

VITROCSA THE ORIGINAL MINIMALIST WINDOW

WHERE
INDOORS
AND
OUTDOORS
BECOME
ONE







INVENTOR OF THE MODERN MINIMALIST WINDOW

There can be no technological revolution without pioneers. Although not well-known to the general public, there is no doubt that Éric Joray became one of them when he invented the modern minimalist window.

In 1992, a unique range of solutions dedicated to frameless windows with the narrowest visual barriers in the world was born. Since then, Vitrocsa has been exporting its systems to more than 60 countries in five continents, ensuring their current position as global bestsellers.

In 2023, Éric sadly passed away. His innovative and creative spirit will continue to be honoured by a loyal team that has carried the torch for nearly 10 years.

SWISS LABEL

Vitrocsa is an official member of SWISS LABEL, a recognised symbol of quality, safety and reliability for over a century. All of its micromechanical systems and solutions are designed in the Swiss town of Saint-Aubin-Sauges by technicians trained to watchmaking standards.



1994

Éric Joray registered the Vitrocsa trademark and the first patent for the sliding system.

2000

Multiple new builds designed around Vitrocsa 3001 windows.

2001

The first prototype of the Vitrocsa 3001 pivoting window was developed.



Project in Lebanon

1989

Éric Joray created the company Orchidées Constructions SA.

1992

Éric Joray invented Vitrocsa, the modern minimalist window.

1993

ERIC JORAY Sa PME a travaillé pour le plus fou des stades de

LES ALPES!))

First Vitrocsa window installed in a villa designed by the architect Andrea Bassi, close to the city of Geneva.



Project by Andrea Bassi

2002

The firm entered the European market with the Braga stadium in Portugal for the Euro 2004 football championship. Development of the guillotine solution.

2004

Between 2004 and 2006, new markets opened up: Russia, Australia, Israel, India, Canada and the USA.

2007

Vitrocsa archive

Launch of the Vitrocsa TH+ range, offering excellent insulating properties.

2008

Between 2008 and 2010. Vitrocsa exported to the Middle East.

2011

Development of the invisible frame with two tracks.



Invisble frame with two tracks

2012

Vitrocsa developed the revolutionary Turnable Corner system and filed a new patent. That same year, the curved application was developed.

2013

Korea and South Africa were added as new export markets. Vitrocsa has a presence in over 50 countries.

The Curved application

Éric Joray gradually passed the baton to his team. A team of five people was formed with a view to taking over the company (management buy-out).

Launch of the Vitrocsa V32

range, with thermal reinforce-

2014

ment.

2015

2016

Vitrocsa became the owner of the watchmaking building located in Saint-Aubin-Sauges, employing about twenty staff. Worldwide, the brand's partners selling and installing the range of products exceeded 500 people.

2017

Launch of the Vitrocsa V56 range allowing infinite glazing surfaces.



The five associates

2018

Vitrocsa Headquarters

Development of the Vitrocsa V44 range.

2019

Acquisition of a Tornos turning machine and a machine for crimping heat-insulated profiles.

2021

Launch of the invisible frame on a thermally-insulated track and acquisition of a test bench.



Machine for crimping heat-insulated profiles

2022

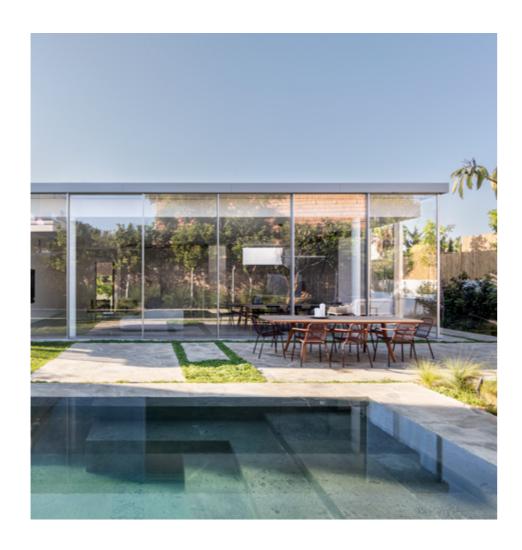
Development of the motorised Turnable Corner and motorised Curved.

2023

Éric Joray passes away, leaving behind an innovative and inspiring legacy.

2024

Vitrocsa begins construction of a new building for its head office.



CREATIVITY AND INNOVATION COMBINED FOR MAXIMUM TRANSPARENCY

An essential component of any building, the window must open up the view and let as much light as possible into the structure.

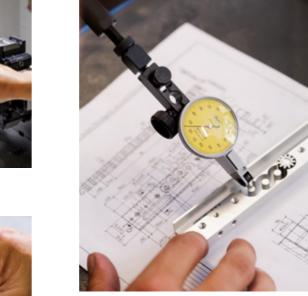
Vitrocsa makes this ideal an achievable goal.

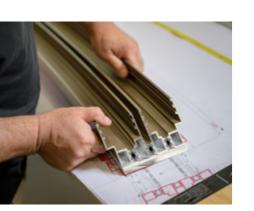




























SYSTEMS

To better meet the needs of its customers, Vitrocsa has developed several systems which can be adapted to each individual and each situation. We assess the environment and composition of your building, then offer you the perfect solution.

Your patented new windows are then produced in Switzerland and installed by one of our trained and experienced partners.

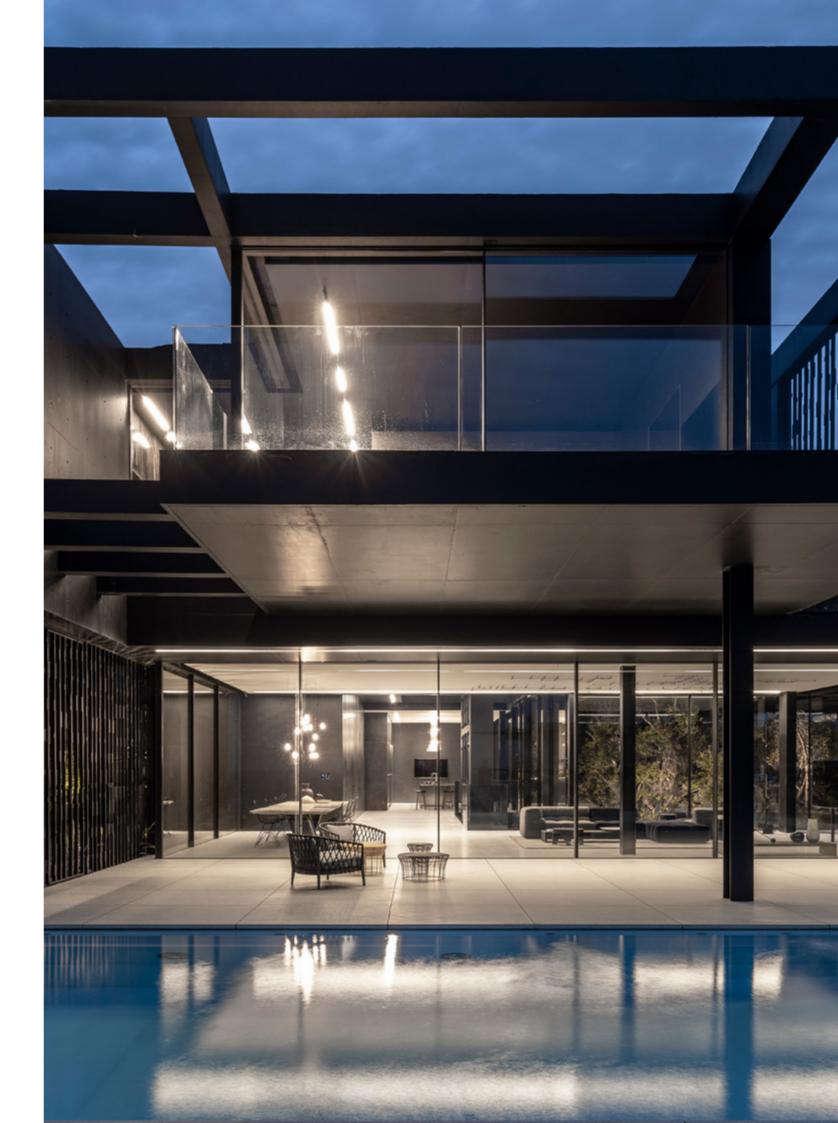
SLL

Fixed or sliding execution with ultra-thin profiles and a maximum surface area per panel of over 20 m².

The panels can be moved with minimal force, either manually or using a motor.

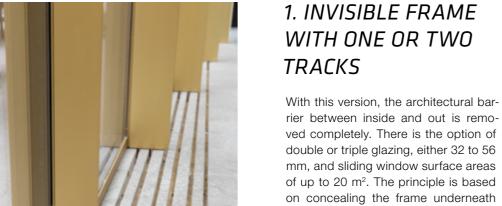
The system is ideal for very big projects and allows for a variety of applications.

DING





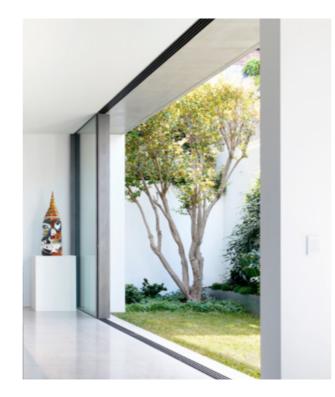




2. POCKET

the floor covering.

It is possible to conceal one or more sliding panels in a closed and isolated space.

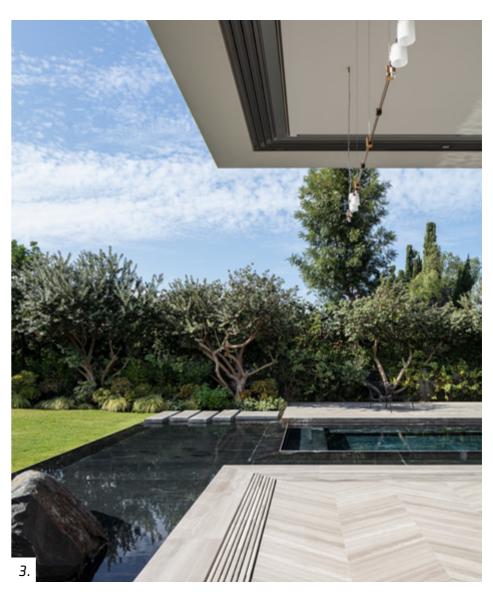


3. OPEN ANGLE

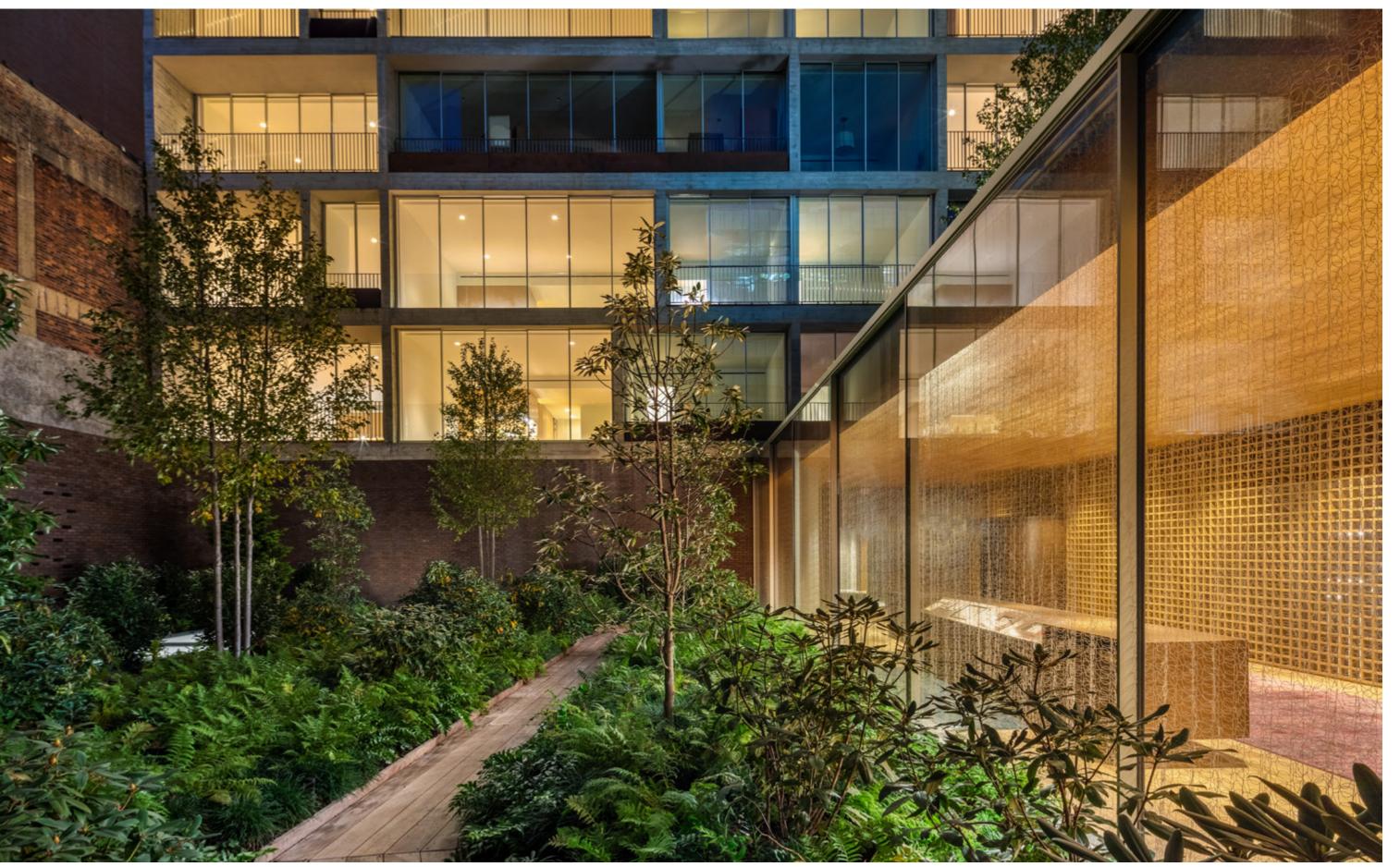
With this solution, the corner is freed from any jambs. All combinations of rails are possible.

4. MOSQUITO NET

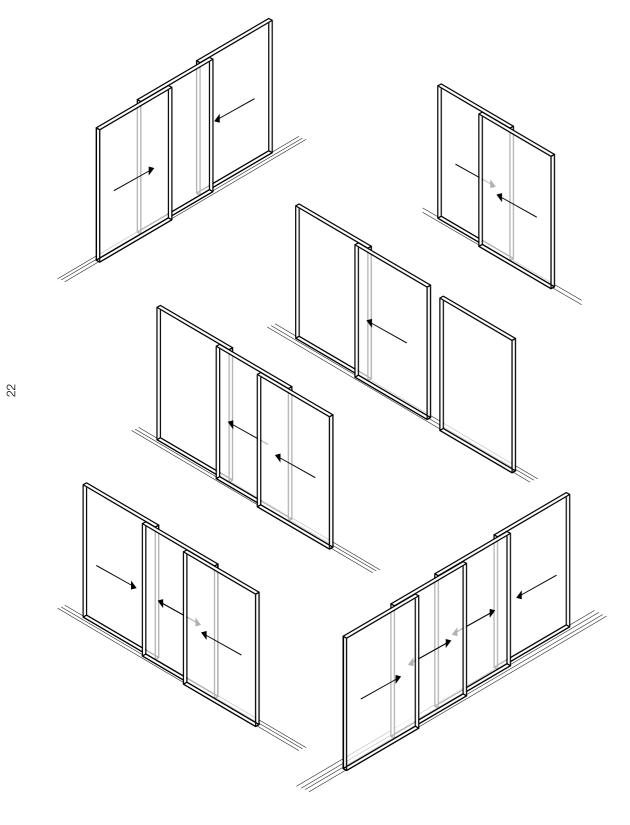
Several options are available to counter the issues posed by insects. It is possible to add a rail allowing a mosquito net to be inserted, or a folding canvas to be concealed, offering coverage of 80 cm in the vertical jamb.

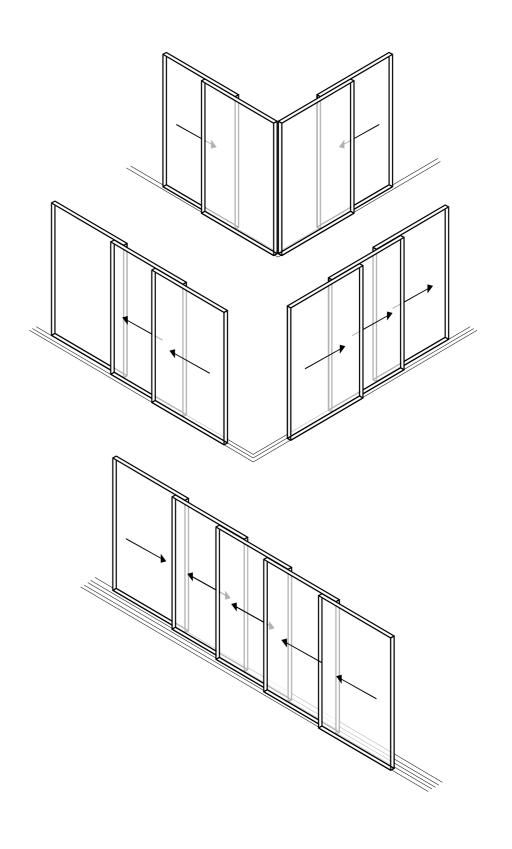












CUR

The curved window system was developed using the same principle as the sliding window.

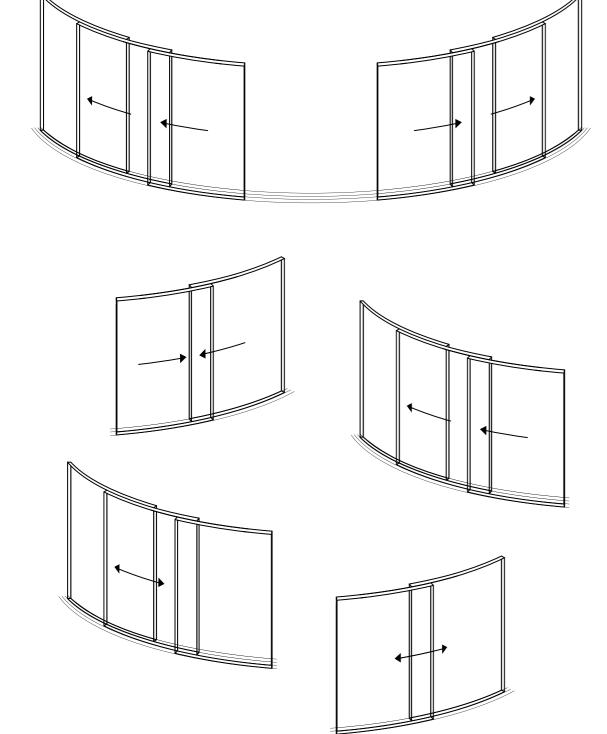
It can be made in a sliding version with a minimum radius of 3 m and in a fixed version with a minimum radius of 1.5 m.

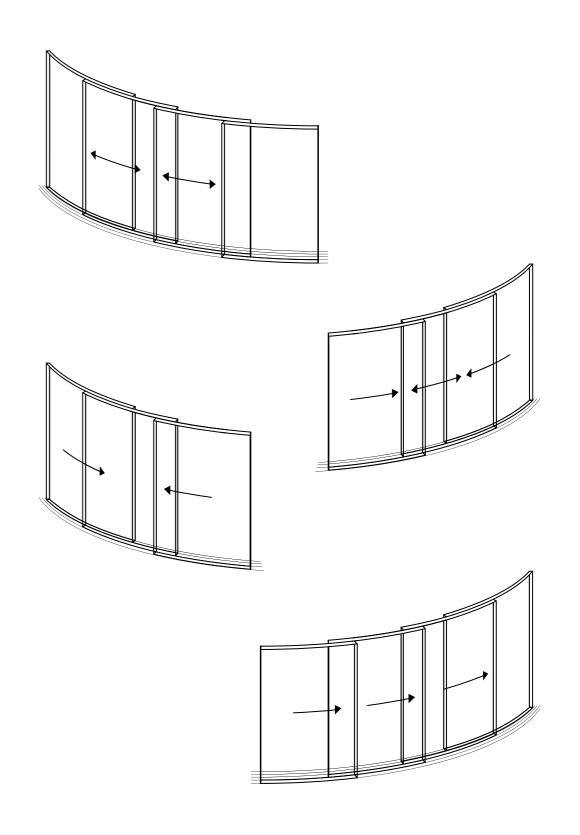
VED





28



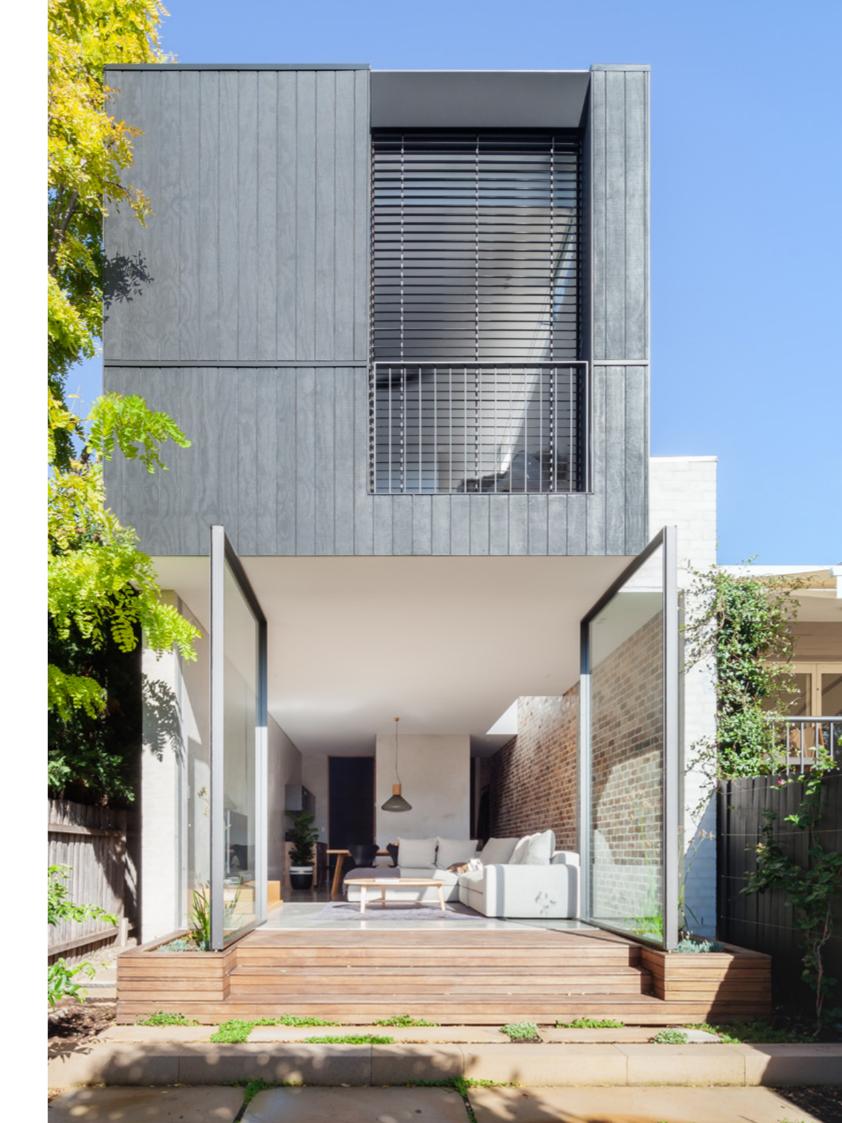


PIVO

The Pivoting system has been developed specifically to conceal highly precise mechanisms, using similar methods to those employed in watchmaking.

The surface area of the pivoting panel can be up to 12 m² and 600 kg

TING

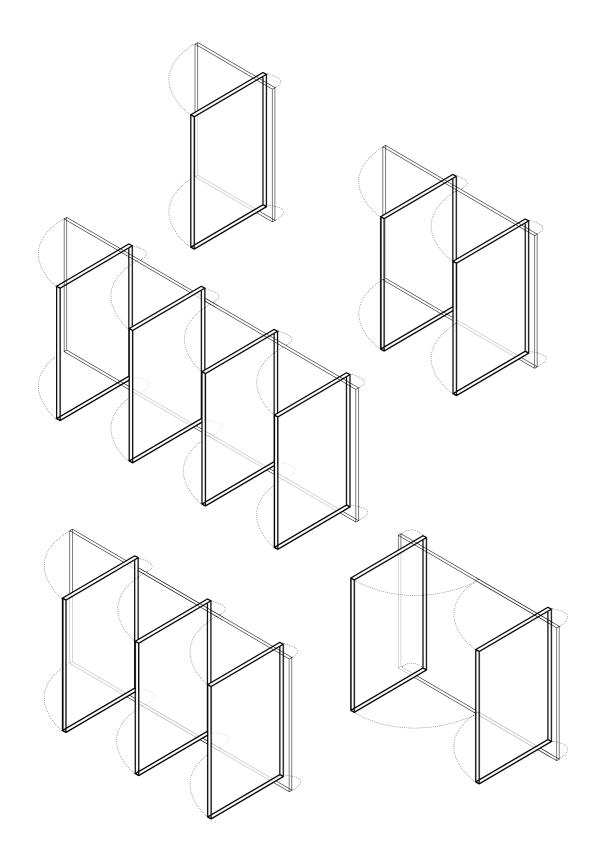


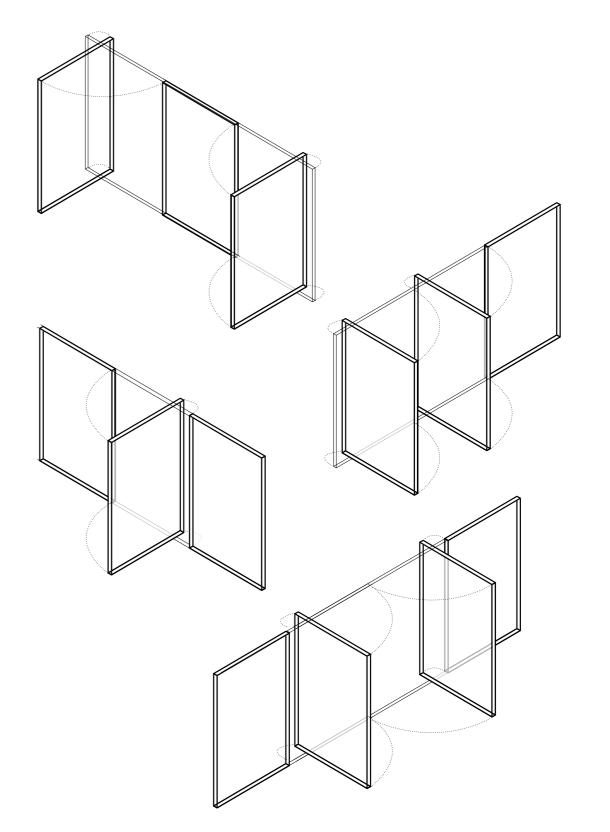




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GUIL

Guillotine frames enable almost boundless heights to be reached, whilst retaining the same quality and aesthetic criteria as other products. Each panel can support a maximum weight of 500 kg or 1000 kg on request.

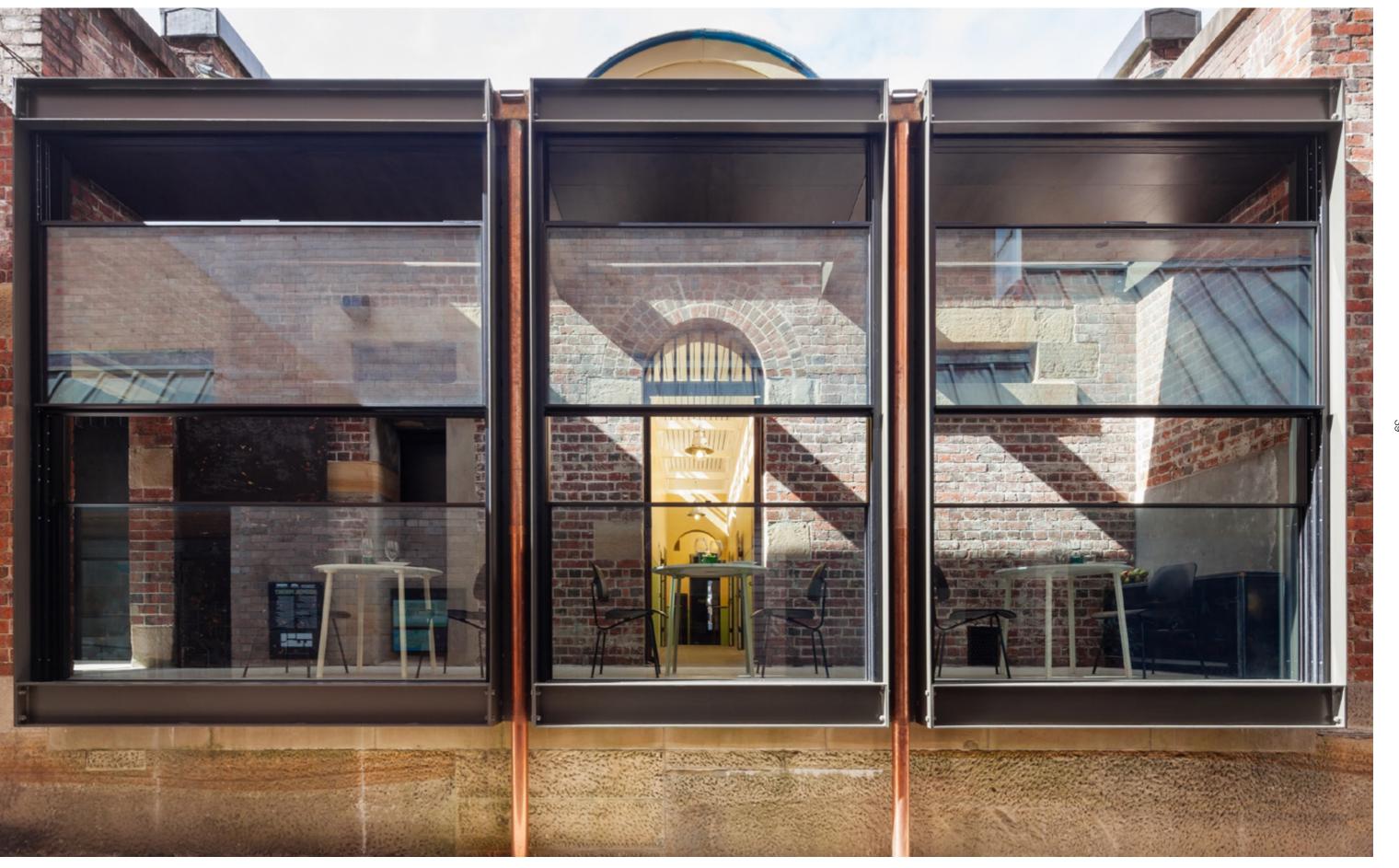
Perfectly balanced, the moveable panels can be manipulated with just a few grams of thrust, either manually or using a motor.

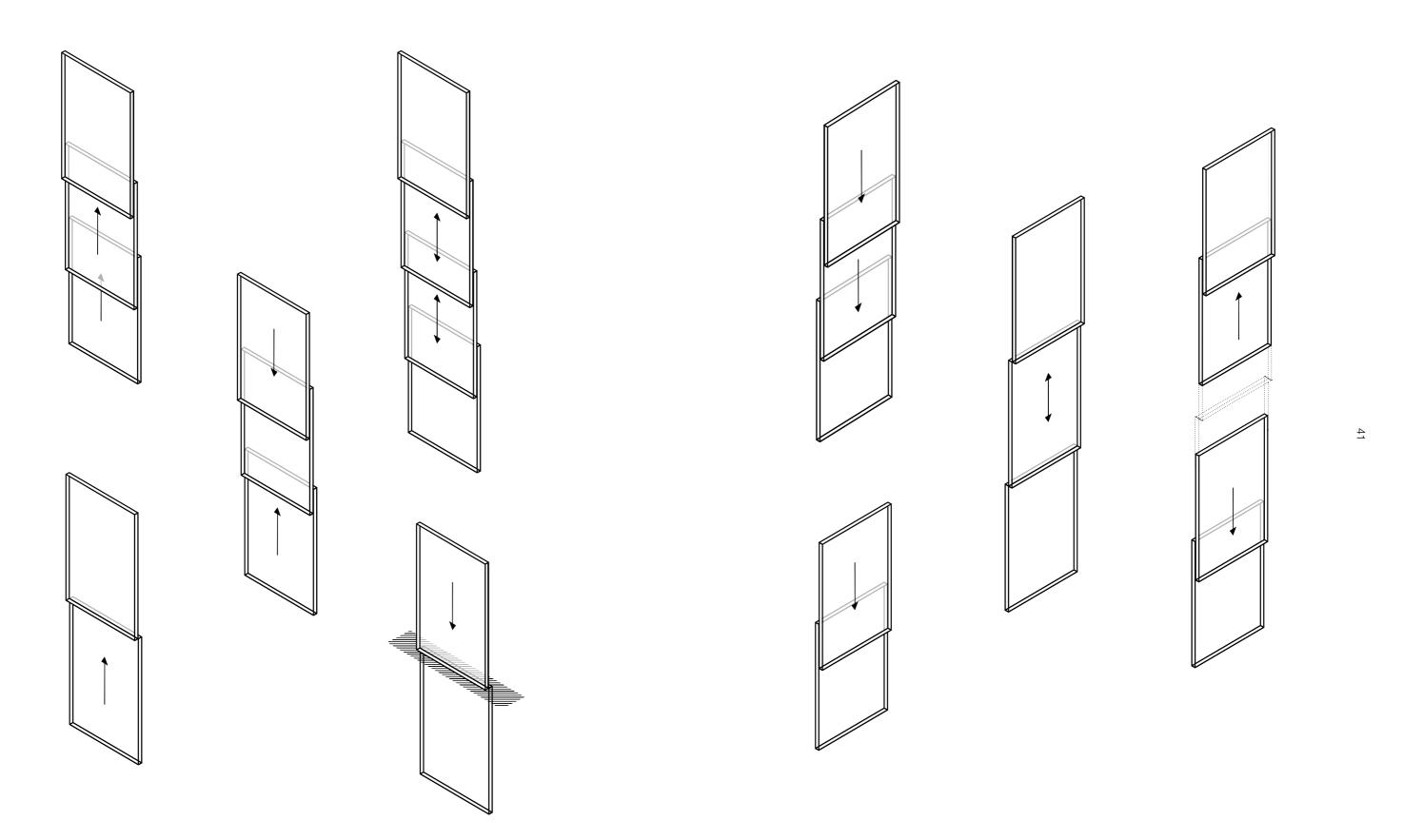
They can operate in one of two ways:

- a system with two identical panels which counterbalance one another;
- a counterweight system on the side (integrated into the finishes) which opens up an infinite range of configurations.

LOTINE







TURN

The Turnable Corner system has been developed to optimise space by using a roller principle which completely frees up the glazed components.

This major architectural solution creates space along the surfaces and corners by enabling the glazing to be stored in a dedicated area. The surface area of the glass panels can be up to 6 m², and they can weigh up to 250 kg.

∆BLE

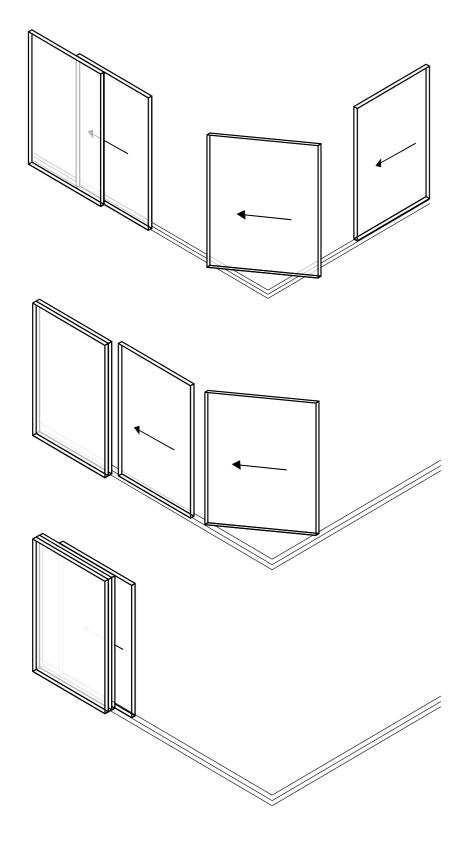
CORNER

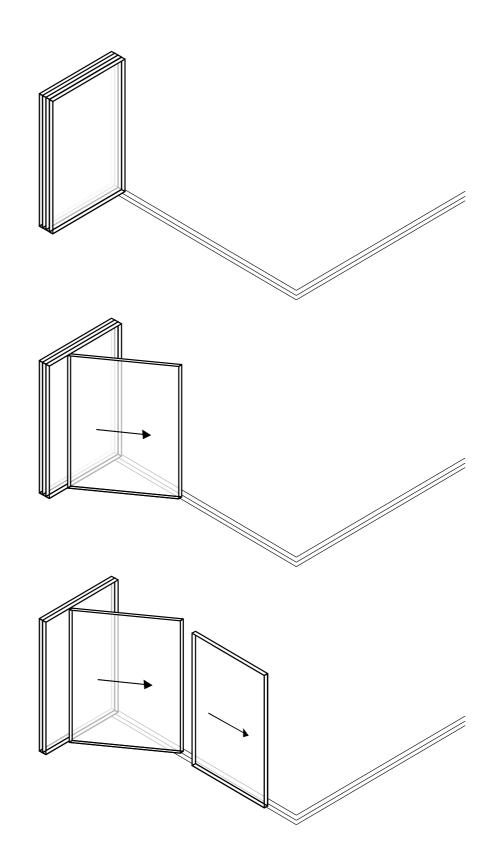












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Eric Joray ©Patrice Schreyer

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Casa Celosía - Emiliano López Mónica Rivera Arquitectos ©José Hevia Partner: Plantalech

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TECHNICAL DATA

Vitrocsa systems are available in several ranges to suit the installation conditions of your projects. 51

VITROCSA RANGE VITROCSA VITROCSA RANGE

. SLIDING . PHOTING . GUILLOTINE



SPECIFICATIONS

The Vitrocsa V56 range features infinite glazed surfaces and has been developed with the same mechanical characteristics as the Vitrocsa systems that have been proving their worth since 1992.

FRAMES

Embedded and concealed in the floor, wall and ceiling

Saline treatment specially adapted for coastal projects

GLAZING

54

56 mm in double or triple glazing

DIMENSIONS BY SYSTEM

Sliding standard: over 20 m²

Sliding with invisible frame with two tracks: over 20 m²

Pivoting: up to 12 m² and up to 600 kg per panel Guillotine: up to 1000 kg per panel

Fixed: over 20 m²

VERTICAL INTERLOCK

22 mm

Reinforced for very windy locations or installation at high altitudes

LOCK MECHANISM

Two-point closure button (092) Three-point closure button (092)

APPLICATIONS

Open angle

Pocket

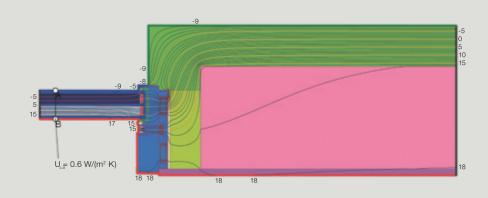
Motorisation Mosquito net

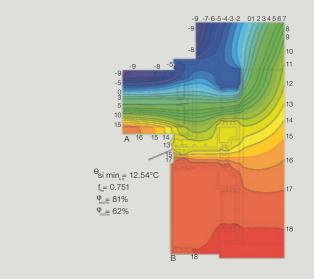
THERMAL CROSS SECTION

Uw calculation: EN 10077

Thermal insulation value: Uw 0.78 W/m2K

Insulating glass: 56 mm





V56 RANGE V56 RANGE

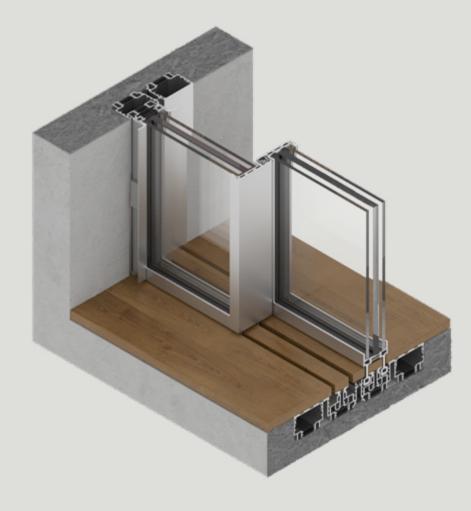
20.0°C

10.0°C 0.0°C

55

MAIN CROSS SECTIONS

MAIN CROSS SECTIONS



Z Z

7



TESTS

V56 SLIDING-FIXED	STANDARDS (TEST AND CLASSIFICATION)	CLASSIFICATION
Air permeability	EN 1026 (test) EN 12207 (classification)	Class 4
Water permeability	EN 1027 (test) EN 12208 (classification)	Class 9A
Wind resistance	EN 12211 (test) EN 12210 (classification)	Class B5
Repeated opening/closing	EN 1191 (test) EN 12400 (classification)	Class 3 (20'000 cycles)
Resistance to a vertical load	EN 14608 (test) EN 13115 (classification)	Class 3 (600 N)

VITROCSA RANGE
TH+

LIDING CURVED PINGLING CULLDINE LIBRABLE CORNER



SPECIFICATIONS

The excellent insulating properties of the profiles, in combination with the glass, enable current low energy consumption standards to be met.

FRAMES

Embedded and concealed in the floor, wall and ceiling

Birail frames: 140 mm wide

Monorail frames: 64 mm + 12 mm seal

Saline treatment specially adapted for coastal

projects

VERTICAL INTERLOCK

22 mm

Reinforced for very windy locations or installation at high altitudes

GLAZING

32 mm or 44 mm

Two-point closure button (092)

Three-point closure button (092)

Cylinder

Range of options for electric closure

Alarms

DIMENSIONS BY SYSTEM

Sliding standard: over 20 m²

Sliding with invisible frame with two tracks: over 20 m²

Curved: dimensions depending on configuration sliding: minimum radius 3 m - fixed: minimum radius of 1.5 m

Pivoting: up to 12 m² and up to 600 kg per panel

Guillotine: up to 500 kg per panel

Turnable Corner: up to 6 m² and up to 250 kg

per panel

Fixed: over 20 m²

LOCK MECHANISM

One-point closure button (029, 035, 055)

APPLICATIONS

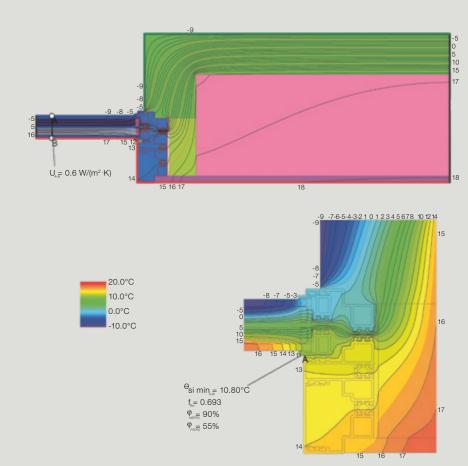
Open angle

Pocket

Motorisation

Mosquito net

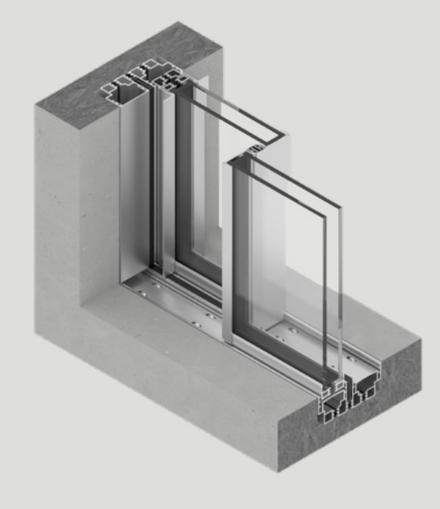
THERMAL CROSS SECTION

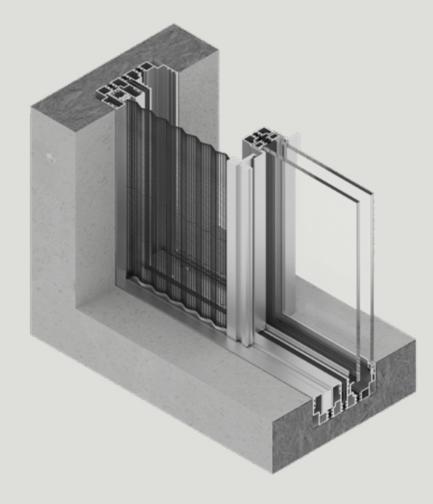


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TH+ RANGE TH+ RANGE

MAIN CROSS SECTIONS

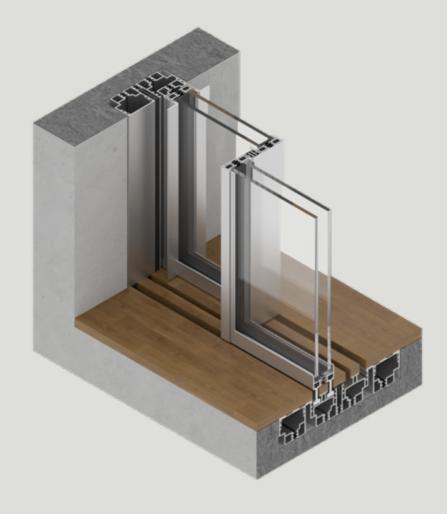




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MAIN CROSS SECTIONS





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TH+ SLIDING-FIXED	STANDARDS (TEST AND CLASSIFICATION)	CLASSIFICATION
Air permeability	EN 1026 (test) EN 12207 (classification)	Class 3
Water permeability	EN 1027 (test) EN 12208 (classification)	Class 8A
Wind resistance	EN 12211 (test) EN 12210 (classification)	Clase B5
Repeated opening/closing	EN 1191 (test) EN 12400 (classification)	Class 3 (20,000 cycles)
Resistance to a vertical load	EN 14608 (test) EN 13115 (classification)	Class 3 (600 N)
Resistance to break-ins	EN 1628 to 1630 (test) EN 1630 (classification)	WK2/RC2 (resistance class 2)

TH+ SLIDING-FIXED MINERGIE	STANDARDS (TEST AND CLASSIFICATION)	CLASSIFICATION
Air permeability	EN 1026 (test) EN 12207 (classification)	Class 4
Water permeability	EN 1027 (test) EN 12208 (classification)	Class 9A
Wind resistance	EN 12211 (test) EN 12210 (classification)	Class B3
Behaviour in different climates	EN 13420 (test)	There is no classification
Calculation of the Uw value and isotherms	EN ISO 10077-1, 2	Uw 0,97 W/(m ² K)

TH+ INVISIBLE FRAME	STANDARDS (TEST AND CLASSIFICATION)	CLASSIFICATION
Air permeability	EN 1026 (test) EN 12207 (classification)	Class 3
Water permeability	EN 1027 (test) EN 12208 (classification)	Class 7A
Wind resistance	EN 12211 (test) EN 12210 (classification)	Class C3

TH+ SLIDING-SLIDING	STANDARDS (TEST AND CLASSIFICATION)	CLASSIFICATION
Air-borne noise insulation (measured in the laboratory) Glass: vPh 5/0,76/5 - 16 - vF5 total thickness: 31.8 mm	EN ISO 10140 (2010)	36 dB

TH+ GUILLOTINE	STANDARDS (TEST AND CLASSIFICATION)	CLASSIFICATION
Air permeability	EN 1026 (test) EN 12207 (classification)	Class 3
Water permeability	EN 1027 (test) EN 12208 (classification)	Class 9A
Wind resistance	EN 12211 (test) EN 12210 (classification)	Class C2/B3/4A

TH+ PIVOTING	STANDARDS (TEST AND CLASSIFICATION)	CLASSIFICATION
Air permeability	EN 1026 (test) EN 12207 (classification)	Class 3
Water permeability	EN 1027 (test) EN 12208 (classification)	Class 8A
Wind resistance	EN 12211 (test) EN 12210 (classification)	Class C3/B4

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TH+ TURNABLE CORNER	STANDARDS (TEST AND CLASSIFICATION)	CLASSIFICATION
Air permeability	EN 1026 (test) EN 12207 (classification)	Class 1 (150 Pa)
Water permeability	EN 1027 (test) EN 12208 (classification)	Class 4A

TH+ RANGE TH+ RANGE

VITROCSA RANGE VITROCSA RANGE



SLIDING

FRAMES

Embedded and concealed in the floor, wall and ceiling

Birail frames: 124 mm wide

Monorail frames: 56 mm + 12 mm seal

Saline treatment specially adapted for coastal

projects

VERTICAL INTERLOCK

23 mm

Reinforced for very windy locations or installation at high altitudes

Optimised heat retention with fibreglass towers

GLAZING

32 mm

LOCK MECHANISM

Two-point closure button (092)

Cylinder

Range of options for electric closure

Alarms

DIMENSIONS BY SYSTEM

Sliding: up to 12 m²

Sliding with invisible frame with one track: up

to 12 m²

Fixed: up to 12 m²

APPLICATION

Open angle

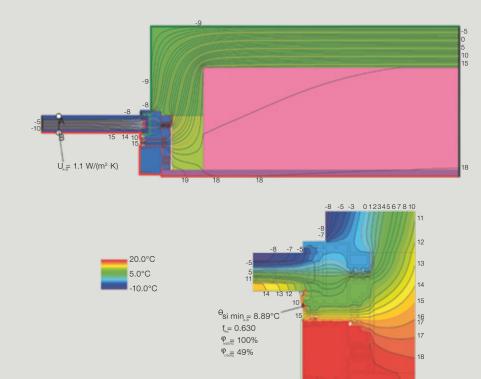
Pocket

Mosquito net

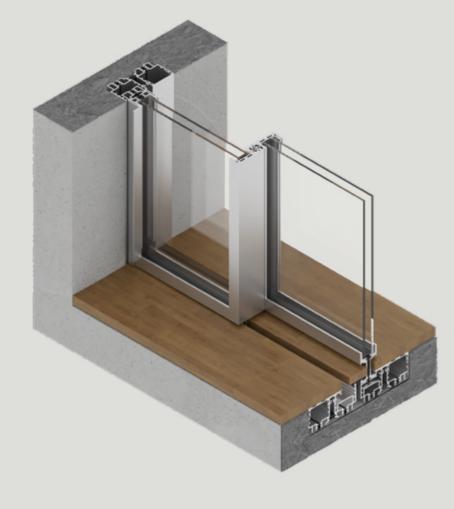
THERMAL CROSS SECTION

Calculation of the U value according to EN ISO 10077-1 and 2 standards

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V32 RANGE





VITROCSA RANGE 3001

. SLIDING . PHOTING . CHILDING



SPECIFICATIONS

The first Vitrocsa 3001 window was developed at the start of the 1990s. With the experience we now have, we can guarantee that this system presents no hidden defects.

FRAMES

Embedded and concealed in the floor, wall and ceiling

Birail frames: 99.5 mm wide Monorail frames: 45 mm + 9.5 mm seal

Saline treatment specially adapted for coastal projects

VERTICAL INTERLOCK

18,5 mm

Reinforced for very windy locations or installation at high altitudes

GLAZING

12 to 26 mm

LOCK MECHANISM

One-point closure button (029, 035, 055)

Two-point closure button (092)

Cylinder

Range of options for electric closure

Alarms

DIMENSIONS PER SYSTEM

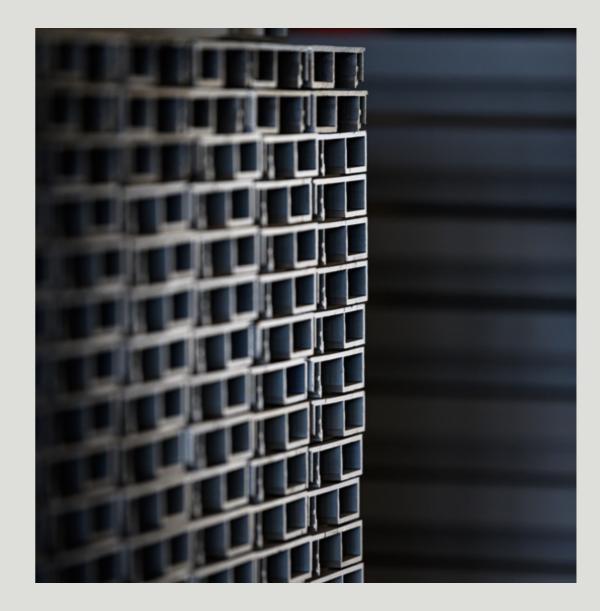
Sliding: up to 6 m² Pivoting: up to 3 m²

Guillotine: up to 180 kg per panel Fixed: up to 9 m² and 30 mm thick

APPLICATIONS

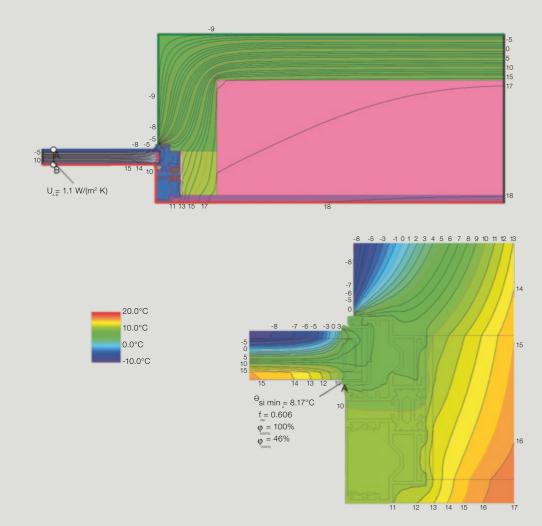
Open angle





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THERMAL CROSS SECTION

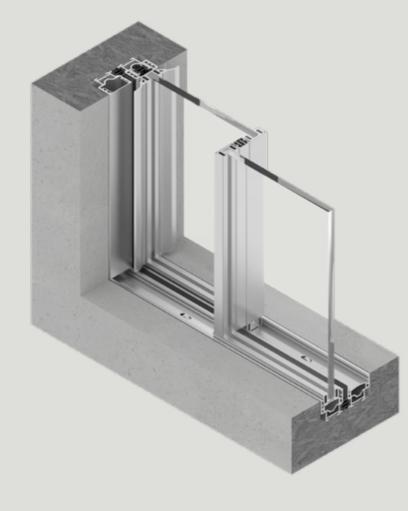


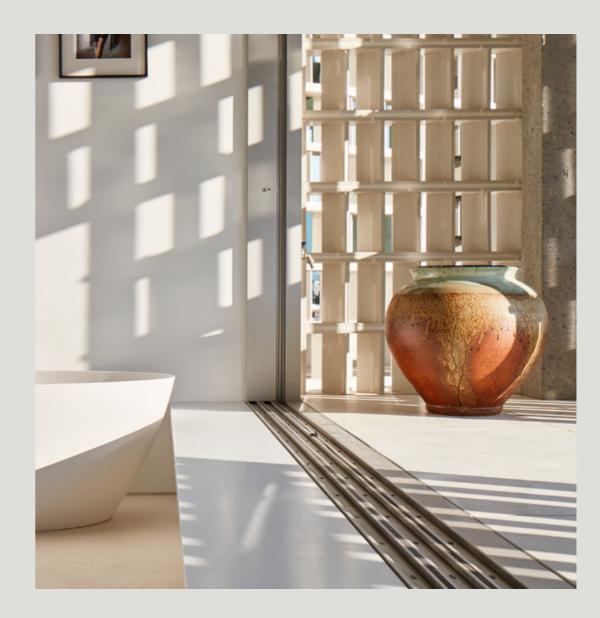
TESTS

3001 SLIDING-FIXED	STANDARDS (TEST AND CLASSIFICATION)	CLASSIFICATION
Air permeability	EN 1026 (test) EN 12207 (classification)	Class 4
Water permeability	EN 1027 (test) EN 12208 (classification)	Class 7A
Repeated opening/closing	EN 1191 (test) EN 12400 (classification)	Class 3 (20,000 cycles)
Resistance to a vertical load	EN 14608 (test) EN 13115 (classification)	Class 3 (600 N)
Resistance to break-ins	EN 1628 to 1630 (test) EN 1630 (classification)	WK2/RC2 (resistance class 2)

3001 RANGE 3001 RANGE

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3001 RANGE SLIDING 3001 RANGE SLIDING

FURTHER INFORMATION

SILITHE CURVED PROTING GUILDINE THRURELE CORNER



structure.

TESTS

To clearly demonstrate the properties of the Vitrocsa window, we have conducted standardised tests in an accredited laboratory (SWISS TEST-ING SERVICE NUMBER STS 317). Since 2021, we have acquired a test bench capable of accommodating windows of up to 35 m², which enables us to test their resistance to wind pressure, as well as checking water and air tightness more thoroughly.

MOTORISATION

In accordance with our philosophy, we developed a motorisation system for all the TH+ guillotine and sliding systems which allows integration into the architectural design with minimum interference, with a simplified and very quiet opening.

The motorisation system is fully hidden in the top part in a 12 cm high frame.

The maximum driving force is 180 N for a maximum weight of 1'600 kg per motor. The maximum motion speed is 167 mm/s-1 and slows when a second leaf is driven. It has an automatic electrical closure which is compatible with all home automation opening systems: electronic lock, push button, badge reader, etc. Our system is undergoing constant development, and new options will be available soon.

To ensure complete safety, the system stops as soon as an obstacle is detected. The motorisation system is also available for the curved solution.

FINISH

Each Vitrocsa system has a 25-micron anodised aluminium 6060 alloy structure, available in a natural finish or in an infinite range of powder-coated colours.

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RC2 STANDARDS

It is vital for us to meet the requirements and expectations of our clients while offering them the highest level of safety and security. Our systems meet the highest standards, such as RC2. Various additional components are available to meet other safety requirements:

- Alarm directly integrated into the system
- Monitoring of the closed pane position
- Glass breakage detector
- Special anti-intrusion glass

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FURTHER INFORMATION FURTHER INFORMATION



