



AMBIAL

THE VERSATILE FOLDING DOOR





AMBIAL, super sized, singular and high performance openings



Photo: Anne Vachon Productions

The new AMBIAL folding door creates a full opening to the outdoor, allowing to enjoy a panoramic view, letting natural light flowing in.

High performance. AMBIAL, the folding sliding door, can accommodate up to 10 leaves, each with a maximum height of 3 m and a maximum width of 1.2 m, allowing an opening 12 m wide. Each leaf, supported by exclusive Technal tracks, can bear a weight of up to 15 kg whilst providing high thermal performances, water and wind resistance.

Sleek design. The finishes have been carefully designed down to the finest detail to offer visual harmony in both closed and open position. The profiles are flush and the visible elements are subtle and well-balanced. The screws are concealed with black caps to ensure the homogeneity of the frame when open.

Wide selection of configurations. Open-in, open-out, central or side opening configurations, AMBIAL can be adapted to meet all requirements and encourages architectural creativity: villas, architect-built houses, house extensions, hotel or restaurant terraces...



AMBIAL, the multi-space folding door





Key features and innovations

Features

- 75 mm module
- 2 heights of opening frame possible:
 - 63 mm as standard
 - 73 mm reinforced version for large openings
- 3-point locking system with insulated key lock
- Threshold:
 - Standard double brush seal
 - Can be recessed for disabled access threshold
 - Rebate profile for enhanced performance

Aesthetics and comfort

- Patented design
- Aesthetic and totally flush when closed, straight lines
- Visual homogeneity when closed
- Wide selection of opening configurations from 3 to 10 leaves that can open inwards or outwards, from the centre or from one side.
- Magnetic stops to protect the door from shocks when open
- Extra flat handle and key
- Folding pull handle for ease of closure

Large dimensions

- Large sizes up to: W 1.2 m x H 3 m per leaf
- Weight: up to 150 kg per leaf
- Infill from 9 to 52 mm

Performance

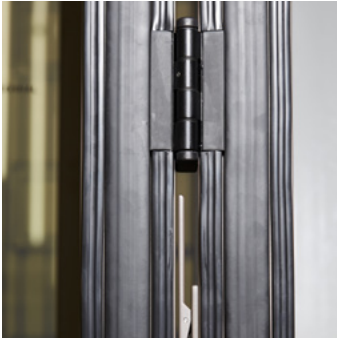
- $U_w = 0.95 \text{ W/m}^2\text{K}$ with $U_g = 0.5 \text{ W/m}^2\text{K}$ (5 leaves L 6 m x H 3 m) and $TL_w = 0.53 \text{ W/m}^2\text{K}$
- Weather performance:
 - Air: Class 3
 - Water: Class 8A
 - Wind: Class C3
- Operating effort: Class 1 (less than 100 N)
- Mechanical resistance: Class 3
- Anti-corrosion hardware: Grade 5 (420 h in neutral salt spray)
- Endurance: 25,000 cycles (3 leaves of 150 kg)

Installation and assembly

- Reversible profiles, accessories and seals
- Simple adjustment on site (vertical and lateral):
 - Vertical + 3 mm / - 1 mm
 - Lateral + 5 mm / - 5 mm
- Same size glazing



AMBIAL, elegant lines and fine details



Seals

- Straight vertical black lines uniform in the open position
- Black seals and hardware
- Black hinges concealed in the vertical line of the seal
- Screw heads concealed by black caps contributing to the water tightness
- Black brush seals



Rollers

- Supported system for greater stability
- Bottom wheels concealed by black covers fitted with gaskets to help clean the tracks (exclusive Technal design)
- Stainless steel tracks and rollers
- Recessing possible for a flat threshold
- Anti-slip weight-bearing wheel and security top wheel





Handles for intermediary leaves

- Exclusive Technal design
- Handles and half-cylinder key caps can be painted in all Technal colours
- Extra flat handles and keys: no risk of damaging profiles or the key in folded position
- Concealed fixings in closed position
- 22 mm insulated face plate with black casing
- Hinge-mounted pull handle for ease of closure



Groove covers

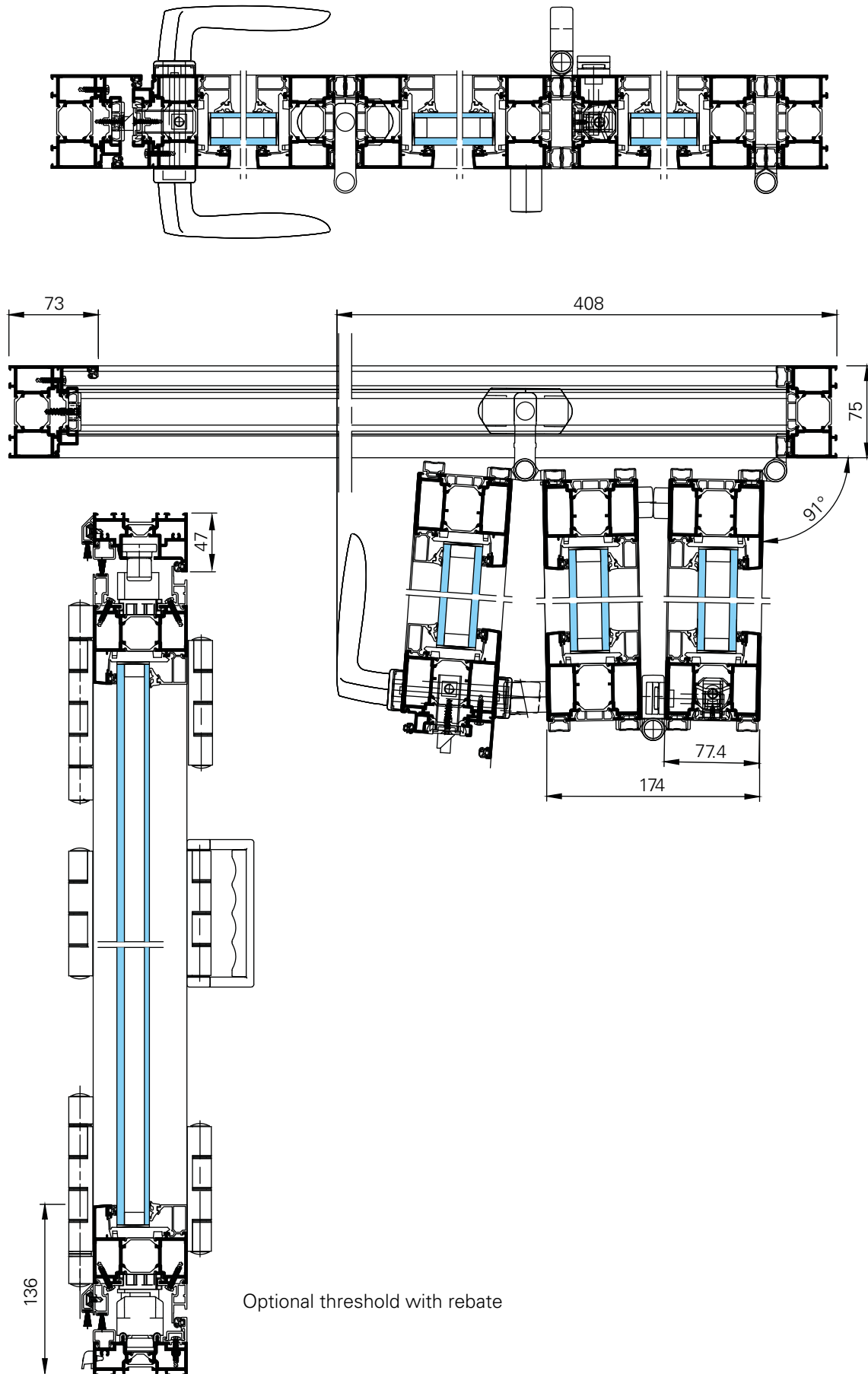
- Synthetic black profile
- Black acoustic seal

Photos: Anne Vachon Productions

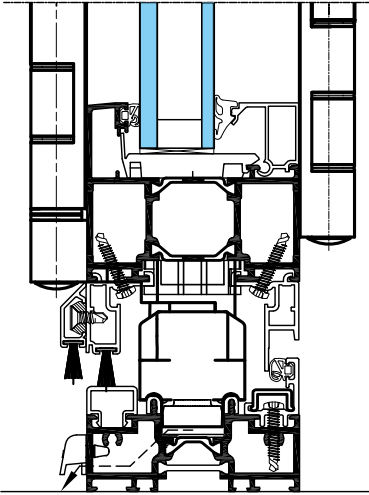


Cross-sections

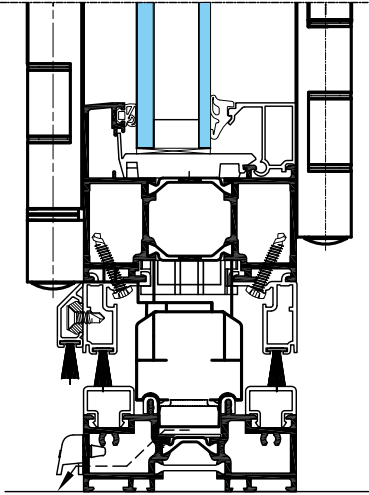
3 leaves, open-out



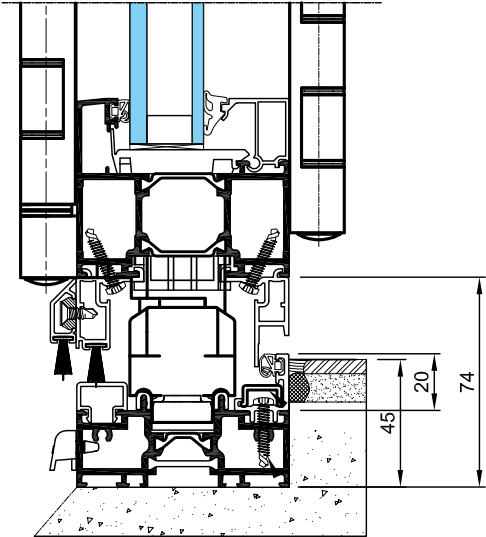
Thresholds



Open-out: with rebate



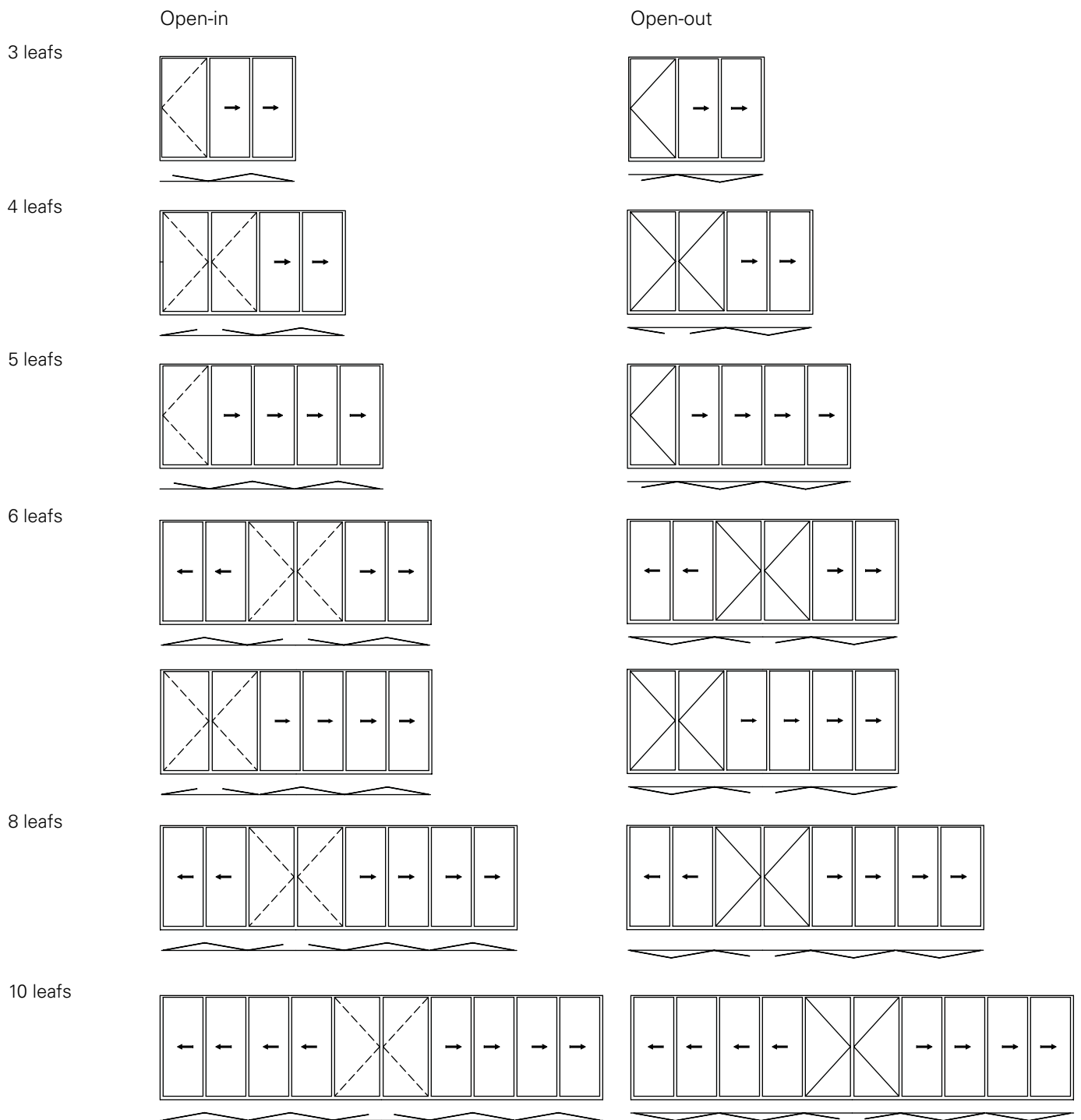
Open-in or open-out: with double brush seal



Open-out: recessed disabled access threshold



Configurations



Performance

AEV PERFORMANCE: (Air, Water, Wind)			
AMBIAL	Air permeability	Water tightness	Resistance to wind pressure
3 leaves	Class 3	Class 8A	Class C3

THERMAL PERFORMANCE - Uw				
Configurations	Size W x H in m	Uw with Ug 0.6 triple glazing	Uw with Ug 0.5 warm edge triple glazing	Uw with Ug 1.0 double glazing
3 leaves	3.45 x 2.18	1.4	1.2	1.6
5 leaves	6.00 x 3.00		0.95	
6 leaves	6.90 x 2.18	1.3	1.1	1.6
10 leaves	11.50 x 2.18	1.3	1.1	1.6

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 alloys 6060 Building compliant with EN 12020, EN 573-3, EN 515 and EN 775-1 to 9.
- Fittings are cast from EN 12844 compliant Zamak 5.
- All seals are EPDM or TPE (Thermoplastic elastomer).
- The polyamide thermal breaks are extruded from pA6-6 (0.25 FV).
- 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 coating finishes in a wide range of colours in accordance with "QUALICOAT" instructions.
- AMBIAL is also available in lacquered finishes with exclusive Technal colours for a stylish and contemporary look.





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1 and 2: Design: boschyserrret.com 3D image: beauty&thebit
3: Anne Vachon Productions

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The world looks better

