

# Moveable walls Multi-Eco 85 U and Multi-Eco 100 K

**MULTIWAL**



## Quality doesn't always have to be expensive

For those who use space in a flexible way, Multiwal applies moveable walls. Besides high quality products such as Multi-Electric, Select 100 K/U and Commandoor, Multiwal has developed the Multi Eco 85U and Multi Eco 100K, the overall solution between the traditional harmonic door and the high quality moveable walls.

In case there's no need for intensive soundproofing but a flat movable wall is desired without compromising functionality or quality, the ECO range with manual operation offers the solution.





## Multi-Eco 85 U / 100 K

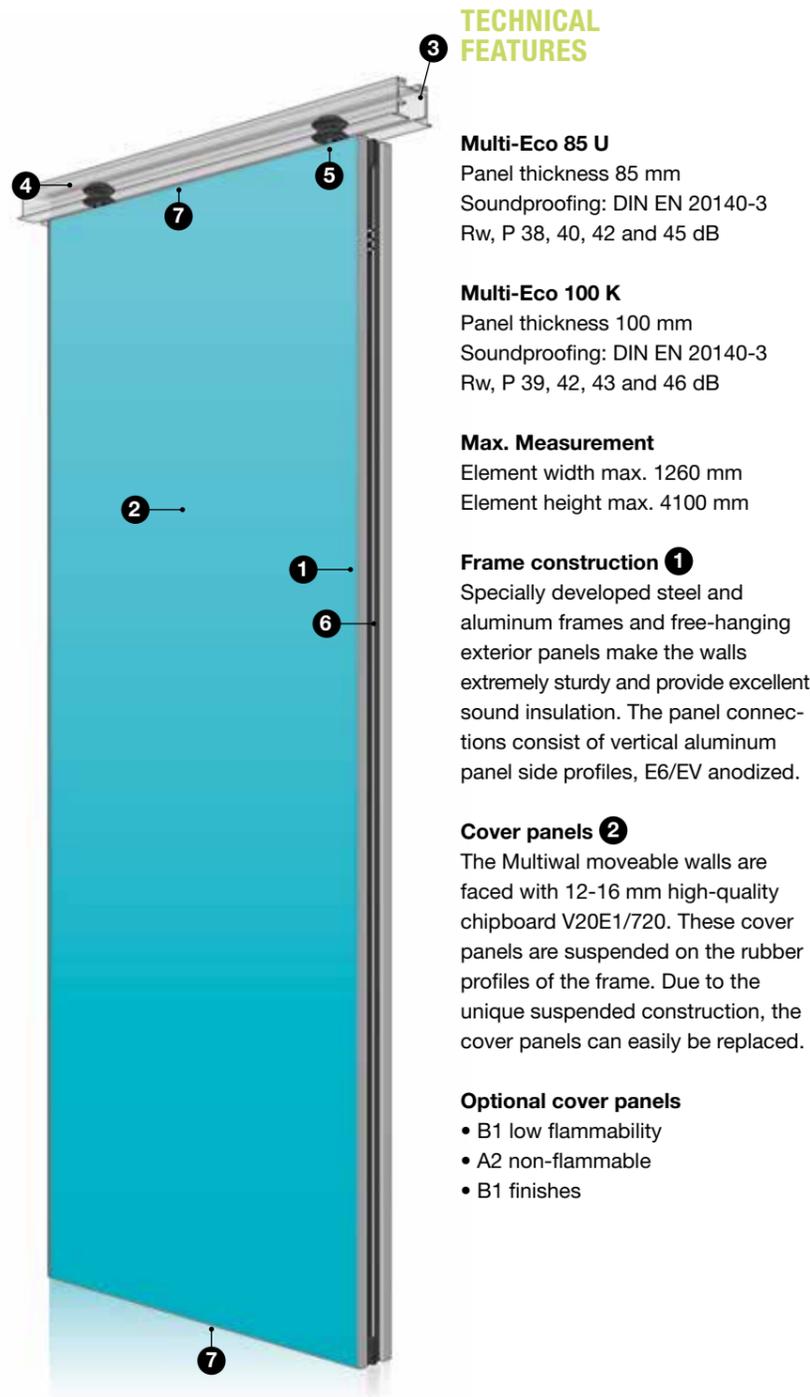


### Simplicity with a superior quality

Often it's unnecessary to fabricate highly complicated solutions. Soundproofing is not a big issue everywhere. This is why Multiwal created the Multi-Eco. Naturally a moveable wall with Multiwal's high standard quality, but created for situations requiring a more simplified solution.



## Multi-Eco - the technical detail



### TECHNICAL FEATURES

#### Multi-Eco 85 U

Panel thickness 85 mm  
Soundproofing: DIN EN 20140-3  
Rw, P 38, 40, 42 and 45 dB

#### Multi-Eco 100 K

Panel thickness 100 mm  
Soundproofing: DIN EN 20140-3  
Rw, P 39, 42, 43 and 46 dB

#### Max. Measurement

Element width max. 1260 mm  
Element height max. 4100 mm

#### Frame construction 1

Specially developed steel and aluminum frames and free-hanging exterior panels make the walls extremely sturdy and provide excellent sound insulation. The panel connections consist of vertical aluminum panel side profiles, E6/EV anodized.

#### Cover panels 2

The Multiwal moveable walls are faced with 12-16 mm high-quality chipboard V20E1/720. These cover panels are suspended on the rubber profiles of the frame. Due to the unique suspended construction, the cover panels can easily be replaced.

#### Optional cover panels

- B1 low flammability
- A2 non-flammable
- B1 finishes

#### Finishes

8 standard colours to customer's requirements. Optional: every finish you can think of.

#### Track 3

Aluminum track in standard colour RAL 9010.

#### Running gear 4

Bearing rollers with high-quality roller technology have been specially developed for the Multiwal moveable walls. Combined with an ingenious aluminum track system, the panels can be easily moved.

#### Panel height adjustment 5

Panel height is fully adjustable without dismantling the main assembly. Disturbing the ceiling finish is not necessary to fine tune the panels.

#### Vertical interface 6

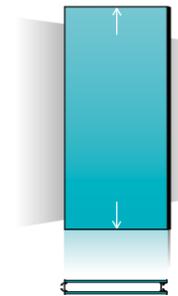
Concave/convex aluminum profiles guarantee that the seal is effective and insulates properly. The solid and precise connection between the panels is achieved by means of strong, full height magnetic strips and purpose made sound sealing strips located on the inner face.

#### Horizontal closing 7

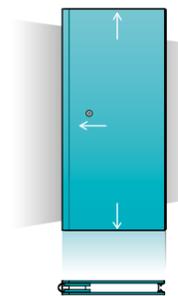
To obtain the best soundproofing effect, the wall must fit tightly against the floor and ceiling.

Each panel is fitted with black anodised pressure seals at the top and bottom with a compressive force of 1,5 kN/m<sup>2</sup>.

## Element types



**NE Normal panel**  
Standard basic panel



**TEF Internal telescopic panel**  
The Multi Eco model is provided with an internal moveable sleeve (TEF). When the telescopic panel is fully extended, it is flush with the face of the wall. The telescopic moveable sleeve has the same finish as the wall.



**FT Fixed pass door**  
The telescopic panel can be replaced by, or used in conjunction with, a fixed pass door. The pass door is full height and is fixed to one end of the existing building structure. The door is equipped with pressure seals at the top and bottom, which extend automatically during the closing action of the door.

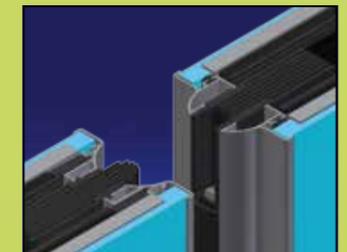


**DT Pass door panel (single hinged)**  
This fully moveable pass door is constructed with a high-quality welded steel frame. This solid construction makes any type of floor track or locking mechanism redundant. The door is equipped with a pressure seal at the bottom, which extends automatically during the closing action of the door. During sliding of the pass door panel, the door will be secured automatically.

### PANEL CONNECTION MULTI-ECO

#### Multi-Eco 85 U

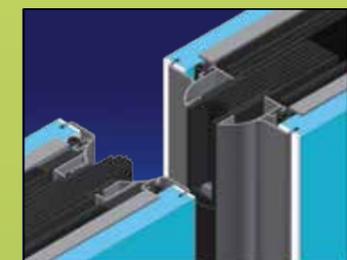
- When the wall is closed, there is 4 mm of visible aluminum profiles
- With internal rubber sealing strips



Multi-Eco 85 U

#### Multi-Eco 100 K

- When the wall is closed, there are no visible aluminum profiles
- With internal rubber sealing strips



Multi-Eco 100 K

# Multi-Eco rail and track suspension

## Easy to use right down to the smallest detail

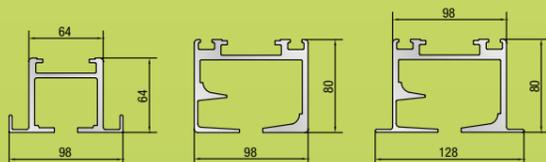
Thanks to the well-balanced construction of the track and the precision running gear, Multiwal moveable walls can easily be moved by hand. Based on years of experience, Multiwal has developed a number of silent track systems that can be used for all of its moveable walls.



Type MA 1-suspension point



Type MR - MR-1 2-suspension point with or without ceiling support flange



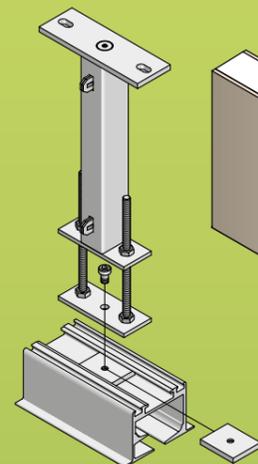
- All tracks are aluminum with precision bearing rollers
- Standard powder-coating colour is RAL 9010
- All other colours can be provided upon request

### Track suspension

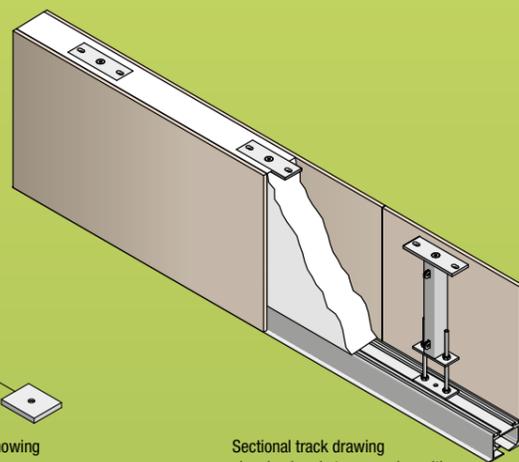
Tracks can be installed with or without a sound baffle between the ceiling and the building structure as required. The desired sound insulation is achieved by using soundproofing materials such as a compressed mineral wool slab, Sonorex or plasterboard.

The bracket suspension system ensures a precise track height and comprises :

- Tubular steel sections 40 x 50 mm
- Galvanized steel assembly plates
- Adjustable threaded steel connection rods at the base
- Soundproofing materials, dependent on the desired sound insulation

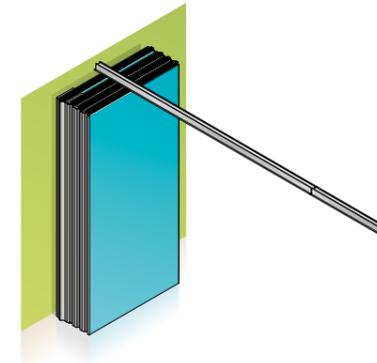


Sectional track drawing showing bracket suspension



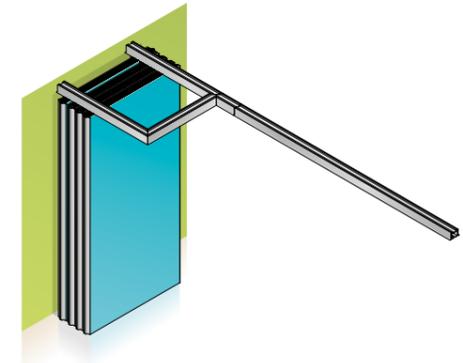
Sectional track drawing showing bracket suspension with acoustic baffle/barrier

# Parking options



### Single suspension point, MA track

Each panel is suspended by one centrally fixed, quadruple surface, bearing roller. This enables panels to be easily moved to the parking position without the use of an auxiliary track.

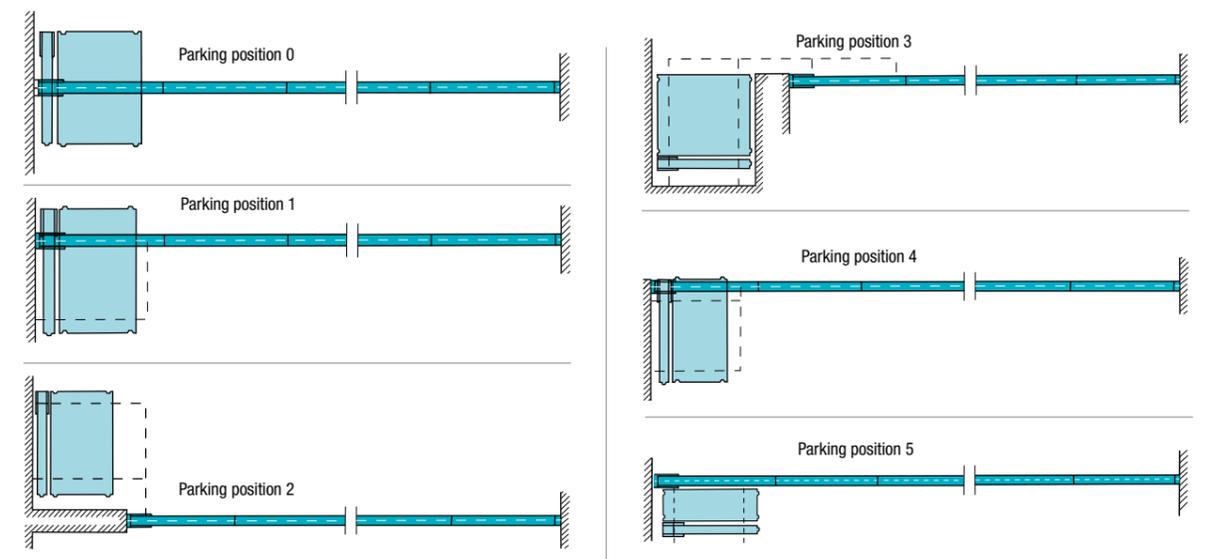


### Double suspension point, MR/MR-1 and MR-S track

Each panel is suspended by two bearing rollers, which enables it to be moved in every required direction to the parking position using an auxiliary track.

### Customised parking

The five most common standard parking positions are shown below. The Multiwal track constructions allow a variety of possibilities to achieve practically all imaginable parking solutions.



# Multiwal is fully certified

### Permanent control

Multiwal has in-house design and production facilities in The Netherlands and Germany. Implementing advanced technologies is innate to Multiwal walls. Multiwal will remain committed to your project, even after the walls have been expertly installed and final inspection has been carried out. Periodical inspections by the Multiwal team of specialists will ensure that your dividing walls remain in perfect condition.

### Quality management

To ensure our quality standard, Multiwal is certified according to quality management system DIN EN ISO 9001 : 2008 ISO.

Furthermore, the following certificates are available:

- Sound insulation according to DIN EN 10140-2 / 20140-3, laboratory values by international testing laboratories.
- Fire resistance according to EN 1364-1: 1999 and EN 1634-1: 2008
- TÜV-certification, durability test, construction test, ball-proof test according to DIN EN 1023-3: 2001-01, DIN 4103-1: 1994-07, DIN 18032-3: 1997-04, DIN EN 60335-1 (VDE 0700 Teil 1): 2007-02

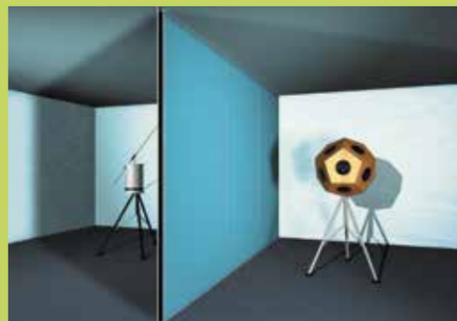
### FSC®-certified

Multiwal acquired the international, independent FSC®-certificate which ensures that raw materials for wood and paper products come from responsibly managed and maintained forests, with all the attention for the people who rely on it. Every large environmental and development organization recommends FSC. This is what makes FSC unique and it's the reason that Multiwal supports FSC-wood and paper to help protect the forests worldwide!

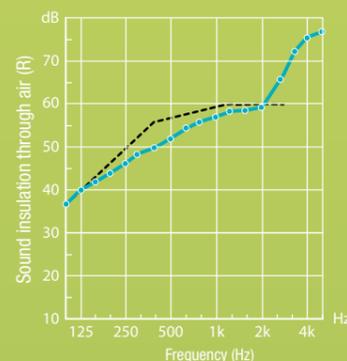


The mark of responsible forestry

# Silence on request



Efficient arrangement of available space involves not only a visual barrier but also a good sound insulation. Multiwal has carefully considered these requirements, developing special components, a technically flawless construction and first class quality control procedures. Our moveable walls have been tested by TNO Technical Physical Service at Delft University of Technology at ITA and Fraunhofer-Institut in Germany. Sound-proofing up to 59 dB is possible. A level that is every bit as good as the most modern fixed walls.



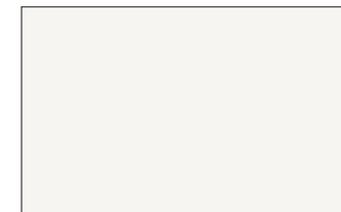
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 —●— Octave band value

# Colours

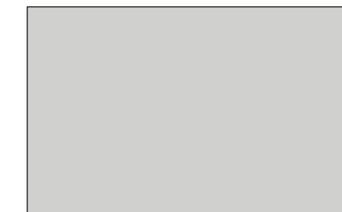
Multiwal composed a standard selection of 8 colours only for the Multi-Eco.



MW14 - 131/8 - White



MW14 - UN77 - Light grey



MW14 - U26/6 - Pearl grey



MW14 - UN228 - Yellow



MW14 - U64/6 - Cream Ivory



MW14 - HN3036 - Beech nature



MW14 - H4404 - Birch nature



MW14 - HL1238 - Oak nature

Naturally every finish imaginable is possible, for this option we kindly direct you to Multi-Design.

# Worldwide service

Multiwal is an internationally operating company focusing on moveable walls, with its main office in The Netherlands, production in The Netherlands and Germany and subsidiaries in France and the UK.

extremely versatile. They offer creative freedom in every possible design.

Multiwal designs, manufactures and installs moveable partitions that create space worldwide. Whether creating space in multi-functional centres, banks, schools, hotels, restaurants or offices, Multiwal sliding partitions are

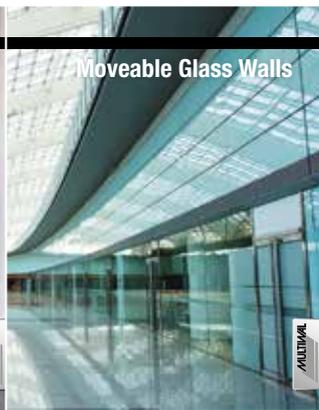
**Service nearby**  
 The best service is local service, close to the customer. That is why Multiwal has established operations worldwide to maintain strong relations with all our customers now and in the future.

The information in this brochure has been compiled with the utmost care. However, we reserve the right to change specifications or other information without further notice.





Moveable Walls



Moveable Glass Walls



Moveable walls  
Multi-Eco 85 U and  
Multi-Eco 100 K



Folding Partitions



Multi Design

Your window to another world!

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