

## 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 or steel frame.
  - . Glazed leaf with / without frame, flush on both sides or corridor side.
  - . Steel or timber leaf.
- **JUNCTION BETWEEN SOLID PANELS:**
  - . Single line junction.
- **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.

## 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 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.

## OPTION

- **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:
    - . Solid panels:
      - Units  $\leq 1000\text{mm}$ : 3200mm.
      - Units  $> 1000\text{mm}$ : 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 channels: up to  $\pm 18\text{mm}$ .
  - . With 50mm channels: up to  $\pm 30\text{mm}$ .
  - . Deflection track available:  $\pm 25\text{mm}$ .

## 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).

## ACOUSTICS

Weighted sound reduction index following EN ISO 717-1

- **SOLID PANEL:**
  - . up to  $R_w [C ; C_{tr}] = 52 [-3 ; -10] \text{ dB}$

- **GLAZED PANELS:**
  - . **DOUBLE GLAZING WITH 20MM UPRIGHT:**
    - . up to  $R_w [C ; C_{tr}] = 47 [-2 ; -6] \text{ dB}$
  - . **DOUBLE GLAZING FRAMELESS:**
    - . up to  $R_w [C ; C_{TR}] = 49 [-1 ; -5] \text{ dB}$
- **DOORS:**
  - . **SOLID DOOR:**
    - . up to  $R_w [C ; C_{tr}] = 41 [-1 ; -3] \text{ dB}$
  - . **GLAZED FLUSH DOOR:**
    - . up to  $R_w [C ; C_{tr}] = 39 [-1 ; -2] \text{ dB}$
  - . **POCKET SLIDING DOOR WITH PARTITION:**
    - . up to  $R_w [C ; C_{tr}] = 44 [-1 ; -4] \text{ dB}$

## 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	Glass vertical joints	Glass Type	Privacy Options	Acoustic Test Configuration	Acoustic performance (Rw)	Fire Resistance	Impact resistance (ETA 003)			
Metropolines 1 (M1)	83mm		Double Glazed	35mm / 50mm - 18mm / 35mm / 50mm	+/- 7mm +/- 14mm  +/- 25mm (deflection head)	Dry-jointed EPDM, I-bone polycarbonate, 3M tape	10mm tempered 12mm tempered 10.8mm laminated 12.8mm laminated	Manual venetian blinds Electrical venetian blinds Roller blinds Switchable glass	10mm tempered + 12mm tempered ----- 12mm tempered + 12mm tempered ----- 12mm tempered + 12.8mm laminated ----- 10.8mm laminated + 12.8mm laminated ----- 12.8mm laminated + 12.8mm laminated	44 dB ----- 43 dB ----- 47 dB ----- 48 dB ----- 49 dB		Cat. IVa ----- ----- ----- ----- Cat. IVa			
			Single Glazed Offset							10mm tempered	31 dB (A)				
					Steel Panel	35mm / 50mm - 18mm / 35mm / 50mm	+/- 7mm +/- 14mm  +/- 25mm (deflection head)	0mm / 2mm / 6mm	Yes	Whiteboards / Pinboards; Timber skin Fabric	Edge-to-edge steel panels (0mm joint) ----- Edge-to-edge steel panels (0mm joint) with reinforced junction	49 dB ----- 52 dB	B-s1, d0	Cat. IV	
					Technical Panel				No	Back-painted glass	-	-			
					Double glazed doors	54mm ----- 83mm		Butt Hinges (H) / Pivot Hinges (P)	H	6mm tempered  5mm tempered	Switchable glass; Manifestation  Switchable glass; Blinds; Manifestation	Steel Panel + 54mm thick double glazed door ----- 83mm thick double glazed door <u>only</u>	42 dB ----- 34 dB		
					Glass Door	10mm / 12mm		H & P	10mm tempered 12mm tempered	Manifestation	Steel Panel + 10mm thick tempered glass door (without drop seal) ----- Steel Panel + 10mm thick tempered glass door (without drop seal)	30 dB ----- 36 dB			
					Timber Door	44mm		Butt Hinges (H) / Pivot Hinges (P)	H & P	44mm Timber Leaf		Steel Panel + 44mm thick timber door	36 dB		
					Steel Door	44.5mm / 59.55mm	C61 (61mm) C55 (55mm) C32 (32mm)		44.5mm Steel Door 59mm Steel Door		Steel Panel + 44.5mm thick Steel Door ----- 59mm thick Steel Door (door <u>only</u> )	45 dB ----- 36 dB			
					Pocket Glass Sliding Door	10mm / 12mm	C2VV	Sliding	10mm tempered 12mm tempered		Double Glazed partitions (10mm+12mm thick glass) + pocket sliding door ----- Double Glazed partitions (10mm+12mm glass) + pocket sliding door with drop seal	28 dB ----- 30 dB			
					Pocket Framed Single Glazed Sliding Door	25mm	C2GOSV	Sliding	10mm tempered 12mm tempered		Double Glazed partitions (12.8mm+12.8mm thick glass) + framed single glazed sliding door ----- Framed single glazed sliding door (door <u>only</u> )	41 dB ----- 35 dB (calc.)			
					Pocket Double Glazed Sliding Door	54mm	C2DVV	Sliding	6+6mm tempered		Double Glazed partitions (10mm+12.8mm thick glass) + double glazed sliding door	37 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.