

# SOLEAL

without thermal  
break

UNIVERSAL

SLIDING WINDOW



IMAGINE WHAT'S NEXT

**TECHNAL**



**Architect:** Paulus Setyabudi  
**Photographer:** Gerry Harjanto



# SOLEAL Sliding System

WITHOUT THERMAL BREAK

/ UNIVERSAL SLIDING WINDOW

## PERFORMANCE AND SIMPLICITY

The SOLEAL without thermal break offer provides tailored solutions for external joinery in tropical climates, or indoor joinery for partitioning spaces. Whether it's a new build or renovation, from the simplest to the most complex project, the SOLEAL sliding window offers a suitable solution every time.

The SOLEAL sliding window without thermal break is based on a 55 mm module. The installation and cladding environments are the same as for SOLEAL casements and doors.

The SOLEAL sliding window without thermal break range is available for different applications: 2 and 3 tracks of 2 to 5 leaves, composite frames, insect-screen solution.

All of these applications are available with concealed drainage and with or without a low threshold (reduced mobility access).

A paracyclonic version is also available to meet the requirements of tropical climates.

# SOLEAL 55

WITHOUT THERMAL BREAK

/ UNIVERSAL SLIDING WINDOW



# KEY FEATURES

## DESIGN

- Simplicity of forms and slim visible frames: 103mm on the edge, 33mm on the central mullions, and 136mm on the central meeting stile of the 4 leaves
- Discreet operating mechanisms
- Minimalist-style strip reinforcer which may be enhanced with a Décor profile (Technal patent)
- Concealed drainage with invisible water evacuation for all applications.

## LARGE DIMENSIONS

- A design appropriate for large sizes to maximize light gain
- Dimensions up to 3 m long x 2.5 m high (2-leaf frame with high inertia mullions)
- Max. weight per leaf: 200 kg

## PERFORMANCE

- Paracylonic and strengthened drainage version suitable for tropical zones

## MULTIPLE APPLICATIONS

- 2 to 6 leaves on 2 and 3 tracks
- Composite frames
- Insect-screen solution
- Cladding (flashings, sills and architraves) as for SOLEAL range doors and windows.

## 2 OPENING SECTION VERSIONS

- Opening for single-glazing from 6 to 13 mm
- Opening for double-glazing from 24 to 28 mm

## ACCESSIBILITY

- Specially adapted for easy access on all available applications

## LOCKING MECHANISMS

- Multiple combinations available with or without 1 to 4-point key-operated locking

# SOLEAL

/ A SLEEK AND CONTEMPORARY DESIGN

## STRAIGHT, MODERN LINES

- Careful design allowing concealed drainage for all proposed applications.
- Minimalist-style strip reinforcer: may be enhanced with a Décor profile (Technal patent) in a polished anodised finish.



Concealed drainage



Décor profile

## LOCKING MECHANISMS

- A variety of locking options available, from 1 to 4 locking points with or without key lock.
- Exclusive Technal design handle



Operating handle on service opening sash



Thumb-pull for semi-fixed opening sash



Designer handle on right-opening service sash



Operating button in conjunction with the strip reinforcer



Espagnolette identical to the casement and the door



Stainless steel handle

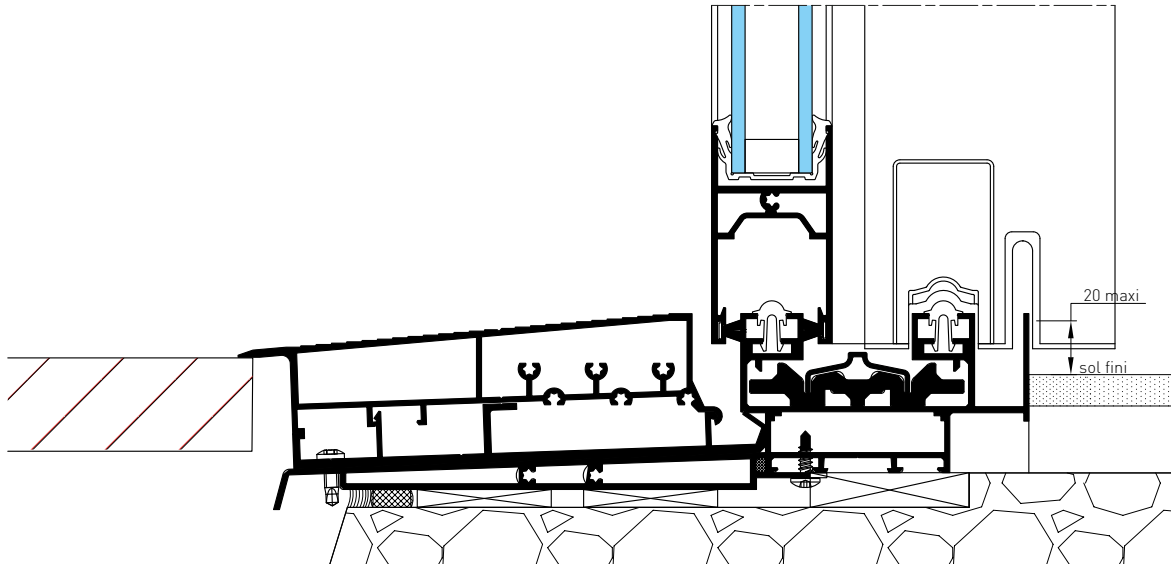
# SOLEAL

## / ACCESSIBILITY AND EASE OF USE

### LOW THRESHOLD

All SOLEAL patio-doors meet the requirements of French Act No. 2005-102 of 11/02/2005 regarding accessibility to buildings of reduced mobility persons.

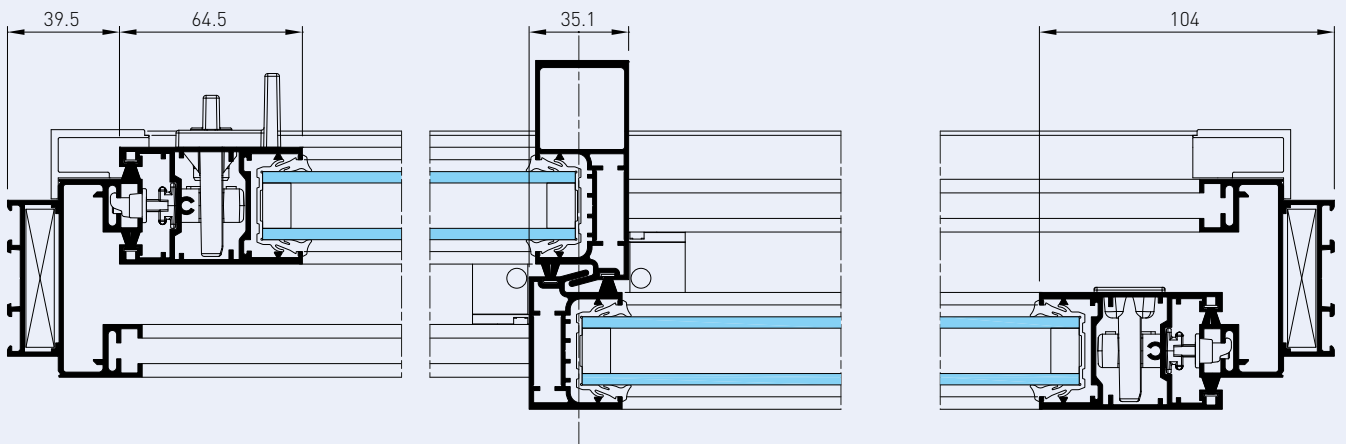
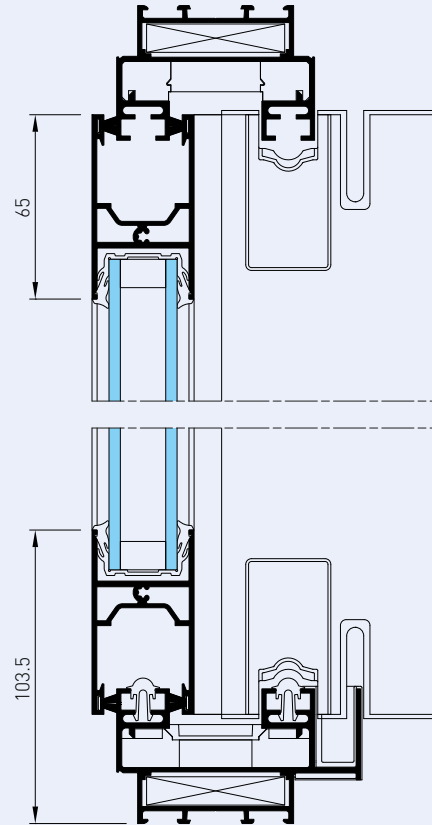
An extra device in addition to the frame, comprising an (external) access ramp and an additional aluminum profile (between tracks), can be used to create a disabled access window. This solution is available for new build or renovation work, and for all SOLEAL sliding window applications.



Low threshold on 2 track - 2 leaf frames (available in 3)

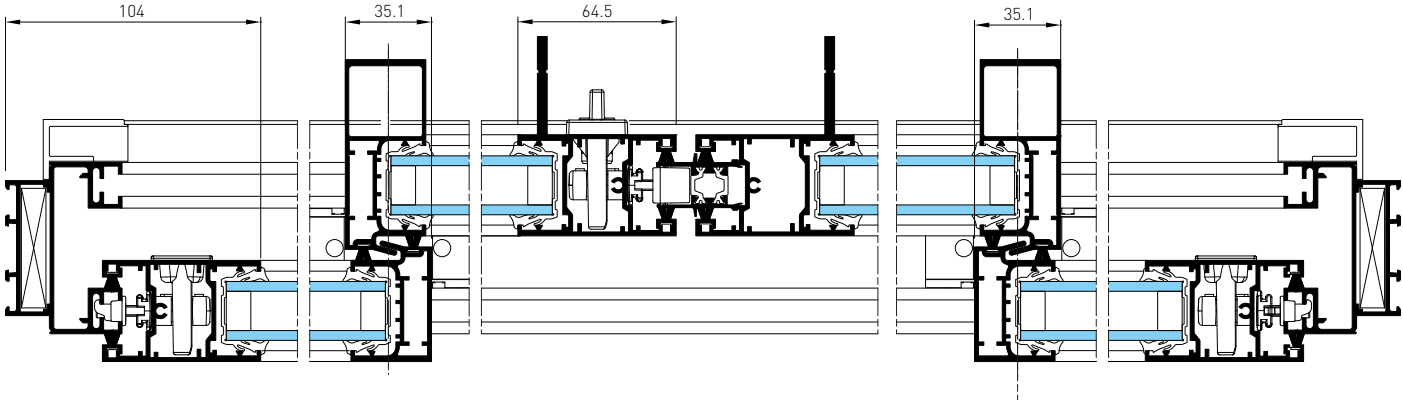
# SECTIONS

2 LEAVES, 2 TRACKS



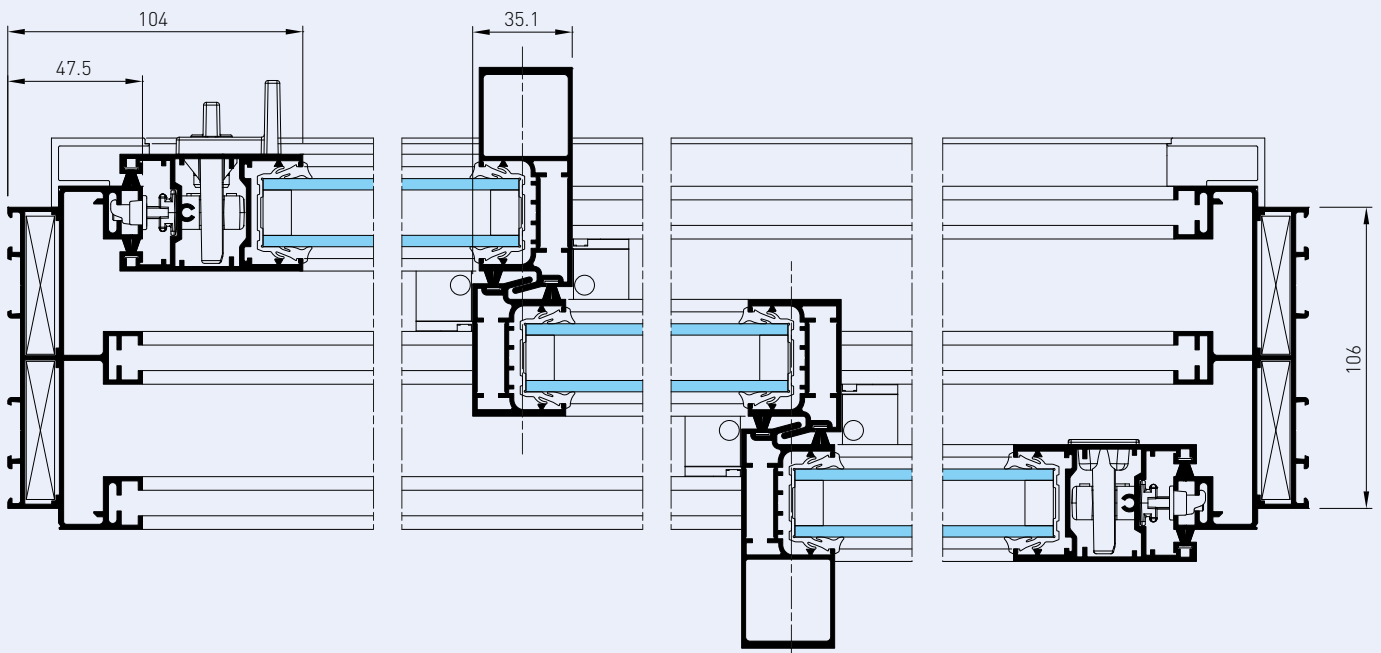
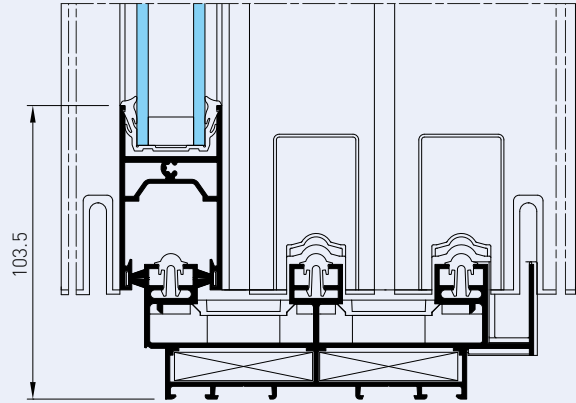


4 LEAVES, 2 TRACKS

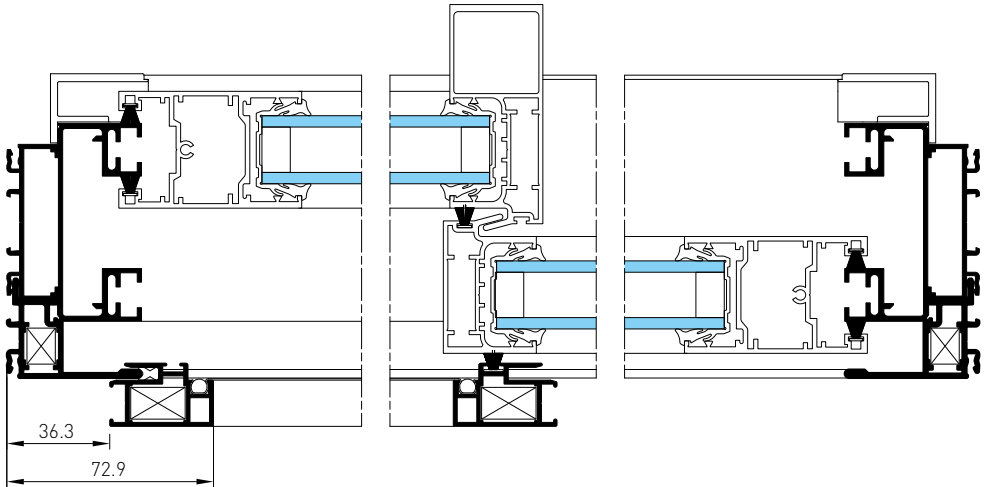
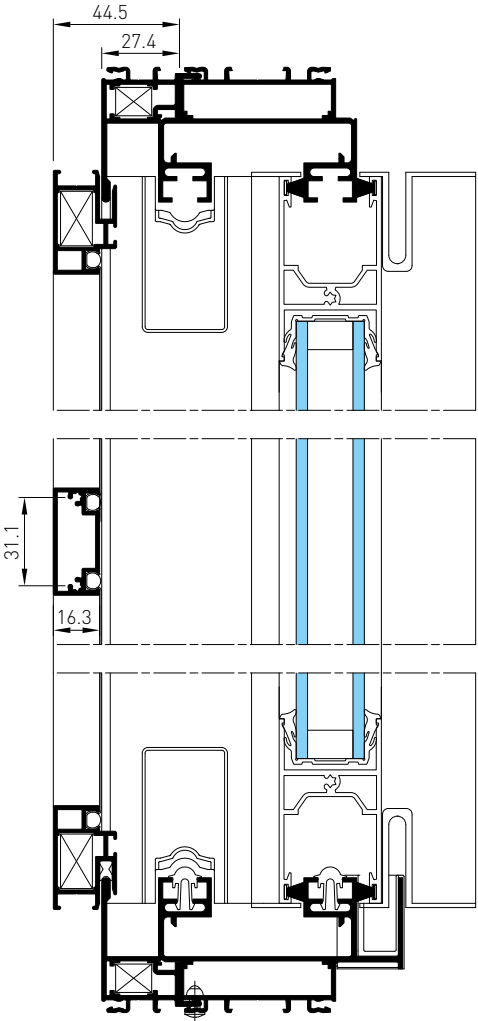


# SECTIONS

3 LEAVES, 3 TRACKS



INSECT-SCREEN



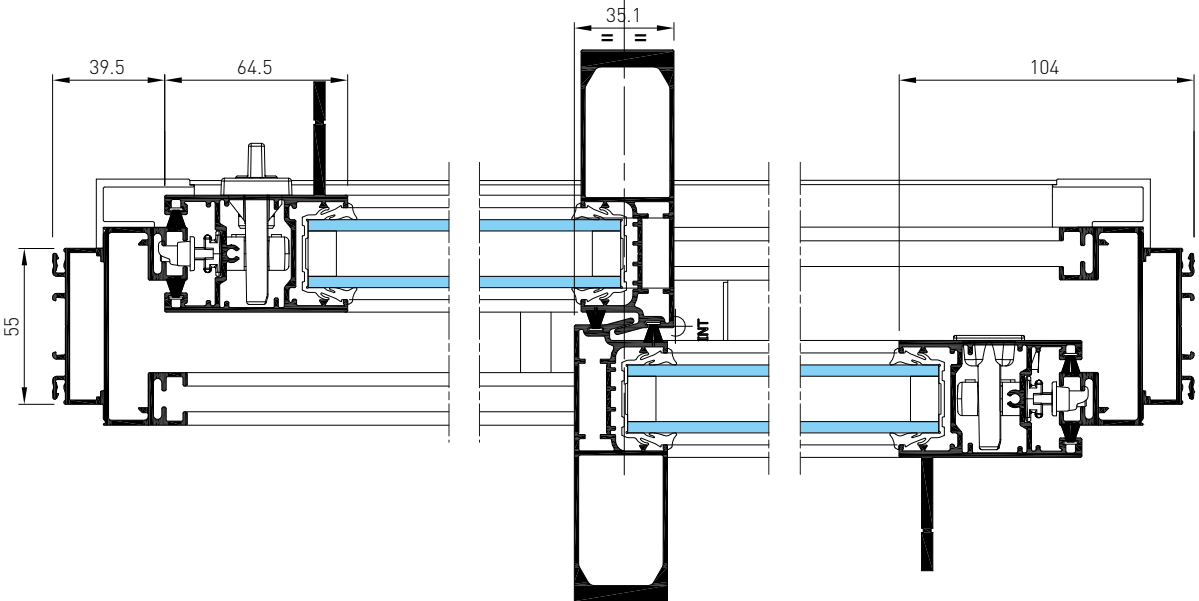
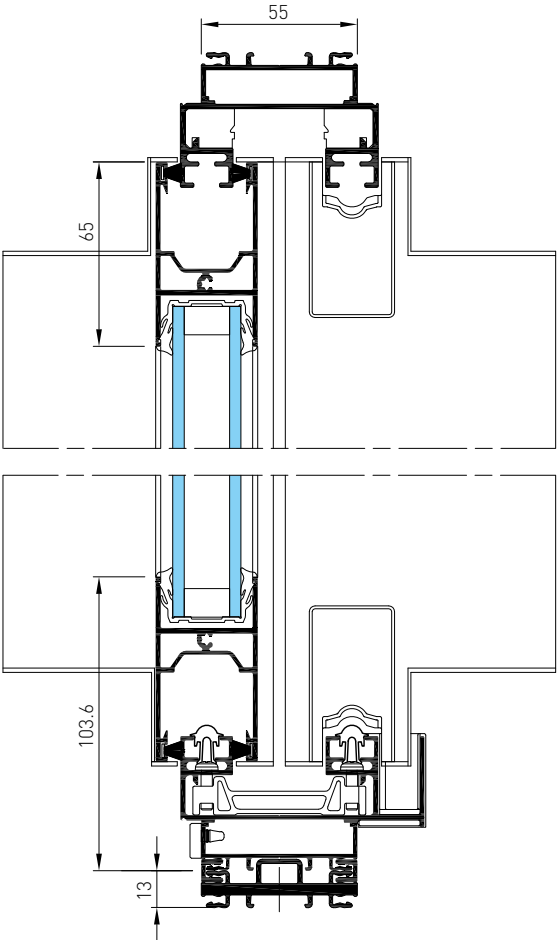
# SOLEAL

/ A SLIDING WINDOW SUITED TO TROPICAL ZONES

- The combination of high inertia mullions and a specific securing solution, in conjunction with strengthened drainage, provides performance suitable for tropical zones.
- The sliding window in the paracyclonic version is available with 2 and 3 tracks for sliding windows with 2 to 6 leaves.
- Sleek design: central strengthened mullion of 32.8 mm and strengthened lateral mullion in a straight design



2 LEAVES - 2 TRACKS, PARACYLONIC







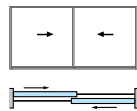
# APPLICATIONS

All these applications are available with concealed drainage.  
All patio door applications can be supplied with a low threshold.

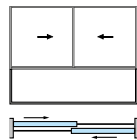
## REPRESENTATIONS VIEWED FROM THE EXTERIOR

### 2-LEAF

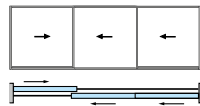
2-leaf



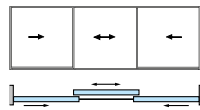
2-leaf composite by stacking



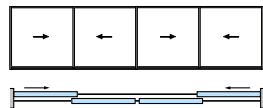
3 joined leaves



3 independent leaves

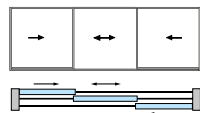


4-leaf

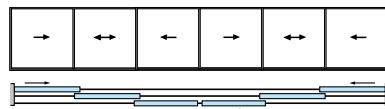


### 3 TRACKS

3-leaf



6-leaf





# PERFORMANCE

## ACCORDING TO EUROPEAN STANDARDS - FCBA

AIR, WATER, WIND SEALING PERFORMANCE				
Application (Height x Width)	Test no. according to European standard	Air permeability	Watertightness	Wind resistance
2-leaf patio door on 2 tracks H 2500 x W 3000 mm	FCBA No. 404/19/157-2	Class 4	Class E6A	Class C2
Strengthened drainage 2-leaf patio door on 2 tracks H 2500 x W 3000 mm	FCBA No. 404/19/157-3	Class 4	Class E7A	Class C2
Strengthened drainage paracylonic 2-leaf patio door on 2 tracks H 2200 x W 2200 mm	FCBA No. 404/19/233 - 2	Class 4	Class E7A	Class CE2250
Strengthened drainage paracylonic 2-leaf patio door on 4 tracks H 2200 x W 3000 mm	FCBA No. 404/19/233 - 1	Class 4	Class E5A	Class CE2250

Result of tests conducted according to the European standard  
- Air permeability test as per standard EN-1026, classification as per standard EN-12207.  
- Watertightness test as per standard EN-1027, classification as per standard EN-12208.  
- Wind resistance test as per standard EN-12210, classification as per standard EN-12211.





## MATERIALS AND COMPONENTS

As with all TECHNAL systems, only high-quality materials and components are used to reduce maintenance and guarantee long-term performance.

- Aluminum profile sections are extruded using building industry 6060 alloys meeting EN 12020, EN 573-3, EN 515 and EN 775-1 to 9.
- Accessories are cast using Zamak 5 meeting EN 12844.
- All seals are EPDM or TPE (ThermoPlastic Elastomer).
- Polyamide insulators are extruded using PA6-6 (0.25 FV)
- Screws are made of stainless steel.

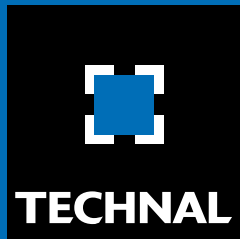
## FINISHES AND COLOURS

A wide range of finishes is available to meet the requirements of individual projects, to enhance existing buildings and to offer increased design choice to architects and designers:

- Natural anodised in compliance with EN 123731: 2001.
- Polyester coated finishes in an extensive range of colours, in compliance with QUALICOAT instructions.
- SOLEAL is also available in painted finishes in exclusive TECHNAL colors for a stylish and contemporary appearance.



**Architectural agency:** Salworks  
**Photographer:** Salworks



IMAGINE WHAT'S NEXT

270 rue Léon-Joulin  
BP 63709 • 31037 Toulouse cedex 1 France  
Tel. +33 (0)5 61 31 28 28 - [www.technal.com](http://www.technal.com)



By  Hydro