



synOps





synOps

the constant partition

A partition made-to-measure, adjustable with an accuracy to within one millimetre to any building grid.



the synOps panel

synOps is a made-to-measure, steel and glazed relocatable monoblock partition. The module, floor-ceiling height and glazing type and shape can all be made to a specification to fit into the building grid to the nearest millimetre.

inter-panel connections

Panels are fastened together with steel cams which can be placed at any point of the junction. Each cam is precision-machined to ensure perfect panel fit and alignment.

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a partition made-to-measure



acoustic performance

synOps partitions are purpose-built to a high acoustic performance level. Steel skins and precise assembly offer high specifications for a low surface density (ca. 25 kg/m²), while the industrial manufacturing process provides optimum acoustic insulation. Flexible peripheral seals reduce lateral noise transmission to a minimum within the building.

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a very accurate partition



the insert panel

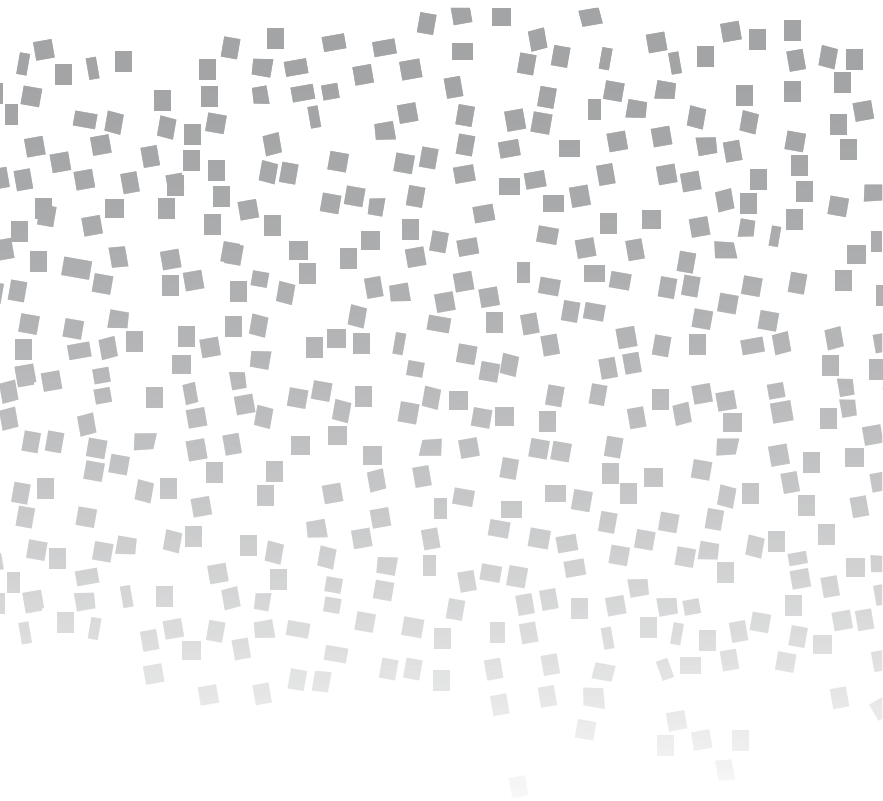
The insert panel is made up of two elements. The panel part (A) is a partition element incorporating a recess, the insert part (B) can be either steel, timber, fabric, whiteboard or other types of elements that could slot into the recess. The unit is of variable height and modular width and will maintain the partition's flush appearance.

accessories

Magnetic accessories will provide secure attachments that will leave the wall completely unmarked. Heavier equipment, such as shelves and cupboards, can be attached using racking systems (D / E) fitted within the 6 mm junction. These can be positioned during the installation phase or retrofitted.

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details and accessories



- C. Steel cam which ensures the inter-panel connection.
- D. 6 mm junction, covered by a seal.
- E. Racking system and shelf.



TECHNICAL DATA SHEET

synOps

ETA certified partition

DESCRIPTION

Relocatable steel or glazed monoblock partition.

CONSTRUCTION

- **MONOBLOCK ELEMENTS:**
 - . Uprights: steel sections, 1.2 mm thick.
 - . Thickness: 83 mm.
 - . Skins: steel, 1 mm thickness with reinforcements welded to the inner surface.
 - . Internal filler: mineral wool.
 - . Floor and ceiling channels: steel profiles.
- **GLAZED PANELS:**
 - . Single and double glazing: extruded aluminium frame sections, glazing beads or flush bonded glass.
 - . All the elements are fully pre-fabricated and are delivered as finished products to site.
- **DOOR PANELS:**
 - . Metal frame 1.2 mm thick.
 - . Leaf: steel, glass or timber, with adjustable base drop seal. From 40 to 83 mm thick.
- **JUNCTION :**
 - . 6 mm wide. Vinyl or steel seal.

FINISHES

- **SURFACE TREATMENT:**

After surface treatment by alkaline degreasing and nanoceramic conversion of the skins and accessories, application of thermosetting polyester powder paint, oven-cured at 180°C (thickness $70 \pm 10 \mu\text{m}$). The paint gives a decorative surface that is shock and UV resistant.
- **COLOURS:**

Colours in Clestra Hauserman colour chart. Others: following technical approval.
- **GLAZING:**

Film, sand blasting, stained glass.

OPTIONS

- **RACKING SYSTEMS:**

Solid panel vertical junctions can accommodate a concealed racking upright that facilitates the support of furniture items such as shelving, storage units and deskings. The upright can be retrofitted and relocated if required.
- **ABSORPTION PANEL:**

The absorbent panel makes it possible to optimize the acoustic comfort of the premises thanks to microperforated panels:
 - . up to $R_w [C ; C_{tr}] = 47 [-2 ; -8] \text{ dB}$,
 - . up to $\alpha_w 0,7$.

- **AIRFLOW:**

A range of air transfer panels are available. Performance data is available from our technical team (acoustic value and air flow curves).

GEOMETRICAL FEATURES

- **DIMENSIONS:**
 - . Height: monoblock up to 3600 mm.
 - . Width: up to 1600 mm for solid panels, above for glazed panels.
 - . Weight: 25 kg/m^2

INSTALLATION FEATURES

- **TOLERANCES:**
 - . floor: $\pm 20 \text{ mm}$
 - . ceiling: $\pm 15 \text{ mm}$
- **CONNECTION OF PANEL TYPES:**

The panels interlock using a steel headed cam.
- **INTEGRATION OF ELECTRICAL AND DATA SERVICES:**
 - . The top and bottom channels allow the horizontal passage for electric wiring through the partition.
 - . Service panel with removable skins allows the installation and integration of electric switches and power sockets.

ACOUSTICS

Weighted sound reduction index following EN ISO 717-1

- **SOLID PANEL:**

from $R_w [C ; C_{tr}] = 47 [-4 ; -11] \text{ dB}$ to $R_w [C ; C_{tr}] = 52 [-2 ; -5] \text{ dB}$
- **DOORS:**
 - . **SOLID DOOR:**

up to $R_w [C ; C_{tr}] = 41 [-1 ; -3] \text{ dB}$
 - . **GLAZED FLUSH DOOR:**

up to $R_w [C ; C_{tr}] = 39 [-1 ; -2] \text{ dB}$

- **FULL HEIGHT DOUBLE GLAZED PANEL PANE UPGRADED TO ACOUSTIC LAMINATE:**
 - . with 1 pane upgraded to acoustic laminate glass:
 $R_w [C ; C_{tr}] = 45 [-2 ; -8] \text{ dB}$

FIRE

- **REACTION TO FIRE:**
 - . Euroclass following EN 13501-1: A2-s1,d0
- **FIRE RESISTANCE:**

Dependant on design characteristics up to:
 - . Solid panel: EI 60
 - . Glazed panel: EI 60
 - . Door: EI 30in accordance with European tests and equivalent BS standards.

Dimension limits in accordance with certificate.

CERTIFICATIONS

- **MECHANICAL:**

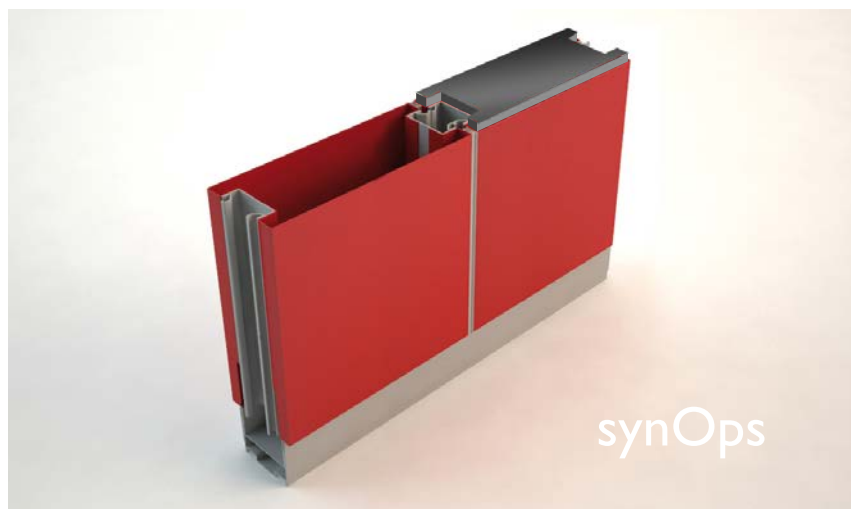
Structural test according to ETE.
- **VOLATILE ORGANIC COMPOUNDS (VOCs):**
 - . A+ french classification according to ISO 16000.
 - . EQ-credit LEED « Low-emitting products ».
- **FACTORY CERTIFICATIONS:**

Our factories are ISO 9001, ISO 14001 and OHSAS 18001 certified.

ACCESSORIES

Clestra Hauserman offers a wide range of partition accessories, provided with clever self-fastening systems. www.clestrashop.com

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



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