



Architect: Bruno Marques | Photographer: AFP Filipe Pombo

TOPAZE

CONTEMPORARY SLIDER





Architects: Lacaton & Vassal Architectes Associés | Photographer: Philippe Ruault



TOPAZE, sobriety, simplicity and adaptability



Architect: Bruno Marques | Photographer: AFFP Filipe Pombo

TOPAZE+, exceptional joinery

TOPAZE+ offers solutions to specific market needs. Thanks to the combination of glazing up to 24 mm thick and rollers that are able to support leaves weighing up to 200 kg, TOPAZE+ is the ideal solution for large frame sizes with 1 to 8 leaves with comfort requirements (thermal insulation, acoustics and security).

As an alternative to rounded opening frames, the TOPAZE+ follows architectural trends by offering an opening frame showcasing a straight edged design. A choice of product lines which provide the finishing touch thanks to the finesse of the mullions.



TOPAZE has proven itself to be the ideal system for external composite frames in hot climates and is suitable for tropical zones: cyclone resistant, installations with SAFETYLINE louvres, integration with louvre or blade infills for ventilation or solar protection and the integration of mosquito screens.

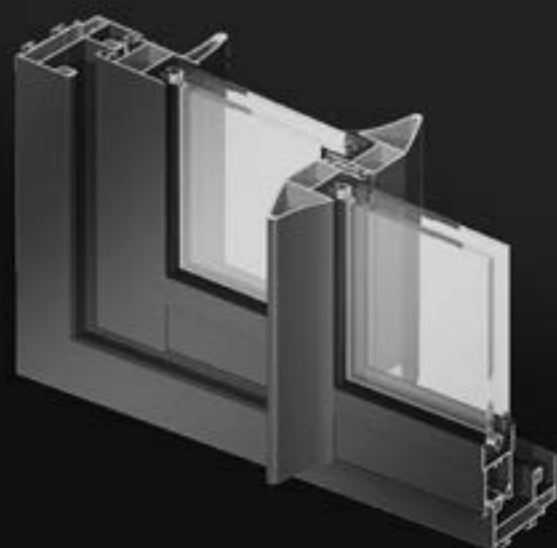
TOPAZE 20 mm, efficiency and simplicity

The TOPAZE 20 mm is a complete range of traditional sliding systems with 1 to 4 tracks for the construction of windows or patio doors supporting leaves weighing up to 140 kg, with glazing from 5 mm to 20 mm thick.

TOPAZE, contemporary slider

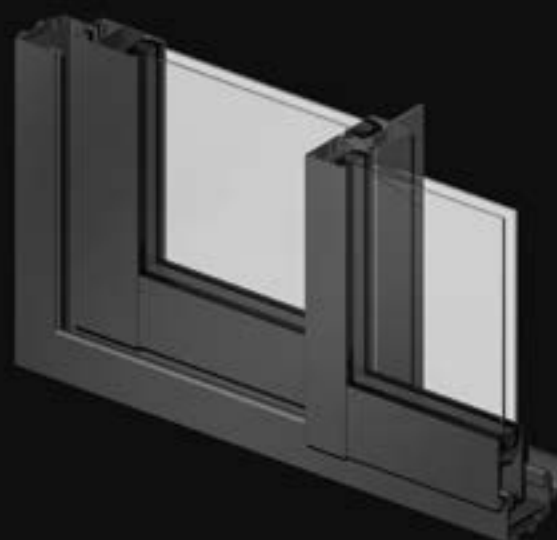
TOPAZE 20 mm

* Straight version available



TOPAZE+

* Rounded version available



Key features and innovations

2 versions of opening frames

- 1 version up to 20 mm.
- 1 version up to 24 mm.

Multiple configurations

- 2, 3 or 4 tracks.
- Composite assemblies.
- Full-access version on 1 or 2 tracks.
- Configurations with SAFETYLINE louvres.
- Integrated louvre or blade infills for ventilation or solar protection and integrated mosquito screens.

Weather performance

- Having undergone category 5 cyclone resistance testing, along with the combination of special reinforced mullions (lateral and central) and a double brush gasket with a central strip offering enhanced water tightness means that this slider can withstand cyclonic wind and rain.

Aesthetics

- Choice of 2 types of opening frames for improved cohesion with architectural styles.

Closure systems

- TOPAZE 20 mm and TOPAZE+:
 - Single or double recessed handle with a lock and automatic closure system (window).
 - Multipoint closure systems (3 or 4 points) with handle and lock for enhanced security.
 - Recessed pull handle.
- TOPAZE+
 - Half moon handle (only on rounded mullions) with a single-action unlocking system for the easy manipulation of service leaves (Technal patent).



TOPAZE+

Exceptional joinery

- Subjected to 20000 cycles of opening and closing tests, this sliding system guarantees longevity and ease of use with leaves weighing up to 200 kg.
- Available in the traditional version, full-access version and outer-fixed frame application, the use of 6 mm to 24 mm glazing makes it possible to add acoustic, insulation and reinforced security solutions.
- Attention to finishing touches: all accessories are painted to match the sliders' finish, all fixings are concealed, glazing gaskets are discreet thanks to the minimal flashing.



Architect: Carlos Gilardi Photographer: DR Technal

Attention to detail

- Locking mechanisms: simple 1-point recessed handle, up to 4-point closure systems with handles and locks.
- Recessed track (stainless steel, aluminium) for greater durability.



Half-moon handle on slider, curved design only



Recessed handle for multi-point closure systems



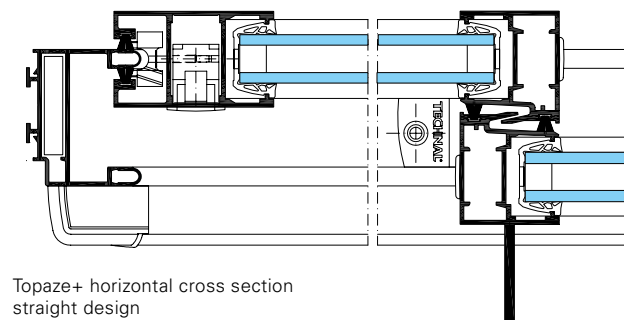
Single recessed handle

The diversity of creations

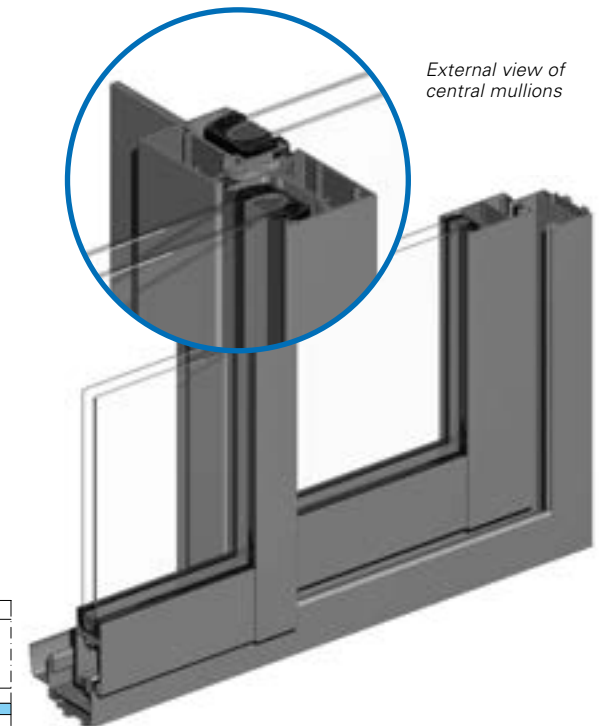
As an alternative to rounded opening frames, the TOPAZE+ follows architectural trends with the version of the opening frame featuring straight edges. A selection of lines which providing the finishing touch to the meticulous aesthetics thanks to the finesse of the mullion.

Straight design

- 41 mm central mullion, very clean lines.
- Straight lateral mullion.
- Reinforced central and lateral mullions for large scale designs.



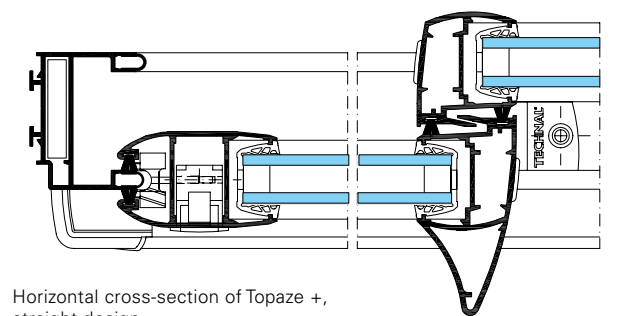
Topaze+ horizontal cross section straight design



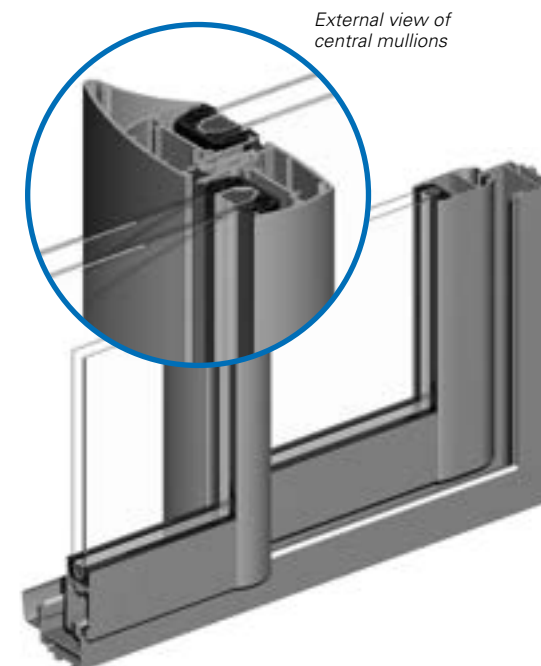
External view of central mullions

Rounded design

- Central mullion 41 mm, narrow front edge, strong profile.
- Curved lateral mullion.
- Reinforced central and lateral mullions for large scale designs.



Horizontal cross-section of Topaze +, straight design

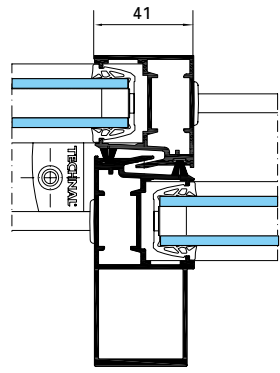


External view of central mullions

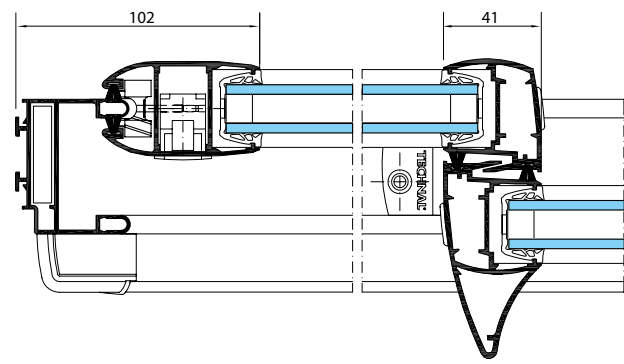
Sections of the TOPAZE+

Patio door, 2 leaves - 2 tracks

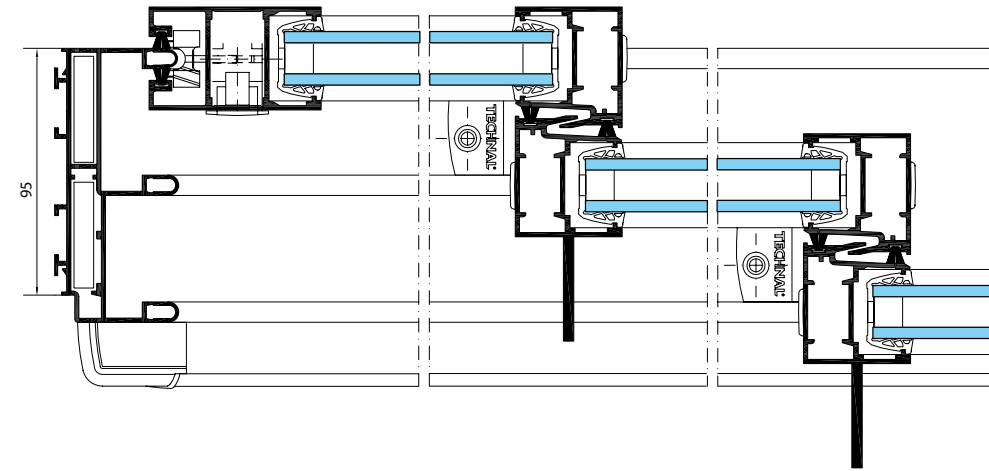
Cyclone resistant



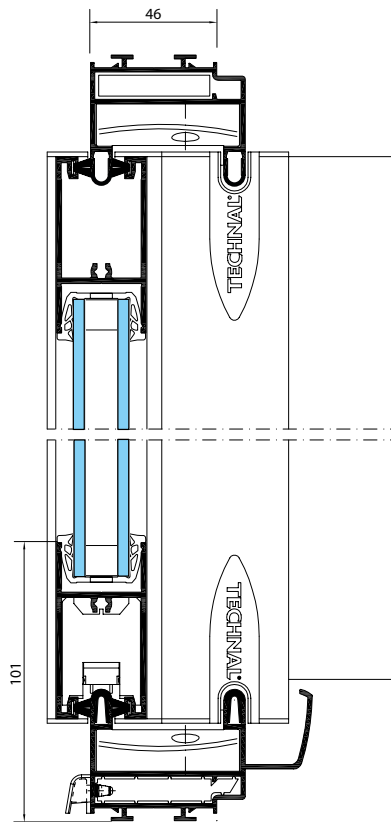
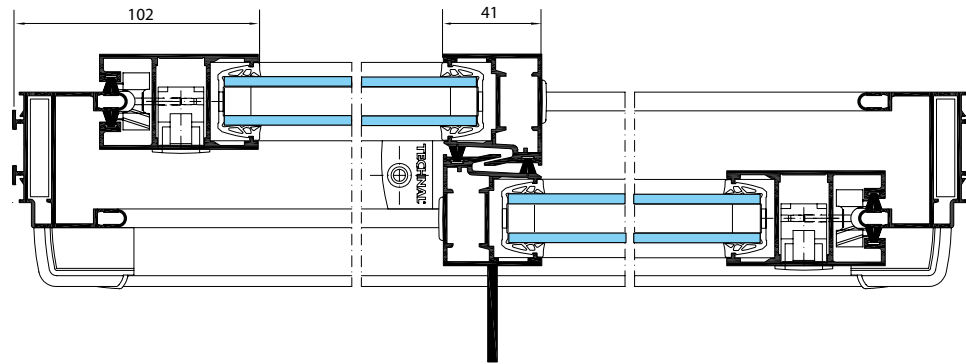
Rounded design



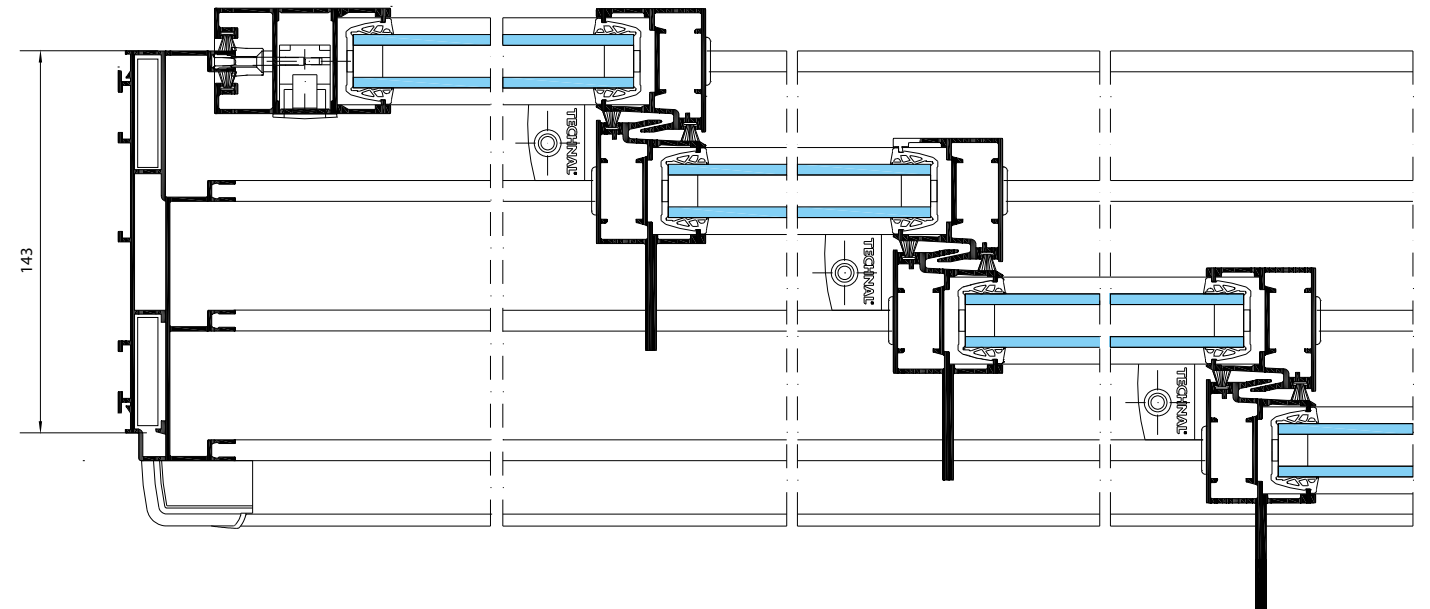
3 leaves - 3 tracks



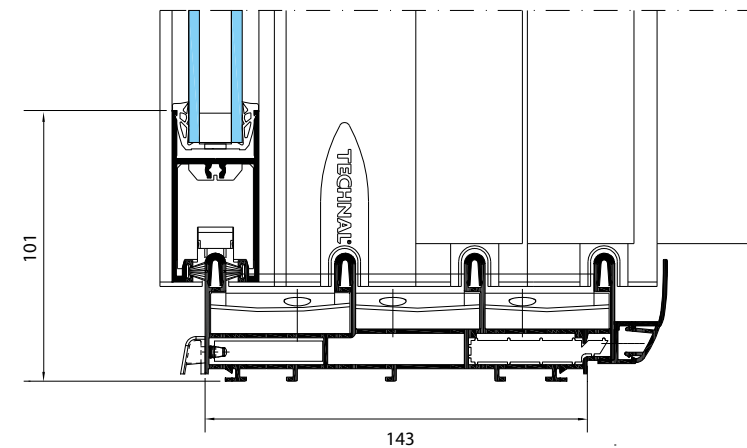
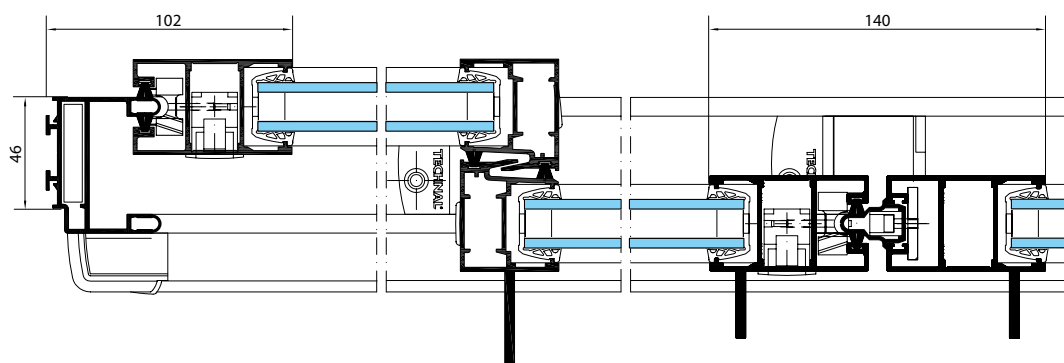
Straight design



4 leaves - 4 tracks

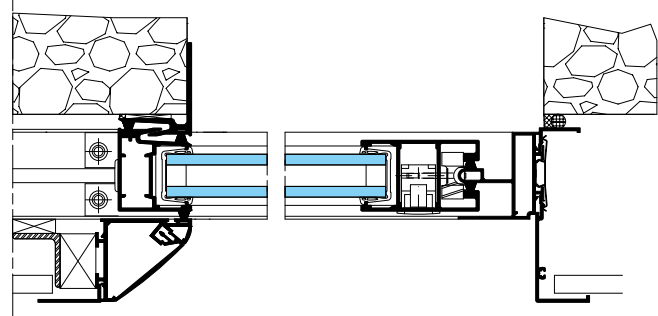


4 leaves - 2 tracks

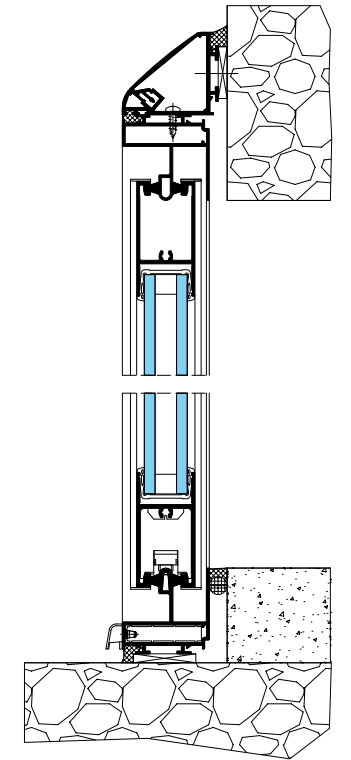
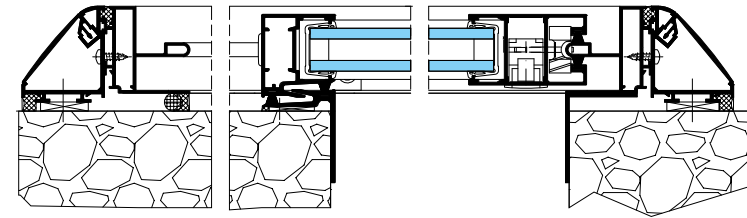


Sections TOPAZE+

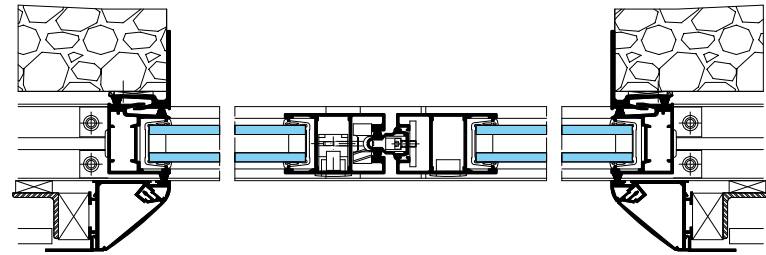
Full-access version - monorail - 1 leaf



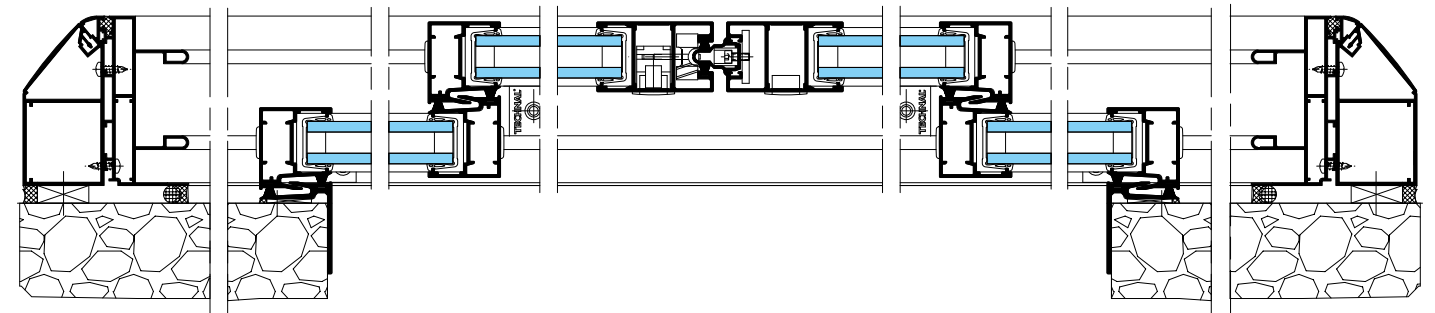
Outer-fixed frame - monorail



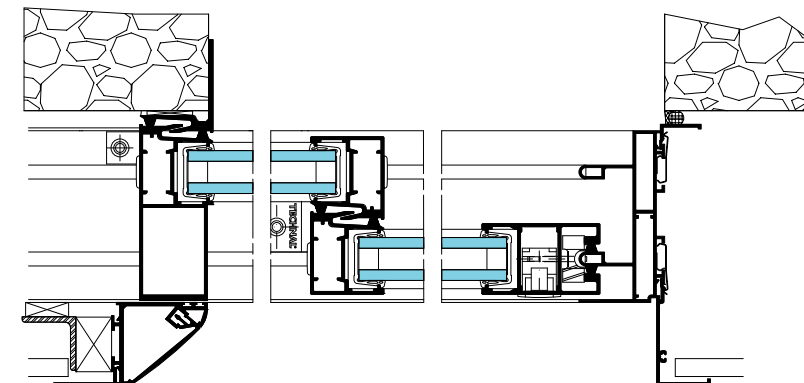
Full-access version - monorail - 2 leaves central percussion



Outer-fixed frame - 2 rails - 4 leaves



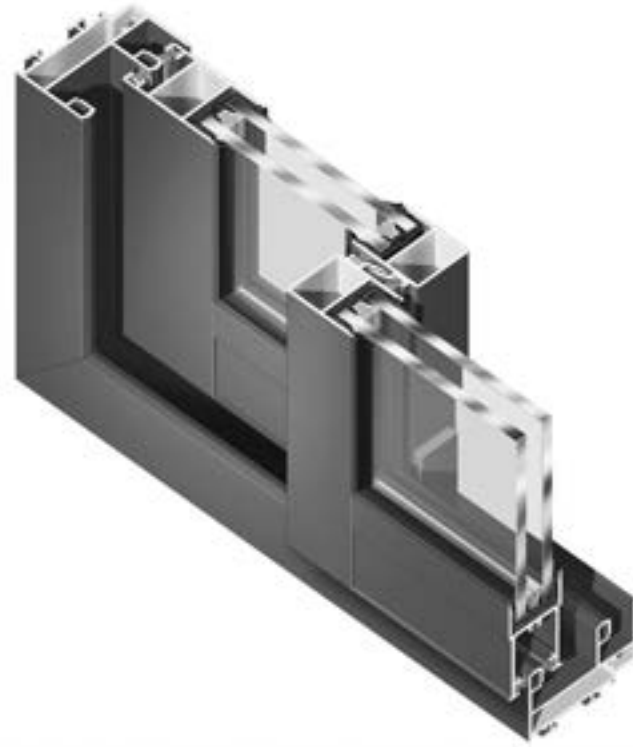
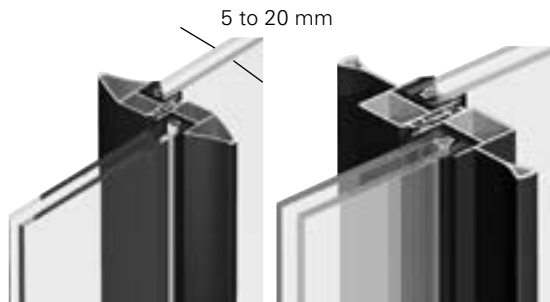
Full-access version - 2 rails - 2 leaves



TOPAZE 20 mm

Efficient and aesthetic

- Rollers supporting the weight of the leaves weighing up to 140 kg.
- Aluminium tracks for 1 to 8 leaves.
- Glazed infill from 5 to 20 mm thick.
- Sound reduction of up to 35 dB(A) for the comfort of the occupant.
- Optimised glazed area due to the thin design of the central and lateral mullions therefore maximising light.
- Choice of 2 types of opening frames for improved cohesion with architectural styles.

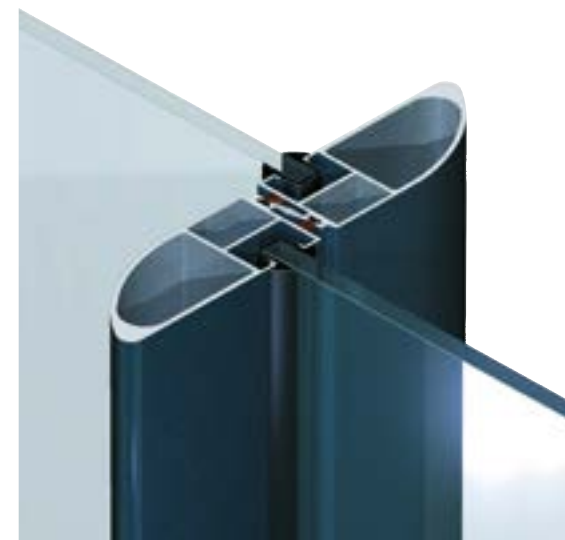


Suitable for tropical zones

- Having undergone category 5 cyclone resistance testing, along with the combination of special reinforced mullions (lateral and central) and a double brush gasket with a central strip offering enhanced water tightness means that this slider can withstand cyclonic wind and rain.
- The reinforced inertia of the mullions means that we can produce sliding systems up to 2.60 m high without a loss of performance.
- This slider offers solutions that are particularly suited to tropical zones: configurations with SAFETYLINE louvres, integrated louvre or blade infills for ventilation or solar protection and integrated mosquito screens.

A comprehensive range of locking mechanisms

- Single or double recessed handle with a lock and automatic closure system (window).
- 3-point locking system for increased security.
- Recessed pull handle (window and patio door).



Cyclone resistant central mullions

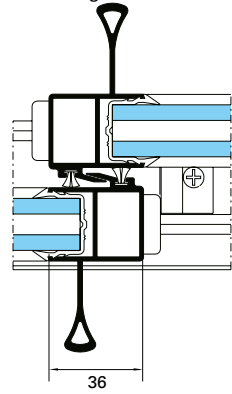


Sections TOPAZE 20 mm

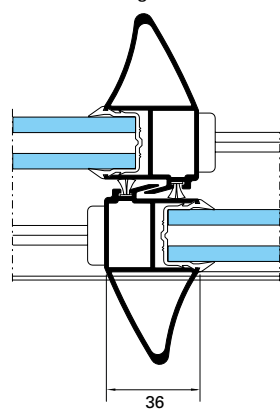
2 leaves - 2 tracks

Reinforced central mullions

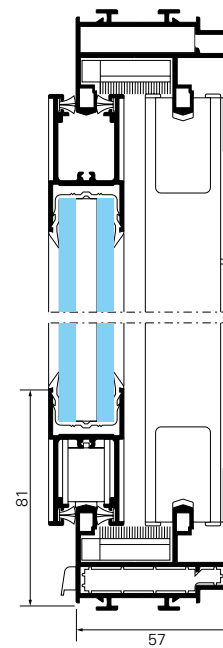
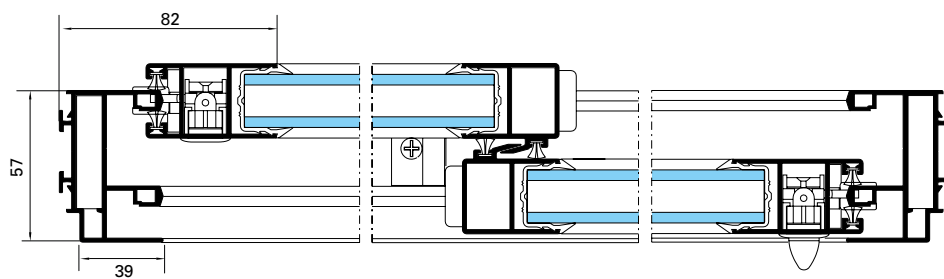
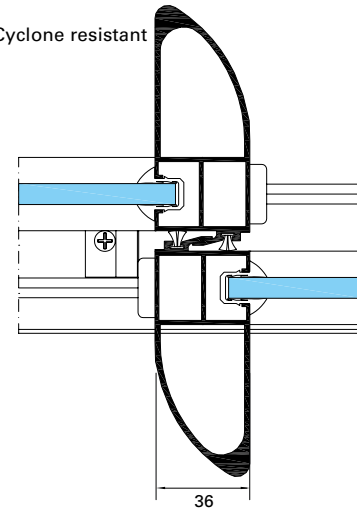
Basic design



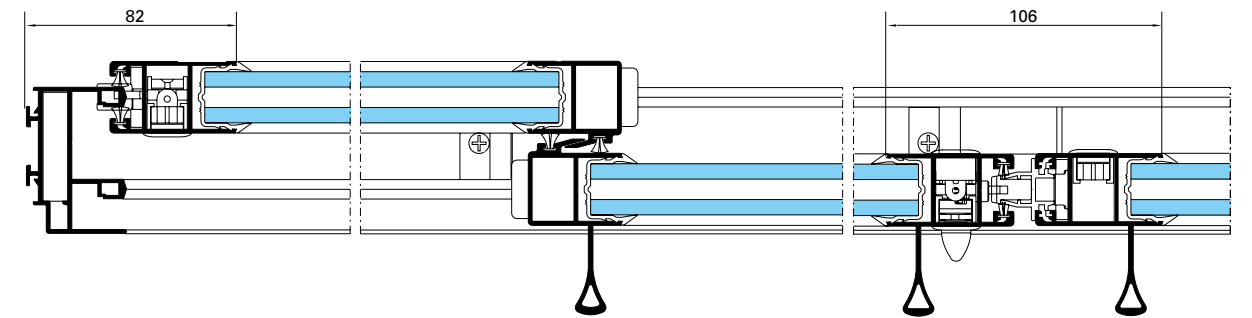
Rounded Design



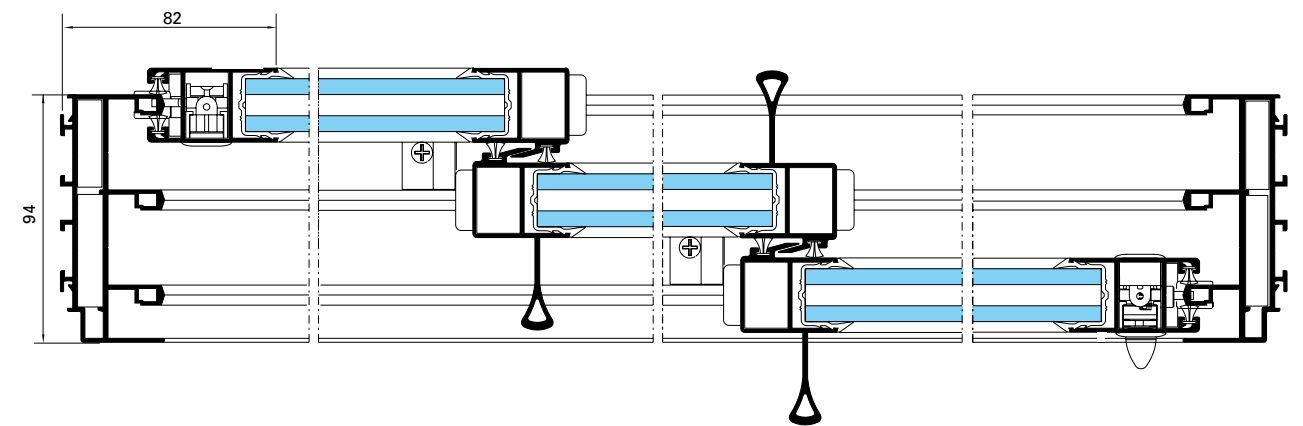
Cyclone resistant



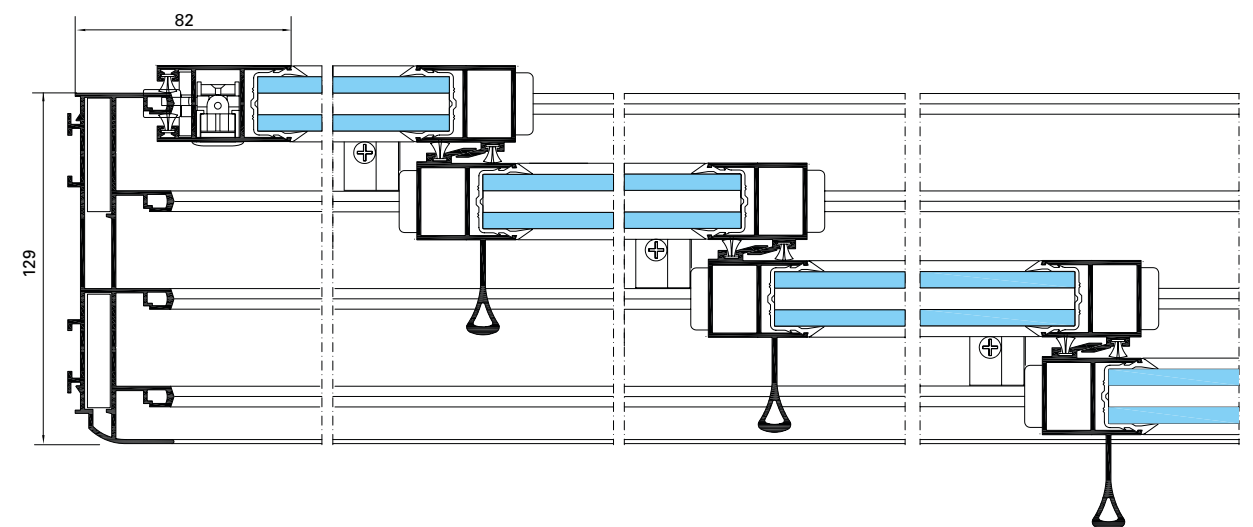
4 leaves - 2 tracks



3 leaves - 3 tracks



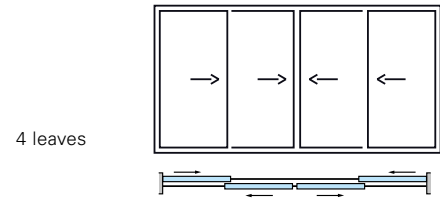
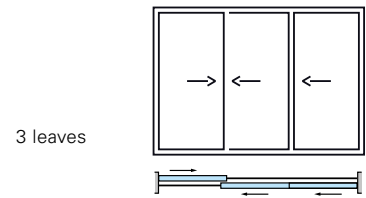
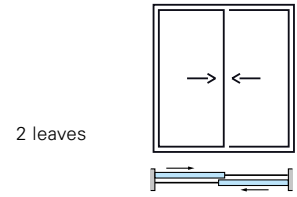
4 leaves - 4 tracks



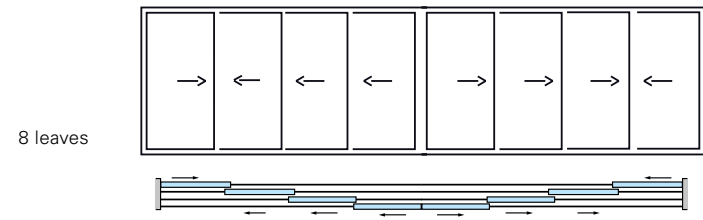
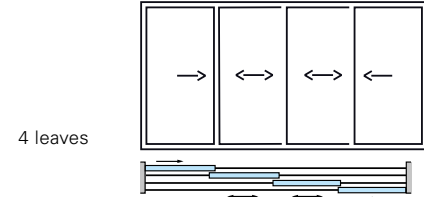
Applications

TOPAZE+

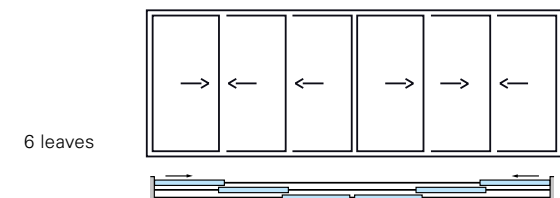
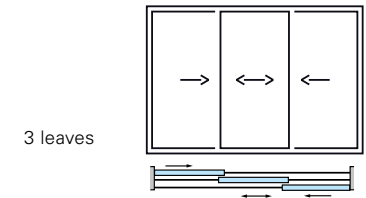
2 tracks



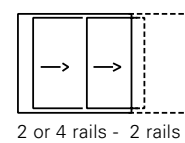
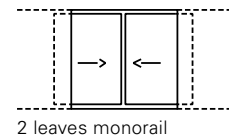
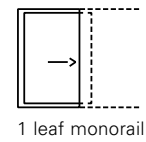
4 tracks



3 tracks

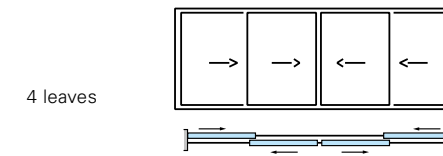
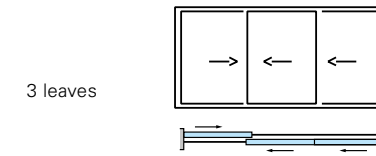


Full-access version and outer-fixed frame

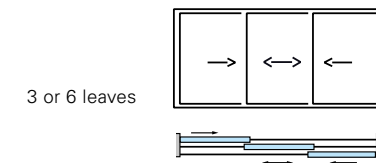


TOPAZE 20 mm

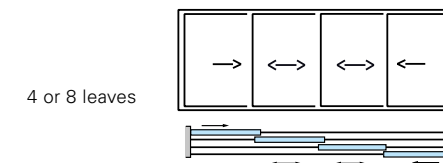
2 tracks



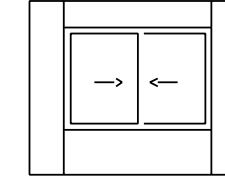
3 tracks



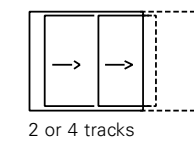
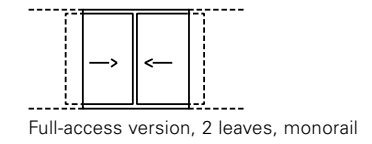
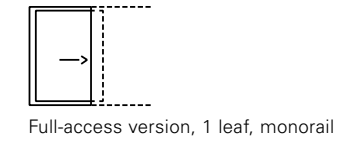
4 tracks



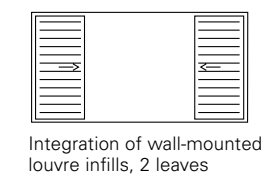
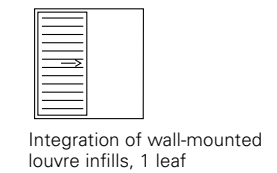
Composite frames



Full-access version



Integration of infills for shutters



Performance

TOPAZE 20 mm

WEATHER PERFORMANCE: A.E.V. (A: Air, E: Water, V: Wind)		
Type	Report no.	Classification
Patio door, 2 cyclone resistant leaves 2.20 x 2.15 H	E213.4.039	A3 E4A VA5
Window, 2 cyclone resistant leaves, 1.40 x 1.40 H	E213.4.262	A2 E7B VC5
Cyclone resistant door-closers, 3 leaves, 3 tracks 3.15 x 2.22 H	B225.4.032	A4 E7B VA5
Patio door, 4 leaves, 2 tracks, 3.60 x 2.40 H	B222.8.014	A4 E5A VC3
Patio door, 2 leaves, 2 tracks, 2.10 x 2.20 H	E213.2.264	A3 E5A VA2

Air, Water, Wind A = Air permeability EN 12207 - E = Water resistance EN 12208 - V = Wind resistance EN 12210

ACOUSTIC PERFORMANCE					
Type	Glazing	Test report number	dB results		
			R _A , tr	R _A	RW
Outer frame with drainage	Climalit 4/12/4	624475	28	28	29
Outer frame	35-20 4/6/10	624281	33	35	35
Outer frame Sliding gasket + beading	35-20 4/6/10	624776	35	36	36

Tested in accordance with standards NF - S31-051 - EN ISO 140 - EN ISO 177 - 2-leaf window H = 1480 x W = 1470

TOPAZE+

WEATHER PERFORMANCE: A.E.V. (A: Air, E: Water, V: Wind)		
Type	Report no.	Classification
Patio door, 2 leaves H = 2.15 - W = 1.80	E223-01-024	A3 EA7 VC3

Air, Water, Wind A = Air permeability EN 12207 - E = Water resistance EN 12208 - V = Wind resistance EN 12210

ACOUSTIC PERFORMANCE					
Type	Glazing	Report no.	dB results		
			R _A , tr	R _A	RW
Standard outer frame	38 - 23	625329	33	32	33
Standard outer frame	35 - 20	625331	33	31	33
Standard outer frame	4.12.4	625328	31	29	31
Standard outer frame	4.12.4	625330	31	29	31

Tested in accordance with French and European standards NFS31-051 - EN ISO 140 - EN ISO 717 - 2-leaf window H = 1480 x W = 1470



Architects: Guillaume Koffi and Issa Diabaté (Koffi et Diabaté Architectes). Photography DR Technal

Materials and parts

As with all Technal systems, only the highest materials and components are used to minimise maintenance and ensure long-term performance.

- Aluminium profiles are extruded from EN AW 6060 according to standards EN 12020, EN 573-3, EN 515 and EN 775-1 to 9 alloys.
- Fittings are cast from EN 12844 compliant Zamak 5.
- EPDM or TPE gaskets (Thermoplastic elastomer).
- Screws are made from stainless steel.

Finishes and colours

A wide range of finishes and colours is available to meet individual project requirements, enhancing existing buildings and offering architects and designers greater design freedom:

- Natural anodised in accordance with EN 123731: 2001.
- Polyester powder coating finishes in a wide range of colours in accordance with "QUALICOAT".
- TOPAZE is also available in lacquered finishes with exclusive Technal colours for a stylish and contemporary look.





1



2



3

1. Architect: Lacaton & Vassal Architectes Associés Photographer: Philippe Ruault
2. Architect: P & T Architects and Engineers LTD. Photographer: DR Technal
3. Architect: Nelly Breton and Olivier Fraisse Photographer: Daniel Rousselot

270, rue Léon-Joulin
BP 63709 - 31037 Toulouse cedex 1 - FRANCE
Tel. +33 5 61 31 28 28 - www.technal.com



The world looks better

