



Architects: 2RKS ARCHITECTURE & DESIGN | Photographer: John Porter

SAFETYLINE

CONTEMPORARY LOUVRE







SAFETYLINE, an aesthetic and efficient range



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Technal quality

Along with quality, Technal prides itself on innovation and design. This is the result of many years of product research and development with international teams of experts. Technal's Development Centre, based in France, has links with international teams based in several countries: UK, Spain, Portugal, China, India, Brunei... Its main aim is to create the products of tomorrow and to ensure coherence and compliance with Technal's quality standards in every country. All Technal products are tested in line with European standards and local standards upon request. Technal benefits from a certified testing laboratory which guarantees performance in terms of thermal properties, water tightness, shock resistance, wear, etc. The technical performance of Technal products, which often exceeds the norm, gives access to a wide range of possible solutions for each project.



Suitable for commercial and residential buildings

The SAFETYLINE system is ideal for new build or renovation projects involving commercial or residential properties.

This louvre system reduces reliance on air-conditioning by favouring the natural ventilation and solar protection of buildings, thus contributing to energy savings.

SAFETYLINE,
the contemporary
louvre



Key features and innovations

Large dimensions

- Available in sizes up to 1400 mm as a single unit or with an optional connector frame.
- Louvre up to 135 mm.
- Louvre open up to an 80° angle.

Security

- Extraction resistance of the louvre: traction in excess of 200 daN.
- Forced entry resistance: test level 2.
- Shock resistance: 900 joules (guardrail standards)
- Water tightness assured by marine grade EPDM seals.
- Movement and protection assured by polyamide flanges with overlaps for excellent water tightness.

Multiple configurations

- Significant choice of trim profiles: curved aluminium opening louvres, glass louvres or combinations of louvres.
- Frame with window assembly.
- Frame with mosquito screen.
- Integrated by juxtaposing frames, achieving free-moving frames, can be combined with casement frames, hinged doors or sliding doors from the TOPAZE range.

Technical performance

- Tested in accordance with European standards.
- Weather performance (A: air, E: water, V: wind): depending on the application, the results were as follows: A2 E7 VC5.
- Solar ageing: no notable change in characteristics after 300 hours.

Locking mechanisms

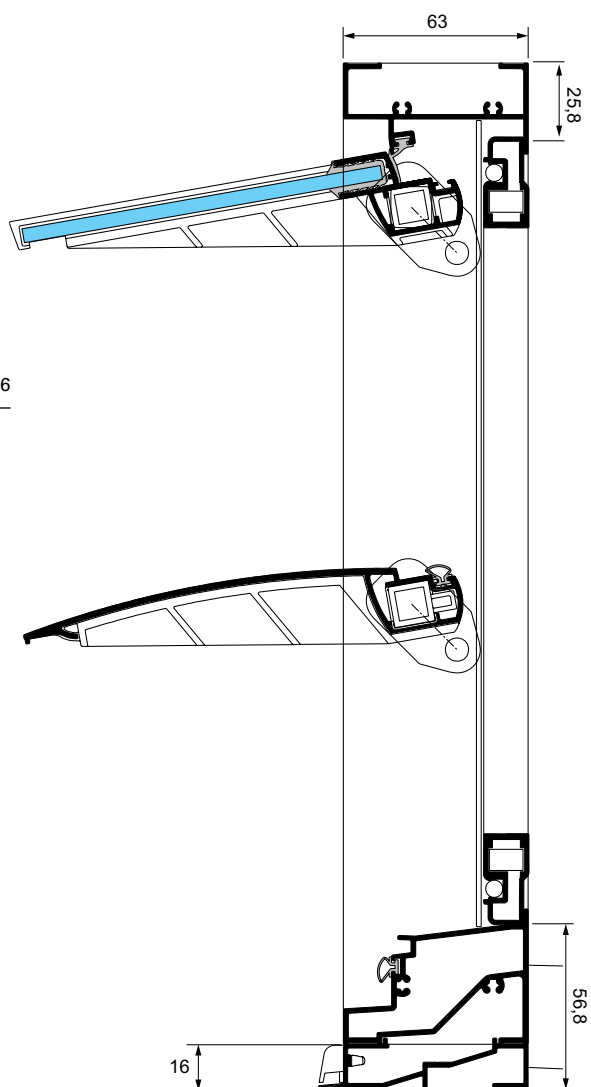
- Louvres are opened with rods fitted with crimped pins which activate the flanges directly.
 - Levers, knobs or cremone bolts enable the louvres to be opened symmetrically and simultaneously.
 - There is a spring-loaded compensator for the easy manipulation of the louvres in accordance with the size.



SAFETYLINE, Aesthetics

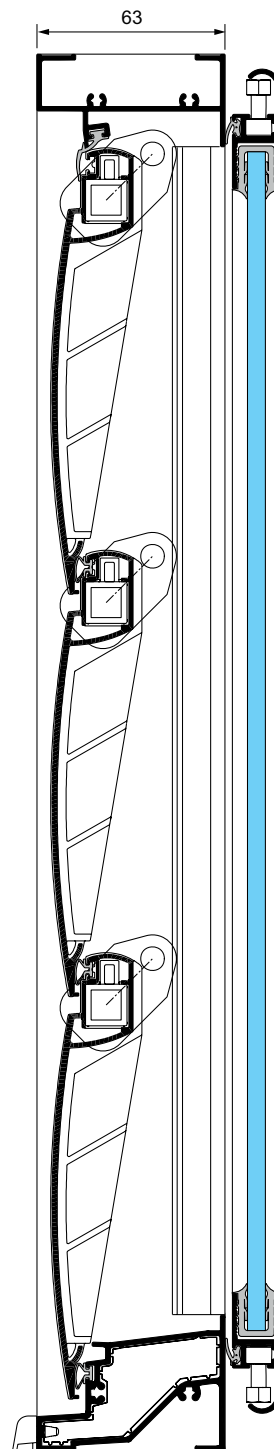
Frame with mosquito screen

Possibility of integrating an internal mosquito screen into the outer frame.



Frame with window assembly

Possibility of integrating a double glazing frame into the outer frame.



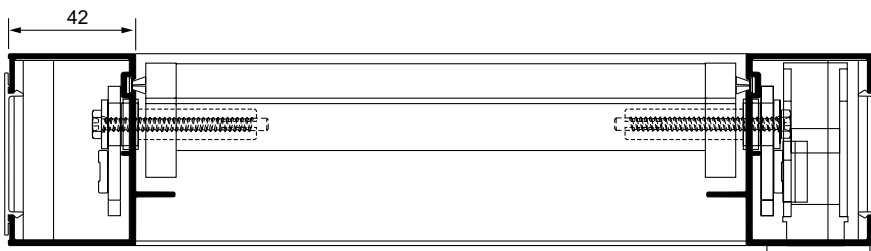
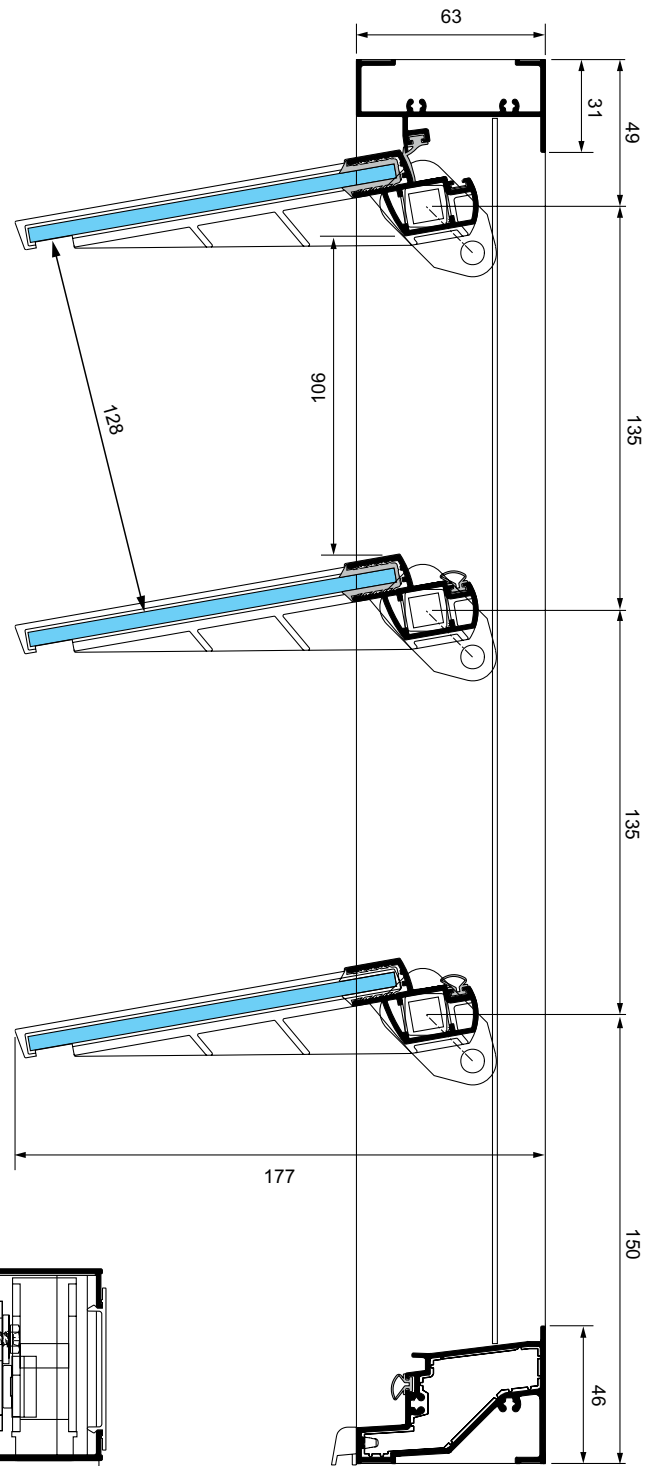
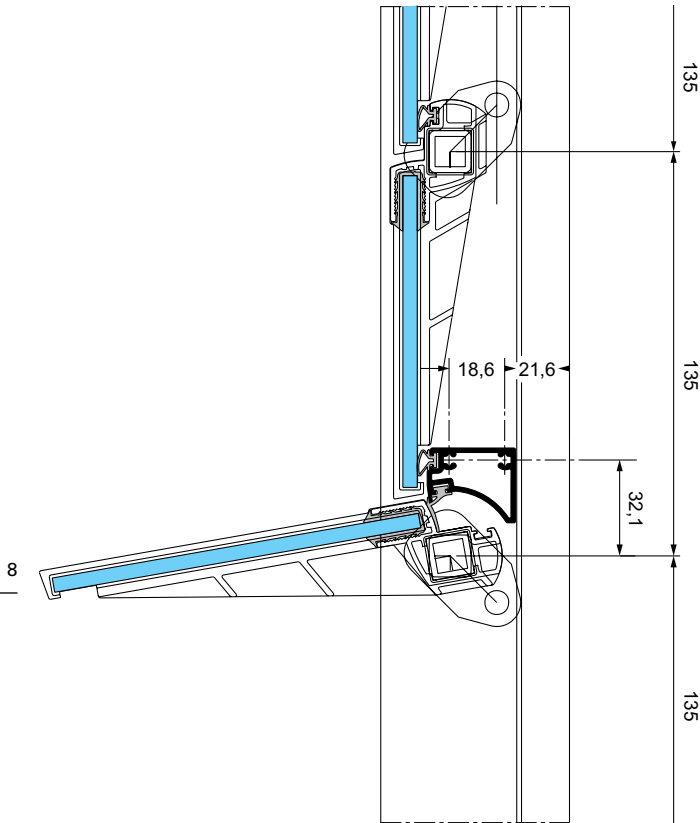


Architects: Antoine Perrou, Michel Reynaud Photographer: Hervé Douris

Sections

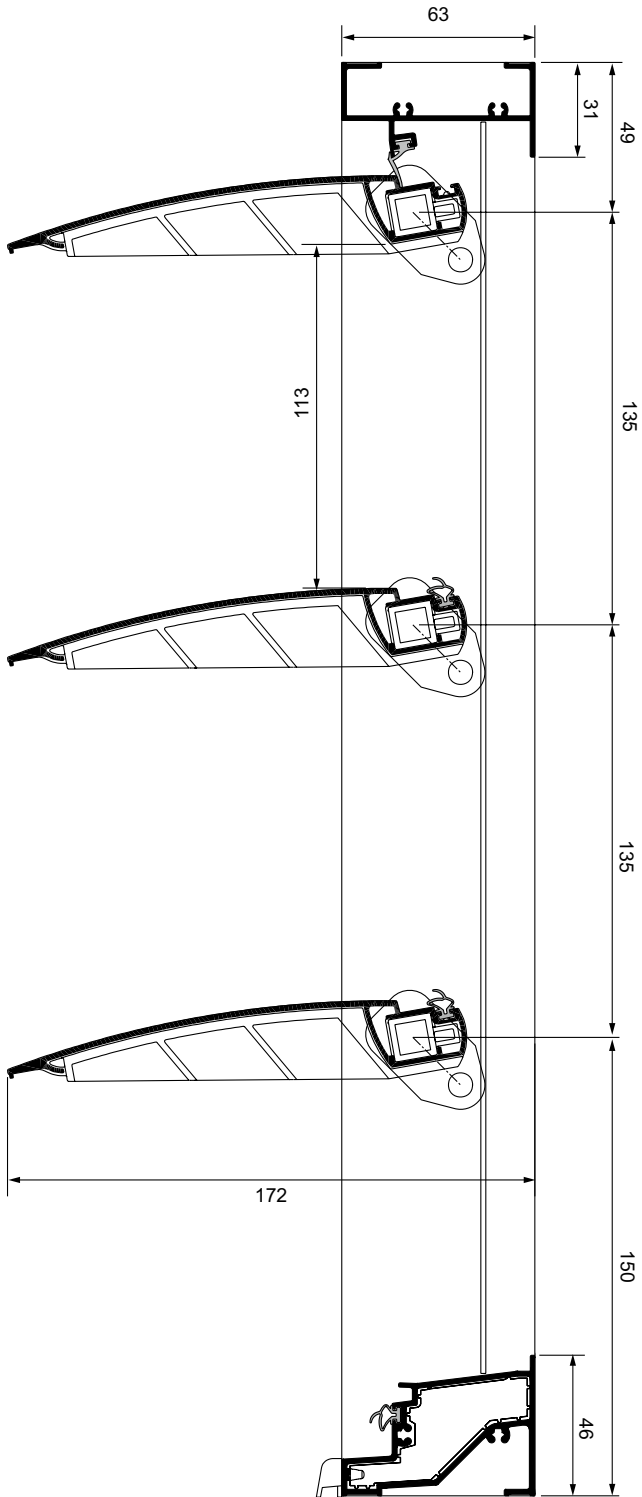
Intermediate transom

Glass louvre

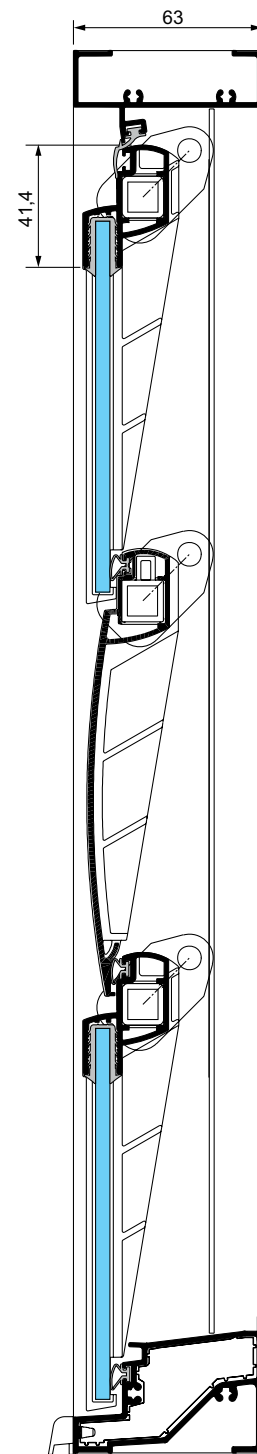


Horizontal cross-section

Aluminium louvre



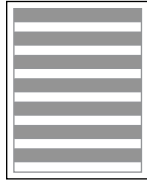
Combination louvre



Applications



Frame with glass louvres



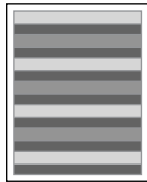
Frame with aluminium louvres



Combination frame with glass and aluminium louvres



Frame with window assembly



Frame with mosquito screen and window assembly

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 6060 T5 EN 12020, EN 573-3, EN 515 and EN 775-1 to 9 alloys.
- Fittings are cast from EN 12844 compliant Zamak 5.
- 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".
- SAFETYLINE is also available in lacquered finishes with exclusive Technal colours for a stylish and contemporary look.

Performance

WEATHER PERFORMANCE: A.E.V. (A: Air, E: Water, V: Wind)				
Type	Dimensions W x H in m	A	E	V
Glass louvre	1 x 1.14	2	7B	C5
Glass louvre	1.4 x 1.14	3	7B	A5
Glass louvre with transom	0.882 x 2.098	3	3A	C5
Aluminium louvre	1 x 1.14	2	4B	C5
Aluminium louvre	1.4 x 1.14	3	7B	NC

Performance in accordance with NF P 20-302/A1

SHOCK RESISTANCE			
Type	Dimensions W x H in m	Energy	Opinion
Centre of the bottom light (glass louvres)	1.4 x 2.089	600 J	Preferable
On the intermediary mullion (glass louvres)	1.4 x 2.089	900 J	Preferable
Centre of the bottom light (aluminium louvres)	1.4 x 2.089	600 J	Preferable
On the intermediary mullion (aluminium louvres)	1.4 x 2.089	900 J	Preferable



FORCED ENTRY RESISTANT FRAME WITH LAMINATED GLASS LOUVRES 6.6 mm		
Type	Dimensions W x H in m	Results
Blind in closed position	1549 x 799	Resistance of 2 min 42 sec
Blind in open position	11549 x 799	Resistance of 2 min 25 sec

Level 2 test for the standard XP ENV-1627 and XP ENV-1630.
CNPP tests MD050016 and MD050017 of 10/03/05.

WRENCHING THE GLASS LOUVRES FROM THE FRAME
Traction in excess of 200 daN on the frame without this coming loose.

Test N° Q-0305-01

SOLAR AGEING
On flanges and carriers, after 300 hours in accordance with the standard NFT51-056, no notable change in characteristics.

CSTB test N° 01-0020



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