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 / AN AESTHETIC AND EFFICIENT RANGE

A MODERN WINDOW WITH MULTIPLES BENEFITS

SAFETYLINE window offers quality, innovation and design, which are Technal’s strengths.

- Large dimensions
- High level of performances
- Multiple choices of composition: fixed louvres/moving, aluminium/glass/mixed
- Integration of mosquito screen
- Hidden motorisation
- Compatibility with TOPAZE range

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. Its 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 standards, allows a wide range of possible solutions for each project.
LOCKING MECHANISMS

- Louvres are opened with rods fitted with crimped pins which activate the flanges directly.
- Levers, knobs, espagnolette rods or winding mechanisms.
- A spring-loaded compensator for the easy manipulation of the louvres in accordance with size.

PERFORMANCE

- Tested in accordance with European standards.
- Watertightness ensured by EDPM gaskets on mullions and transoms.
- Solar ageing: no notable change in characteristics after 300 hours.

FITTING ENVIRONMENT

- Independent site installation or panelling.
- Complementary covering profiles according to the fitting situation.

LARGE SIZES

- 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

- Pull-out resistance of the louvre: traction in excess of 200 daN.
- Forced entry resistance.
- Hurricane resistance: class 5.

MULTIPLE CONFIGURATIONS

- Frames with glass or aluminium louvres.
- Mixed frames with glass and aluminium louvres.
- Option frame with mosquito screen.
- Balustrade function.
- Combination with TOPAZE range.
- Curved or flat aluminium louvres.
- Fixed or moving louvres.

INNOVATION

- Aluminium-/-glass adjustable flanges
- Integration of fixed louvres.
- Movement and protection assured by polyamide flanges with overlaps for excellent water tightness.
SAFETYLENE

/ AESTHETICS

LOUVRES

Glass louvre

Flat aluminium louvre

Curved aluminium louvre

adjustable

adjustable

CLOSURES

Technal developed a complete offer of exclusive-design aluminium handles that provides ergonomics, quality and identity.

Reversible handle

Indexed lever handle

Winding mechanism

Lever handle

Architects: Antoine Perceau, Michel Reynaud
Photographer: Hervé Douris
CROSS SECTIONS

GLASS LOUVRES

ALUMINIUM LOUVRES

MIXED LOUVRES

Horizontal cross-section

Vertical cross-section
CROSS SECTIONS

FRAME WITH MOSQUITO SCREEN
Option for integrating an internal mosquito screen into the outer frame

FIXED/MOVING LOUVRES WITH MIDRAIL

SITE INSTALLATION

INDEPENDENT

INDEPENDENT WITH PRESSING/ARCHITRAVE GROOVE

PANELLING
SAFETYLINE
/ INTEGRATED MOTORISATION

COMFORT AND WELL-BEING
This solution designed for jalousie SAFETYLINE motorisation reconciles users comfort, access and aesthetics, these are essential brand values.
For universal use, Technal’s motorisation devices have been shaped to offer self-adjustment for a power voltage between 110 and 240V.
Technal also offers an electronic card which functions at high humidity. Thus motorisation can be applied in any country, what-over the climate.
Technal has made motorisation an affordable option for many more users.

A FUTURE VISION
Motorisation, totally hidden in fixed frame, includes successful results on remote management of many assets.
Access: improve disabled access by facilitating access and manoeuvre.
Ventilation: greater well-being through natural ventilation and optimum internal temperature, reduces the need for air conditioning.
Universality: suited to new-build and renovation.
Installation: 3 years guaranteed, the motor is independent of the frames and allows easy access for maintenance.
The (+): easy to install and to use, motorisation is compatible with any building management system.
INNOVATION
• Motor size reduced at maximum.
• Exclusive drive system (Technal Patent).
• Rotating drive system made by square stem.
• Eliminates use of compensating spring.
• Control by domotisation / centralisation.

EFFICIENCY
• Low consumption motorisation (12 VDC / 10 W)
• Automatic rotation stop.
• Motor integration in standard fixed frame.
• External power use.

CONTROL
• Wired or radio remote control.
• Motorisation compatible to centralise management system allowing opening control of louvres.
• Simultaneous operation of 4 motors by switch and more with commercial power.

PERFORMANCES
• Tested at 30 000 cycles.
• Weather tightness identical with manual version.

TECHNICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage</td>
<td>12 VDC</td>
</tr>
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<td>Consumed power</td>
<td>10 W</td>
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<td>12 V</td>
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<td>Protection indicator</td>
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<tr>
<td>Operating temperature</td>
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AFTER SALES SERVICE
• Easy access to the motor for maintenance.
• Motor guarantee: 3 years.
• Possibility for manual operation.

SECURITY
• Closure speed in accordance with the 3rd class level of the (2006/42/EC) European standard:
  - 40 seconds for complete opening.
  - 45 seconds for complete closing.
• Possibility to connect with a presence sensor to meet requirements of schools, hospitals or any public buildings.
• Operation guarantee of electric elements at high humidity.

MULTIPLE APPLICATIONS
• Frame with glass or aluminium louvres.
• Mixed frames with glass and aluminium louvres.
• Frame with mosquito screen.
• Balustrade function.
• Can be combined with casements, hinged doors or sliding windows from the TOPAZE range.

MAXIMUM SIZES
• Wide width up to 1400 mm in a single element or with frame junction.
• One motor can run up to 18 aluminium louvres (2,4m high) or 12 glass louvres 1,6m high.
• Possibility to use different motors with different middle transoms.

INNOVATION
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CROSS SECTIONS

MOTORISATION WITH ONE MOTOR

MOTORISATION WITH MULTIPLE MOTORS AND MIDDLE TRANSOM

Horizontal cross-sections

Vertical cross-sections
PERFORMANCE


<table>
<thead>
<tr>
<th>Type</th>
<th>Dimensions W x H in m</th>
<th>A</th>
<th>E</th>
<th>V</th>
<th>Test n°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass louvre</td>
<td>1 x 1,144</td>
<td>2</td>
<td>7B</td>
<td>VCS</td>
<td>R15-03-04</td>
</tr>
<tr>
<td>Glass louvre</td>
<td>1,4 x 1,144</td>
<td>3</td>
<td>7B</td>
<td>VAS</td>
<td>R15-05-03</td>
</tr>
<tr>
<td>Flat aluminium louvre</td>
<td>1 x 1,144</td>
<td>2</td>
<td>7B</td>
<td>VCS</td>
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<td>3</td>
<td>7B</td>
<td>VAS</td>
<td>R15-05-02</td>
</tr>
<tr>
<td>Mixed louvres with middle transom</td>
<td>1,4 x 2,089</td>
<td>3</td>
<td>6B</td>
<td>VAS</td>
<td>R15-05-04</td>
</tr>
<tr>
<td>Rounded aluminium louvre</td>
<td>1,4 x 1,144</td>
<td>2</td>
<td>7B</td>
<td>NC</td>
<td>R02-05-02</td>
</tr>
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<td>Rounded aluminium louvre</td>
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<td>2</td>
<td>6B</td>
<td>VCS</td>
<td>R02-05-04</td>
</tr>
</tbody>
</table>

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".
- SAFETYLELINE is also available in lacquered finishes with exclusive Technal colours for a stylish and contemporary look.

Shock Resistance

<table>
<thead>
<tr>
<th>Type</th>
<th>Dimensions W x H</th>
<th>Energy</th>
<th>Opinion</th>
<th>Test n°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centre of the bottom light (glass louvres)</td>
<td>1,4 x 2,089</td>
<td>600 J</td>
<td>Preferable</td>
<td>R02-05-05</td>
</tr>
<tr>
<td>On the middle transom (glass louvres)</td>
<td>1,4 x 2,089</td>
<td>900 J</td>
<td>Preferable</td>
<td>R02-05-05</td>
</tr>
<tr>
<td>Centre of the bottom light (plate aluminium louvres)</td>
<td>1,4 x 2,089</td>
<td>600 J</td>
<td>Preferable</td>
<td>R14-12-01</td>
</tr>
<tr>
<td>On the middle transom (plate aluminium louvres)</td>
<td>1,4 x 2,089</td>
<td>900 J</td>
<td>Preferable</td>
<td>R14-12-01</td>
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<tr>
<td>Centre of the bottom light (aluminium louvres)</td>
<td>1,4 x 2,089</td>
<td>600 J</td>
<td>Preferable</td>
<td>R02-05-06</td>
</tr>
<tr>
<td>On the middle transom (aluminium louvres)</td>
<td>1,4 x 2,089</td>
<td>900 J</td>
<td>Preferable</td>
<td>R02-05-06</td>
</tr>
</tbody>
</table>

Pulling the glass louvres from the frame

Force in excess of 200daN on the frame without becoming loose.

Test N° 1 G 02 05 01

Solar Ageing

On flanges and carriers, after 300 hours in accordance with Standard NFT51-056, no notable change in characteristics.

CSTB Test N° 01-0020