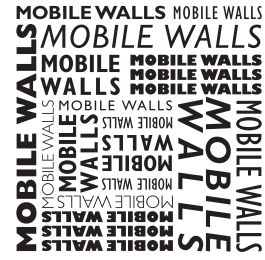


**Espero BV**

Sluisweg 26-28  
5145 PE Waalwijk  
The Netherlands  
T +31 (0)416 338955  
F +31 (0)416 332635  
E info@espero.nl  
I www.espero.net

general description  
mobile partitions  
**SONICO**



Espero mobile partitions efficiently divide space with the utmost ease and flexibility. Whether the requirement is acoustics, aesthetics, ease of use or cost effectiveness Espero has the answer.

The Sonico is the top of the Espero range of products. These partitions consist of composite panels suspended from the top track by means of multiple-wheel trolleys moving the panels along without the need of a floor track. The panels can be finished in virtually any material used in interior design. Lacquered in any colour, high quality wood veneers, hard plastics, melamine, etc.

A partition is made up of variety of different panels:

- (1) The basic panel, of which there are usually a number, has no special function other than its interlocking and sealing operation. Sound isolating pressurised seals at the top and bottom of the panel are operated by a removable lever key on the inner edge of the panel.
- (2) The functional panel is a basic panel with a special function. There are numerous possibilities of adapting the basic panels to specific situations, making the Sonico flexible and adaptable. The most commonly used functional panels are: door panel (DP), double door panel (DDP), glass or vision panel (GP) and basic panels with built-on corner (BPH) allowing one panel to seal onto another at any angle.
- (3) The closing panel is the panel that is necessary to complete the horizontal closure of the wall. This is the last panel to be put into position. This is either the telescopic panel (TP) or communication panel (KP), see below for description:

The telescopic panel (TP) has the same top and bottom seals as the basic panel. In addition it has a full-height operable seal completing the total closure of the partition. A removable lever key with the concealed hole on the face of the telescopic panel operates the top/bottom seal as well as the vertical seal in a single, easy movement. The patented 'Espero Quick System' ensures that the partition is completely sealed on all sides.

The communication panel (KP), which needs no wheel trolleys, eliminates the need for a door panel and telescopic panel and is therefore a very efficient alternative. The hinged communication panel is fixed on one side directly to the wall post. It operates therefore as a full height pass door, closing against the rebated basic panel (AP) next to it. The communication panel has pressure seals on the top and bottom. These seals are automatically operated when the communication panel is opened or closed. The maximum partition height for this option is 2500mm.

All panels, with exception of the communication panel, are suspended from the top track by means of multiple-wheel trolleys. The Sonico has two systems, the 1-point and the 2-point suspension system, which should be selected according to the requirements of the client.

The 1-point suspension system consists of a single trolley of vertically rolling wheels located in the top centre of the panel.

The wheels run in an aluminium track and the panels can only be stacked at either the left or the right of the run.

The 2-point suspension system consists of two sets of two horizontally mounted wheels. This extremely efficient system allows the panels to be multi-directional and they can be parked anywhere the clients wishes.

Depending on the size and weight of the panels an upper construction with sufficient strength and rigidity is required.

The top track will be fixed to this upper construction completely level by Espero. At the same time the side and floor alignment must be sufficiently level and plumb.

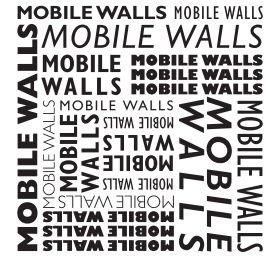
The content of this Technical Data Sheet have been completely brought up to date.

Espero BV has the right to make amendments without giving notice in advance.

Data sheet number: 02.SON.09.2005

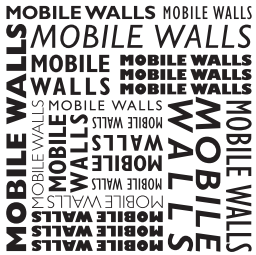
**Espero BV**  
 Sluisweg 26-28  
 5145 PE Waalwijk  
 The Netherlands  
**T** +31 (0)416 338955  
**F** +31 (0)416 332635  
**E** info@espero.nl  
**I** www.espero.net

Summary Technical  
 data sheet  
**SONICO**



Type	Sonico 85	Sonico 100	Sonico 110
Characteristics / Application	Slim-line option with medium sound insulation qualities	Heavy duty option with medium to high sound insulation qualities	Aesthetic option with medium to high sound insulation qualities
Standard Panel sizes: Thickness Width Height	87 mm 450 - 1240 mm 2000 - 6500 mm	100 mm 450 - 1244 mm 2000 - 13000 mm	116 mm 450 - 1233 mm 2000- 9000 mm
	Other panel sizes possible by request		
Frame Construction	Self supporting Aluminium Frame, made from heavy duty aluminium profiles, with internal steel reinforcements.		
Edges / Panel Face Appearance	Visible vertical aluminium edge profiles	Visible vertical and horizon. aluminium edge profiles	No visible aluminium edge profiles
Boards	High quality E1 chipboards 12mm (680 – 720 kg/m <sup>3</sup> )		
Finishes to Board Surface	All normal finishes that are used in interiors		
Fire Resistance NEN 6065:1991/A1:1997	Class 2	Class 2 Or in the type CF= 30: Class 1	Class 2
30 min. Fire resistance	-	CF= 30, R <sub>w</sub> = 39 dB	-
Sound insulation R <sub>w</sub> -values (laboratory tested)	37 dB, 42 dB	39 dB, 46 dB, 50 dB	37 dB, 41 dB, 45 dB, 50 dB, 53 dB
Weight m <sup>2</sup>	Rule of thumb: dB-value x m <sup>2</sup> wall opening = kg/ m <sup>2</sup>		
Side sealing of the panels	Twin seals of a tongue-and groove principle, with EPDM (rubber) seals. A solid and uniform sound insulation is guaranteed.		
Top and bottom sealing of the panels	Heavy duty aluminium extendable-profiles including closing EPDM seals.		R <sub>w</sub> =53dB model: Extra EPDM sweep seals top and bottom
Sealing pressure	40 kp. A compensation spring allows the seal to compensate for any small discrepancies on site.		
Operating mechanisms	Basic / Functional Panels: The patented 'Espero Quick System' (quarter turn). Telescopic Panel: The patented "Espero Double Sequence" mechanism. These operating mechanisms allow for fast and easy movement of the panels.		
Track	Heavy-duty aluminium profile. The 1-point rail = 50 x 98 mm. (width x height), The 2-point rail = 74 x 98 mm. (width x height)		
Multiple-wheel Trolleys	Steel ball bearings with plastic (PA/Nylon) surface for smooth and silent movement of panels 1-point: max. 240 kg panel weight 2-point: max. 400 kg panel weight		
Static behaviour	The panels may not be subjected to external forces or weights as the trolleys and tracks are designed for a specific load.		
Environmental constraints	1. Only suitable for inside use 2. Dry surroundings with maximum relative air-humidity of 60%		
Remarks	1. Deviating specifications by request. 2. Adviesbureau Peutz & Associates B.V. in Nijmegen (NL) have carried out the sound insulation tests according to NEN 20140-3:1998 and ISO 140-3:1978. 3. All aluminium profiles: EN AW-6060 T6 / VB6 - AA05 - VOMI		

The content of this Technical Data Sheet have been completely brought up to date.  
**Espero BV** has the right to make amendments without giving notice in advance.  
 Data sheet number: 02.SON.09.2005

<p><b>Espero BV</b>          Sluisweg 26-28          5145 PE Waalwijk          The Netherlands  <b>T</b> +31 (0)416 338955  <b>F</b> +31 (0)416 332635  <b>E</b> info@espero.nl  <b>I</b> www.espero.net</p>	<p>Mobile partition  <b>SONICO 85</b></p>		
Characteristic / Application	Slim line option. Medium sound insulation qualities, suitable for all purposes and completely flexible in execution and finishing.		
Standard Panel sizes: Thickness Width Height	87 mm 450 - 1240 mm 2000 - 6500 mm Minimum height for a door panel with a door leaf height of 2100 mm - 2470 mm		
	Other panel sizes possible by request		
Frame Construction	Self-supporting aluminium frame, made from heavy duty aluminium profiles with internal steel reinforcements. Boards are located inside the frame. Sound insulating materials are sandwiched between the boards.		
Edges / Panel Face Appearance	Visible vertical aluminium edge profiles designed to protect the vertical edges of the boards. The aluminium profiles are normally natural colour anodised but can be lacquered in any colour.		
Boards	High quality EI chipboards 12 mm, with a density of: 680 - 720 kg/m <sup>3</sup> .		
Finishes to Board Surface	All normal finishes that are used in interiors.		
Fire Resistance NEN 6065:1991/A1:1997	In all standard executions: Class 2		
Sound Insulation Rw-value (laboratory tested)	37 dB	42 dB	
Weight m <sup>2</sup>	30 kg/m <sup>2</sup>	45 kg/m <sup>2</sup>	
Side sealing of the panels	Twin seals of a tongue-and groove principle, with EPDM (rubber) seals. A solid and uniform sound insulation is guaranteed.		
Top and bottom sealing of the panels	Heavy duty aluminium extendable-profiles including closing EPDM seals.		
Sealing pressure	0,4KN. A compensation spring allows the seal to compensate for any small discrepancies on site.		
Operating mechanisms	Basic / Functional Panels: The patented 'Espero Quick System' (quarter turn). Telescopic Panel: The patented 'Espero Double Sequence' mechanism. These operating mechanisms allow for fast and easy movement of the panels.		
Track	Heavy-duty aluminium profile. The 1-point rail = 50 x 98 mm. (width x height), The 2-point rail = 74 x 98 mm. (width x height)		
Multiple-wheel Trolleys	Steel ball bearings with plastic (PA/Nylon) surface for smooth and silent movement of panels 1-point: max. 240 kg panel weight 2-point: max. 400 kg panel weight		
Static behaviour	The panels may not be subjected to external forces or weights as the trolleys and tracks are designed for a specific load.		
Environmental Constraints	1. Only suitable for inside use. 2. Dry surroundings with maximum relative air-humidity of 60%.		
Remarks	1. Deviating specifications on demand. 2. Adviesbureau Peutz & Associates B.V. in Nijmegen (NL) have carried out the sound insulation tests according to NEN 20140-3: 1998 and ISO 140-3: 1978. 3. All aluminium profiles: EN AW-6060 T6 / VB6 - AA05 - VOM1		

The content of this Technical Data Sheet have been completely brought up to date.  
**Espero BV** has the right to make amendments without giving notice in advance.  
 Data sheet number: 06.SON.09.2005