METROPOLINES **1**

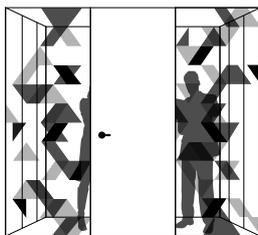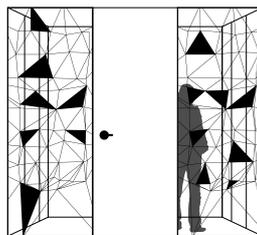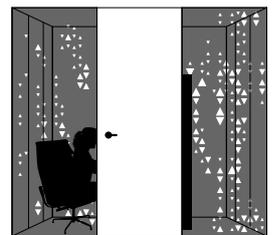**M1** − TROCADÉRO

A tribute to the geometric triangle shapes associated with Parisian design.

M1 − TUILERIES

This design connects the triangular shapes with lines to increase the privacy level.

M1 − S^T GERMAIN

To contrast this design raises the privacy level yet further whilst allowing light to pass through.

METROpolines 1

Discover the face of a wall ultra-fine, clear and contemporary.

Lightweight, stylish and quality of manufacture characterise the new office partition **Metropolines 1**, designed as a glass skin stretched between minimal structures. Despite the lightness of appearance, the acoustic performance is high. **Metropolines 1** offers a «collection of textures»: Trocadéro, Tuileries, St. Germain, whose geometries are designed, arranged and calculated to provide the necessary comfort needed in the workspace, whilst preserving the transmission of light.

Sc. 1 General: Digital printing on glass. **Texture «Tuileries».**
Left: Writeable panel of back-painted glass.
Right: Double glazed flush glass door.

Sc.2 Left: Writeable glass panel between two wooden panels.

Construction

Metropolines 1 is a new Clestra Hauserman partition. It has a simple construction with its fine lines and tracks that almost disappear into the building.
Ultra-thin base track of 18mm.
Head track 35 to 50mm.

Glass panels

Double glazed panels can be used of 10 and 12mm thick glass, mounted in thin extruded aluminum profiles. The junction between the glass is either «frameless» (EPDM positioned into a groove machined into the edge of the glass that allows more flexibility and tolerance during installation) or by double-sided adhesive tape. A third version allows the use of 6 or 8mm glazing jointed in a thin aluminum frame (see diagram).
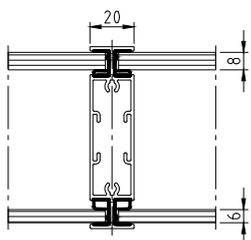
Sc.3 General: Digital printing on glass. **Texture «Saint Germain»**.

Mitred glass joint

The 90 ° angle between two panels double glazed (10 or 12mm) is achieved either by UV bonding that captures all the elegance and transparency of glass, alternatively the same junction is available with an ultra-thin aluminum strip.

Panes of 6 or 8mm glass are mounted in a minimal aluminum frame.

Back-painted glass transforming the partition into a writeable wall.

Sc. 4 Back wall: Solid painted steel panels set into glass wall.
Full height lacquered steel door.

Door panels

Metropolines 1 offers a simple but complete
door and frame solution, available full height
in steel, wood or glass. In the basic version,
the doors are flush to the outside, but are
also available flush to both sides.

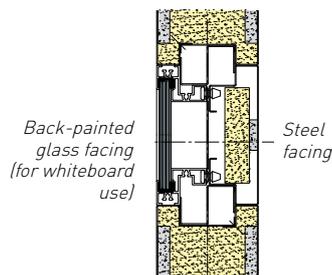*Above: Full height glass door
Flush double glazed.*
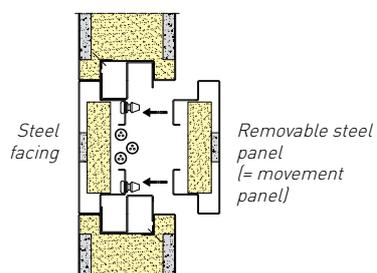
Metropolines 1
Flexible thin walls

Solid panels

Metropolines 1 has responded to the needs to achieve very high soundproofing. The 83mm thick solid panels, and bi-block panels, have very high acoustic performance. The basic composite panels can be installed quickly, or can be manufactured to enable specific integration with other elements, for example back-painted glass whiteboards or for technical access management (wiring). All types of materials and finishes are available: steel, wood, glass... steel panels are coated with a high quality factory applied paint. The junction between the solid panels is a simple line with a minimal junction of 2mm which can accommodate a rack for mechanical attachment of accessories, small furniture items or sound absorbers.

Back-painted glass facing (for whiteboard use) — *Steel facing*

Steel facing — *Removable steel panel (= movement panel)*

Shelving is fitted onto racking hidden between the panels, accessible through junctions between the panels with a gap of only 2mm. These racks can carry cabinets, consoles, tables, acoustic absorption panels.

DESCRIPTION

Solid partition panels and all glass walls with flush jointed glazing.

CONSTRUCTION

- SOLID MONOBLOCK ELEMENTS:
  . Thickness: 83mm.
  . Steel skins 0.8mm or 1mm thick or timber skins.
  . Base and head channels in aluminium.
  . Height of base channel = 18, 35 or 50mm.
  . Height of head channel = 35 or 50mm.

- GLAZED UNITS:
  Glazed panels, full height:
  . Double glazing.
  . Extruded aluminium profiles.

- DOOR PANELS:
  . Aluminium frame.
  . Glazed leaf with / without frame, flush on both sides or corridor side.
  . Steel or timber leaf.

- JUNCTION BETWEEN SOLID PANELS:
  . Single line junction or 2mm wide gap.

- JUNCTION BETWEEN GLAZED UNITS:
  . For glazing of 10 or 12mm: frameless mechanical junction obtained through unique machining of the glass units and a dry jointed EPDM seal or through bonding.

  . Corners for 10 or 12mm glazing: consisting of plain aluminium profile to protect angles from eventual impacts. Alternatively, these angles can be bonded.

  . Double glazing 6 or 8mm: aluminium upright, 20mm wide or bi-bloc frame, upright 28mm wide.

FINISHES AND OPTIONS

- SURFACE TREATMENT:
  After surface treatment by alkaline degreasing and nanoceramic conversion of the skins and accessories, application of thermosetting polyester powder paint, overcured at 180°C (thickness 70 ± 10µm). The paint gives a decorative surface that is shock and UV resistant.

- COLOURS:
  Colours in Clestra Hauserman chart. Others: upon technical approval.

- ALUMINIUM PROFILES:
  Painted or natural anodized finish. Other anodization optional.

- SOLID DOOR PANELS:
  Steel within Clestra Hauserman chart. Timber, laminated or veneered.

- GLAZING:
  Film, sand blasting, stained glass.

GEOMETRICAL FEATURES

- DIMENSIONS:
  Height:
  .Solid panels:
    - Units ≤ 1000mm: 3200mm.
    - Units > 1000mm: 3000mm.
  .Glazed panels:
    - Type and glazing thickness according to national standards.
  Width:
  .Standard unit: 900 - 1000mm.
  .1350mm max for solid panels.

FITTING CHARACTERISTICS

- TOLERANCES:
  . With 35mm high head channels: ± 7mm.
  . With 50mm high head channels: ± 15mm.

USE

- PARTITION ADD-ONS:
  Our range of options and accessories can be used to tailor the partition to the specific needs and user requirements (magnetic accessories).

- RACKING SYSTEMS FOR SOLID PANELS:
  During installation, the upright can be equipped with a racking system that facilitates the support of furniture items such as shelving, storage units and desking.

ACOUSTICS

Weighted sound reduction index following EN ISO 717-1

- SOLID PANEL:
  up to R_W (C ; C_{tr}) = **51** (-4 ; -11) **dB**

- GLAZED PANELS:
  .TOUGHENED GLASS, FRAMELESS:
  up to R_W (C ; C_{tr}) = **43** (-3 ; -5) **dB**

  .LAMINATED, FRAMELESS, ACOUSTIC :
  up to R_W (C ; C_{TR}) = **49** (-1 ; -5) **dB**

  .DOUBLE GLAZED PANELS, 6/8 MM:
  up to R_W (C ; C_{tr}) = **47** (-2 ; -7) **dB**

CLEANING

Glass, painted steel and anodized aluminium: rubber squeegee and a mild detergent.

ACCESSORIES

Clestra Hauserman offers a wide range of partition accessories, provided with clever self-fastening systems. Coat hooks, hooks, picture rails, whiteboards, door signs, document holders, can be put up and taken down like a «post-it®», without damaging the partition. Magnetic, suction or velcro fastening depending on the supporting partition.
www.hop-hop.com

Our products are constantly changing. To find out about the latest approved acoustic performances, please visit www.clestra.com.

METROPOLINES 1