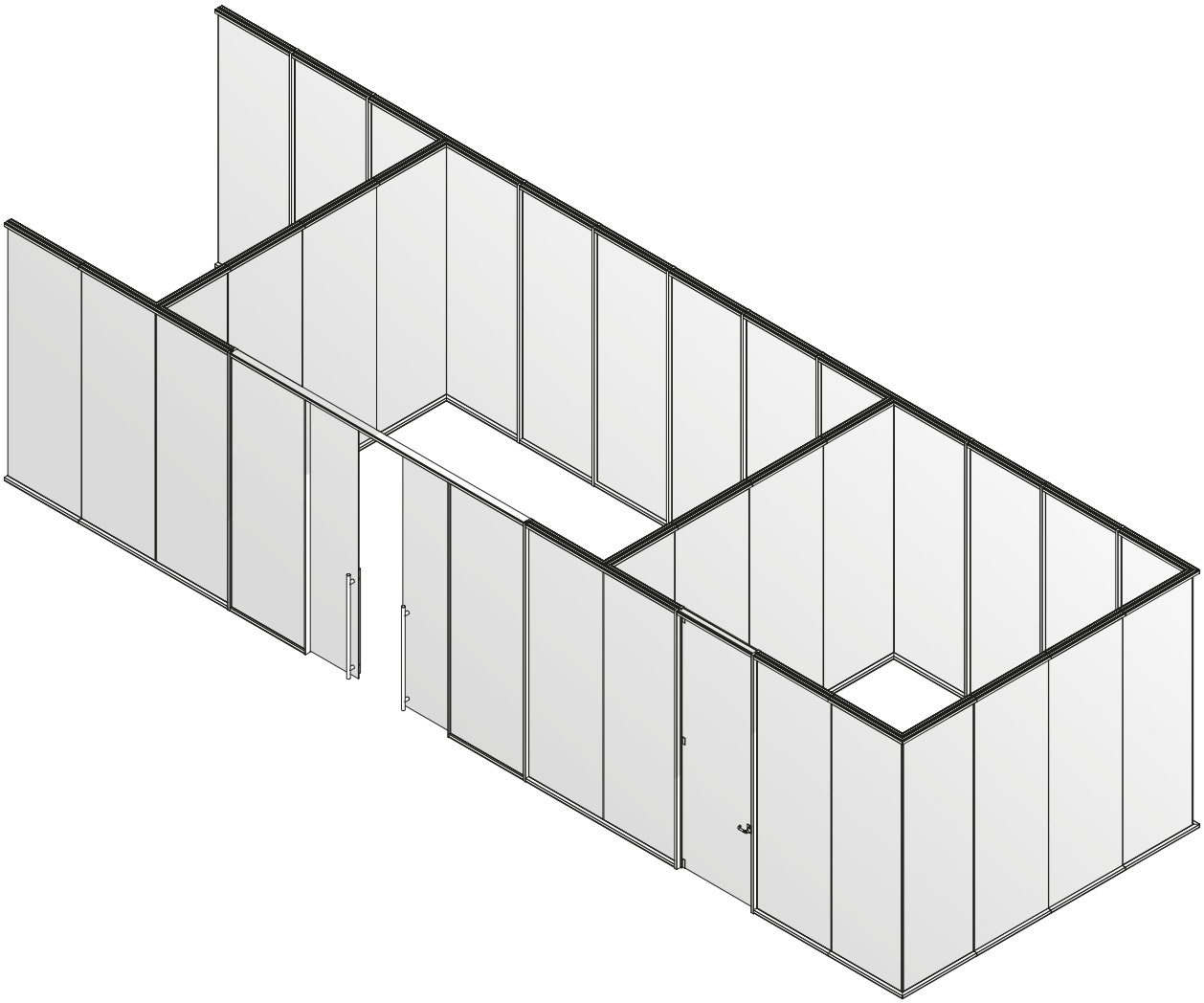
Quadrifoglio Group

M1-M2-M3

design office

www.quadrifoglio.com



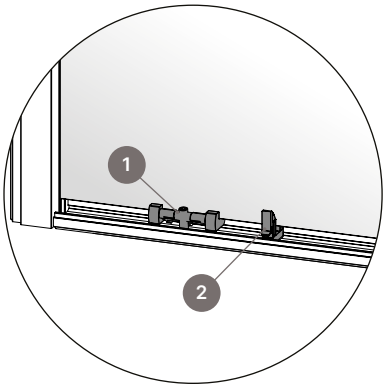
Glass frameless partition walls make up a system of full-height interior partitions comprising several types of glass panels, also partially MFC. They are ideal for creating elegant, luminous environments.
Frameless glass partitions are divided into three families, according to the section of the profile used:

- M1 100×40mm profile single glazed
- M2 100×40mm profile double glazed
- M3 55×40mm profile single glazed

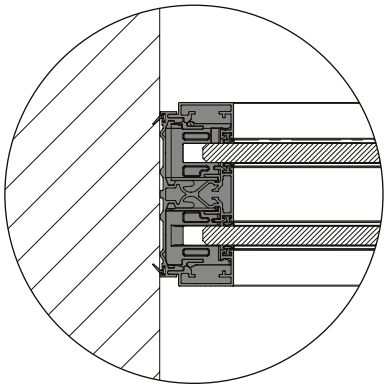
Our frameless partitions have a minimum height of 2100 mm to a maximum of 3340mm.

STRUCTURE

The horizontal and vertical profiles making up frameless partitions are in 1.5mm thick extruded aluminium with a variety of sections. They are anodised and can be painted on demand. All profiles come with hermetic seals that prevent dust collecting in the gaps, as well as lower regulating devices to adjust glass height within a range of +/- 15mm. To facilitate assembly all horizontal profiles are provided with special stops that hold the glass safely in place. The frameless glazed partition system includes starting/end modules in either glass or panels, intermediate modules, 2, 3 and 4 way modules, and wood/glass continuity modules to meet all architectural requirements.

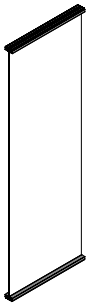


1. Glass height regulation device
2. Glass stop

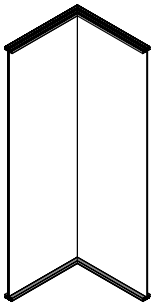


Starting module profile details

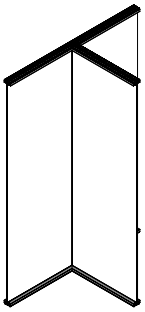
Starting/end profile



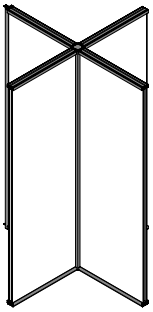
Intermediate module



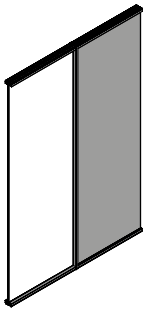
Fixed 90° module



3-way module

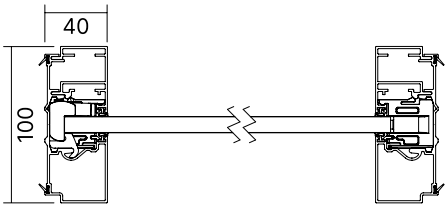


4-way module with circular profile

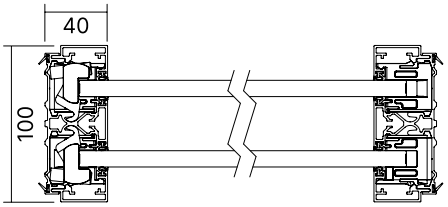


Glass/wood continuity module

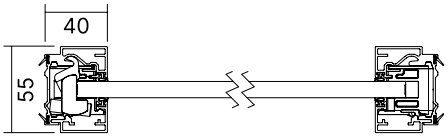
Technical module with sockets



Single glazed 100×40mm M1 profile: Features stunning, elegant good looks and is used to provide continuity with the partition wall and M2 double glazed partition.
Max. weight per lm = 110 Kg/lm (for H. 3340mm with 12.6mm thick glass).



Double glazed 100×40mm M2 profile: Also features stunning, elegant good looks and at the same time reduces noise while providing continuity with the partition wall.
Max. weight per lm = 216 Kg/lm (for H. 3340mm with 12.6mm thick glass).



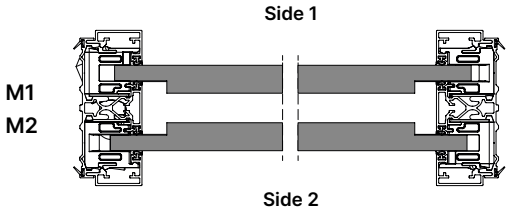
Single glazed 55×40mm M3 profile: “Minimal” visual effect, solid but simple and unobtrusive.
Max. weight per lm = 108 Kg/lm (for H. 3340mm with 12.6mm thick glass).

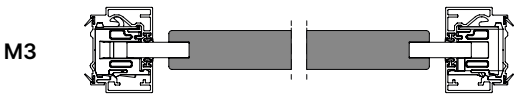
EDGING FINISHES

Profiles and frames are in anodised aluminium with a matt satin finish.
Lacquered tracks in the RAL colour of the client's choice are available with an upcharge shown in the price list.
Tracks can be supplied veneered in a 0.6mm reconstituted veneer layer bonded to the aluminium track surface using heat resistant polyurethane sealants. The process continues with smoothing and varnishing using water based acrylic matt paints and then finally with thermal drying and sublimation.
Framed double glazed doors - 6mm glazed panels - are available not just for M2 double glazed partition walls but also for the M1-M3 single glazed ranges; please contact our Sales Office for pricing and lead time.

SOLID PANELS

Solid panels are supplied in MFC (Melamine Faced Chipboard) as standard but they can also come lacquered or veneered. M1-M2 double solid panels can have matching or contrasting finishes, as an example one panel can be MFC and the other lacquered. This option is not available for the single-panel M3 solid walls.





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.

GLAZING

The following types of glass are available:

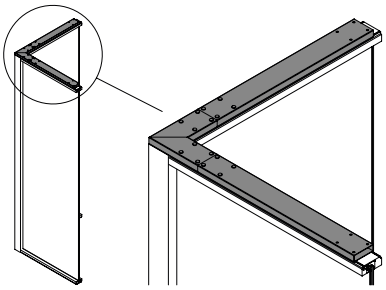
- 10mm thick toughened transparent;
- 12mm thick toughened transparent;
- 10mm thick toughened with satin finish;
- 12mm thick toughened with satin finish;
- 10.38mm thick (5mm + 0.38mm PVB + 5mm) laminated transparent;
- 12.38mm thick (6mm + 0.38mm PVB + 6mm) laminated transparent;
- 10.76mm thick (5mm + 0.76mm PVB + 5mm) laminated soundproofed;
- 12.76mm thick (6mm + 0.76mm PVB + 6mm) laminated soundproofed;
- 10.38mm thick (5mm + 0.38mm PVB + 5mm) laminated with satin finish;
- 12.38mm thick (5mm + 0.38mm PVB + 6mm) laminated with satin finish;
- 10.76mm thick (5mm + 0.76mm PVB + 5mm) laminated soundproofed with satin finish;
- 12.76mm thick (6mm + 0.76mm PVB + 6mm) laminated soundproofed with satin finish.

Laminated glass can be provided with soundproofing adhesive film. All our glazing comes with special transparent seals that make seamless joints. 12mm thick glazing is used for heights of over 305cm. Both toughened and laminated glazing may have a satin finish. Special effects can be provided on demand, subject to feasibility. Satin finishes are applied to one side only, unless otherwise agreed.

PACKAGING

As standard glass panels are dispatched on timber sawhorses. Alternatively individually packaged using a full perimeter wooden protective frame with an upcharge. Customized packaging such as metal sawhorses or fumigated timber can be requested, please contact our Sales Office.

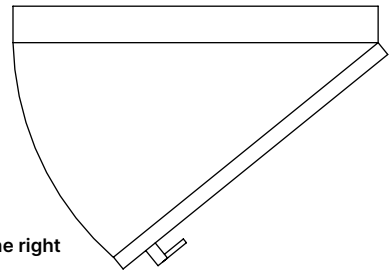
SELF-SUPPORTING PARTITIONING



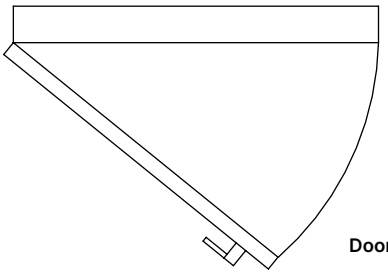
If required, it is possible to order self-supporting walls - independent from a ceiling - in the desired height by fixing on the top of the head tracks a 100×30mm tubular metal profile - prices available in the Accessories section.
Self-supporting walls are stable and safe if all junctions are achieved using aluminium tracks whilst avoiding glazed junctions made with polycarbonate dry joints
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 of hinged doors with 90° opening angle is 875mm whilst for single sliding doors 837mm.
Handles are positioned at approximately 900 mm (+ / - 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.



Door opening to the right



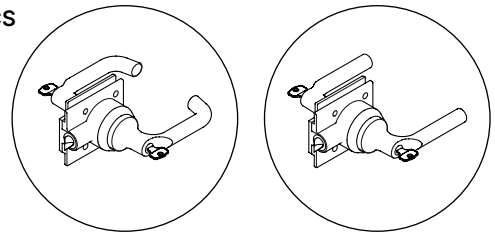
Door opening to the left

Two models of standard handle and lock units are available for all doors in the catalogue:

- HCS type with handle, lock and cylinder integrated in a single minimal unit;
- AGB type – 'Yale' with European cylinder and lock separate from the handle;

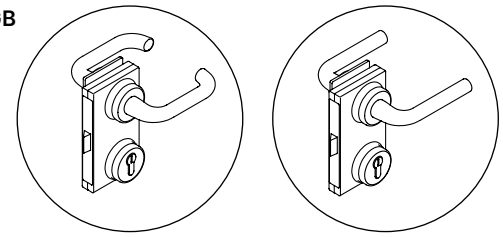
Both models are supplied with standard silver finish. As an option the AGB cylinder coding and master key can be customised. Consult our sales office for other non-standard handles.

HCS



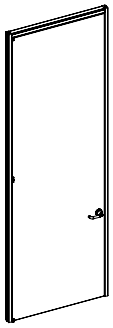
Paris Bonn

AGB



Paris Bonn

Modules with hinged doors are available with both single and double hinged door (L.150cm and L. 200cm modules). 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 self-centring metal brackets and the profile has a hollow part that holds the co-extruded PVC seal. The design of the doorpost profiles, seals and hinges is especially conceived to allow easy cleaning and avoid dirt depositing. These doors can therefore be used also in hospitals and similar buildings.
The doors come with 40cm high bar handles. On 120cm handles a lock is optional.



MFC 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°.

HINGED GLASS DOORS

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

HINGED FRAMED GLASS DOORS

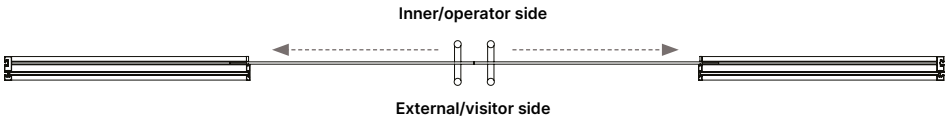
Framed glass doors comprise a pane of 6mm thick transparent toughened glass. Single glass panes are fitted into a 40×15mm aluminium frame; double glass panes have two 40×15mm aluminium frames.
There are 3 adjustable pivot hinges for each door and let the door open up to 180 °.

SLIDING GLASS DOORS

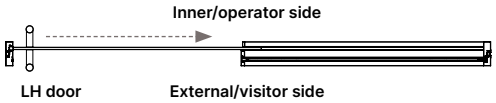
These doors come in 10mm thick transparent or satin finish toughened glass with polished edges for both single doors (L100/200 cm) and double doors (L.200/400 cm). The tracks are made of extruded aluminium.
The doors are provided with a brake and soft closing and opening system (no brake on M3 55×40 profiles). The doorposts are provided with an anodised aluminium frame with brush seals along the sliding parts and co-extruded PVC seals in the area where the door shuts.
The doors come with 40cm high extra large handles. On 120cm handles a lock is optional.
Please note: sliding doors must be always anchored to a structural solid soffitt. With false ceilings specific kits for single and double sliding doors must be ordered and fitted to anchor the head guides to the soffitt.
Each kit consists of chains with turnbuckles to apply the required tension.

OPENING DIRECTION OF SLIDING DOORS

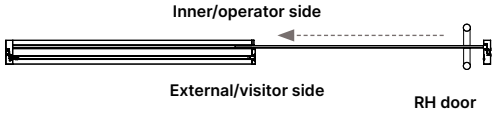
Double sliding door



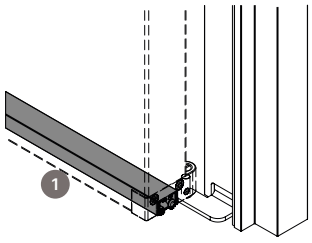
Single sliding door LH



Single sliding door RH

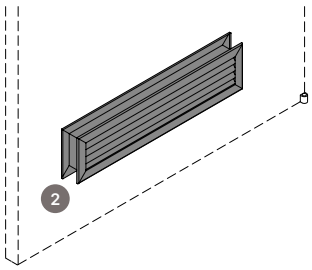


OPTIONALS



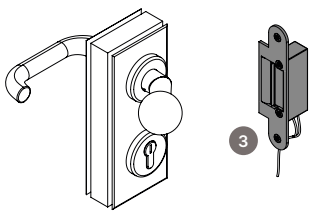
1 DROP DOWN SEAL

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.



2 VENTILATION GRILL

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



3 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).
Please note: given the larger dimensions of the electric release compared to the standard striker, a glazed wall cannot be installed immediately next to the door frame but otherwise it is necessary to fit a switch post between the two.
As an alternative a special middle upright junction can be fitted next to the door frame which generates an upcharge of 30% of the door standard price.
The electric release, under certain conditions, can be also supplied in conjunction with the panic bar - please contact our Sales Office for feasibility, pricing and lead time.

SPECIAL SOLUTIONS

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.

CHARACTERISTICS

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 hard body impact
- UNI 10880:2000 par 5.4 0 5 kg hard body impact

SOUND INSULATION

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

M1

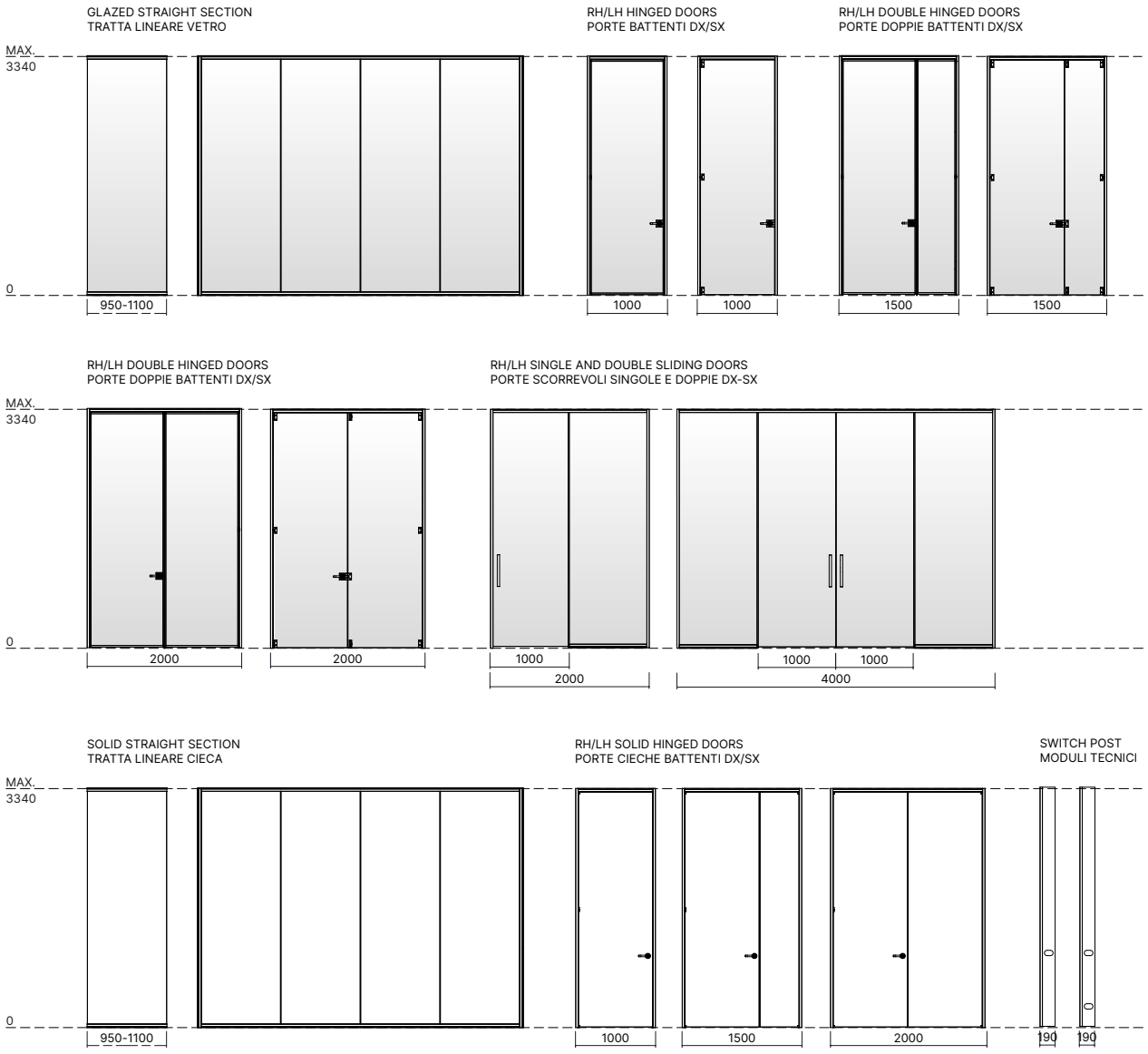
- Laminated glass th. 10mm Rw 33dB min. (PMM1ST01 - standard laminated 5+5.1 glass)
- Laminated glass th. 12mm Rw 38dB max. (PMM1ST12 - acoustic laminated 6+6.2 glass)

M2

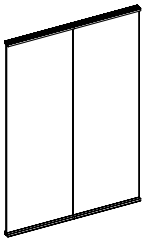
- Laminated glass th. 10mm Rw 36dB min. (PMM2ST01 - standard laminated 5+5.1 glass)
- Laminated glass th. 12mm Rw 42dB max. (PMM2ST12 - acoustic laminated 6+6.2 glass)

M3

- Laminated glass th. 10mm Rw 33dB min. (PMM3ST01 - standard laminated 5+5.1 glass)
- Laminated glass th. 12mm Rw 38dB max. (PMM3ST12 - acoustic laminated 6+6.2 glass)


GLAZED STRAIGHT SECTION
TRATTA LINEARE VETRO
RH/LH HINGED DOORS
PORTE BATTENTI DX/SX
RH/LH DOUBLE HINGED DOORS
PORTE DOPPIE BATTENTI DX/SX
MAX.
3340
0
950-1100
1000
1000
1500
1500
RH/LH DOUBLE HINGED DOORS
PORTE DOPPIE BATTENTI DX/SX
RH/LH SINGLE AND DOUBLE SLIDING DOORS
PORTE SCORREVOLI SINGOLE E DOPPIE DX-SX
MAX.
3340
0
2000
2000
1000
2000
1000
1000
4000
SOLID STRAIGHT SECTION
TRATTA LINEARE CIECA
RH/LH SOLID HINGED DOORS
PORTE CIECHE BATTENTI DX/SX
SWITCH POST
MODULI TECNICI
MAX.
3340
0
950-1100
1000
1500
2000
190
190

ALLUMINIUM PROFILES



METAL

D Anodized Silver

R Umbra Grey RAL 7022

RAL colour of your choice

OR Gold

BR Bronze

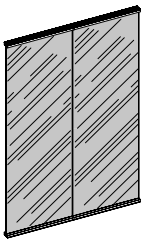
CO Cor-Ten

WOOD VENEER

OG Elm

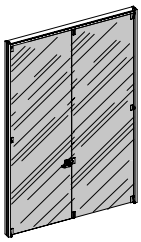
NA American Walnut

GLASS PANELS



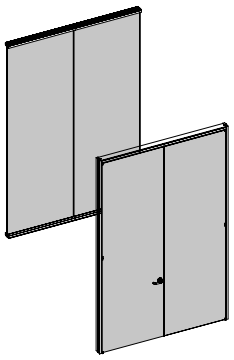
TTRASP	TSATIN	STRASP	SSATIN
Toughened Clear	Toughened Frosted	Laminated Clear	Laminated Frosted

GLASS DOORS



TTRASP	TSATIN
Toughened Clear	Toughened Frosted

MFC PANELS AND DOORS



MELAMINE

BA White
AA Silver
GR Grey
OL Elm
RK Oak
NO Canaletto Walnut

WOOD VENEER

OG Elm
NA American Walnut
EB Ebony

LACQUER

LB White
LL Grey White
LS Silk Grey
NK Light Beige
LE Beige
LT Beige Grey
NU Dark Brown
NW Ocher
LA Orange
NJ Burnt Orange
LH Flame Red
LR Purple Red
LI Black Red
LZ Sapphire Blue
NQ Cobalt Blue
LC Pigeon Blue
LD Ocean Blue
LP Pine Green
NV Olive Green
LF Telegrey 4
LG Grey
LO Umbra Grey
LN Traffic Black

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

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

FSC
www.fsc.org
FSC® C128048
The mark of responsible forestry

GUARANTEED ECOLOGICAL PANEL 100% RECYCLED WOOD

GREEN ENERGY

The Company had installed the photovoltaic system with 4.500 solar panels in a 7.350 m² 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 CO2, 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 responsibily managed and organised with the aim of optimise transports, reducing atmosphere emissions.