

Door Controls



Automatics



Glass Fittings and Accessories



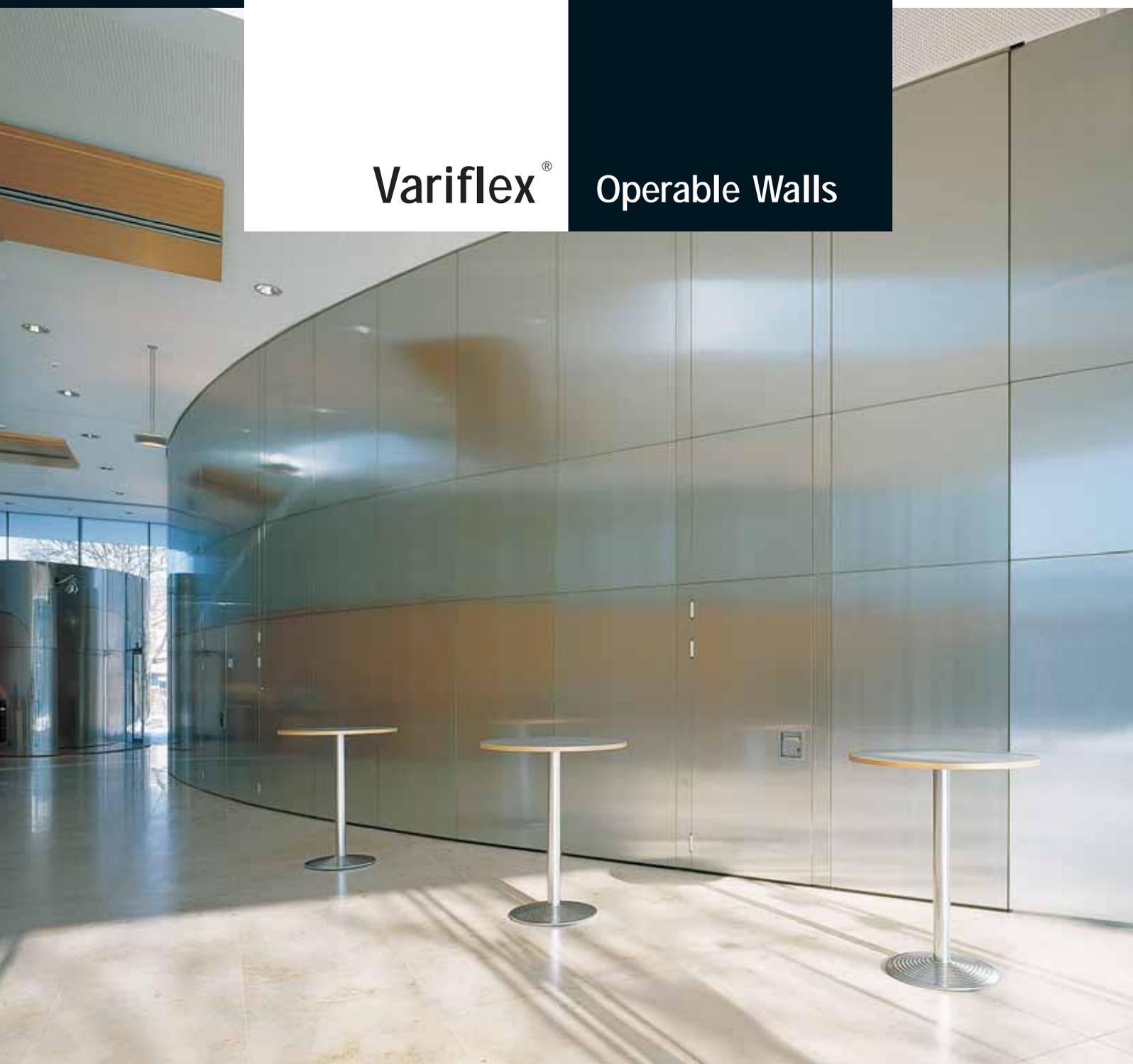
Movable Walls

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**Variflex<sup>®</sup>**

**Operable Walls**



Intelligent solutions for sophisticated interior design requirements





Modern living areas should provide those who use them with an enhanced quality of life. Variflex operable wall systems from DORMA offer the best possible solution there is.

Regardless of their characteristics and function, rooms can be effortlessly partitioned, made smaller, larger or re-proportioned to suit individual requirements. Any area, from a small conference room to a large exhibition hall, can be optimally adapted to suit varying numbers of users. Excellent sound insulation properties allow different events to be held in adjacent areas without any intrusive noise.

This flexibility is the key to creating the perfect ambiance in any situation, distinguished by a broad range of surface finishes and coverings to satisfy any creative or aesthetic demand. Mobile partitioning coupled with flawless operating technology enables DORMA to provide the ideal solution every time, ensuring that the people using the rooms feel at home, whatever the setting.



■ Customised flexibility for  
multi-functional layouts



From system configurations to practical considerations, the architectural design options are almost limitless with Variflex. Intelligent partitioning creates areas perfectly customised to the given demands and functional requirements. This guarantees the highest degree of flexibility in daily use. The

more complex the questions asked of a mobile partitioning system, the louder the call for the Variflex answer. The Variflex system can adapt even those areas with the most unusual dimensions to suit individual requirements. The diversity and flexibility of the system guarantees perfect solutions

every time, even for rooms with high or sloping ceilings or for circular areas. The system configurations can accommodate straight, angled, polygonal and even ellipsoid partitioning as required.

Note: Tracks and panels are segmented.



## Functional design and aesthetics coupled with superior quality

A room is characterised primarily by its visual appearance. As a result, a room partitioning system should also blend in harmoniously with its given surroundings. With an almost infinite choice of designs and colours to cater for the most sophisticated design and layout requests, Variflex fulfils this requirement admirably. Comprehensively translating creative and artistic ideas into reality, the Variflex system counters the most intricate aesthetic needs with a

multitude of design options. The high-quality materials and their visual effects are unsurpassed.

When it comes to the design-oriented configuration of today's living areas, it is no wonder that Variflex has a role to play in all planning considerations. But that's not all. The standard of craftsmanship embodied in Variflex systems is also second to none. This applies to the widest array of materials, from

hardwood veneers through fabric coverings to laminated surfaces. Only this close attention to detail can guarantee the desired visual appearance for many years to come.

The use of exquisite materials and various material combinations can be particularly appealing. Timber and glass, timber and metal, timber and stainless steel, and even different timbers can all be combined, thus offering an



abundance of attractive design options with a visual effect that is both striking and immediate. It all comes down to the highly effective interaction of design and technology: clear evidence of the unparalleled ability of the Variflex system to enhance today's interiors.

Note: track and panels are segmented



## Leading the field in sound insulation



As well as having the function of visually subdividing areas, movable partition walls also have the role in many applications of filtering acoustic signals in order to prevent noise disturbing the users of the other rooms. Room partitioning with reliable acoustic insulation properties is a must, particularly when events run concurrently.

The outstanding craftsmanship of the Variflex system ensures unsurpassed sound insulation without compromising ease of use.

The sound insulation values of Variflex are constantly being tested and confirmed by internationally recognised testing authorities; both a challenge and an incentive to achieve even better results through new developments. As



freely oscillating elements, the clip-on fascia boards block the transmission of structure-borne noise, thus ensuring extremely high sound insulation values. The fascias can be replaced at any time should this be required due to damage or to match new décor. Special acoustic panels manufactured with slits or holes encourage sound absorption and reduce reverberation. These advantages, coupled with



the high quality standards and the optical effect of Variflex, greatly enhance user comfort and offer incomparable benefits for areas used for musical events and larger conferences.

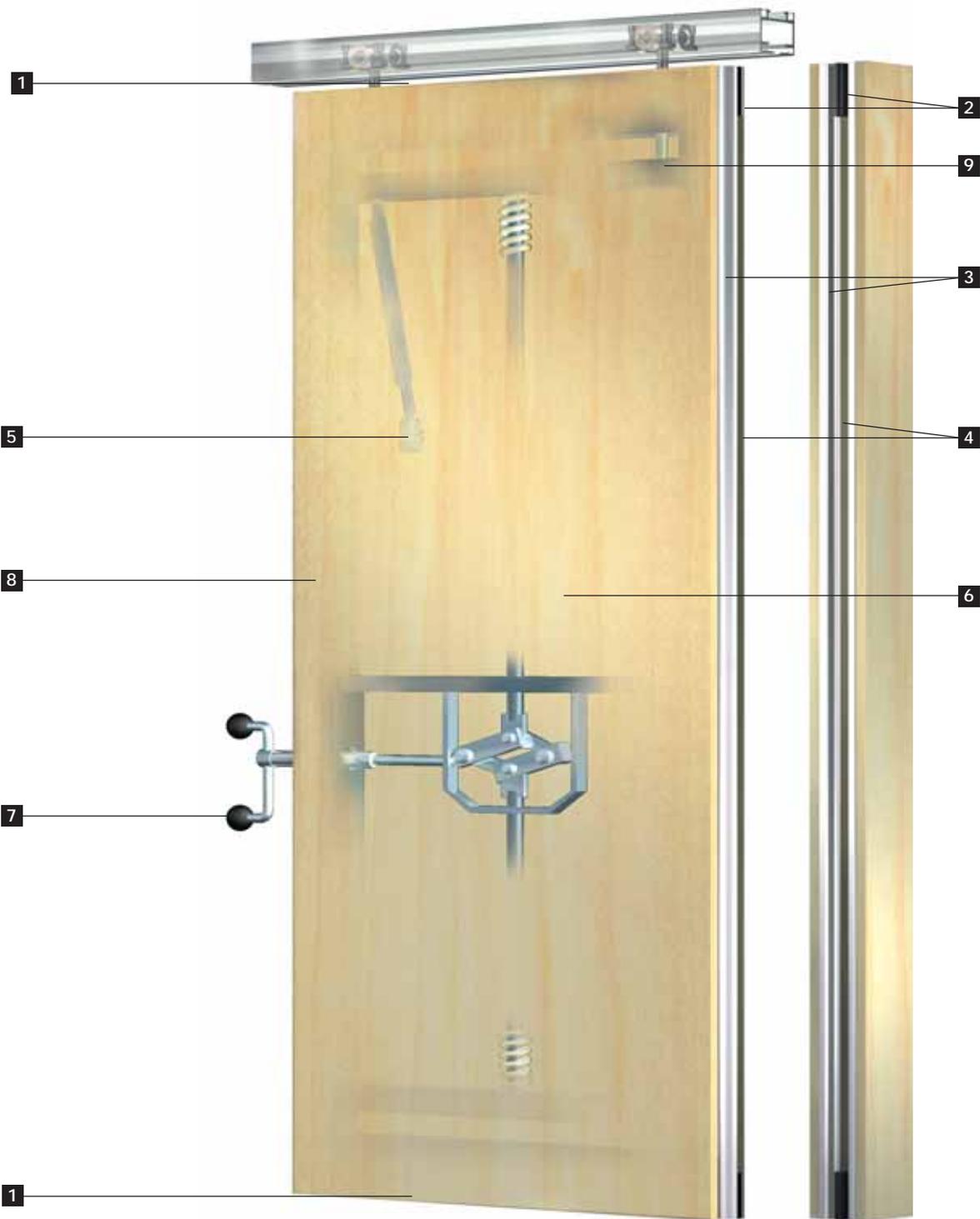
In order to ensure maximum levels of sound insulation in respect of a project, we recommend contacting DORMA during the planning phase so

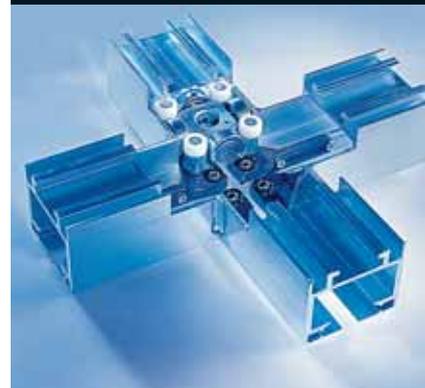
that any acoustic issues such as noise paths or the use of a step noise reducing joint in the flooring can be discussed.

**Acoustic Options;**  
STC/Rw 41, 45, 47, 49, 51

*Please see page 17 For more technical information and panel weights.*

# Product Design Highlights





The type R rail system combined with cross-roll carriers is particularly suitable for right-angled branches and intersections. The track rollers mounted in ballbearings exhibit extremely quiet operation and are also maintenance-free. The system is ideal for a very wide range of different layouts and high element weights. Support rollers in the branch junctions and intersections prevent the elements from dropping as they pass through for increased user convenience and easier handling.

### 1 Horizontal seals

The principle of double-skin construction is applied consistently in the seal area in order to ensure maximum sound insulation. A spindle mechanism presses extendable, spring-loaded, double seals against the floor and the ceiling track. Any irregularities in the flooring are offset by spring-loaded double-chamber seals. The contact force of the sealing strips does not place excessive strain on screed floors, but does ensure that the Variflex system is sufficiently stable to prevent the panels moving, even in the event of an attempted forced entry.

### 2 Corner seals

Variflex resolves the technical issue of corner seals with specially designed, corner pieces that also reinforce the stability and sound insulation properties of the system.

### 3 Vertical seals

All Variflex models have flexible, vertical sealing strips to ensure the best possible seal for maximum sound insulation. The strips extend some distance into the panels to ensure positive interlock.

### 4 Magnetic strip

The individual panels are centred via the magnetic strips to guarantee sound positive locking and sealing..

### 5 Fascia boards

The acoustic fascia boards are clipped on as freely oscillating panels to ensure optimum sound insulation with minimum system weight. The fascias can be replaced without removing the panels. Their surfaces can be coated or covered with any conventional interior design material.

### 6 Sound insulation material

The various Variflex models can be fitted with additional insulation materials according to sound insulation requirements.

### 7 Operating handle

Element sealing strips are operated using a crank. The crank has a captive bayonet fitting to prevent it from being pulled off. The bayonet arrangement is easy to disengage and prevents crank slippage.

### 8 Frames

The frame is made from torsionally stiff aluminium hollow-chamber profiles and sectional steel tubing. Transverse forces will not, therefore, cause deformation of the frame. Combined with the panel mounted in acoustically free suspension, Variflex elements are able to offer both exceptional strength and outstanding sound insulation.

### 9 Roller assemblies

The dampening track roller assemblies prevent the transmission of impact forces and operating noise, so protecting the element, rail and carrier.

#### Concealed Profile

Available on 100K/140K



#### Exposed protective profile

Available on 100U





## A multitude of element types for every need

As a component offering ideal structural solutions in the creation of attractive living areas, mobile partitioning is having to satisfy increasing demands from an ever-widening range of applications.

However, the various element types available within the Variflex system from DORMA can be used in applications of almost any kind and in the most widely diverse settings. Variflex systems can match unique design features, satisfy special design specifications and incorporate door elements or a variety of window elements.

The partitioning can be angled or segmented and accommodate special features such as sloping ceilings. Whatever the issue, Variflex can provide the best solution.



Full wall element



Double pass door



Pass door within element



Telescopic Element  
with overlapping thrust unit



Angled element



90°-corner element



Pass door full height, fixed



Vision element



Pass door with vision panel

## Variable track systems for modern architectural planning

In their parked position, the individual Variflex elements together form a compact stack. So they only take up a minimal amount of space in

any room (for examples, see diagram). Manually and automatically operated systems have different requirements, which is why

we recommend prior consultation at the planning stage. Whatever the final decision, Variflex offers wide flexibility.



Parking layout A



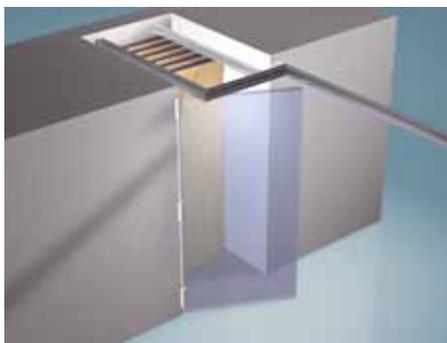
Parking layout D



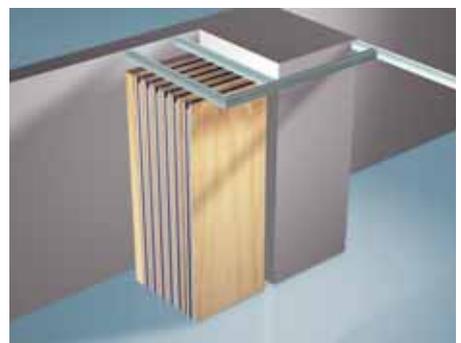
Parking layout B



Parking layout E



Parking layout C



Parking layout F

## An unlimited choice of surface finishes



### DORMA's Environment Mission Statement

To develop and operate an environmentally responsible company that supports sustainable business practices and always delivers on our commitment to provide quality, reliable and innovative door technology products, systems and service.

This is fulfilled by:

- Instilling environmentally responsible values and awareness in all employees
- Designing, manufacturing, marketing and servicing products using the most efficient and practical materials, systems and processes available to us
- Applying reduce / reuse / recycle principles in every facet of our business
- Ensuring continuous improvement in environmental performance through research, product development and monitoring and review of agreed measures and targets.

One of the factors which characterises modern interior design is intelligent space partitioning to create an architectural "choreography" of light and shadow. The partition walls are a significant part of the



whole and, with striking surface contrasts, can play a role in an effective overall presentation.

Variflex further enhances the aesthetic appearance with superior-quality surface finishes. A wide array of materials can be marshalled to create quite stunning visual effects. Materials to choose from include timber veneers that can be ebonised, waxed, brushed or lime-washed. There are laminates and metallic finishes, granite fabric coverings and stainless steel inserts; acoustic, sheet steel and fibreglass surfaces; glass inserts, mirrors and textile coverings. And many more options besides. Whatever the requirement, we have the surface finish to match. Variflex offers the best solution every time.



# Specification

## 1. Manufacturer & Product

- A. Manufacturer : DORMA Movable Walls Pty. Ltd.
- B. Product: Variflex®

## 2. Operation

- A. Series of individual flat panels, manually operated, top supported with retractable top and bottom seals, travelling along a ceiling track and assembled to form a solid wall. The entire system must function as a solid wall and even when closed should reveal minimal screws, fixings or other similar metal parts.
- B. Model (select one – refer to selection guide on opposite page):
  - 100     140
- C. Final closure method shall be horizontally expanding panel edge (Telescopic Panel).

## 3. Construction

- A. Nominal 100/140mm thick panels (max 1200mm width). The panel frame shall consist of torsion-free steel horizontal RHS, and torsionally stiff adjustable aluminium vertical members. The horizontal panel edge shall not have an aluminium trim.
- B. Vertical panel trim (Select one):
  - (K) The panel shall not to have an exposed aluminium trim.
  - (U) The panel shall have a protective wrap-around trim no greater than 6mm (Not available on Model 140).
- C. Each panel shall lined with Medium Density Fibreboard hung in acoustic free suspension from the panel frame. The panel skin shall be installed on site and able to be replaced without totally disassembling the panel frame. The panel shall be constructed to achieve (select one):
  - 40 Rw    45 Rw    47 Rw    49 Rw   (Model 100; 16mm MDF per side)
  - 51 Rw   (Model 140; 18+16mm MDF per side)

## 4. Acoustic Sealing

- A. Vertical sound seals: The panels shall be interconnected by means of a concave/convex aluminium profile. The profile shall have an integrated magnetic strip having a linear attraction of 40 N/m. Each vertical profile shall incorporate a vinyl acoustic seal.
- B. Horizontal Seals: Each panel shall have spring-loaded seals that are pressed against the surfaces of the floor and of the ceiling head track by means of a spindle mechanism. Polyurethane corner pieces provide an overlapping acoustic seal of horizontal sealing strips. The total force provided of each seal is 150kp (please contact us for automation of these seals).
- C. The seal spindle mechanism must be assessable while the panel is hanging for servicing and adjustment if necessary. Total disassembly of the panel frame to access internal components is not acceptable.

## 5. Suspension & tracking system

- A. Tracking configuration shall be (select one) :
  - 1-Point Suspension suitable for centre tracking (Model 100 only).
  - 2-Point Suspension suitable multi-directional tracking (Models 100 or 140).
- B. Track system (select one – refer to selection guide on opposite page):
  - Type R – Aluminium track, capable of centre stacking (1-point suspension) and multidirectional right angle tracking (2-point suspension). The carrier shall consist of a four-sided die cast aluminium body. Multi-direction ball bearing wheels shall be steel-rimmed mounted to each of the four sides and shall be capable of navigating track intersections. The trolley shall incorporate four nylon horizontal navigation wheels, mounted to the top of the trolley body, to provide additional guidance for smooth operation.
  - Type L – Aluminium track, capable of centre stacking (1-point suspension). The carrier shall consist of a high grade die cast aluminium body with four ball-bearing steel-rimmed wheels.
  - Type 14 Heavy Duty Smart-Track® – Roll-formed steel track (7-gauge) capable of radius tracking using pre-programmed switches and trolleys without electrical, pneumatic, or mechanical activation. Static loading of track with brackets at 1220mm centres shall show no failure of track or brackets at 2550kg point loading at mid-span.

## 6. Finish

- A. All exposed aluminium components shall be (select one) :
  - Natural anodised (Standard).
  - Powdercoated from the Dulux Powdercoat range (Please nominate colour).
- B. All suspension track systems shall be Powdercoated Dulux 'Satin White'.
- C. Operable Wall Panel faces to be finished with ... (Please nominate finish).

## 7. Installation & Warranty

- A. Installation to be performed by DORMA, or their authorised installation agent.
- B. Variflex Operable Walls are guaranteed against faulty workmanship and materials (excludes Finishes) for a period of 12 Months. This term can be extended upon entering a service and maintenance agreement. Complete warranty terms and conditions are available from DORMA

**Simple Specification :**    Variflex [Model] - [Vertical Trim], [Rw], [Tracking], [Finish]

*Example :*    "Variflex 100-K, 47Rw, 2-Point Suspension, Fabric Finish"

## The best basic models for perfect partitioning solutions

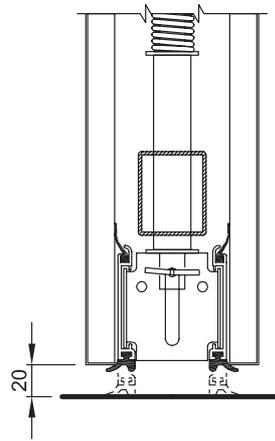
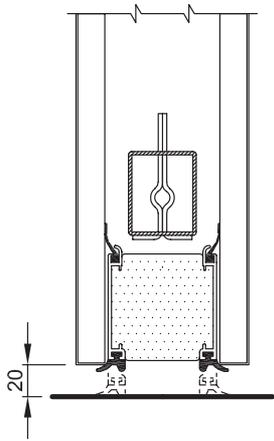
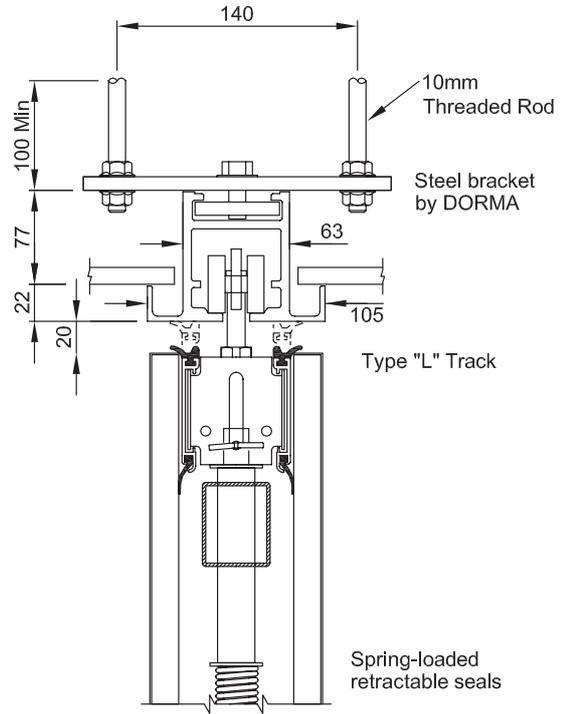
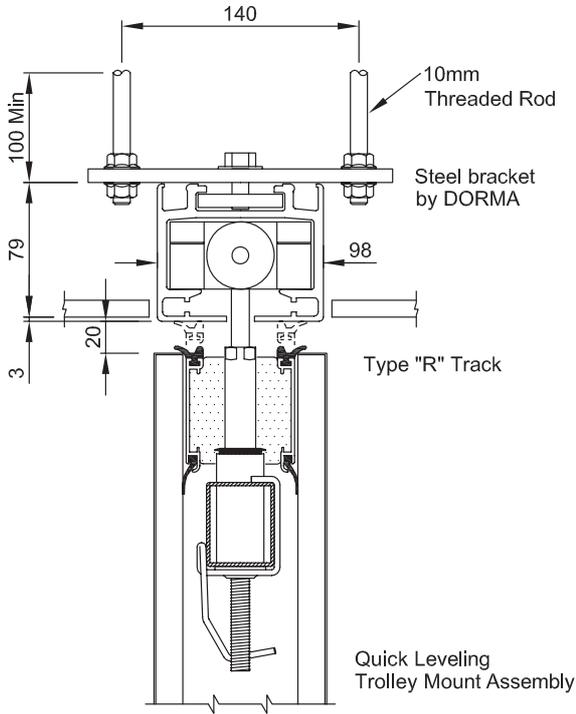
Variflex can offer the most appropriate partition wall for any individual application. There are two basic models available, each with a wide range of different options. The Variflex models can be

selected according to sound insulation requirements and visual design needs, thus providing an optimal partitioning solution.

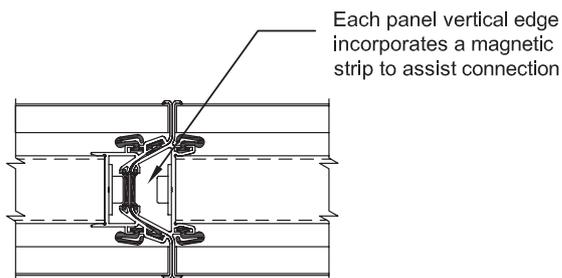
Dimensions		
	100	140
Panel thickness	100mm + finishes	140mm + finishes
Clear height	2,000mm to 14,500mm	
Max Panel width	1,200 mm	
Construction		
Frame type	Aluminium-steel	
Panel face attachment	Hung in acoustic free suspension (face panel replacement possible)	
Vertical profile design	Aluminium profile with integrated magnetic strip and external sealing lips	
Vertical profile	"K" - Concealed vertical frame	
	"U" - Protective frame	"K" - Concealed vertical frame
Technology		
Tracking options	Single-point centre tracking, or Double point, multi-directional tracking	Double point multi-directional tracking
Contact pressure of horizontal sealing mechanism of each element	Up to 800 N	
Positive locking and sealing of the vertical element connections	Concave/Convex profile, magnetic strip force of attraction 40N/running meter	
Acoustic Option / Weights <i>*These weights do not include additional finish options</i>	40Rw / 38Kg/m <sup>2</sup>	-
	45Rw / 43Kg/m <sup>2</sup>	-
	47Rw / 47Kg/m <sup>2</sup>	-
	49Rw / 52Kg/m <sup>2</sup>	-
	-	51Rw / 75Kg/m <sup>2</sup>
Equipment		
Operating mode	Panels moved manually and horizontal sealing activated manually	
Panel types	Full wall panel, telescopic panel, 90 Degree corner panel, Inset Pass door panel, Full height jamb fixed pass door panel.	
Telescopic panel design	Surface operated mechanism with overlapping thrust unit.	

# Panel construction

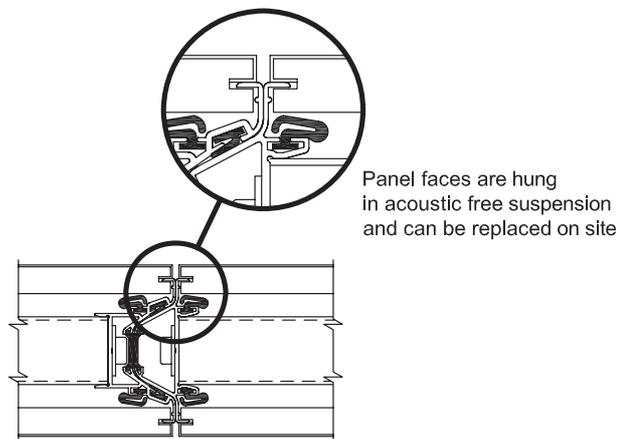
\* Contact DORMA for other suspension options & full shop drawings.



# Standard panel joint



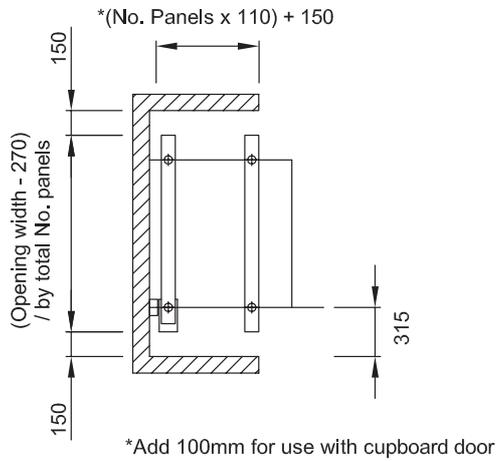
Type "U" Protective Vertical Frame



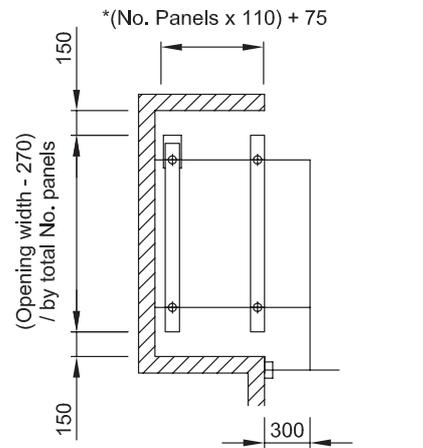
Type "K" Concealed Vertical Frame

# Common stacking configurations

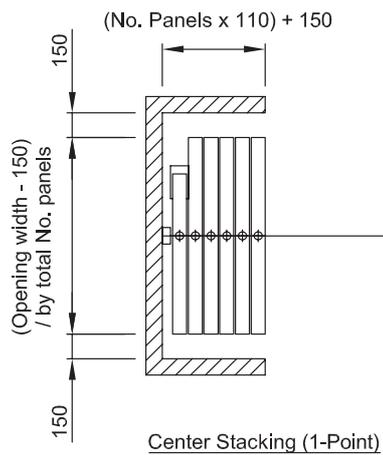
\* Contact DORMA for details of other stacking configurations



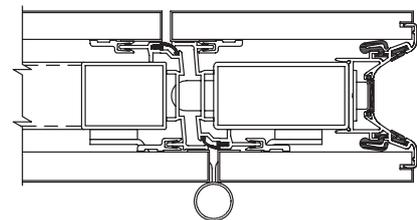
Side Stacking (2-Point)



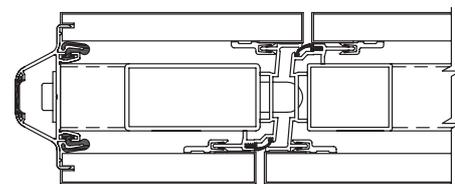
Remote Side Stacking (2-Point)



Center Stacking (1-Point)

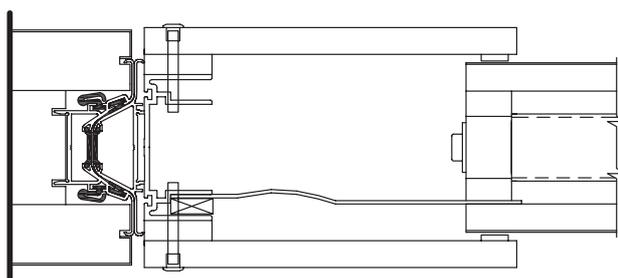


Pass Door Hinged Jamb

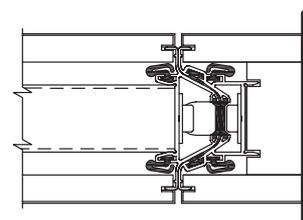


Pass Door Latch

## Panel details



Telescopic Closure w/ Jamb (75mm)



Standard Panel w/ Jamb (75mm)