

# TECHNICAL DATA SHEET

## 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:  $25 \text{ kg/m}^2$

## 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:**

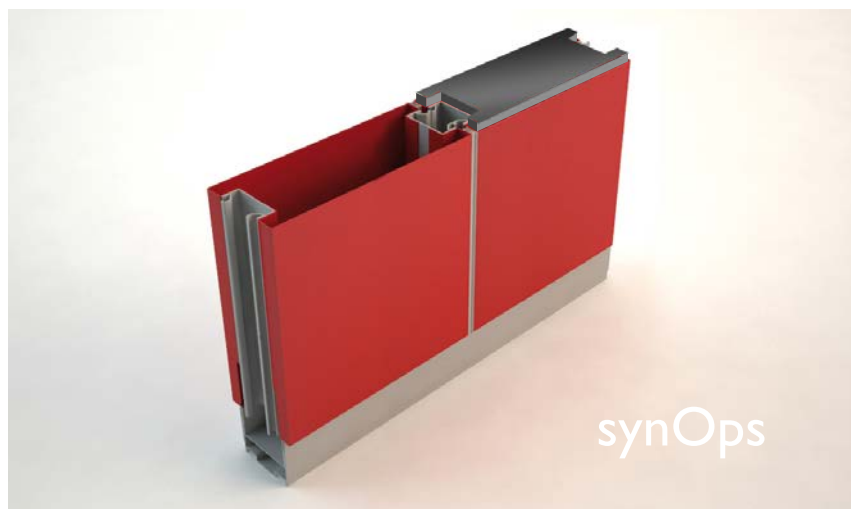
Structural test according to ETE.
- **VOLATILE ORGANIC COMPOUNDS (VOCs):**
  - . A+ french classification according to ISO 16000.
  - . EQ-credit LEED « Low-emitting products ».
- **FACTORY CERTIFICATIONS:**

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](http://www.clestrashop.com)

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



Clestra Range	Partition Thickness		Type	Head Channel - Base Channel	Tolerance	Panel vertical joints	Glass Type	Privacy Options	Acoustic Test Configuration	Acoustic performance (Rw)	Fire Resistance	Impact resistance (ETA 003)						
synOps	83mm		Double Glazed	32mm or 57mm head - 58mm or 95mm base	Head: 32mm: +/- 7.5mm 57mm: +/- 15mm  Base: 58mm: +/- 12.5mm 95mm: +/- 20mm	Vertical Mullion 66mm width	6mm tempered / 8mm tempered / 6.8mm laminated / 8.8mm laminated	Manual venetian blinds Electrical venetian blinds Manifestation	6mm tempered + 8mm tempered	43 dB	Up to EI30	Cat. IV b						
			10mm + 10mm fire-rated glass															
			6mm tempered + 8mm tempered						43 dB									
			6mm tempered + 8mm tempered (reinforced)						47 dB									
					Single Glazed Offset					6mm / 8mm tempered glass			Cat. IV b					
					Single Glazed Centered				Manifestation	6mm / 8mm tempered glass			Cat. IV b					
										23mm thick fire-rated	41 dB	Up to EI60						
					Type	Head Channel - Base Channel	Tolerance	Vertical Joints thickness between panels	Racking Strips	Other Options	Acoustic Test Configuration	Acoustic performance (Rw)	Fire Resistance	Impact resistance (ETA 003)				
					Steel Panel	32mm or 57mm head - 58mm or 95mm base	Head: 32mm: +/- 7.5mm 57mm: +/- 15mm  Base: 58mm: +/- 15mm 95mm: +/- 20mm	6mm (PVC cover)	Yes	Whiteboards / pinboards; Timber skin Fabric	Steel panels (6mm joint)	47 dB	A2-s1, d0	Cat. IV b				
															Steel panels (reinforced)	49 dB	A2-s1, d0	Cat. IV b
											Steel panels (monobloc - steel plates reinforcement)	50 dB	A2-s1, d0	Cat. IV b				
											Steel panels (bi-bloc - steel plates reinforcement)	52 dB	A2-s1, d0	Cat. IV b				
											Steel Panels (1 side perforated + additional steel reinforcement)	45 dB						
											Air Transfer Steel Panels (Concealed horizontal openings)	45 dB						
					Technical Panel				No		-	-						
					Type	Leaf Thickness	Frame Type	Butt Hinges (H) / Pivot Hinges (P)	Glass type	Privacy Options	Acoustic Test Configuration	Acoustic performance (Rw)	Fire Resistance	Impact resistance (ETA 003)				
					Double glazed doors (GOALF)	83mm	C55 (55mm)	H & P	5+5mm tempered	Switchable glass; Blinds; Manifestation	83mm thick double glazed door <u>only</u>	34 dB						
															83mm thick double glazed door <u>only</u> with double drop seals	39 dB		
															83mm thick double glazed door with double drop seals + double glazed partitions (6+8)	44 dB		
					Glass Door	10mm / 12mm		H & P	10mm tempered 12mm tempered	Manifestation	10mm thick tempered glass door <u>only</u> (without drop seal)	26 dB (A)						
			Type	Leaf Thickness	Frame Type	Butt Hinges (H) / Pivot Hinges (P)	Door Type		Acoustic Test Configuration	Acoustic performance (Rw)	Fire Resistance	Impact resistance (ETA 003)						
			Timber Door	44mm	C55 (55mm)	H & P	44mm Timber Leaf		Steel Panel + 44mm thick timber door	36 dB (A)								
			Steel Door	44.5mm / 59.5mm / 83mm			44.5mm Steel Door 59mm Steel Door 83mm Steel Door		Steel Panel + 44.5mm thick Steel Door	45 dB (A)								
										Steel Panel + 59mm thick Steel Door	45 dB							
										59mm thick Steel Door (door <u>only</u> )	36 dB							
					83mm thick Steel Door (door <u>only</u> )	41 dB												

We are constantly improving our products to reach higher performance. Please contact us for more information. The information featured in this document is for guidance only.