

# PYROAL

THE FIRE SAFETY DOOR



Architects: LCR architectes  
Photography: Sylvain Mille - Anne Vachon Productions

IMAGINE WHAT'S NEXT





Photographer: Anne Vachon Productions

## **PYROAL** / THE FIRE SAFETY CERTIFIED SOLUTION

### **FIRE SAFETY, A UNIVERSAL CONCERN**

The PYROAL Fire Safety door meets three levels of classification - the E30, EI30 and EI60 - in accordance with NF EN 1634 and EN 13501 standards.

These certifications allow an usage in public facilities (hospitals, retirement homes, restaurants, primary and secondary schools, theatres and leisure centres, offices, etc.), collective housing, warehouses and industrial premises, whether in new constructions or refurbishment and in order to comply with regulations.

### **A NEW DOOR TO MEET YOUR NEEDS**

PYROAL is a solution to protect against fires occurring primarily inside buildings and offers a comprehensive range of glazed doors and partitions.

This Fire Safety certified (E30, EI30, EI60) aluminium door (with thermal break), is available in a 1- or 2-leaf, open-in or open-out hinged door with fixed top lights and/or fixed side lights.

It partitions the spread of flames and smoke, reinforces heat resistance, in accordance with new regulations.



Photo credit: Fotolia

# PYROAL

/ THE FIRE SAFETY DOOR



## KEY FEATURES

### FEATURES

- Aluminium doors with thermal breaks
- 1- and 2-leaf, open-in and anti-panic door configurations
- Configuration possible with a fixed side light and fixed top light
- Resistant to flames and flammable gases
- Module: 77 mm
- Infill: 10 to 49 mm
- Wide selection of finishes

### THRESHOLDS

- Threshold with or without an EPDM sealing lip
- Disabled access threshold
- Flush mounted solution without a sealing system

### CLOSURE SYSTEMS

- Wide selection of accessories and locks
- Anti-panic bars (main and semi-fixed door)

### PERFORMANCE

Complies with fire resistance categories E30, EI30, EI60 in accordance with EN 1634 and EN 13501 standards.

- Tests carried out on both sides in relation to the direction of the fire.
- Specific reinforcements: intumescent seal strips positioned around the edge of the glass, retainer clips fixed to the profiles and intumescent joint seals inserted into the grooves of the profiles .
- Dimensions
  - Main leaf: W. 1400 x H. 2826 mm
  - Semi-fixed leaf: W. 1157 x H. 2826 mm
  - 2-leaf door integrated into the glazed partition (Efectis 13-A-141 report)
- Maximum weight per leaf: up to 261 kg (according to the report)

### ACCESSIBILITY

- System configured to provide easy access in all available configurations (disabled access threshold)



# PYROAL

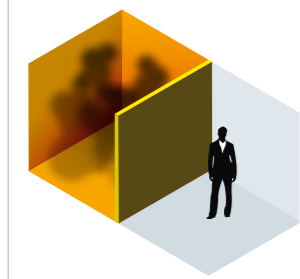
## / FIRE SAFETY AND ACCESSIBILITY

### HEAT RESISTANCE

**Fire Safety certified** according to NF EN 1634 and EN 13501 standards, this door fulfils the requirements for three classification levels:

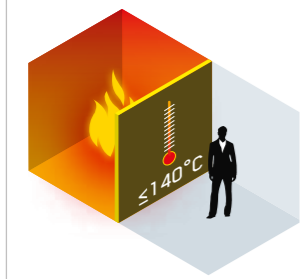
- E30 flame resistance, guaranteeing a seal against combustion gases, fumes and flames for 30 minutes.
- EI30 fire proofing, combining flame resistance and thermal shield properties to prevent the spread of heat for 30 minutes.
- EI60 fire proofing, maintaining the seal and insulation for 60 minutes (report available December 2016)

#### Sealing criteria test [E]



The sealing criteria [E] is the capacity of the test sample to maintain its separation function, which means providing a physical barrier against the flames, fumes and hot gases. The construction element must not have any openings (cracks, splits, open joints) that could let through high flows of combustion gases which could cause the fire to spread due to their high temperature.

#### Insulation criteria test [I]



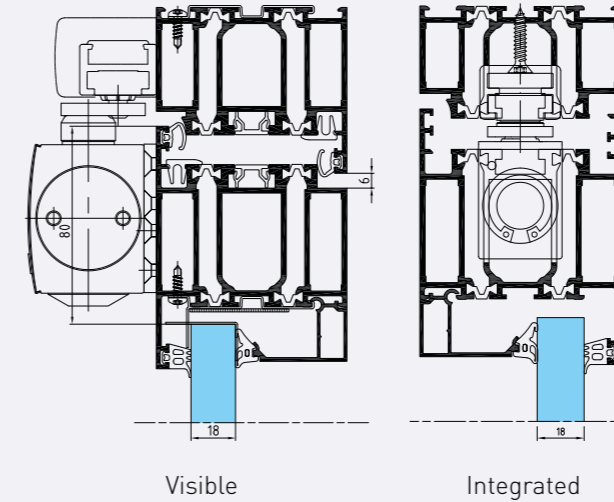
The thermal insulation criteria [I] limits the increase in temperature permitted on the side of the element that isn't exposed to the fire as this creates a barrier against the heat. It represents a period, expressed in minutes, during which the tested element must retain its separation function (throughout the tests) without the unexposed surface reaching a temperature:

- 140 °C higher than the average initial temperature or
- 180 °C higher than the initial temperature at any point (including with a movable probe).

### DOOR CLOSER

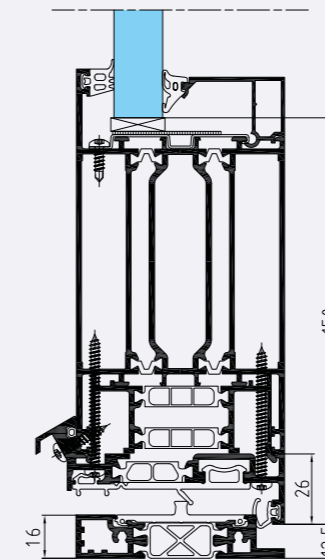
PYROAL offers a wide selection of door closers in accordance with EN 1154:

- Visible: standard hinge-side mounting or on the opposite side to the hinge
- Integrated into the top of the opening frame for discreet door closure assistance



### DISABLED ACCESS THRESHOLD

The PYROAL's disabled access threshold meets the decree regulating door access while maintaining high sealing performances and complies with many regulations with its height of 16 mm.



# PYROAL

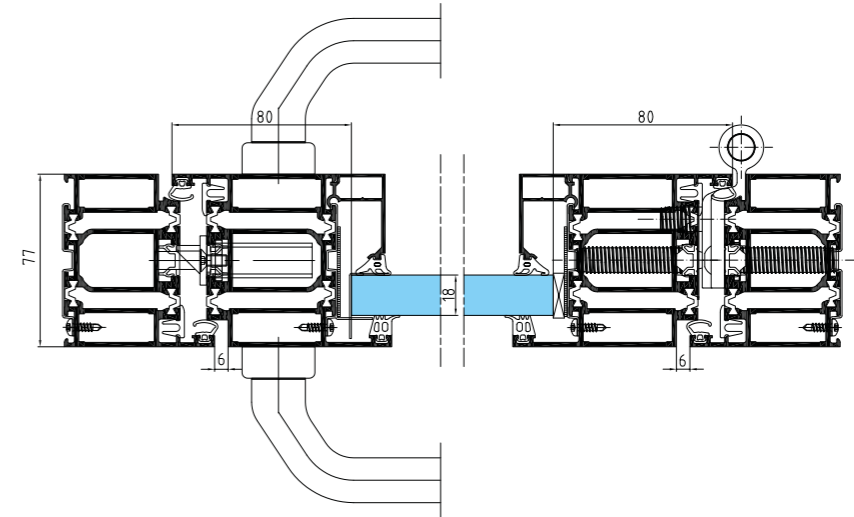
/ A WIDE RANGE OF CLOSING MECHANISMS AND ACCESSORIES

## STANDARD CLOSING MECHANISMS

- 1- to 3-point lock
- Electric lock
- Electric strike
- Surface mounted or integrated closing mechanism (EI30 only)
- Choice of handles: screw-in or clamp-mounted

## ANTI-PANIC/EMERGENCY EXIT RANGE

- Anti-panic bar
- Lock with anti-panic function and automatic mechanical locking (from 1 to 4 points)
- Locking in accordance with EN 1125 / EN 179: anti-panic door and emergency exit
- Electric safety lock (motorised)
- Electric strike for emergency exit doors
- Top door closer in accordance with EN 1154 - surface mounted or integrated (EI30 only)



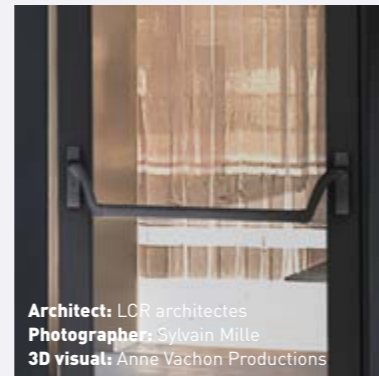
Photographer: Anne Vachon Productions

Handles



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Handles



Architect: LCR architectes  
Photographer: Sylvain Mille  
3D visual: Anne Vachon Productions

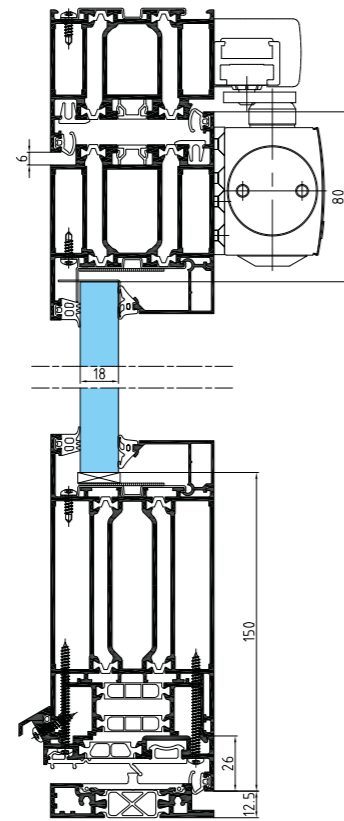
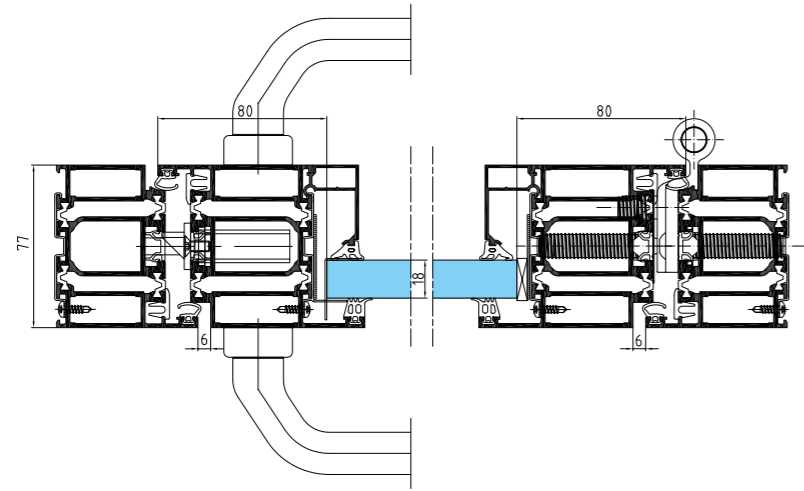
Anti-panic bar



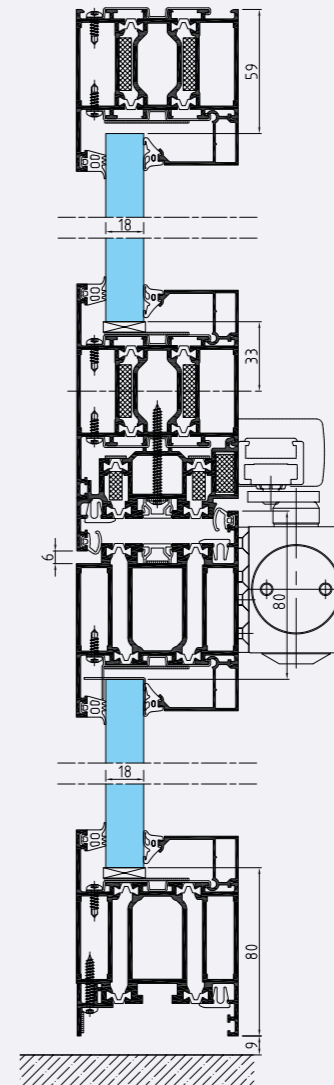
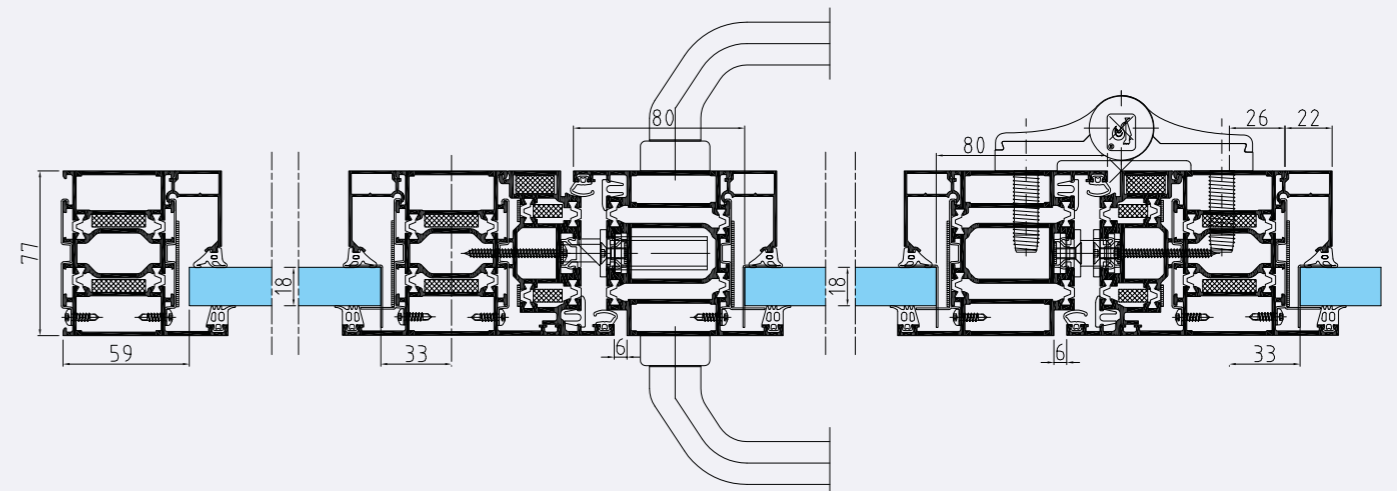
Architect: Patrick Arotcharen  
Photographer: Vincent Monthiers

# CROSS-SECTIONS

1-LEAF, OPEN-IN DOOR WITH A DISABLED ACCESS THRESHOLD

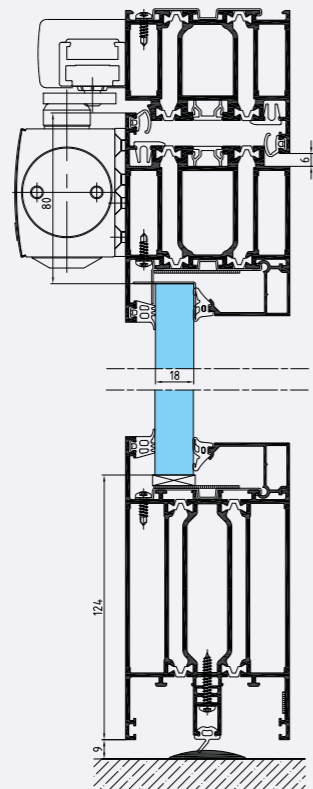
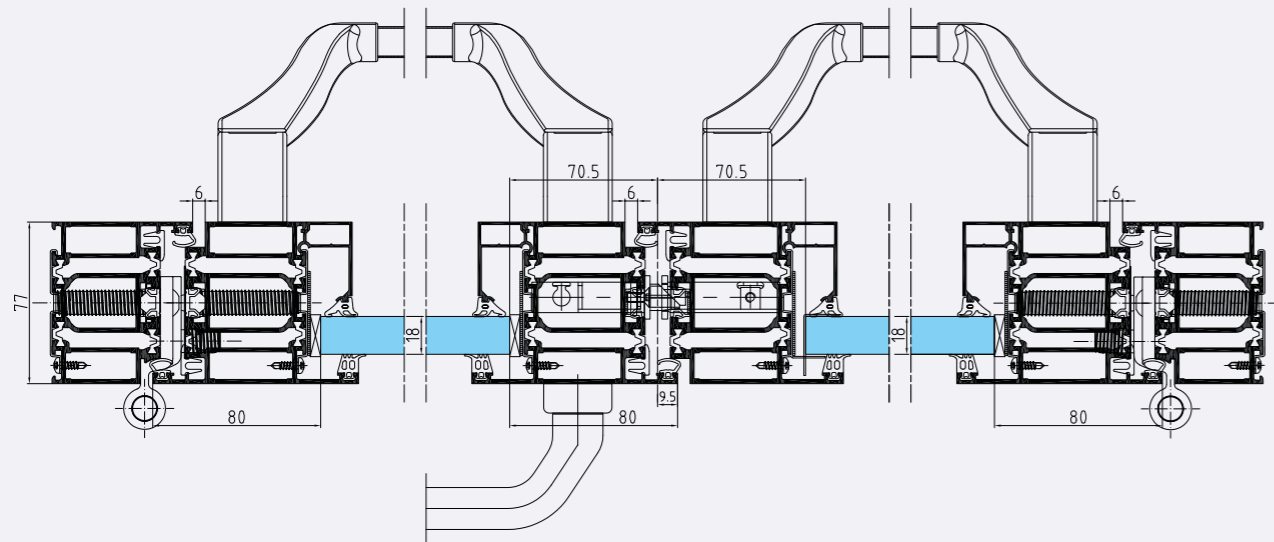


1-LEAF, OPEN-IN DOOR WITH A FIXED TOP LIGHT AND SIDE LIGHTS

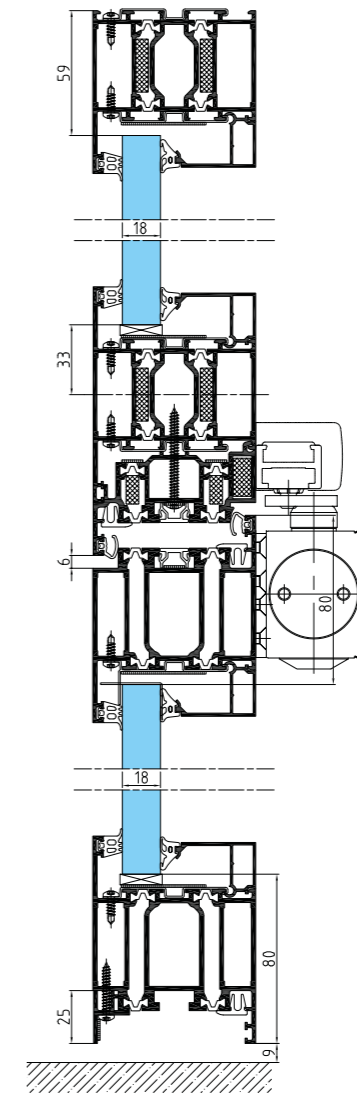
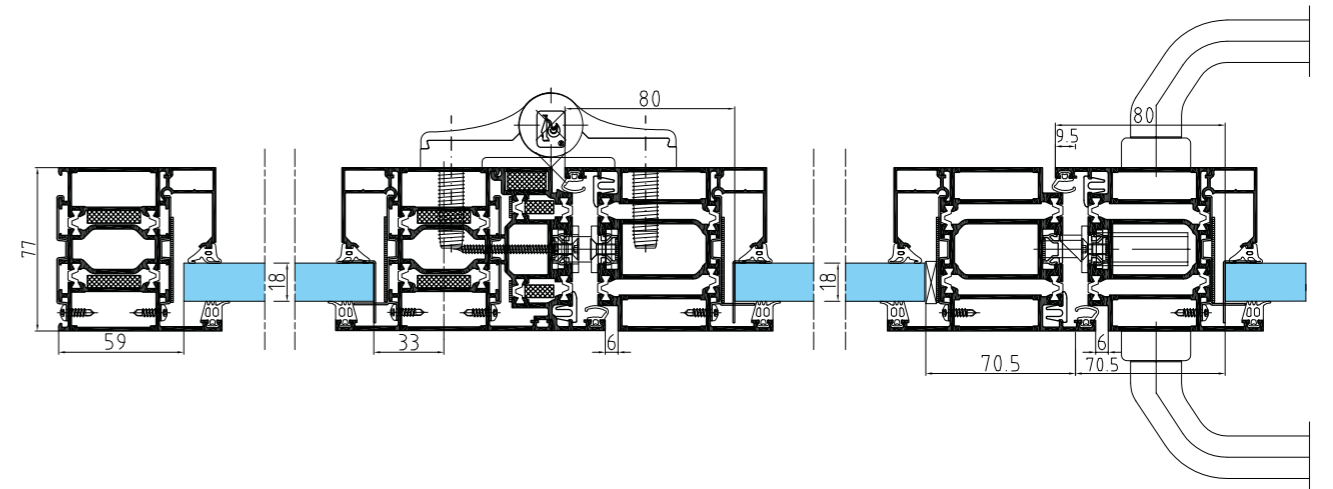


# CROSS-SECTIONS

2-LEAF, OPEN-OUT, ANTI-PANIC DOOR

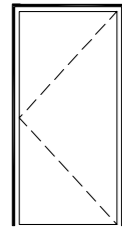


2-LEAF, OPEN-IN DOOR WITH FIXED SIDE AND TOP LIGHTS

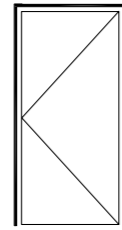




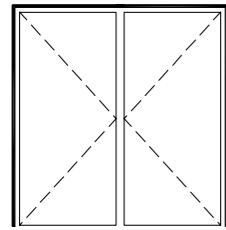
# CONFIGURATIONS



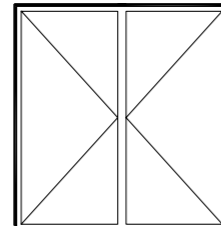
1-leaf, open-in



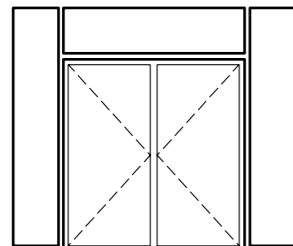
1-leaf, open-out



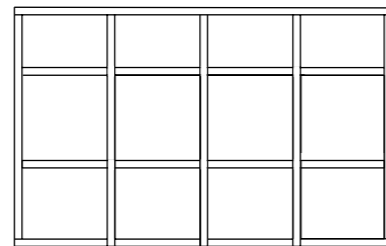
2-leaf, open-in



2-leaf, open-out



Composite frame



Partition

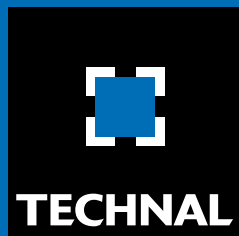
# MATERIALS AND PARTS

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

- The aluminium profiles are extruded from construction grade 6060 alloys
- The polyamide thermal breaks are extruded from PA6-6
- All seals are made from EPDM
- Stainless steel screws







IMAGINE WHAT'S NEXT

270, rue Léon-Joulin  
BP 63709 - 31037 Toulouse cedex 1  
Tél. 05 61 31 28 28 - [www.technal.com](http://www.technal.com)



By  Hydro