steel. For other dimensions, please consult the Technical Department.



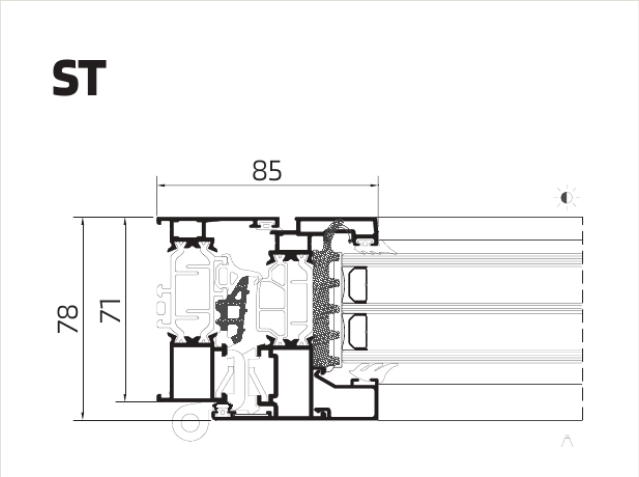


SKY PROJECT · PHOTO SHAUN FISHER

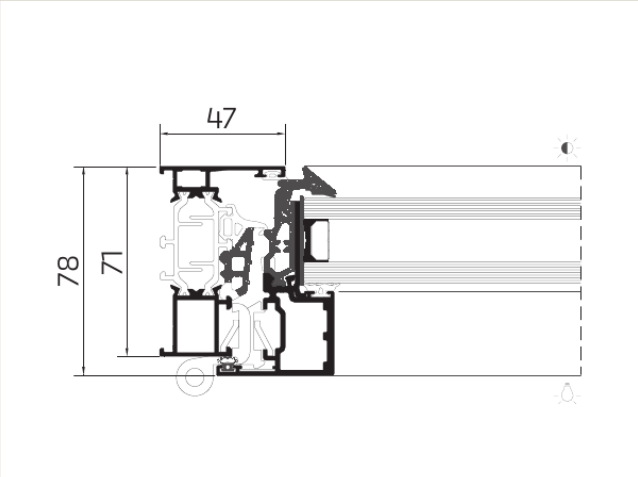
ST — Cross-sections

ST · ST-Concealed · ST-Steel

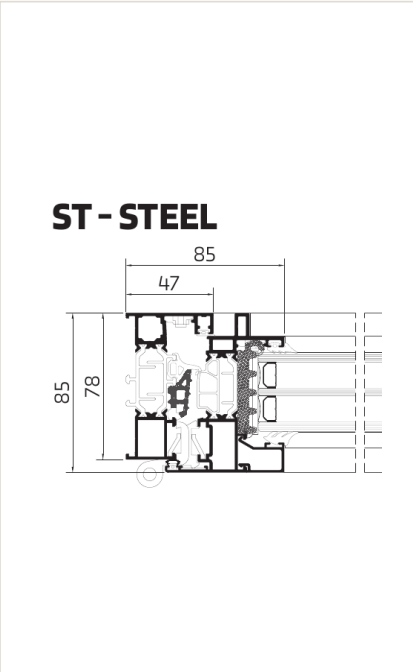
ST — STANDARD



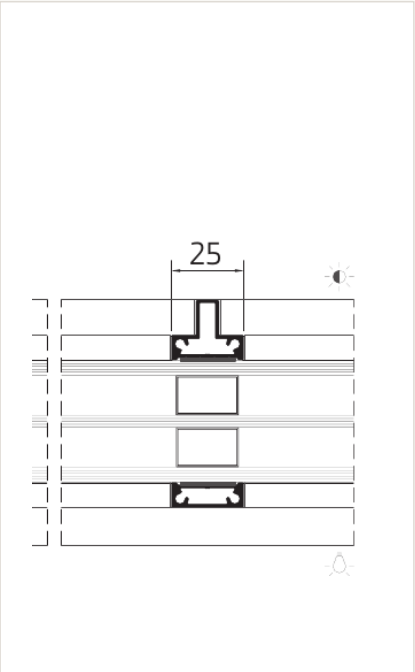
ST-CONCEALED



ST-STEEL



ST-STEEL — MEETING STILE



EXTRUSION DETAIL



ST — Renders and typologies

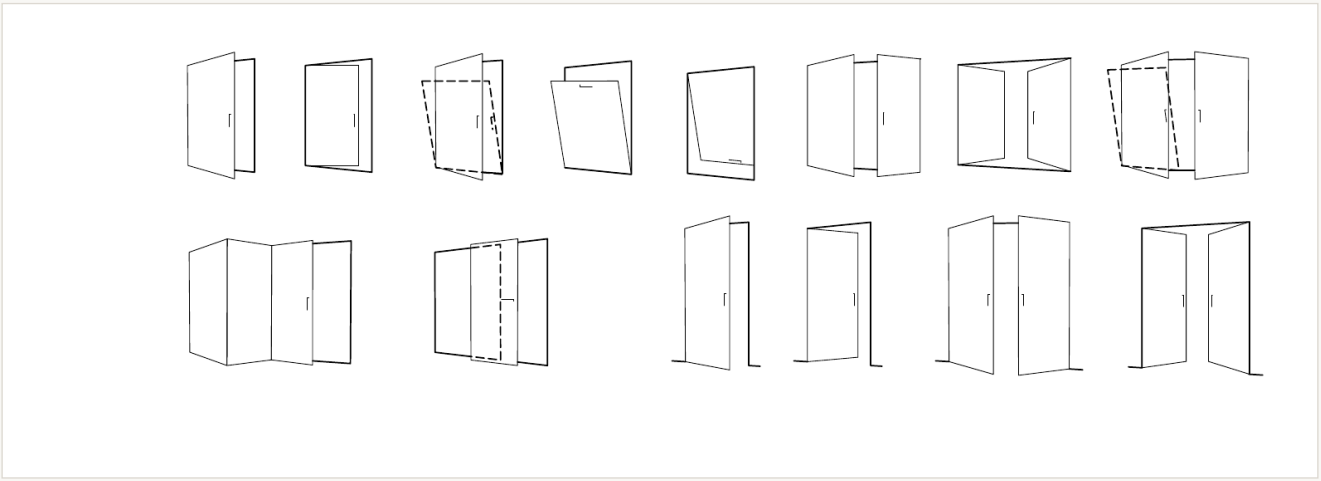
FRAME RENDER



CONCEALED-SASH RENDER



TYPOLOGIES



LT

67 mm Thermal-Break Casement System

The LT system was developed to meet the demands of high thermal and acoustic comfort, combining performance, efficiency and aesthetics.

With robust yet elegant profiles, this system stands out for its compatibility with selective triple glazing, delivering superior thermal and acoustic insulation even in highly demanding climatic contexts.

Its design allows use in large openings while ensuring maximum natural-light entry and high air and water tightness. Ideal for residential or commercial projects that prioritise comfort and energy efficiency, the LT system adapts easily to different construction typologies, providing versatile and technically advanced solutions.

CHARACTERISTICS

	LT	LT-CONCEALED	LT-LIGHTFRAME
Maximum area per sash	2.60 m²	2.60 m²	2.60 m²
Maximum weight per sash	70–180 kg (by typology)	70–180 kg	70–180 kg
Infill (glazing)	14–50 mm	28 mm*	—
AEV test	CXL 027/25 — ITeCons	—	CXL 026/23 — ITeCons**
Air permeability	4	—	4
Watertightness	E1950	—	4A
Wind-load resistance	C5	—	C5
Thermal transmittance — double glazing	LT 85 Uw = 1.60 / Ug = 1.00 W/m²K LT 88 Uw = 1.70 / Ug = 1.00 W/m²K	—	—
Thermal transmittance — triple glazing	LT 85 Uw = 1.30 / Ug = 0.60 W/m²K LT 88 Uw = 1.30 / Ug = 0.60 W/m²K	—	—
Acoustic insulation (ACL 194/19 — ITeCons)	—	—	Rw = 40 dB (-1;-5;0;-5) Rg = 41 dB (-2;-6)

*Standards: NF EN ISO 10077-1. * 28 mm glazing recommended for areas over 1.20 m². ** AEV test "opening with a trafficable/threshold-free sill". For other dimensions, please consult the Technical Department.*

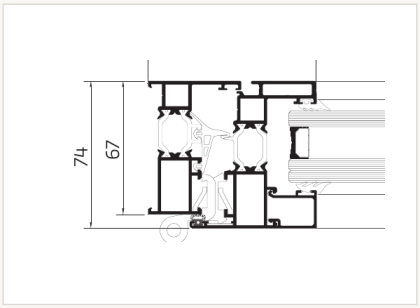


CASA EM OVAR · ARQ. NELSON RESENDE · PHOTO JOÃO MORGADO · OVAR, PORTUGAL

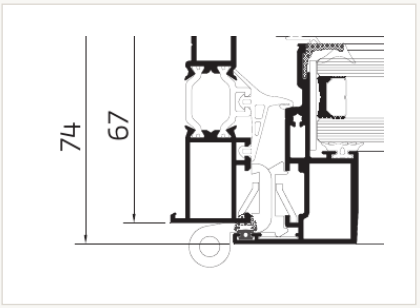
LT — Cross-sections, renders and typologies

LT · LT-Concealed · LT-LightFrame

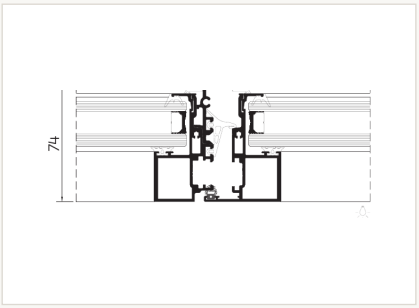
LT — STANDARD



LT-CONCEALED



LT-LIGHTFRAME



FRAME RENDER



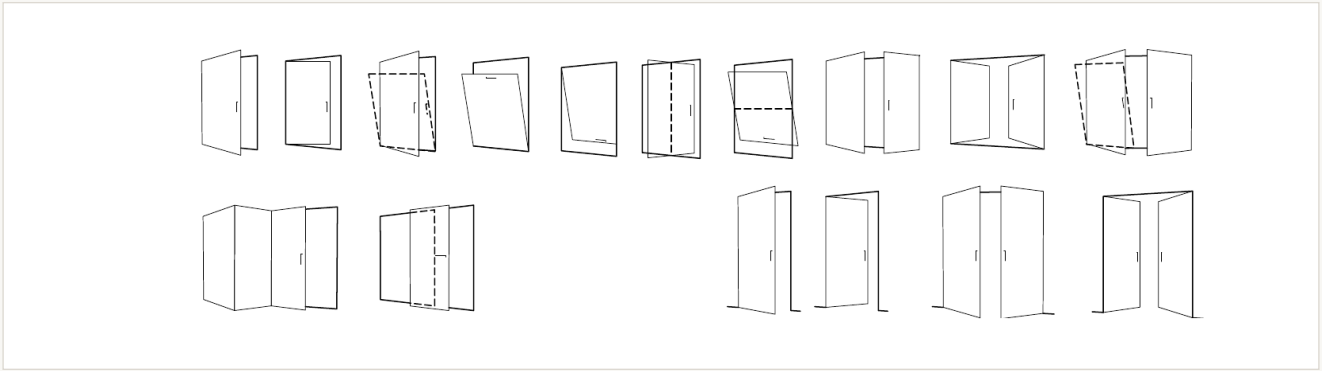
CONCEALED SASH



LIGHT FRAME



TYPOLOGIES



HT

Thermal-Break Bi-Folding System

The HT bi-folding system stands out for its excellent thermal performance and high potential for use in large openings, where maximum opening and an unobstructed view are prized.

Designed for configurations of between 2 and 7 leaves, it adapts with versatility to different architectural demands, combining structural robustness with easy, intuitive operation.

CHARACTERISTICS

	HT
Maximum weight per leaf	100 kg / 120 kg
Infill (glazing)	14–50 mm
Openings	2 to 7 leaves
Test	CLX 07522/22 — ITeCons
Air permeability	4
Watertightness	7A
Wind-load resistance	B1

For other dimensions, please consult the Technical Department.





BI-FOLDING DOORS · INSTALLED DETAIL

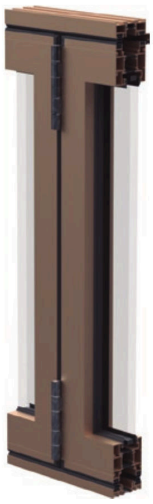
HT — Renders, plan section and typologies

Thermal-break bi-folding system

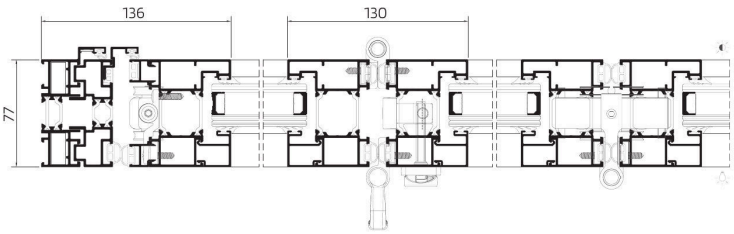
LEAF RENDER



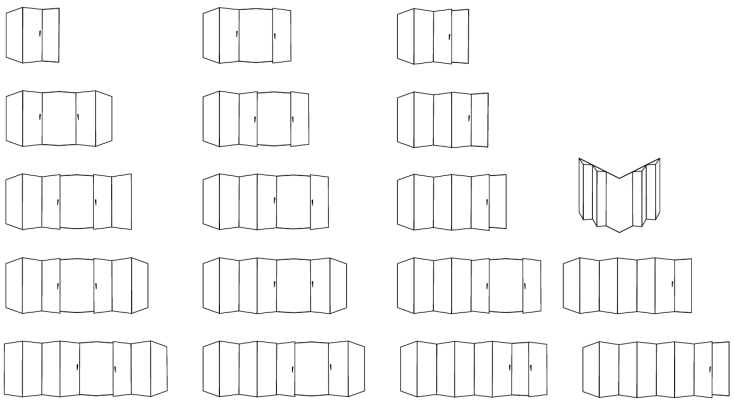
HINGE DETAIL



PLAN CROSS-SECTION



TYPOLOGIES — 2 TO 7 LEAVES



FC

Façade System

A highly versatile, functional system developed to meet the most demanding architectural solutions. With high structural reliability, it offers different aesthetic variants tailored to market needs.

VARIANTS

- **FC Structural** A variant that showcases the system's robustness through pronounced external sightlines, incorporating a thermal break for improved thermal performance.
- **FC Horizon** A solution that emphasises the horizontality of the façade, lending elegance and a more pronounced architectural reading.
- **FC Semi-Concealed** While retaining high structural capacity, it presents a slender image with an external sightline under 20 mm of profile. Available with an optional thermal break.
- **FC Concealed** A solution that prioritises glass transparency by concealing the external profiles, creating a continuous, minimalist aesthetic.
- **FC DEC — Structural glass façade with mechanical fixing** A system of mullions and transoms for fixed glazing or projecting windows. Despite the bonded-glass appearance, the glass is mechanically fixed, ensuring high levels of safety and reliability.



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FC — Corner-detail renders

Structural · Horizon · Semi-Concealed · Concealed · DEC

FC STRUCTURAL



FC HORIZON



FC SEMI-CONCEALED



FC CONCEALED



FC DEC



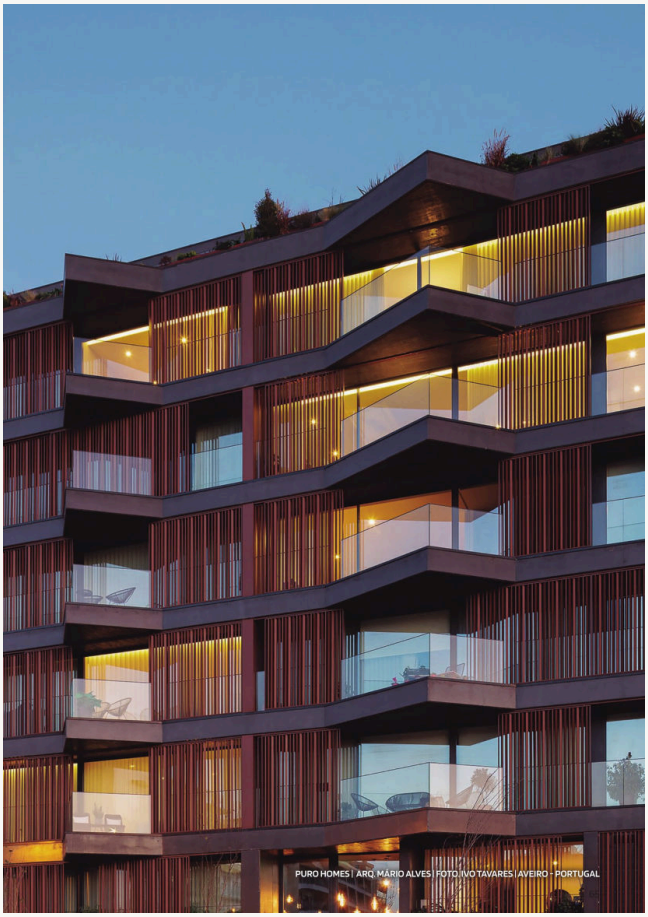
AV

Balustrade System

With subtle, contemporary elegance, the new AV aluminium-and-glass balustrade system is in step with the minimalist trends of modern architecture, where purity of form and transparency play a central role in enhancing spaces.

Simple and versatile in design, this system was developed to meet current architectural demands, combining aesthetics, functionality and high standards of structural safety.

The result is a balanced solution that integrates visual lightness, robustness and technical performance, adapting harmoniously to different architectural contexts.

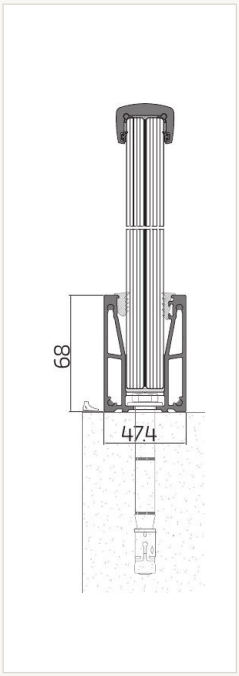


PURO HOMES · ARQ. MÁRIO ALVES · PHOTO IVO TAVARES · AVEIRO, PORTUGAL

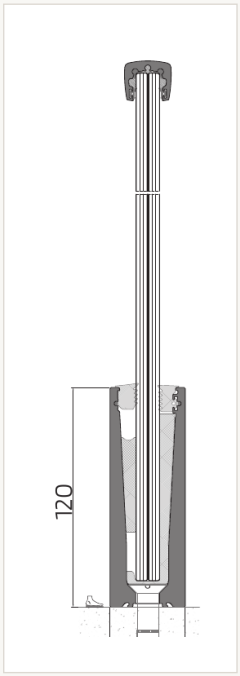
AV — Cross-sections

Aluminium-and-glass balustrade system

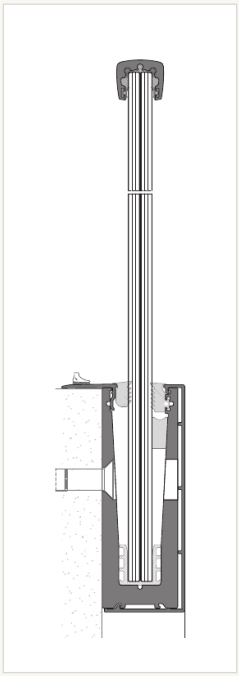
TOP-FIXED



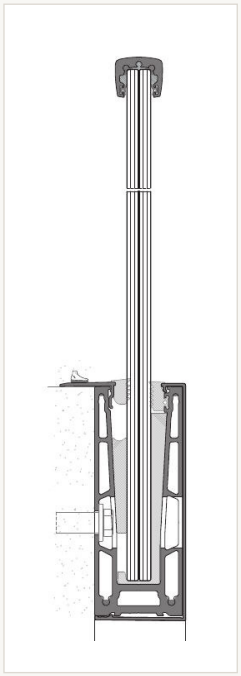
SIDE-FIXED



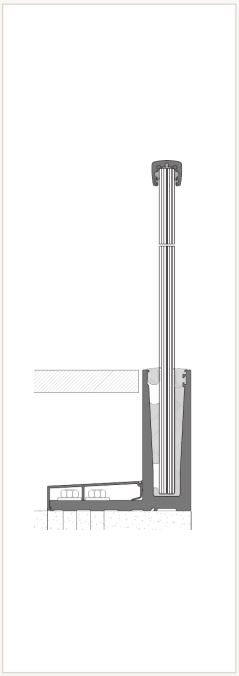
RECESSED



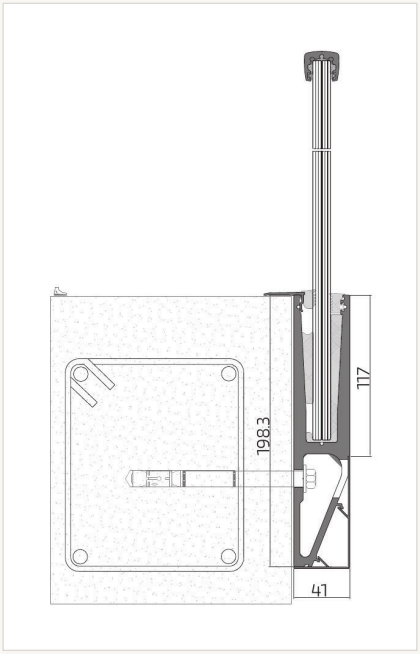
SLAB EDGE



PLAN DETAIL



BASEPLATE AND ANCHOR — PLAN VIEW



Aluminium-and-glass balustrade; sections shown with indicative fixing arrangements. Structural performance to project specification.

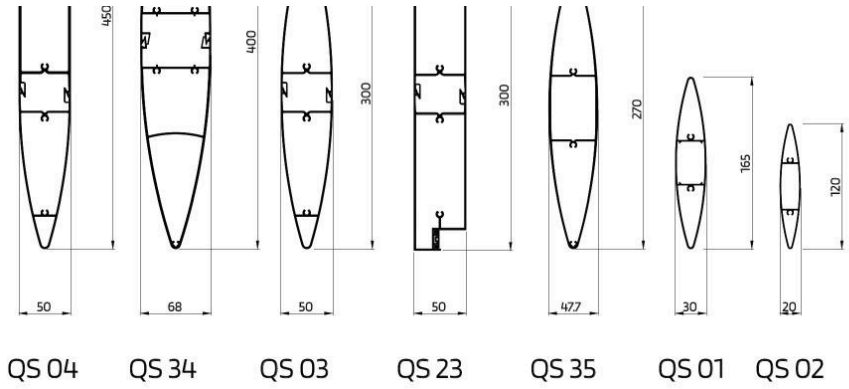
QS

Solar-Shading (Brise-Soleil) Louvre System

The QS system was developed to protect building façades from direct solar radiation, contributing to greater thermal and lighting comfort inside the spaces. With contemporary-design louvres, this system integrates harmoniously into buildings of modern, bold architecture, enhancing the aesthetics of façades and giving them a distinctive image. A functional, elegant solution that combines design, efficiency and comfort.

The QS system allows natural-light entry to be regulated and solar exposure to be controlled, and is available in the following configurations: fixed louvres, moving louvres with manual opening, and moving louvres with motorised opening.

Fixed and moving louvre profiles: QS 04, QS 34, QS 03, QS 23, QS 35, QS 01, QS 02.



QS BRISE-SOLEIL LOUVRE PROFILES · QS 04 · 34 · 03 · 23 · 35 · 01 · 02



EDIFÍCIO HABIT · ARQ. NUNO PEREIRA · PHOTO SILVA RESENDE · AVEIRO, PORTUGAL

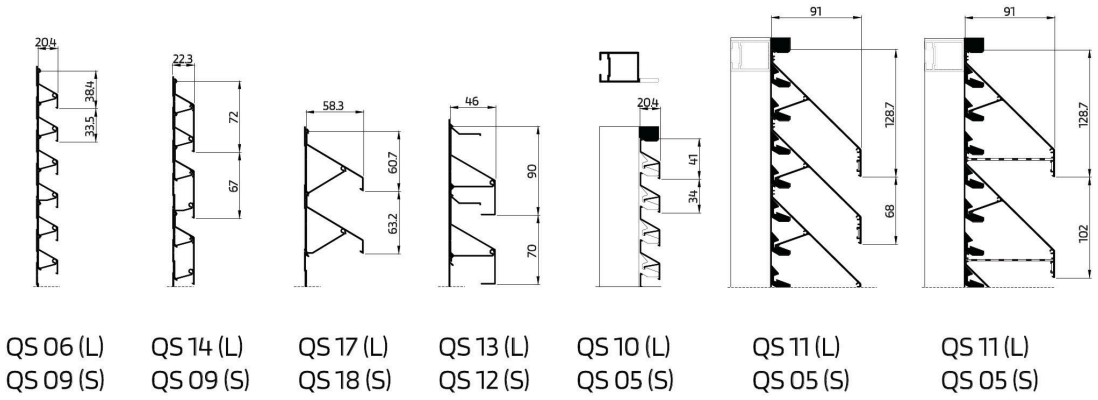
QS

Ventilation Louvre System

This system was developed for façade cladding, allowing the closure of spaces that simultaneously require concealment and natural ventilation.

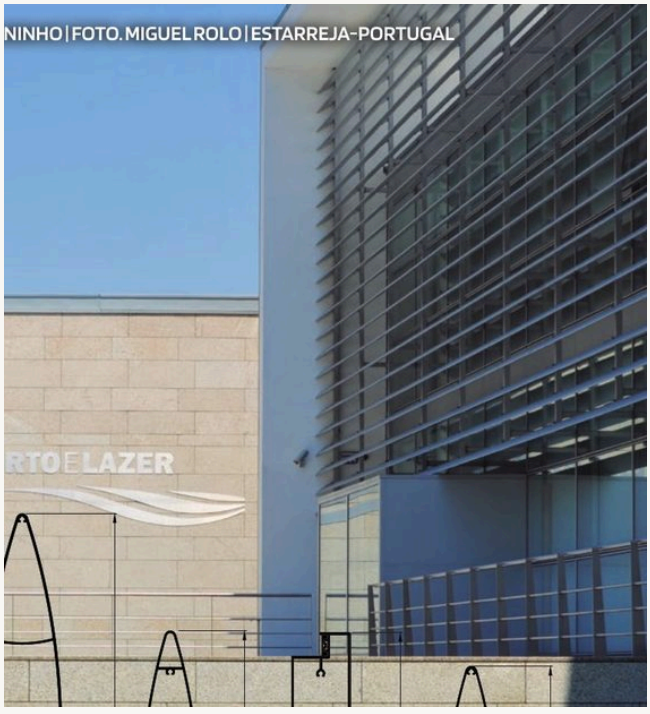
Its functional design ensures discreet, efficient integration into the building's architecture while delivering both performance and aesthetics. It also stands out for its ease and speed of installation, using a clip-fixing system on the support profiles that allows simple assembly and more efficient execution on site.

Louvre profiles (L = large / S = small): QS 06/09, QS 14/09, QS 17/18, QS 13/12, QS 10/05, QS 11/05.



QS VENTILATION LOUVRE PROFILES · L = LARGE · S = SMALL





ISCAA · PHOTO SILVA RESENDE · AVEIRO, PORTUGAL

QS-REV

Decorative Façade Cladding

A versatile façade-cladding system, simple and quick to install. Depending on the cover profile used and the finish chosen — lacquered or anodised — the final result can take on different styles, giving the façade a more traditional appearance or, conversely, a more contemporary and bold one.

This system was developed to ensure full compatibility with composite-panel cladding, opening the way to a wide variety of architectural solutions.

Covers can be applied with a fixing profile or by direct fixing.



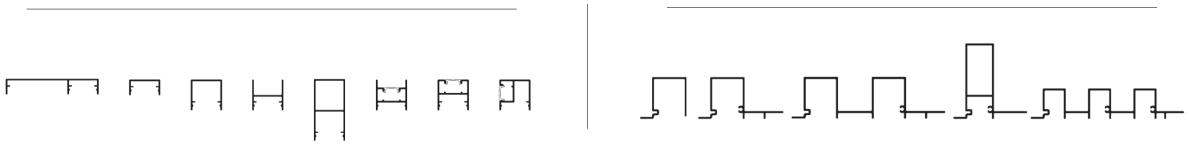
QS-REV · DECORATIVE LOUVRE SCREEN

QS-REV — Cover profiles and fixing detail

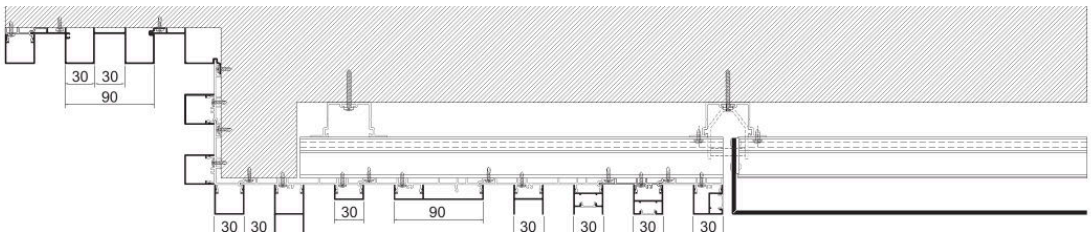
DECORATIVE FAÇADE CLADDING — RENDER



LEFT: COVERS FITTED WITH FIXING PROFILE · RIGHT: COVERS FITTED BY DIRECT FIXING



FIXING-PROFILE CROSS-SECTION (MM)



QS-LP

Projecting Louvre System

The QS-LP system is a projecting-louvre / horizontal-shading-canopy system, made up of mullions and fixed louvres of rectangular section.

Because it is applied in modules, it is a highly versatile system that can be used in openings of great length. It is fixed to the wall using stainless-steel components and may include aluminium tie rods.

Available with a tie-rod solution or without a tie rod.



PISCINAS DE ESTARREJA · ARQ. RUI ROSMANINHO · PHOTO MIGUEL ROLO · ESTARREJA, PORTUGAL

Composite Panel

Aluminium composite panel

The Sosoares composite panel is made up of a thermoplastic-resin core, clad on both faces with aluminium sheet. It offers excellent mechanical properties, standing out for its high performance in acoustic insulation, impact resistance, rigidity and lightness.

Depending on the intended application, the panel is available in standard (PE), fire-retardant (FR) or fire-resistant (A2) versions.

FIXING SYSTEMS

- **System S2** Specially designed for façades with horizontal modulation, this tongue-and-groove fixing system allows faster application, reducing assembly times.
- **System K7** A quick-to-assemble concealed-fixing system in which the panel modulation can be either horizontal or vertical.



COMPOSITE PANEL · ALUMINIUM-CLAD THERMOPLASTIC CORE

OR

Bioclimatic Pergola with Orientable, Retractable Louvres

The OR system is a self-supporting aluminium pergola that allows the fitting of motorised, orientable and retractable louvres. It was conceived to enhance and make the most of outdoor spaces, fully in tune with today's minimalist architectural trends. It presents a design of straight, clean lines, available in a range of typologies, where elegance and restraint stand out through the complete concealment of all fixing systems.

The roof integrates a set of aluminium louvres with dual functionality: orienting the louvres creates shade, while the retractable system allows full opening to enjoy the sun on colder days.

Fully closing the louvres provides protection against rain; their gentle inclination allows efficient drainage of rainwater, channelling it quickly to the pre-designed evacuation channels. As an option, parallel systems can be integrated to give optimised control of light, wind and temperature, ensuring maximum comfort in any season.

CHARACTERISTICS

	OR
Column dimension	200 mm × 200 mm
Maximum column height	3,000 mm
Louvre dimensions (W × H)	217 mm × 30 mm | 217 mm × 50 mm

Frame options: frame between walls (no columns); complete frame with two columns; complete frame with four columns. Application span depends on louvre section (50 vs 30) and pergola length/width.





OR · BIOCLIMATIC PERGOLA WITH ORIENTABLE, RETRACTABLE LOUVRES

Handles

Handles & Espagnolettes

Sosoares hardware ranges are matched to each system family, in the same lacquered and anodised finishes as the profiles.

DOORS

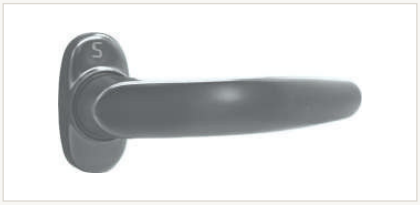
CUBIC MINIMALIST DOOR HANDLE



CUBIC DOUBLE DOOR HANDLE



615 DOUBLE DOOR HANDLE



HINGED (CASEMENT) OPENINGS

CUBIC MINIMALIST LEVER



CUBIC SQUARE LEVER



CUBIC ESPAGNOLETTE



LIGHT FRAME MORTICE LOCK



SLIDING OPENINGS

OS NO. 4 SIDE LOCK



OS NO. 6 CENTRAL LOCK



SLIM XS HANDLE



NOVEM ESPAGNOLETTE



180° MORTICE LOCK



SLIM MORTICE HANDLE



Glass

Glass Processing

- Double glazing
- Double glazing with internal blind
- Triple glazing
- Insulating glass with gas fill
- Thermal-control glass
- Acoustic-control glass
- PVB laminated glass
- SentryGlas® laminated glass
- PVB laminated glass with digital print
- EVA laminated glass
- Acoustic laminated glass
- Multi-laminated glass
- Safety glass
- Anti-intrusion glass
- Bullet-resistant glass
- Toughened glass
- Toughened glass with HST
- Heat-strengthened glass
- Processing: drilling | cutting | edging | bevelling | notching (rincon)
- Toughening
- HST
- Lamination
- Frosting
- Etched decoration
- Screen printing (serigraphy)
- Opacification



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