



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.

## synOps

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/m<sup>2</sup>), while the industrial manufacturing process provides optimum acoustic insulation. Flexible peripheral seals reduce lateral noise transmission to a minimum within the building.

### synOps

a very accurate partition





## the insert panel

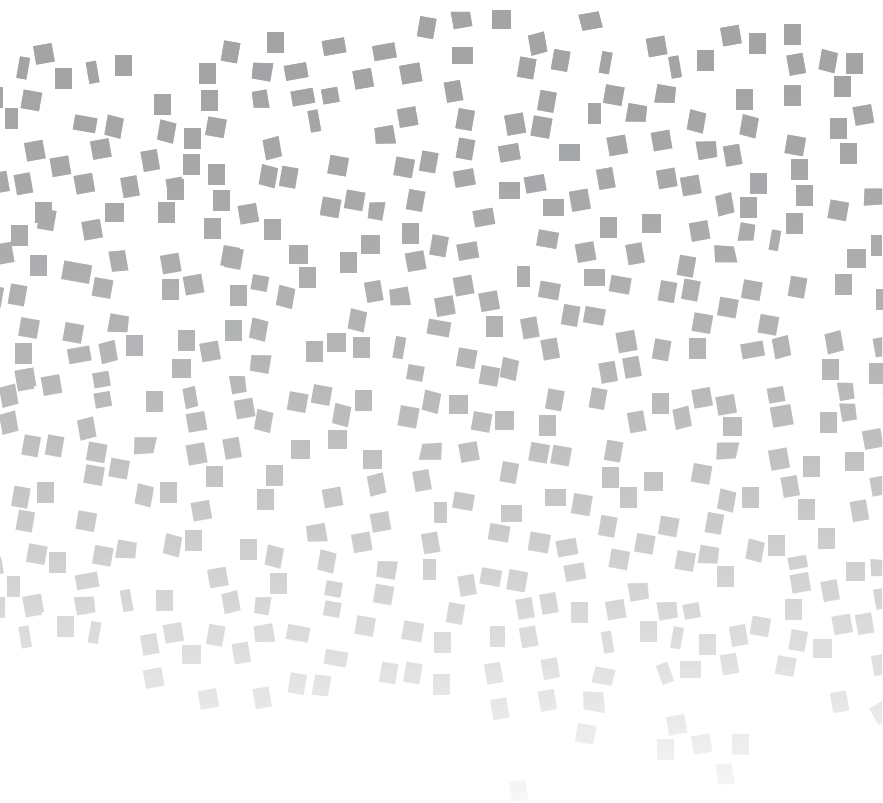
The insert panel is made up of two elements. The panel part (A) is a partition element incorporating a recess, the insert part (B) can be either steel, timber, fabric, whiteboard or other types of elements that could slot into the recess. The unit is of variable height and modular width and will maintain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

# synOps

## 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.



## 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. Optional: solid leaf or flush glazed on both sides, 83 mm thick.
- **JUNCTION :**
  - . 6 mm wide. Vinyl or steel seal.

## 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, oven-cured at 180°C (thickness 70 ± 10 µm). The paint gives a decorative surface that is shock and UV resistant.
- **COLOURS:**  
Colours in Clestra Hauserman colour chart. Others: following technical approval.
- **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 desking. The upright can be retrofitted and relocated if required.
- **OPTIONAL: THE INSERT-PANEL:**  
The insert panel design option allows various finishes to be installed into the wall face. The panel finish can be of steel painted/perforated, timber, fabric or leather and sits within a preformed recess. The unit is of variable height and modular width and will maintain the partition's flush appearance.
- **GLAZING:**  
Film, sand blasting, stained glass.

## 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<sup>2</sup>

## INSTALLATION FEATURES

- **TOLERANCES:**
  - . floor: ± 20 mm
  - . ceiling: ± 15 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<sub>W</sub> (C ; C<sub>tr</sub>) = 47 (-4 ; -11) dB**  
to **R<sub>W</sub> (C ; C<sub>tr</sub>) = 52 (-2 ; -5) dB**  
.with solid door:  
**R<sub>W</sub> (C ; C<sub>tr</sub>) = 43 (-3 ; -9) dB**
- **FULL HEIGHT DOUBLE GLAZED PANEL PANE UPGRADED TO ACOUSTIC LAMINATE:**
  - . with 1 pane upgraded to acoustic laminate glass:  
**R<sub>W</sub> (C ; C<sub>tr</sub>) = 45 (-2 ; -8) dB**
  - . with solid door:  
**R<sub>W</sub> (C ; C<sub>tr</sub>) = 43 (-3 ; -9) dB**

## FIRE

- **REACTION TO FIRE:**  
. Euroclass following EN 13501-1: A2-s1,d0
- **FIRE RESISTANCE:**  
Dependant on design characteristics up to:
  - . Solid panel: EI 90
  - . Glazed panel: EI 60
  - . Door: EI 30
 in accordance with European tests and equivalent BS standards.

Dimension limits in accordance with certificate.

## CLEANING

The thermo-hardened epoxy polyester powder paint finish of the partitions means they can be cleaned easily by using a 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](http://www.hop-hop.com)

Our products are constantly changing. To find out about the latest approved acoustic performances, please visit [www.clestra.com](http://www.clestra.com).

