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# SONICO

MOBILE PANEL WALL

ESPERO





# SONICO

Flexibility is a key principle of the open learning environment of the Thor Heyerdahl College in Larvik. The architecture is intended to stimulate widely ranging activities such as informal meetings, teaching and working in quiet concentration. Mobile walls make it possible to rearrange the available space to suit the needs of a particular moment. The architects (Schmidt Hammer Lassen) specifically chose to use Sonico 110 walls in the classrooms and auditorium because of the attractive finishing and excellent acoustic qualities.



1 two Sonico 110 walls between a theatre and an auditorium

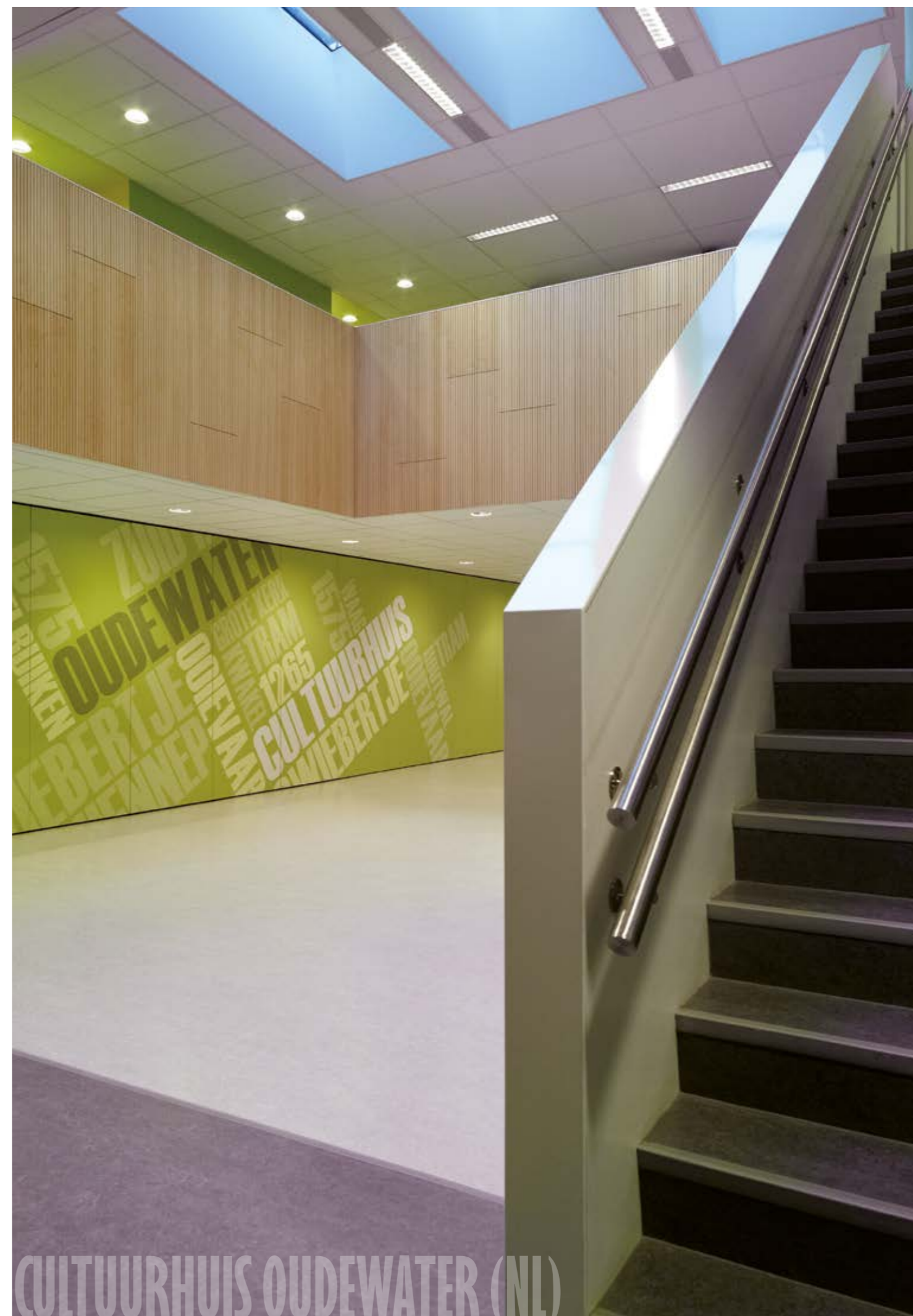
2 Sonico 110 wall parked in a class room (single-point suspension)

3 Sonico 110 wall between a class-room and communal space



THOR HEYERDAHL COLLEGE LARVIK (N)

# SONICO



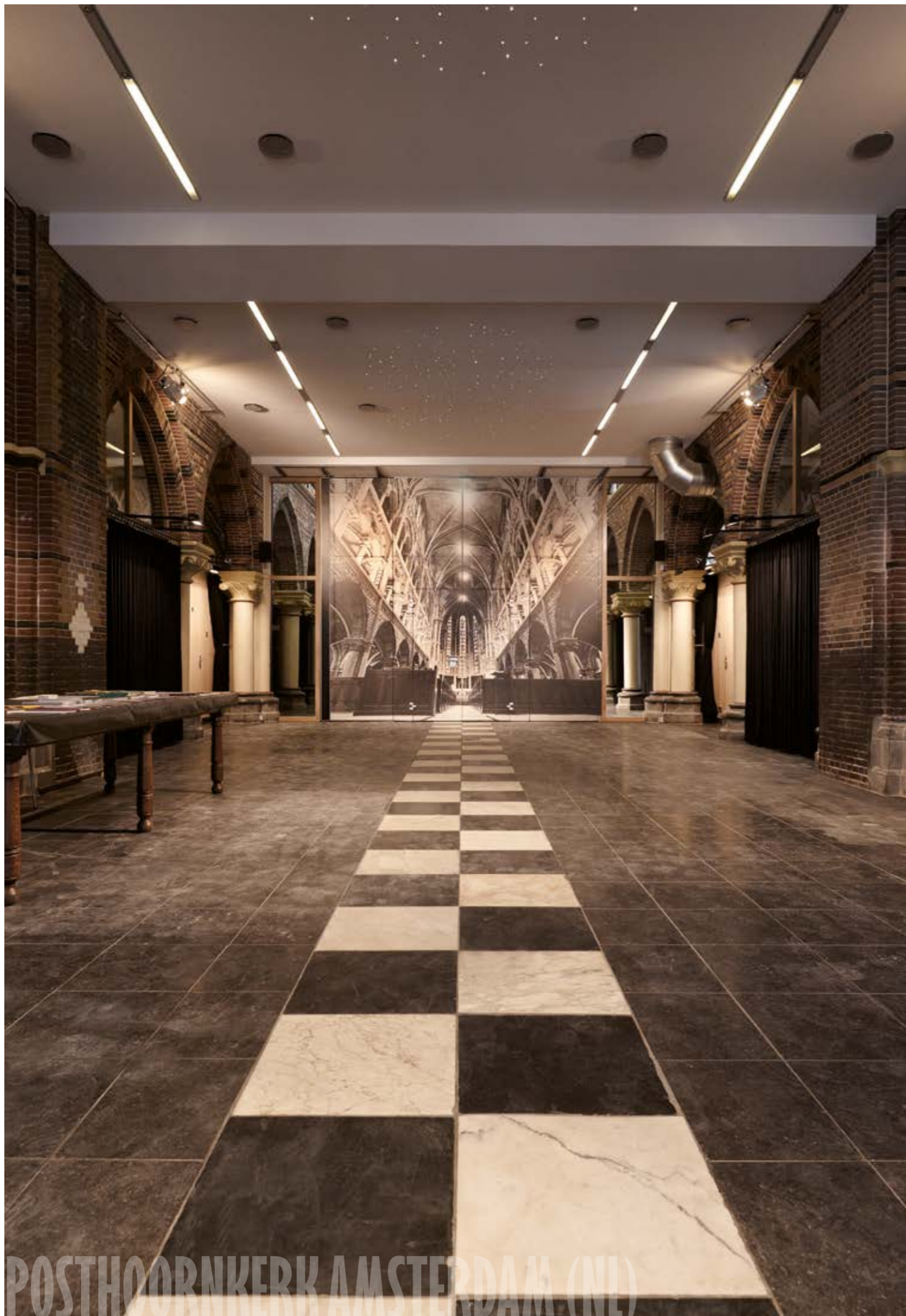
Four different versions of the Sonico are available:

- 85** Slim-line version with visible aluminium profiles
- 100** Robust version with visible vertical and horizontal aluminium profiles
- 110** Aesthetic version with concealed, invisible aluminium profiles
- 120** Aesthetic version with concealed, invisible aluminium profiles and the highest possible sound insulation rating of  $R_w = 58$  dB
- SA** All versions can be supplied with a semi-automatic operating mechanism

The Sonico 110 wall with its typographic digital print immediately catches the eye in the Cultural Centre in Oudewater. Together with the other Sonico walls positioned at right angles, it offers the possibility of partitioning the interior space in various ways. The result is the creation of individual rooms that have their own function and atmosphere.

Sonico walls can be finished completely to suit requirements. All finishes used in contemporary interior design can be applied offering total creative freedom, for example, high quality melamine, hard plastic laminate, vinyl, digital prints, paint, steel sheets, acoustic boards, and veneers which are stitched, glued and lacquered in Espero's own factory.

# SONICO



POSTHOORNKERK AMSTERDAM (NL)



As a result of the efforts of the Posthoornkerk Foundation, the church of the same name (designed by the famous architect P.J.H. Cuypers) was saved from demolition and the preservation of this monumental building in Amsterdam was secured.

The nave of the church is now used for various social and cultural activities. For partitioning the space, a Sonico 110 wall was installed with a black-and-white image of the church interior hidden from view on the other side of the panels. In addition to enhancing the intimacy of the space, the wall also reduces energy costs.

Thanks to Espero's patented quick-locking mechanism, turning the operating handle 180° is all it takes to set up or take away the wall quickly and easily.



# SONICO

Besides the more common finishing methods, the Sonico panels can also be covered with (printed) fabrics. By using a special technique, the fabric can be stretched tautly without creases over the panels so that it can even be fitted on a Sonico I10 or I20 wall (without visible aluminium frame profiles). Alongside the attractive decorative effect, this finishing method also improves the acoustic comfort of spaces that are mainly furnished with 'hard materials'.



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KAARKERBORG (NL)

The requirements imposed on the construction of the new UCM building that the plans of the architects from Atelier d'Architecture Ad'A had to meet included low energy consumption, sturdy materials, sustainability, thermal and acoustic comfort and large spatial qualities. The interior of the auditorium is certainly eye-catching. It is an attractive space for congresses, lectures and presentations that can be divided into two sections using a semi-automatically operated Sonico 100 mobile wall. The high sound insulation rating of the wall when closed makes it possible to hold two meetings at the same time without experiencing any problems with each other's sound volume.

# SONICO



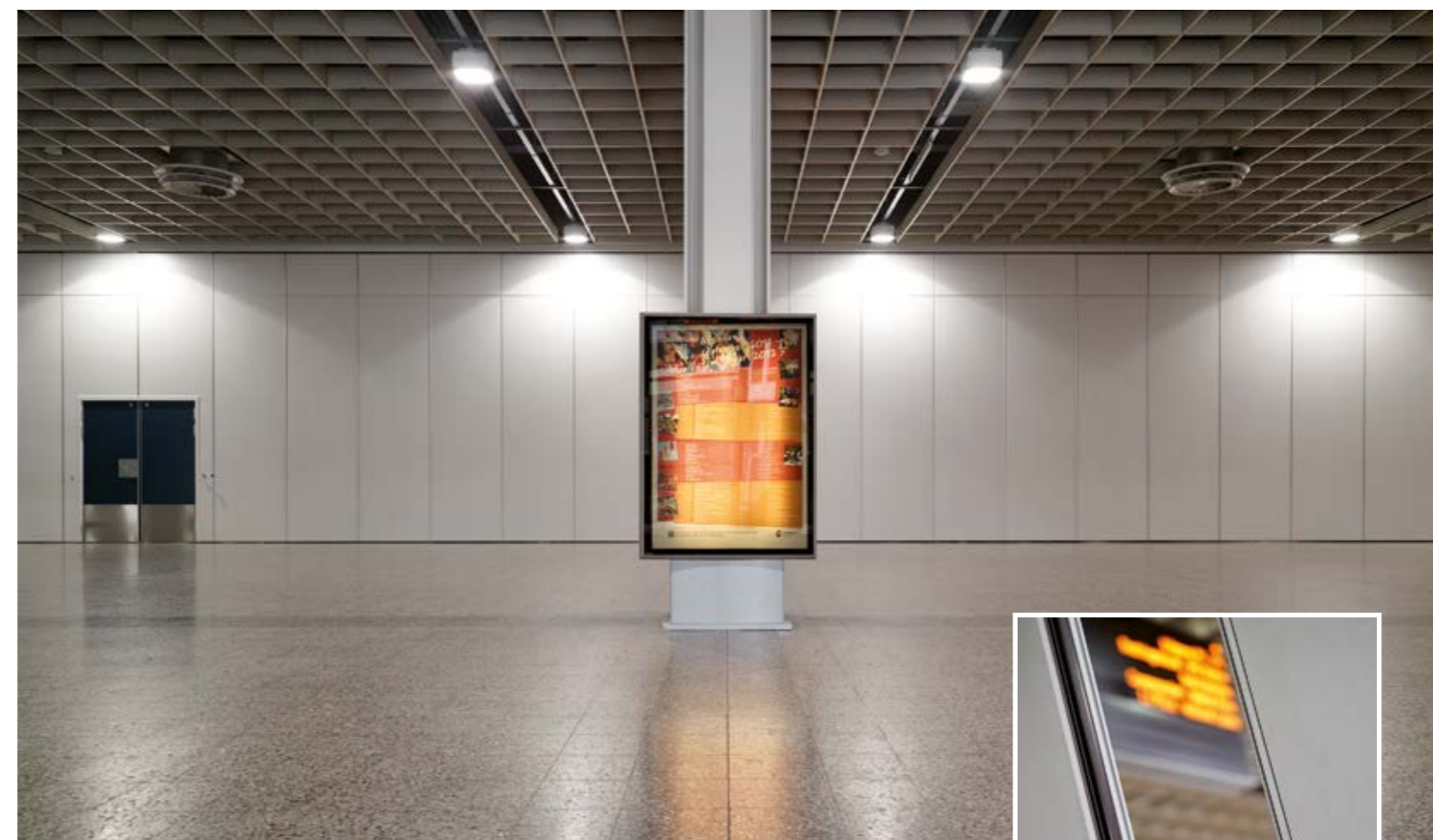
4 panels with staggered differences in height

5 removing the panels

6 the completely opened wall

7 operating panel for the SA version

# SONICO



The Sonico 100 wall in the Jaarbeurs Exhibition Hall in Utrecht is 47 metres wide and almost 5 metres high. This wall has to be able to withstand rough treatment in all the hustle and bustle that goes with a trade fair and exhibition complex with millions of visitors each year. Purpose-built extra high doors for moving goods around quickly and easily have been integrated in the door. Forklift trucks can drive through without any problems.

Because of the patented sequential operation, the smoothly working quick-locking mechanism (that operate the seals at the top and bottom of the panel) and the Sonico ceiling track system, this huge wall can also be set up or removed within a very short space of time.



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JAARBEURS UTRECHT (NL)



# SONICO



In the 1990s, the site of the former coal gasification plant in Amsterdam was converted into a cultural meeting place. The Westergasfabriek has now become a pulsating modern complex with theatres, television studios, restaurants and pubs. In the place where gas used to be blown through giant boilers now stands the MC Theatre, in which the stage, stand and walls can be moved around to accommodate a wide range of activities.

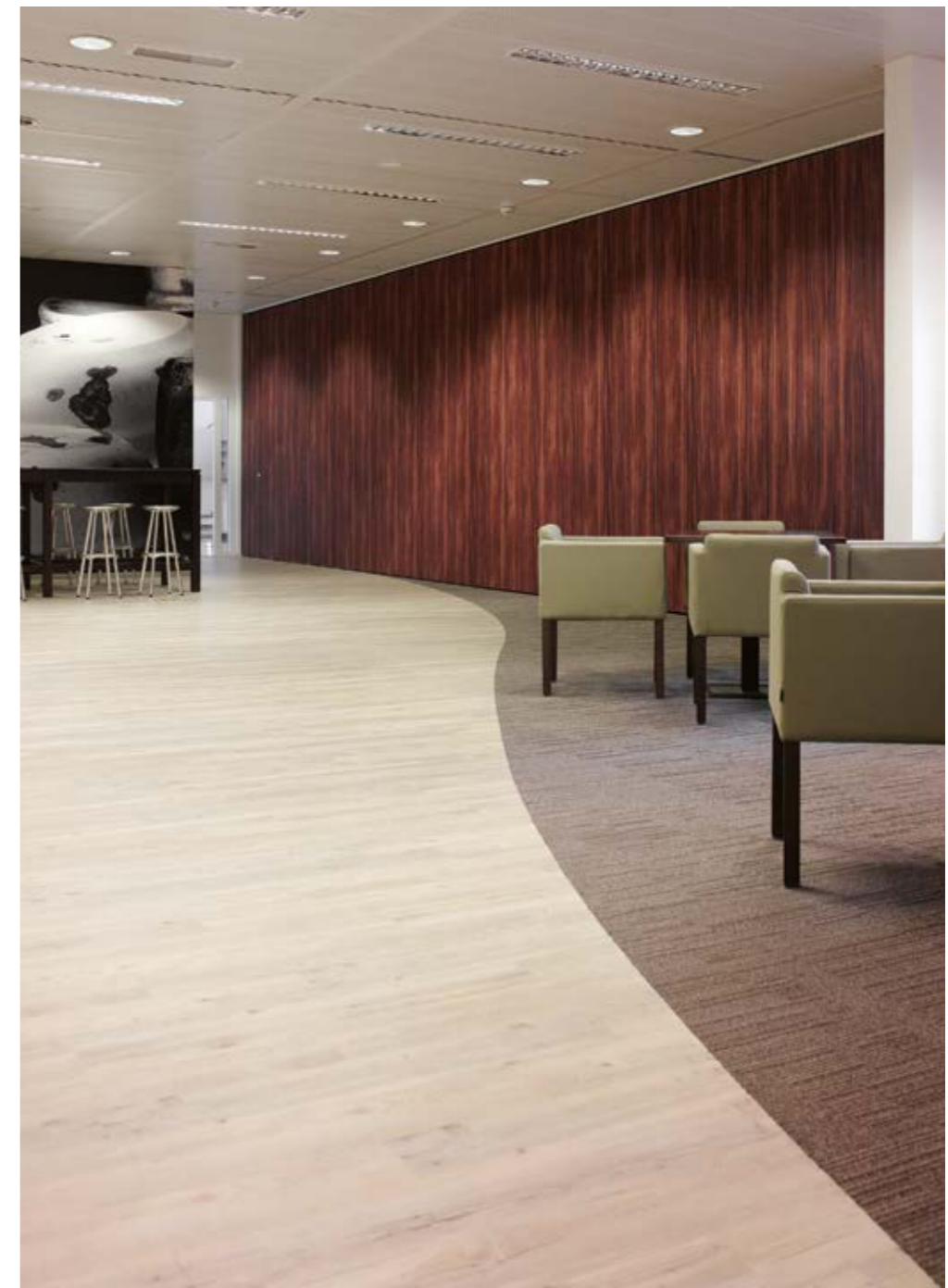
The extra high Sonico 100 walls are operated with a special hoisting mechanism, which makes it possible for the overhead construction to have to support only one panel while the others rest on the floor. The walls also improve to the sound-proofing of the partitioned spaces inside and outside the theatre when concerts and plays are performed.



WESTERGASFABRIEK AMSTERDAM (NL)

# SONICO

Meeting quietly when the company canteen is open on the other side of the wall? Espero makes it possible. The Sonico I20 is the wall for partitioning spaces that have to meet the strictest requirements for sound insulation and flexibility. With a sound insulation rating of no less than  $R_w=58$  dB (laboratory tested), the Sonico I20 offers unique acoustic comfort.



The architectural heart of this primary school consists of a multifunctional space with permanent and mobile walls with an eye-catching, decorative Vescom Vinyl print.  
 The school gymnasium is enclosed within a Sonico 100 wall, but because of the high sound insulation rating, people can work and meet in the corridors without being disturbed by the PE lessons.  
 If a large open space is required for other school and extra-curricular activities, the mobile wall can simply be removed and compactly stored.

# SONICO



- 8** parking area in gymnasium with transport tracks for various wall set-ups
- 9** left: Flexio walls by the classrooms, right Sonico 100
- 10** Vescom vinyl print finishing on Sonico 100 wall



# SONICO

For Espero, flexibility means much more than producing the top-quality Sonico, Visio 100, Flexio, Visio and Uno & Duplo wall systems. Espero also supplies, for example, sliding walls (if necessary with a semi-automatic operating mechanism) or Sonico panels for flexibly partitioning an exhibition hall.

Because of the knowledge and ability of its enthusiastic skilled workforce and active R&D department, Espero can always provide the right solution for creating flexible layouts. Contact Espero for more information and expert, personal advice with no strings attached!

13 semi-automatic operation for optimal ease of use



### Key features and advantages:

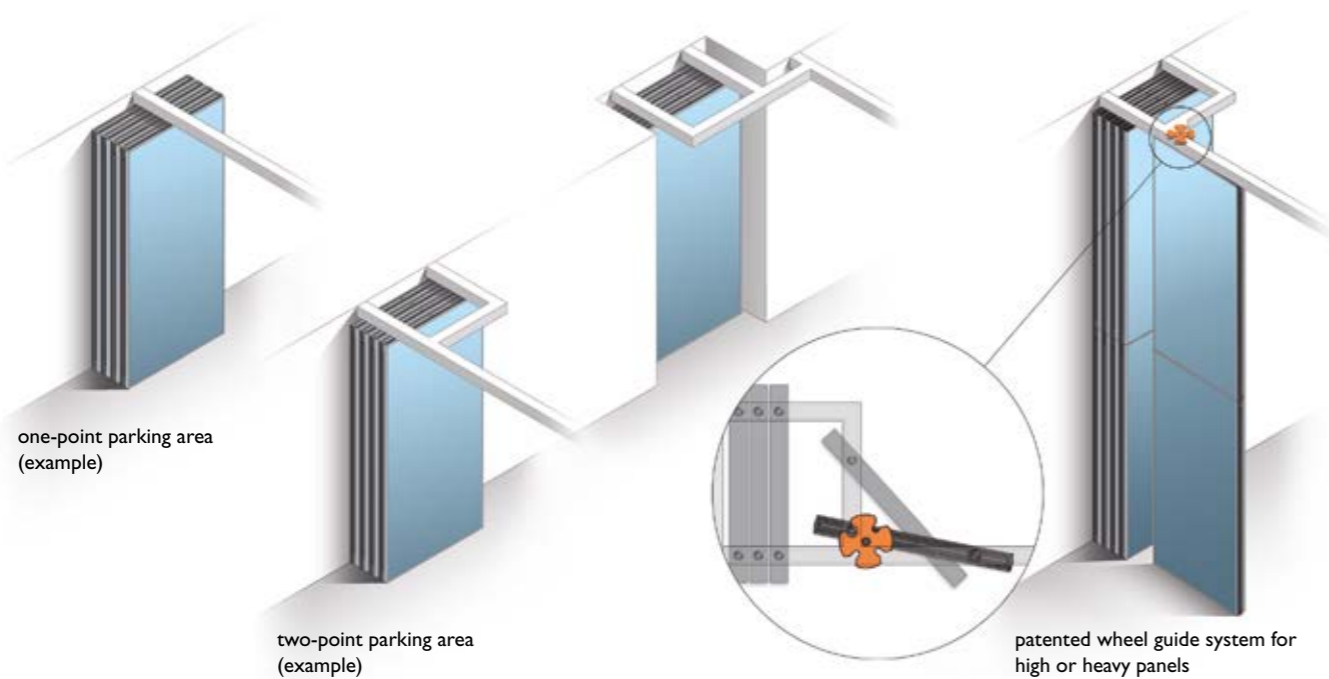
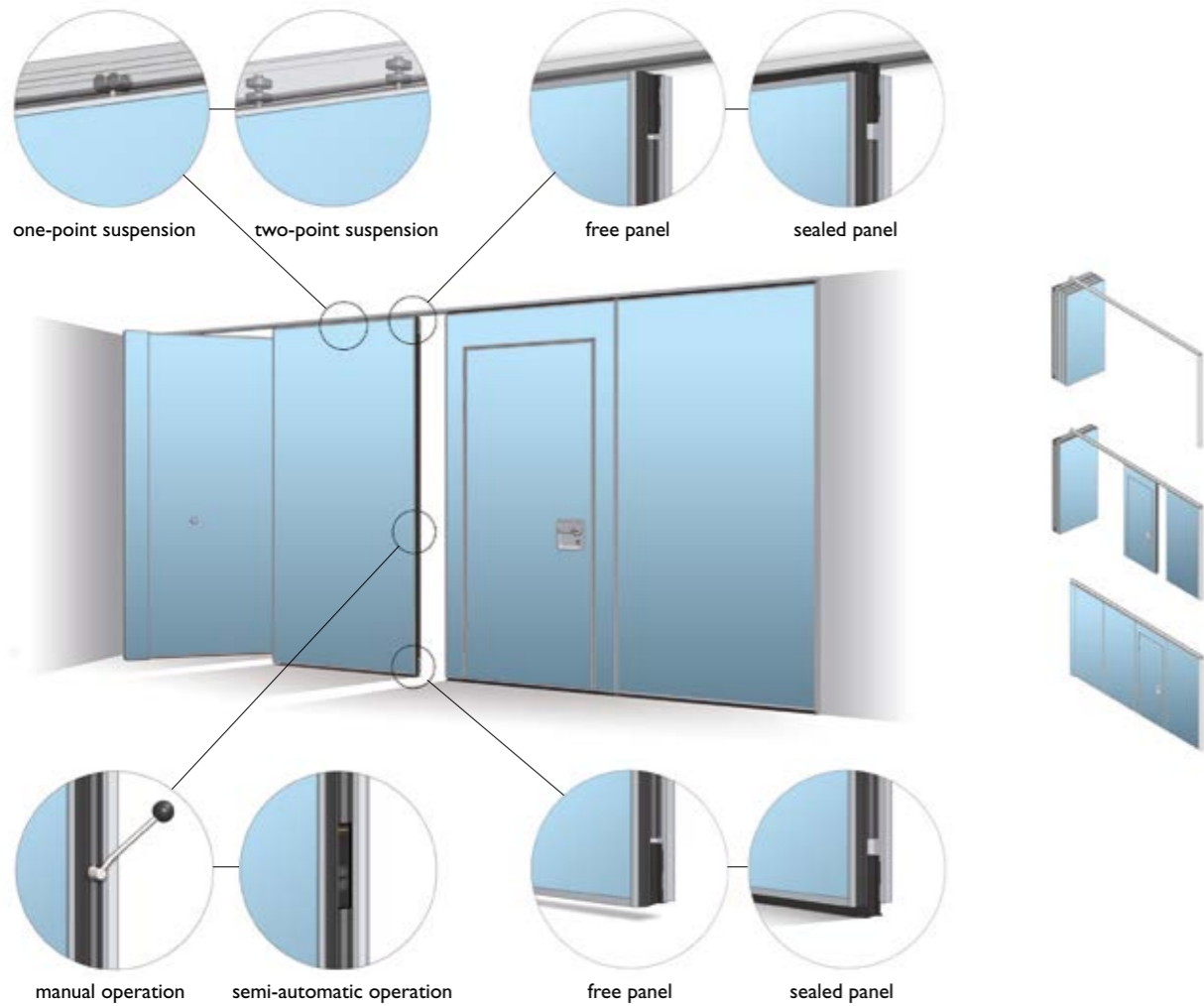
- Sonico mobile walls can be quickly, easily and silently set up and stored
- extensive range of set-up options for the walls, including straight, curved, with staggered heights (in an auditorium) or extended corners
- all customary interior finishes can be applied
- choice from four different Sonico wall types: 85, 100, 110 en 120
- no maximum width limit
- height up to 12 metres, other dimensions on request
- choice from different sound insulation ratings ranging from  $R_w = 37\text{dB}$  to  $R_w = 58\text{dB}$  (laboratory tested)
- the track can be fitted to all ceiling types without problems
- available with single-point or two-point suspension

### Opties:

- magnetic profiles for optimal ease of use when setting up the panels
- semi-automatic operation
- fire-resistant version

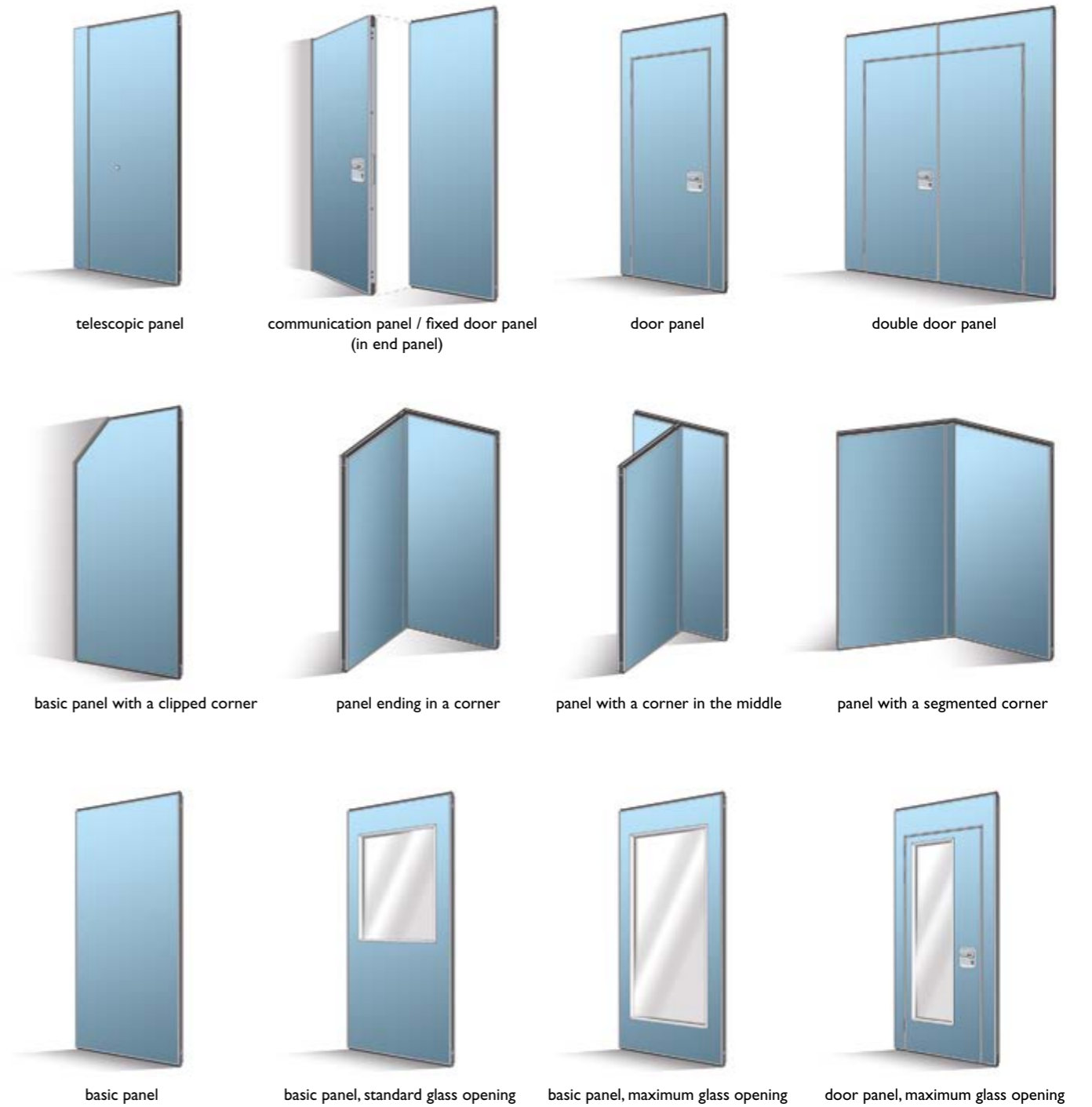
# SONICO

## WALL DETAILS & STORAGE POSSIBILITIES



# SONICO

## PANELS, CONNECTIONS & GLASS OPENINGS



# SONICO



TYPE	SONICO 85	SONICO 100	SONICO 110	SONICO 120
Use	Slim-line version with average sound insulation ratings	Robust version with average to high sound insulation ratings	Aesthetic version with average to high sound insulation ratings	Aesthetic version with the highest possible sound insulation ratings
Panel dimensions:				
Thickness	89 mm	107 mm	117 mm	125 mm
Height	max. 5,000 mm*	max. 12,000 mm*	max. 12,000 mm*	max. 7,000 mm*
Width	450 – 1,300 mm	450 – 1,304 mm	450 – 1,293 mm	450 – 1,293 mm
Frame construction	Self-supporting aluminium frame, consisting of solid aluminium profiles, with internal steel bracing.			
Sides	Visible vertical frame profile	Visible vertical and horizontal frame profile	Concealed frame profile	Concealed frame profile
Material	High-grade E1 quality chipboard.			
Finishing	All common materials used in interior finishing can be used.			
Sound insulation rating Rw (laboratory)	37, 41 and 43 dB	38, 40, 42, 46, 50, 52, 53, 54 and 55 dB	38, 40, 42, 44, 47, 50, 52, 54 and 56 dB	58 dB
	The sound insulation values were obtained in tests performed by DIN EN ISO 10140-2:2010 certified laboratories.			
Weight	23 – 31 kg/m <sup>2</sup>	25 – 47 kg/m <sup>2</sup>	30 – 56 kg/m <sup>2</sup>	57 kg/m <sup>2</sup>
Flame retardancy 30 minutes	–	–	EN 13501-2:2007+A1:2009	–
Smoke retardancy 60 minutes in combination with fire retardancy	–	–	NEN 6075:1991:CI:2005	–
Panel interconnect interconnect	Dual construction based on the tongue and groove principle: all the panels have a male/female profile with a magnetic strip to ensure consistent, effective sound insulation.			
Top and bottom panel connection	Solid aluminium operation seals fitted with rubber sealing profiles.			
Closing force	0.4 KN, the respective profiles are always fitted with a spring to compensate slight deviations in the structural connections.			
Operating mechanism	The ultra-user-friendly quick-locking mechanism and with the telescopic panel (= end/closure panel) the patented sequential operation, which allows setting up and dismantling a wall to take place quickly and smoothly.			
Operating mechanism semi-automatic	In addition to the manually operated system for locking the top and bottom operation seals, an electrical version is also available: Sonico semi-automatic (SA). The locking system is operated by pushing a button, that electrically pulls in or pushes out the operation seals.			
Track	Solid aluminium profile (technically anodised colourless), for the single-point track measuring 110x78 mm (w x h) and the two-point track measuring 110x98 mm (w x h). Can be painted in any RAL colour if required.			
Wheels / Trolleys	Bearing-mounted with wear-resistant plastic running surfaces that ensure the panels move smoothly and quietly. Single points: max. 240 kg panel weight / Two point: max. 400 kg panel weight.			
Rotor	Patented revolving guide system for storing high and heavy panels.			
Static behaviour	The panels are top-hung in the track and must not be subjected to any external loads.			
Environmental conditions	Suitable for indoor applications. Maximum relative humidity 60%.			

Other specifications available on request. Espero reserves the right to make changes without prior notification. For the most recent version, go to: [www.espero.nl](http://www.espero.nl).



Sonico 85

Sonico 100

Sonico 110

Sonico 120



Espero prioritises customer satisfaction. The production process, modern advanced machinery, the product quality, the expertise and professionalism of our employees; everything has been designed to live up to and, wherever possible, to exceed the expectations of our customers.

By maintaining frequent and intensive contact with clients and suppliers, we can quickly and flexibly respond to new wishes and requirements with innovative products. Our employees work in a pleasant and safe environment in the office, in the factory and on the road. They receive the right support to encourage their personal development and take (additional) training courses in order to guarantee the high quality and excellent service for which Espero is known now and in the future.

**ESPERO**

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# ESPERO

## MOBILE WALLS



The mark of  
responsible forestry  
FSC® C102608

Enquire about our FSC®- certified products.

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Ask for the documentation for more information about our other wall systems: Flexio, Visio 100, Visio, Uno & Duplo and Skyfold.

