

# P1

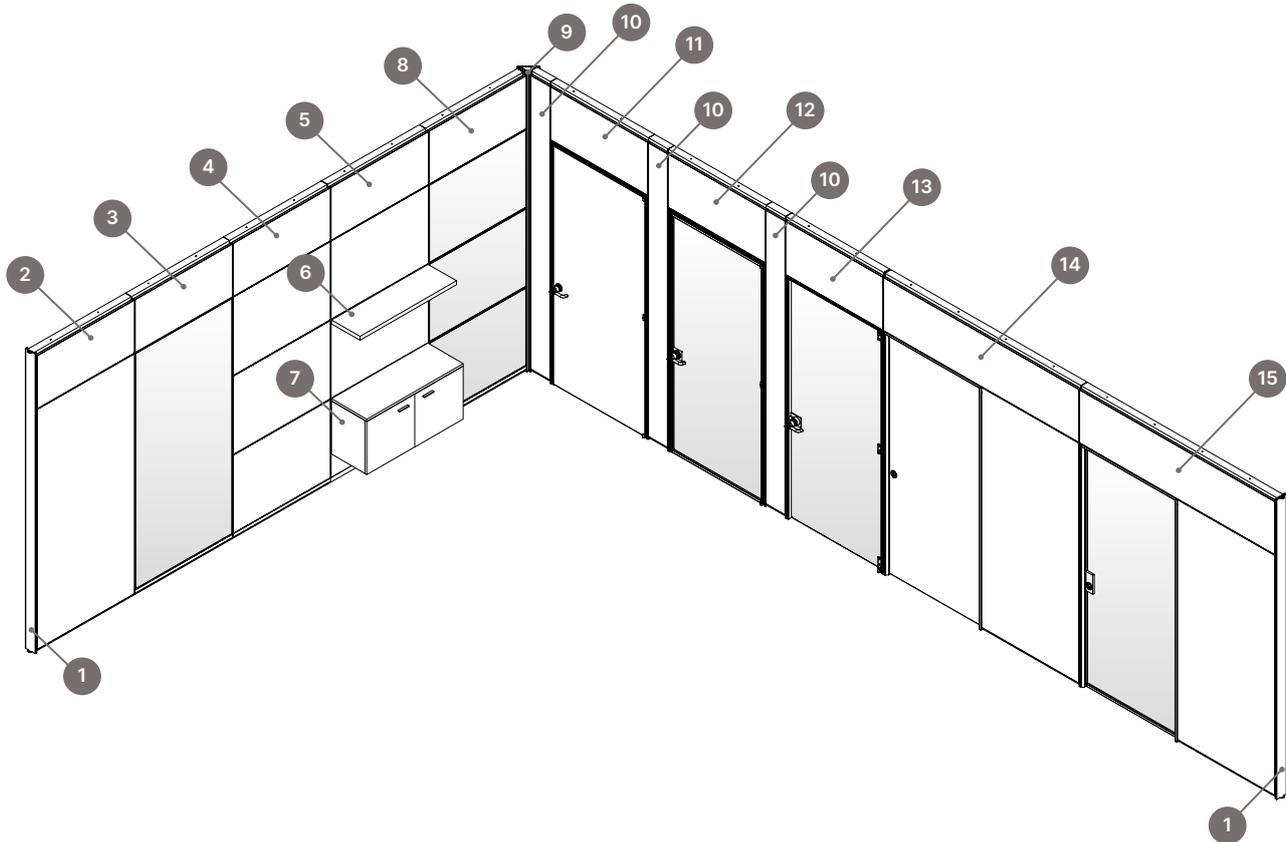
design office



The visual impact of this partition is characterized by 18mm thick panels and 26mm wide, 18mm deep recessed gaps all around the edges both in the joints between the partition and the floor or ceiling and in the joints between the partition and the masonry.

The modules are available in different widths: 200 – 500 – 1000 – 1500 – 2000mm. Other widths can be supplied on demand or by using the filler panels. The horizontal and vertical gaps between panels or doors measure 4mm. The partition panel is 100mm thick.

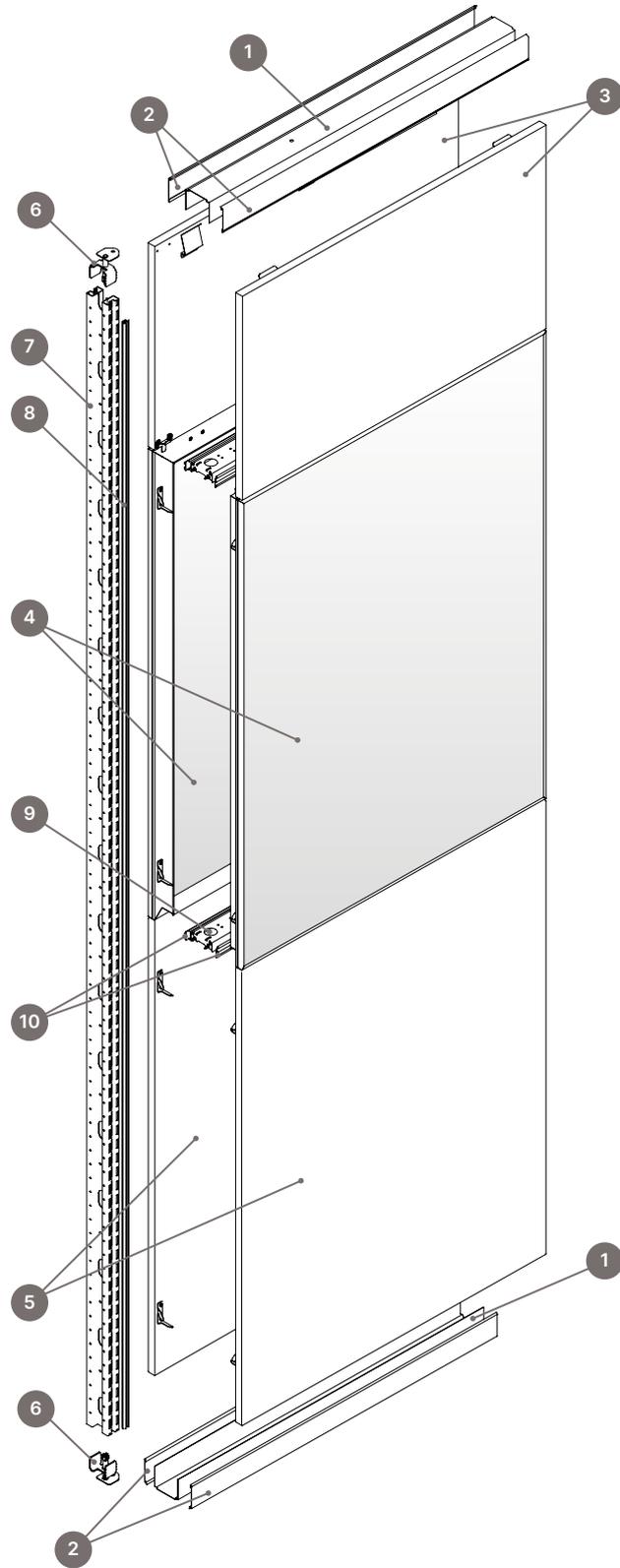
The tapered edge of the door and finishing profiles, together with extremely slim frames for the glass panels and framed doors, give a minimal, contemporary look to a wall system that provides cutting-edge performance.

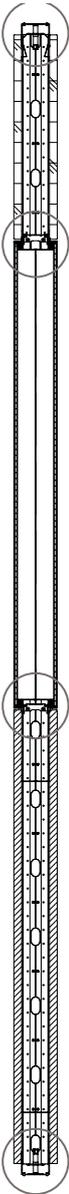
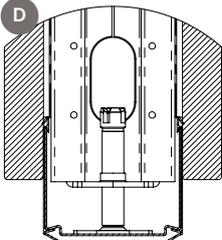
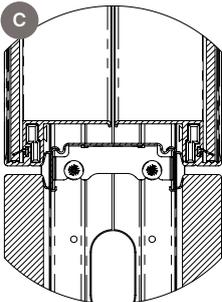
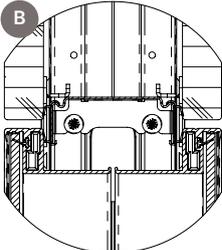
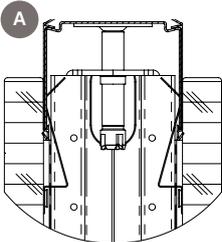


1. Starting module against the wall / end module with stud
2. MFC module with gap h. 216.8 and upper filler panel
3. Glass module with gap h. 216.8 and upper filler panel
4. MFC module made of 3 x h.70 bands with upper filler panel
5. MFC panelling module made of 3 x h.70 bands with upper filler panel
6. Shelf for boiserie
7. Suspendend unit for boiserie
8. Glass module made of 3 x h.70 bands with upper filler panel
9. Fixed 90° angle
10. MFC technical module with full-height panel, stud included
11. MFC door and upper filler panel
12. Framed glass door and upper filler panel
13. Glass door and upper filler panel
14. Single MFC sliding door and upper filler panel
15. Single framed glass sliding door with upper filler panel

**MFC-GLASS MODULE**

- 1. Edge track
- 2. Edge seal
- 3. Upper filler panel (to be cut on site when assembling the partition)
- 4. Glass panel frame
- 5. MFC panel
- 6. Supporting foot
- 7. Stud
- 8. Stud seal
- 9. Header
- 10. Header seal



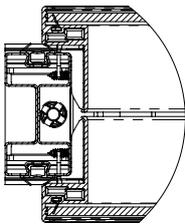
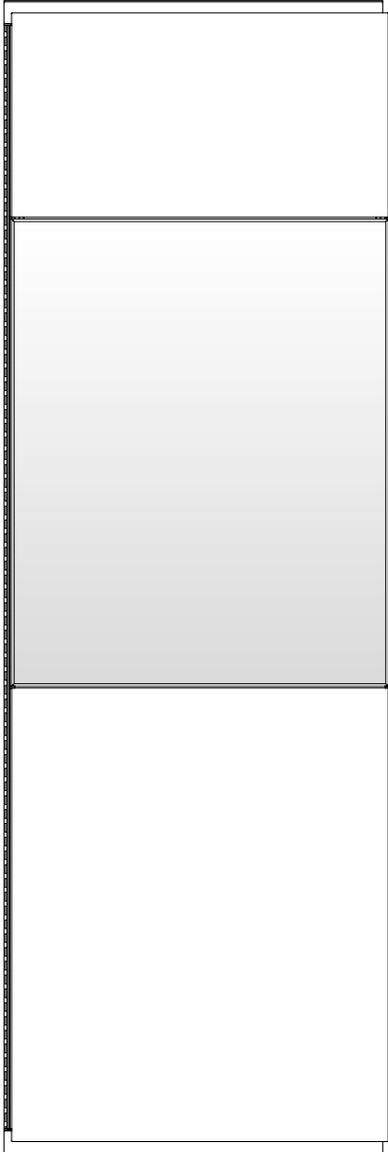


A

B

C

D

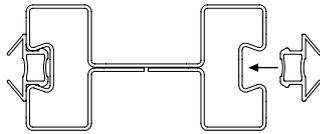


E

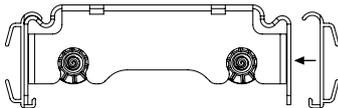


E

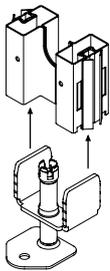
**STRUCTURE**



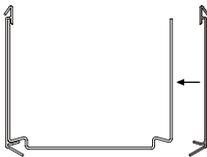
The studs are made of 8/10mm thick galvanised steel tubular profile with a 57×30 mm section, provided with a pitch 32mm triple front rack in which to insert panels and accessories. On the sides, pitch 32 drills are used to fasten the headers, and oval slots host the wiring and cables. The tubular profiles have a double channel structure to provide top fireproof characteristics and soundproofing.



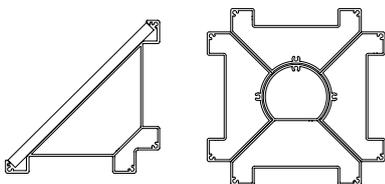
The headers are made of 8/10mm thick galvanised steel sheet and are interlocked by means of special screws fastened onto the studs. Two different co-extruded snap-fit PVC gaskets seal the joint with the filler panels and eliminate any acoustical bridge.



The levelling elements are entirely in galvanised steel; they are interlocked and an electric drill or Allen key can be used to adjust partition height by +/- 20mm.



The wall edges are sealed by means of U-shaped galvanised steel profiles provided with PVC co-extruded seals to guarantee tightness between the panels and walls.



The 2/3/4-way joints between the partition modules are regulated by a special articulated unit that allows the connection angle to be adjusted from 90° to 180°. It is made of two anodised extruded aluminium tubular profiles. A 2-way joint with fixed 90° angle is also available. It is made of an aluminium profile and includes a melamine or lacquered panel in the same finish as the partition facing.

**ACOUSTIC INSULATION**

Synthetic fibre wadding can be inserted inside the partition structure, i.e. behind the non-transparent panels, to improve soundproofing. This additional feature involves a surcharge. This solution, combined with the addition of panels in flexible elastomer, achieve a dB rating of Rw50 dB. This option must be checked and quantified on the basis of each specific order.

## FACINGS

The facings are available in different materials and combinations such as non-transparent materials, glass, mixed versions, with monobloc panels and/or horizontal slats. The panels are provided with galvanized steel hooks for locking into the rack mounted on the studs. They are easy to install and remove at any time, and allow swift changes to the partition when already assembled as well giving full access to the wiring.

The filler panels facing the ceiling and walls are always supplied in the maximum size of the range chosen from the price list, to be adjusted to the actual room dimensions when installed. This characteristic allows flexible adjustment of the required configuration, thus preventing mistakes due to wrong measurements.

On demand the non-transparent panels can be provided with a module having a small door to a compartment for sockets as well as data and telephone connections of any type, providing easy access to the cables and wires. If this optional feature is selected, please show the panel that will host it.

Each solid module has two panels for which we offer the option to choose either matching or contrasting finishes; for instance, it is possible to choose side 1 in melamine and side 2 lacquered. In most P1 modules, side 1 and side 2 are identical, so in case of different finishes it is important to specify them correctly for installation.



For solid modules with one side as Boiserie:

- 1 is the solid side with one panel and upper filler;
- 2 is the solid side with 3 or 4 bands and upper filler;

For doors:

- 1 and 2 are upper fillers;
- 3 is the full door (both sides).

## MELAMINE PANELS

Made from 18mm easy to clean scratch-resistant anti-reflective melamine faced chipboard (MFC) finished with 1mm matching straight ABS impact resistant edges.

Panel density: 670/730 kgs per cubic meter. Class 2 fire resistance. Maximum weight per linear metre 150 kg/m for H3.

## LACQUERED PANELS

Made from 18mm anti-reflective melamine faced chipboard (MFC) finished with 1 mm matching ABS impact resistant edges. The surface is coated using matt lacquers in a variety of colors.

Panel density: 670/730 kgs per cubic meter. Class 2 fire resistance. Maximum weight per linear metre 150 kg/m for H3.

## RECONSTITUTED VENEER PANELS

Made from 19mm veneered particle board, 0.6mm wood veneer on both surfaces, finished with veneer edging, 0.5mm radiused corners. Matt transparent semi-open pore varnish.

Panel density: 720/790 kgs per cubic meter. Class 2 fire resistance. Maximum weight per linear metre 150 kg/m for H3.

The company will not be held responsible for any variations in shades and colours over time or on subsequent additions.

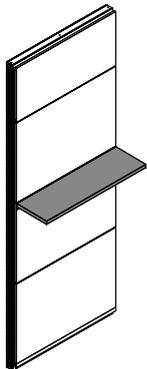
**GLASS PANELS**

The glass modules are made of two opposing framed glass panels with glass panes flush with the frame to prevent dust deposits and convey a special look. The model with one single glass pane has one pane on one side of the same frame used for the model with double panes and a finishing profile on the other side in the same size as the profile around the glass. This alternative solution cuts costs and provides an attractive side with glass pane flush with the frame and the other side with a recess. The single-pane solution also provides a dust-free frame, while the other side can host elements such as Venetian blinds.

All glass modules are provided with 4 or 5mm thick transparent toughened glass, according to the panel size. On request, 3+3.1 laminated glass can also be supplied, total thickness 6.5mm. The satin finish is possible only on toughened glass. Any request for satin finish on laminated glass will be assessed and a specific offer will be made since this is not a standard product. The frame is provided with an extruded tubular profile made of anodised aluminium fastened on the corners by means of special screwed-in brackets in die-cast aluminium. They are mounted in the same way as the wooden panels. Double-pane panels can also be provided with manually-operated Venetian blinds on the inner side. All glass modules with either one or two glass panes can be customised with adhesive films for different effects; surcharges shown in the price list. Maximum weight per linear metre 105 kg/m for H3.

**PANELLING**

The flexible nature of the partition can be further exploited by adding to one or both sides 18mm thick wooden slat panels, which have the same characteristics as the melamine panels described above. They are interlocked by means of anodised aluminium profiles filling the gaps between the slats, providing finish and racks for the shelves and suspended units.



**SHELF FOR BOISERIE**

The shelves can be made of either 10mm thick satin glass or 25mm plywood with melamine finish and shockproof ABS profile around the edges. Shelves can be installed in the gaps between the slats starting from the bottom up to 2168 mm in height.

**SUSPENDED UNITS FOR BOISERIE**

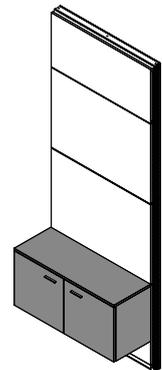
Carcass, shelves and doors made from 18mm easy to clean scratch-resistant anti-reflective melamine faced chipboard (MFC), back panels in 8mm MFC. Doors finished with 1 mm matching ABS impact resistant edge. Soft closing as standard, non locking.

Cladding top panel (not included yet mandatory) made from 18mm easy to clean scratch-resistant anti-reflective melamine faced chipboard (MFC) finished with 1 mm matching ABS impact resistant edge.

In order to guarantee safe fastening and a solid structure, the cabinets are locked to the partition by means of a 100/150/200 metal beam to adjust to the different sizes of the partition. With 150/200 modules the beam will hold cabinets on the left, centre and right hand side.

As standard floating cupboards can be hung on one side only of the Boiserie module. However, it is possible to fit them to both sides as an optional extra, please mention this when ordering.

Surcharge for Boiserie modules with option to hang floating storage on both sides: +200 pts per module.



**WALL CLADDING**

The standard wall covering uses the same core structure as the partition but without one face of the filler panels. Wiring and cables can run on the rear side as in the partition and can be equally easily reached for inspection.

**WIRING AND CABLING**

The partitions can host wires and cables both vertically and horizontally, thanks to the 40x20mm holes on the studs and the diameter 25mm holes on the cross pieces.

The glass modules can also host wires and cables since they can run along the horizontal gaps or down the aluminium profiles. All non-transparent modules can be used; easy access is guaranteed by simply removing the panel. They can host any wiring and cabling upward or downward as well as any type of sockets. The necessary holes will be drilled when assembling the partition on the spot.

**SELF-SUPPORTING WALL**

If required, it is possible to have self-supporting walls independent from a ceiling in the desired height (minimum recommended 2250 mm), by adding an upper frame with a section of 100x30mm available in the price list (in the Accessories section).

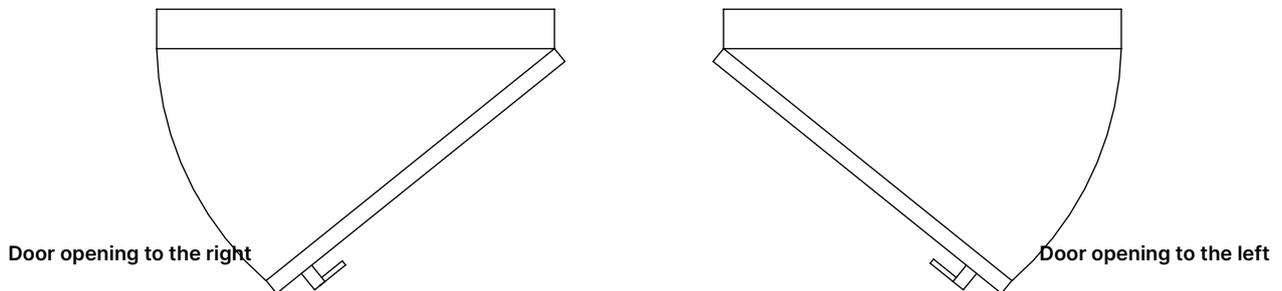
Self-supporting walls are subject to restrictions on how they are laid out aimed at guaranteeing structural stability and safety, which is why it is always advisable to have the project checked by our Technical Office before placing an official order.

**DOORS**

With the aim to remove architectural barriers, doors are designed with tapered structural posts to ensure the widest possible door opening in line with current norms. The internal width in hinged doors with 90° opening angle is 870mm but this can increase to 906mm with opening up to 180°.

Handles are positioned at approximately 900 mm (+ or - 50mm) from the floor in compliance with regulations for public buildings and special provisions for the elimination of architectural barriers.

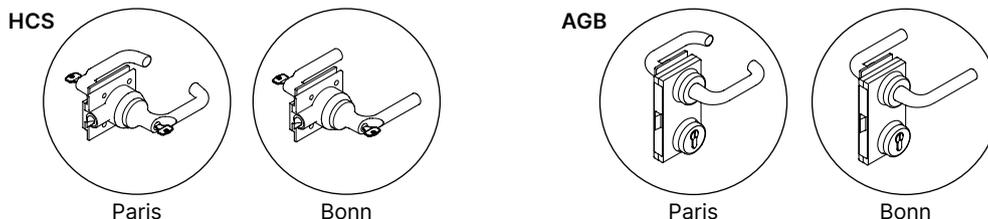
Specification of door-opening direction to use when choosing a door from the catalogue.



The standard handle and lock units are available in two models for all doors in the catalogue:

- HCS type with handle, lock and cylinder integrated in one single minimal unit
- AGB type ('Yale-type') with European cylinder and lock separate from the handle.

Both models are supplied with standard silver finish. In the AGB model the cylinder coding and master key can be customised. Other non-standard handles can be fitted on the doors. Costs and supply time to be discussed with our Sales Department.



Modules with hinged doors are available with both single and double hinged door (150cm wide module). Double doors consist of a hinged door and a fixed shutter which can be unlocked by pulling the bottom and head bolts open. The supporting frame is made of anodised extruded tubular aluminium. The corner joints are made by means of metal brackets and the profile has a hollow part that holds the co-extruded PVC bumper seal. The design of the doorpost profiles, seals and hinges are especially conceived to allow easy cleaning and avoid dirt depositing. These doors can therefore be used also in hospitals and similar buildings.

## **HOLLOW CORE HINGED DOORS**

40mm thick doors are made of a hollow core structure with veneered or laminated frame and facing. The edge is in 2mm thick ABS. There are 3 adjustable pivot hinges for each door and let the door open up to 180°.

## **GLASS HINGED DOORS WITH FRAME**

The glass hinged doors with frame are made of 6mm thick transparent toughened glass in a 40×45mm aluminium frame. There are 3 adjustable pivot hinges for each door and let the door open up to 180°.

## **GLASS HINGED DOORS**

These doors are made of 10mm thick transparent toughened glass with polished edges. There are 3 adjustable pivot hinges for each door and let the door open up to 180°.

## **RECESSED SLIDING DOORS**

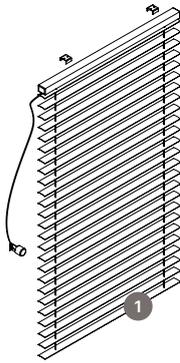
These can be produced with hollow core doors or framed glass doors - having the same characteristics as the hinged doors described above - with both single door (L100/200 cm) and double door (L.200/400 cm). Sliding doors can be just 2168mm in height and the upper and side filler panels can only be solid.

The tracks are made of extruded aluminium. The doors are provided with a brake and soft closing and opening system. The facing panels on the door sides cannot be made of glass; they are provided with upper filler panels with the finishes already described for the partition facing panels.

The doorposts are provided with a frame in anodised aluminium with brush seals along the sliding parts and co-extruded PVC seals in the area where the door shuts.

Internal width of sliding doors is 837mm.

**OPTIONALS**



**1 VENETIAN BLINDS**

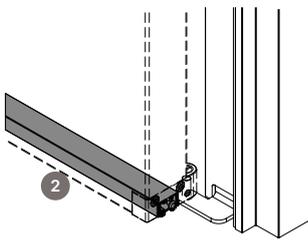
The Venetian blinds are supplied with aluminium and white finish. Other finishes are available with supply time and costs to be discussed with our Sales Department.

**2 DROP DOWN SEAL**

Single and double hinged doors can be supplied with drop down seal which improves the acoustic performance and lets less dust through.

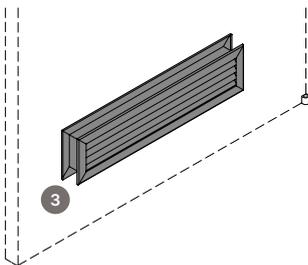
The drop down seal CANNOT be fitted with:

- frameless glazed doors,
- carpeted flooring.



**3 VENTILATION GRILL**

The hollow core door modules can be equipped with ventilation grids, at a surcharge.

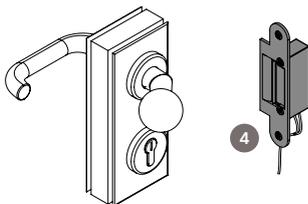


**ELECTRICAL RELEASE**

The electric release can be fitted in the structural door frame of hinged doors and is powered in low voltage (10V - 24V). Wiring will be carried out by a professional electrician.

The electric release can be used with AGB handles only which are supplied with a knob on one side and a handle on the other, see figure.

That ensures it will always be possible to leave the room even in the event of a power failure (emergency).



## SPECIAL SOLUTIONS

### SOUNDPROOFING PANELS (OPTIONAL FEATURE)

The partition also features an additional advantage of soundproofing panels. Several solutions are available and depend on the required soundproofing level and the construction characteristics of the building. In order to assess our customers' needs, we are prepared to carry out an analysis of the acoustic characteristics of the rooms, cost to be assessed according to needs. The delivery time and price of such solutions will be quoted in a specific offer.

### HORIZONTAL GRAIN

All models in the catalogue have a standard vertical grain for melamine grained finish. In certain cases a horizontal grain can be provided, subject to assessment and confirmation by our Sales Department, which will also define costs and delivery time.

### FIREPROOF PANELS

On demand, panels and door panels can be provided with supports classified in Euroclass B-s1,d0 \* (European Standard EN 13501-1). Costs and supply time to be discussed with our Sales Department.

ITALIAN CLASS	EUROPEAN CLASS
Class 1	(A2-s1,d0), (A2-s2,d0), (A2-s3,d0), (A2-s1,d1), (A2-s2,d1), (A2-s3,d1), (B-s1,d0), (B-s2,d0), (B-s1,d1), (B-s2,d1)
Class 2	(A2-s1,d2), (A2-s2,d2), (A2-s3,d2), (B-s3,d0), (B-s3,d1), (B-s1,d2), (B-s2,d2), (B-s3,d2), (C-s1,d0), (C-s2,d0), (C-s1,d1), (C-s2,d1)
Class 3	(C-s3,d0), (C-s3,d1), (C-s1,d2), (C-s2,d2), (C-s3,d2), (D-s1,d0), (D-s2,d0), (D-s1,d1), (D-s2,d1)

\*Corresponding to Class 1 of Italian standards, as shown in the table above.

## PERFORMANCE DETAILS

### PERFORMANCE

- UNI 10880:2000 par 5.1 50 kg soft body impact
- UNI 10880:2000 par 5.2 3 kg soft body impact
- UNI 10880:2000 par 5.3 1 kg soft body impact
- UNI 10880:2000 par 5.4 0,5 kg soft body impact
- EN 1191:2012 Windows and doors. Resistance to repeated opening and closing.
- EN 12046-2:2000 Doors. Slamming test.
- EN 947:1998 Hinged or pivot doors. Vertical load resistance.
- EN 948:1999 Hinged or pivot doors. Static torsion test.
- EN 949:1998 Doors. Soft heavy body impact.
- EN 950:1999 Door leafs. Hard body impact.

### SOUND INSULATION

UNI EN ISO 101140-2:2010, UNI EN ISO 717-1:2013  
Acoustics. Laboratory measurement of airborne sound insulation.

- MFC partition wall: Standard: min. Rw 33 dB - With sound insulation: max. Rw 46 dB
- Glass partition wall: Standard: min. Rw 30 dB - With sound insulation: max. Rw 41 dB

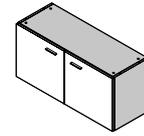
**ALLUMINIUM PROFILES**

**METAL**



**BOISERIE SUSPENDED UNITS CARCASS**

**MELAMINE**

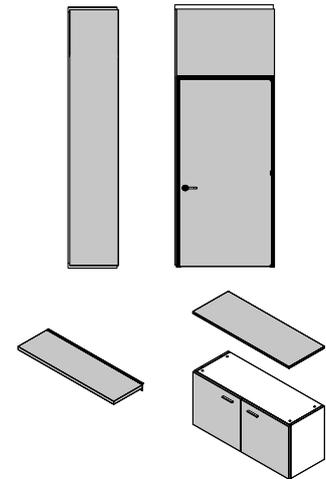


**MFC PANELS, MFC DOORS, SHELVES, DOORS AND TOPS FOR BOISERIE SUSPENDED UNITS**

**MELAMINE**



**WOOD VENEER**

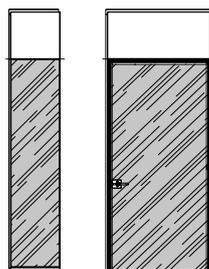


**LACQUER**



Production lead time: 5 weeks excluding delivery time. Apart from the shown finish options any RAL color can be made to order.

**GLASS PANELS AND DOORS**



**SEALS**

**PVC**





## MATERIALS AND RECYCLABILITY

Panels used are exclusively 100% made by recycled wood and respect low formaldehyde emission (CATAS certification Quality Award CARB). Resins used on panels and melamine paper are SVHC substances free (reported on ECHA list update to 12/01/2017)



## CERTIFICATES

Constantly receptive to market requirements, Quadrifoglio Sistemi d'Arredo pay special attention on quality and safety contents in order to provide high products and services. The Company has reached certifications UNI EN ISO 9001/2015, UNI EN ISO 14001/2015 and UNI EN ISO 45001/2018 to confirm his policy. Our products are certified and ensured by FSC™ and ECOLOGICAL PANEL.

COMPANY WITH  
MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
ISO 9001 • ISO 14001  
ISO 45001



## GREEN ENERGY

The Company had installed the photovoltaic system with 4.500 solar panels in a 7.350 m<sup>2</sup> surface that covers almost entirely the factory. The photovoltaic is able to produce 1Mw of a quiet green energy, that does not harm the environment and is waste-free. With his high production capacity the photovoltaic allows us to reduce emissions in the atmosphere of all those polluting substances and to those that contribute to the greenhouse effects. Consequently, such measures make us save every year 180 tonne of petrol oil, 440 tonne of CO<sub>2</sub>, 514kg of sulphur dioxide, 448 kg of nitrogen oxide and 23kg of dust.



## TRANSPORT

Packaging is reduced in order to decrease volumes. Goods collections are responsibly managed and organised with the aim of optimise transports, reducing atmosphere emissions.