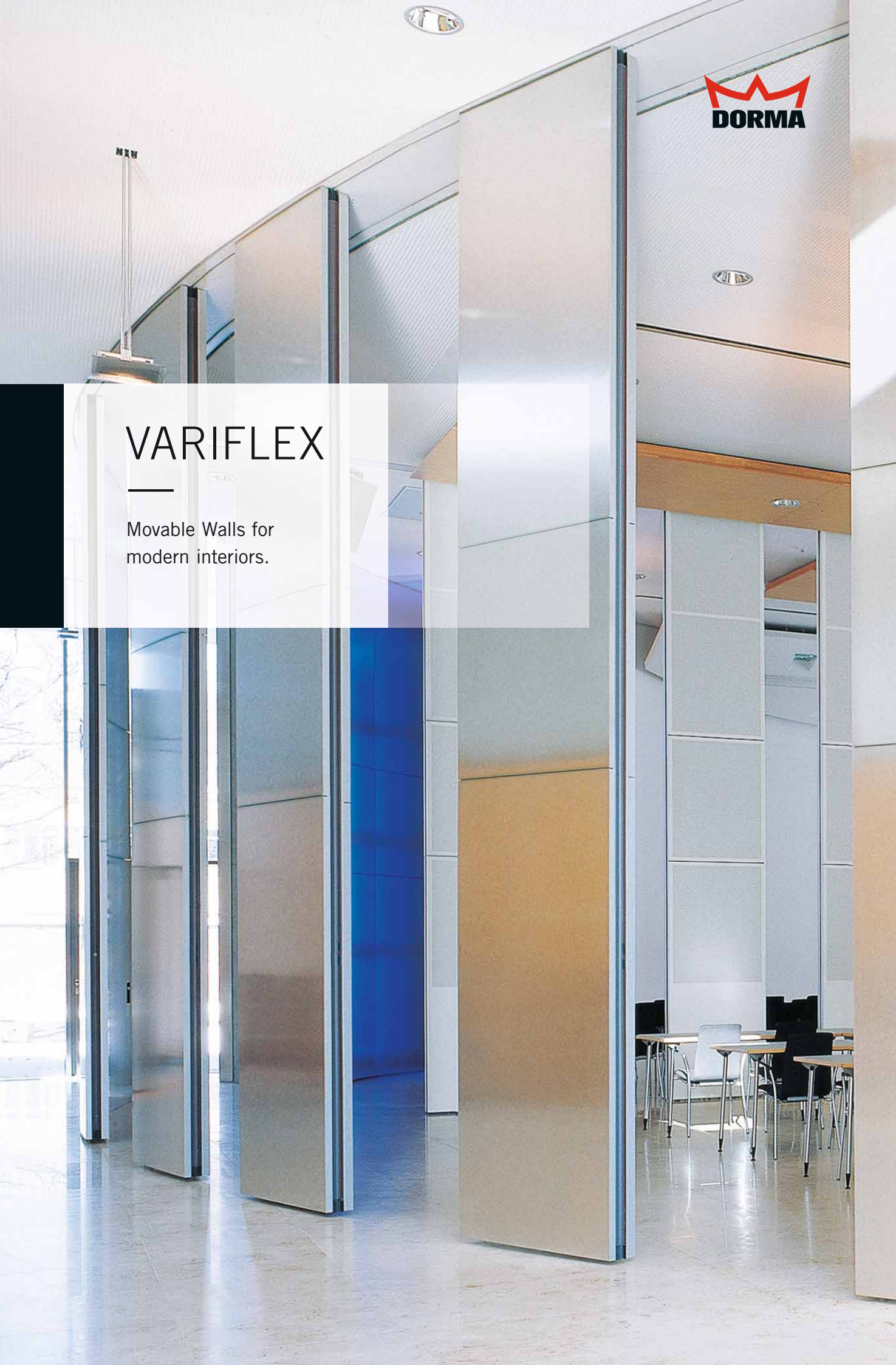


VARIFLEX

Movable Walls for
modern interiors.

CONTENTS

Concepts

Technology

SOPHISTICATED INTERIOR DESIGN REQUIREMENTS.

Modern living areas should provide those who use them with an enhanced quality of life. Movable partition walls from the DORMA Hüppe Variflex system offer the best possible solution there is.

Regardless of their characteristics and function, rooms can be effortlessly partitioned, made smaller, larger or reproportioned 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 Hüppe to provide the ideal solution every time, ensuring that the people using the rooms feel at home, whatever the setting.

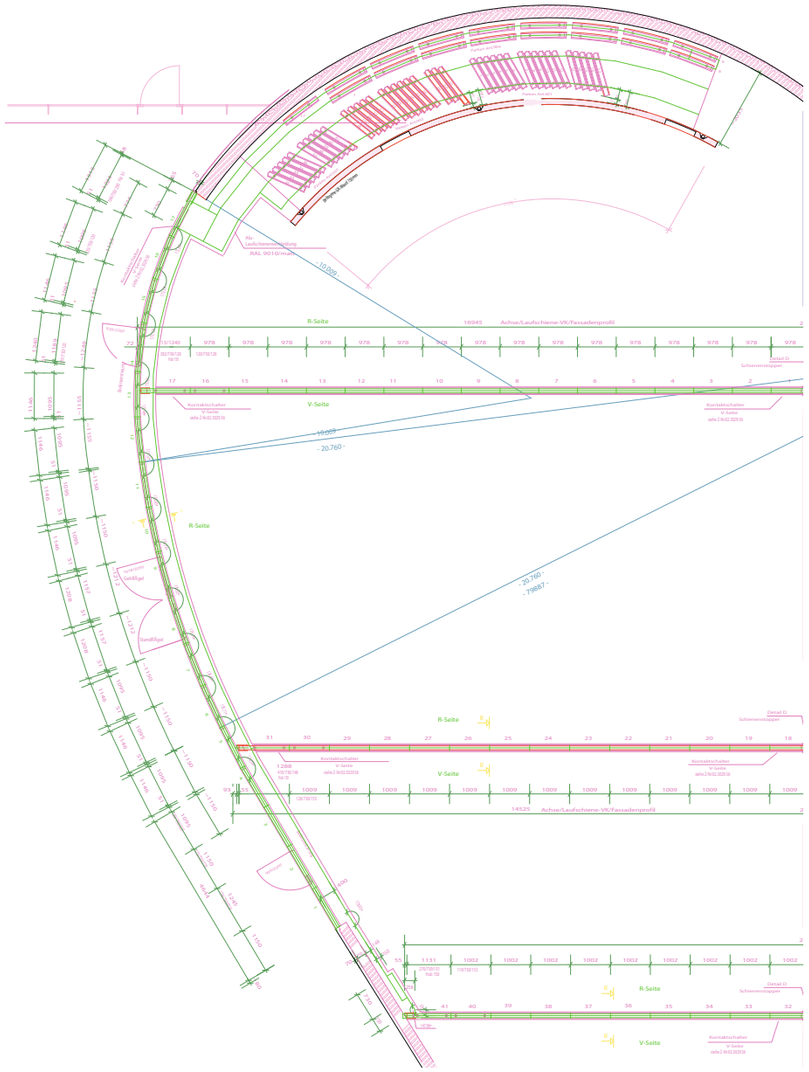
Object: DBB Deutscher Beamtenbund, Berlin, Germany
Architect: Karl-Heinz Schommer, Bonn, Germany

CUSTOMISED FLEXIBILITY FOR MULTI-FUNCTIONAL LAYOUTS.

From system configurations to practical considerations, with Variflex from DORMA Hüppe, the architectural design options are almost limitless. 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 DORMA Hüppe 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 angled walls.

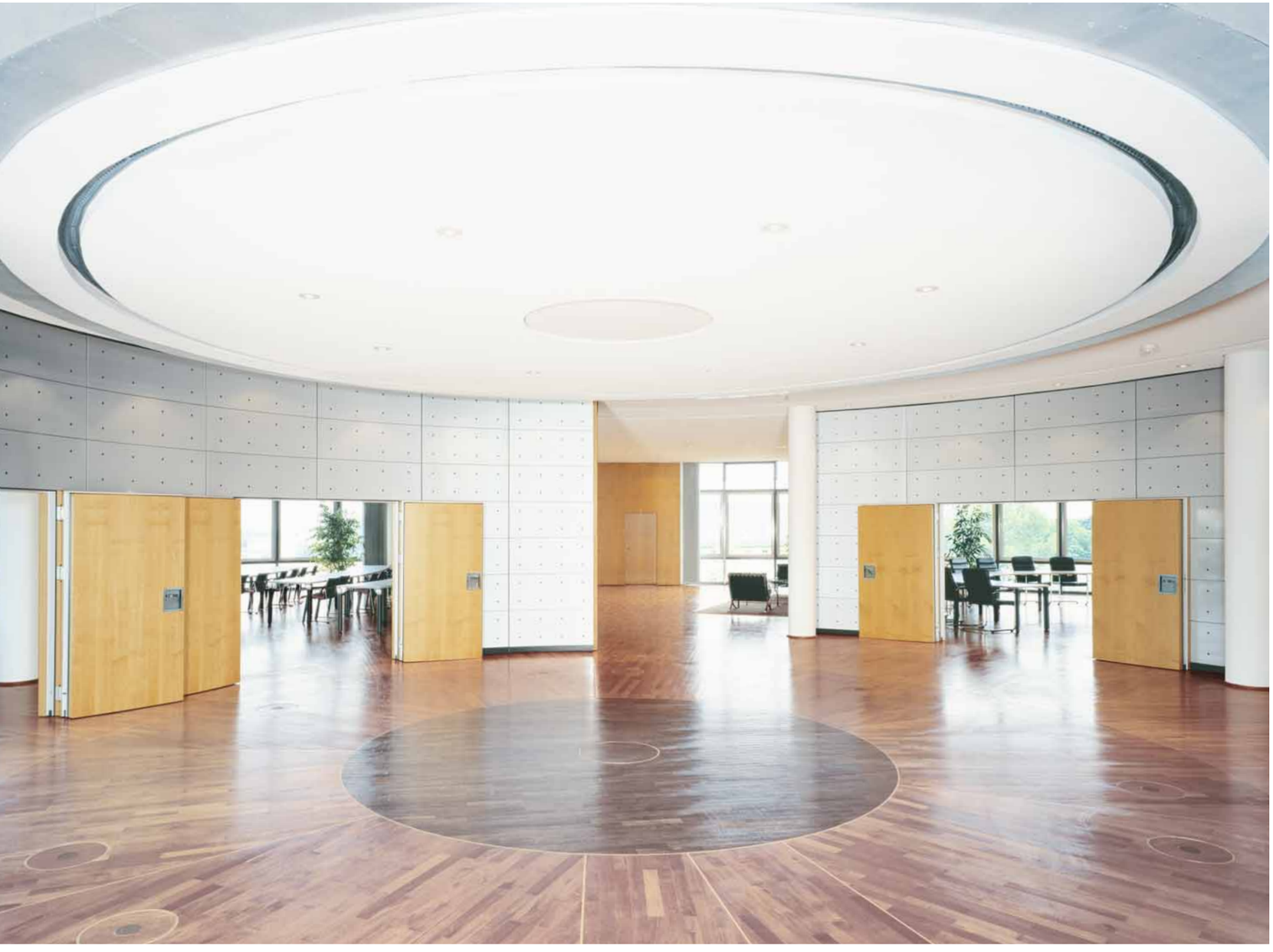
Object: WMF Communication Center, Geislingen an der Steige, Germany
Architects: HPP Laage + Partner, Stuttgart, Germany;
Planungsatelier Prof. R. Schricker, Stuttgart, Germany

Flexible space division by the Variflex system for different uses.



FUNCTIONAL AND AESTHETIC DESIGN.

Object: Landesversicherungsanstalt LVA Halle/Saale, Germany
Architect: Langner + Dubiel GmbH, Hanover, Germany



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, DORMA Hüppe 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 DORMA Hüppe Variflex has a role to play in all planning considerations. But that's not all. The standard of craftsmanship embodied in DORMA Hüppe 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. Wood and glass, wood and metal, for example, wood and stainless steel, and even different woods can all be combined, thus offering an abundance of attractive design options with a visual effect that is both striking and immediate.

Object: SIDE Hotel, Hamburg, Germany
Architect: Jan-Sörmer-Architekten, Hamburg, Germany
Interior Design: Matteo Thun, Mailand, Italia;
Robert Wilson, New York, USA

GREATER FLEXIBILITY AND CONVENIENCE – AUTOMATICALLY.

Variflex offers the option of semi-automatic operation to allow rooms to be adapted quickly and easily. This alternative is tried and tested solutions for every-day use: this is extremely economical to operate, thus reducing costs, and also enjoy proven functional reliability as an important complementary aid to today's modern conference technology.

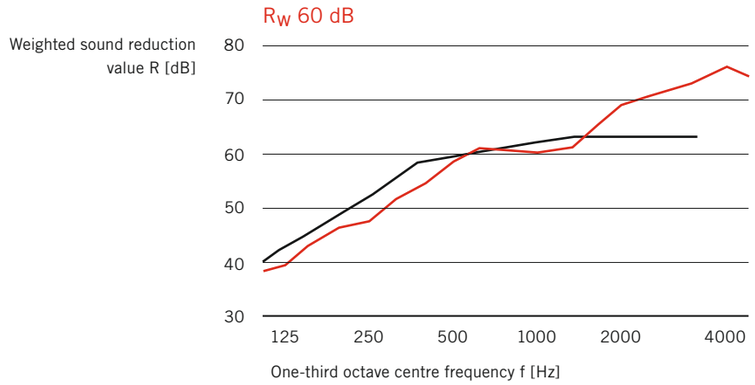
The system advantages of semi-automatic (HA) technology

- Electronically controlled sealing strip operation; the partitioning is moved manually; time and energy savings are made by eliminating crankwork
- the precise contact pressure of the sealing strips is assured at all times
- Generally enhanced user convenience and safety of operation
- Unlimited layout configurations; stacking and parking as for the manual system
- Floor-mounted guides and special track rails are not required
- Door and window elements can be fitted

Object: Exhibition Hanover, Germany

LEADING THE FIELD IN SOUND INSULATION.

Object: SIDE Hotel, Hamburg, Germany
Architect: Jan-Sörmer-Architekten, Hamburg, Germany
Interior Design: Matteo Thun, Milan, Italia;
Robert Wilson, New York, USA



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 DORMA Hüppe Variflex system ensures unsurpassed sound insulation without compromising ease of use.

The sound insulation values of DORMA Hüppe 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 DORMA Hüppe 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 Hüppe 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.

FIRE PREVENTION PRECAUTIONS OFFER TOTAL SECURITY

Catastrophic and devastating fires feature again and again on news bulletins from around the world. In many instances, the buildings concerned have lacked adequate fire prevention measures. Fire safety is of paramount importance for protecting human life: second-rate solutions are simply not an option. Fire prevention and protection must be guaranteed, above all in public areas that are in constant use. Safeguarding human life must be the top priority at all times.

DORMA Hüppe Variflex offers intelligent solutions that are specifically adapted to meet preventative fire safety requirements and afford better conditions for dealing effectively with hazardous situation.

Object: Chapel St. Agnes, Lucerne, Switzerland
Architect: Wigplan AG Architekturbüro, Lucerne, Switzerland

Object: Radisson Blu Hotel, Berlin, Germany
Architects: nps tchoban voss, Berlin, Germany

Object: Exhibition Vienna, Austria
Architect: Gustav Peichl, Vienna, Austria

INTELLIGENT TECHNOLOGY, SYSTEMATICALLY CONCEIVED.

It is its refined technology that makes the Variflex such a special sound-insulating partition. Its success resides in a multitude of smart details that have been cleverly combined to create an effective whole. Various element types cater for widely differing applications, and the track system is so adaptable that a Variflex partition can be designed into even a small space. Wherever installed, the DORMA Hüppe Variflex will always deliver the impressive acoustic performance inherent in the sophisticated makeup of its elements. Compelling technology of systematic splendor.

Object: Edge Hill University, Ormskirk Lancashire, Great Britain

A MULTITUDE OF ELEMENT TYPES FOR EVERY NEED.

Flexible design with element variety.

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 Hüppe 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 straight or angled, and can also accommodate special features such as sloping ceilings. Whatever the issue, DORMA Hüppe Variflex can provide the best solution.

Full wall element

Telescopic element (flush or with overlapping thrust unit)

Angeld element

90°-corner element

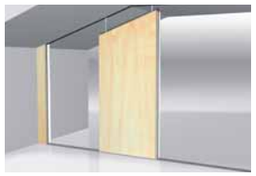
Double pass door

Pass door within element

Pass door full height, fixed

Vision element

Pass door with vision panel



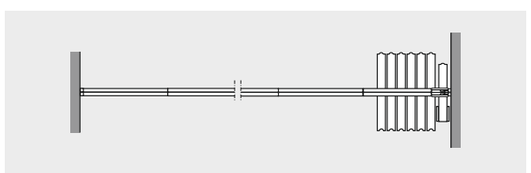
Special element for non-load bearing ceilings and structures

Object: European Court of Human Rights (ECtHR), Strasbourg, France
Architect: Richard Rogers, London, Great Britain

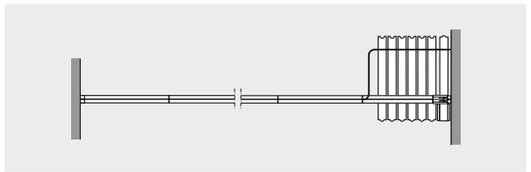
EASY PARKING.

In their stacked position, the elements form a compact package and can be accommodated in the smallest of spaces depending on the room situation. The low weight of the elements and the associated structural advantages are particularly noticeable here. Above you will find four standard parking arrangements; individual solutions for special requirements are also possible. The four standard stacking/parking track systems offer convenient operability with a minimum of noise from the individual elements as they slide into position.

Inboard parking solutions

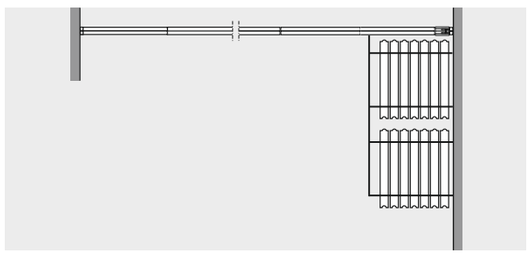


Parking solution PLA
– Single-point suspension
– 90° to partition axis

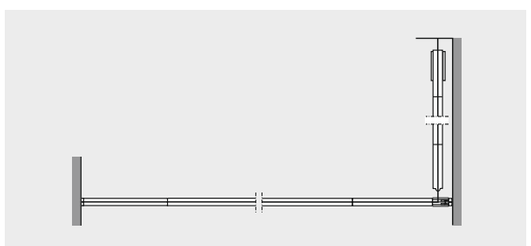


Parking solution PLB
– Two-point suspension
– 90° to partition axis

Outboard parking solutions



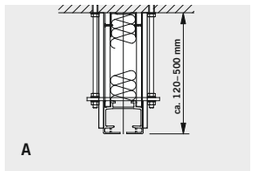
Parking solution PLC
– Two-point suspension
– 90° to partition axis
– In several stacks

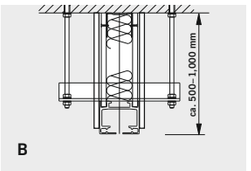


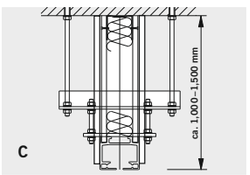
Parking solution PLD
– Two-point suspension
– 90° to partition axis
– Parked in a row arrangement

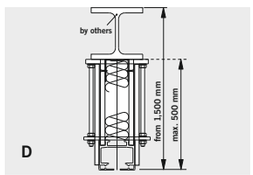
Suspension systems

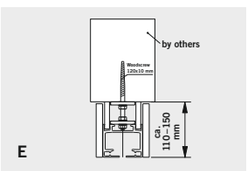
The DORMA Variflex system offers a range of suspension systems to suit each installation and application. Here are just some examples.



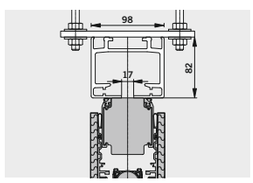




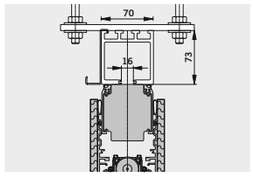




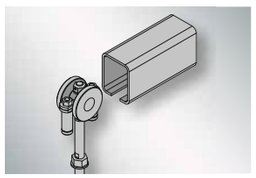
Track systems

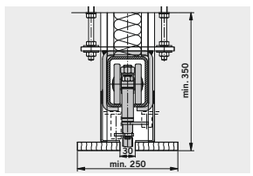


R-type track
Track system for right-angled configurations with cross-roller carriers for element weights up to 500 kg. Support rollers in the junctions guarantee easy operation when sliding the elements across intersections.



K-type track
Mechanically coded junction technology with curves and switches for easy operation; suitable for element weights up to 250 kg.





MR track
Steel track system for large element heights and high weights, with special mechanical coding in the carriers, plus curves and switches for maximum operating ease and effortless positioning of the elements.

THE SUM OF THE ADVANTAGES IN DETAIL.

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 Cover boards
The cover boards are clipped on as freely oscillating panels to ensure optimum sound insulation with minimum system weight. The cover board 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
In manual systems, the element sealing strips are operated using a crank. The crank has as 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.

TEF is synonymous with technical perfection that is unmatched by any other manufacturer. TEF describes the flush edge connection of the last wall panel that serves to form an area of visual harmony for an outstanding architectural solution.

THE OPTIMAL PARTITION FOR SPECIAL REQUIREMENTS.

Object: Exhibition Vienna, Austria
Architect: Gustav Peichl, Vienna, Austria

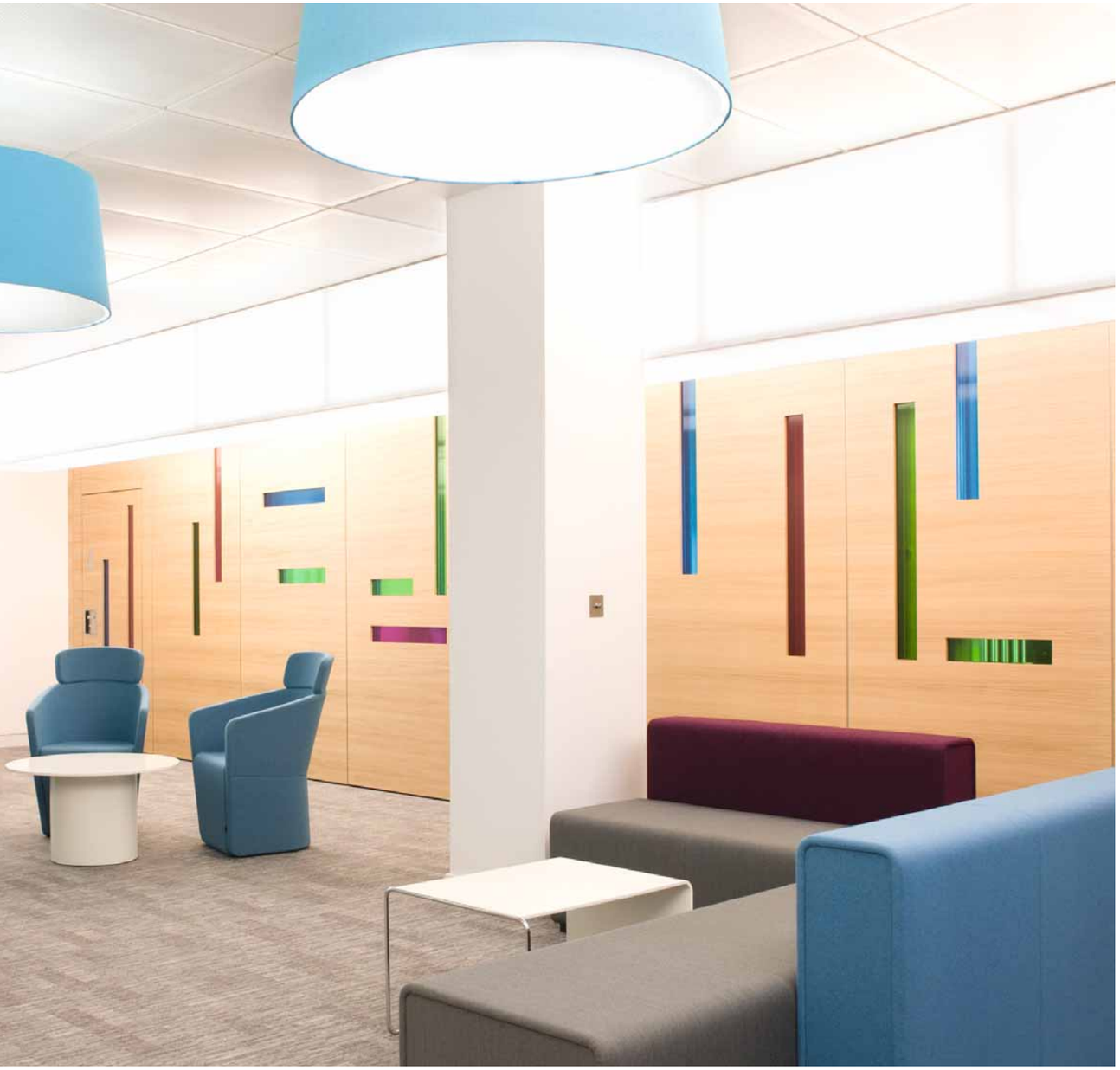
Dimensions*			
	Element thickness in mm	120	100
Manual (M)	Clear height* in mm (min./max.)	2,000/14,500	2,000/14,500
	Element width* in mm (min./max.)	600/1,250	600/1,250
Semi-automatic (HA)	Clear height* in mm (min./max.)	2,000/6,000	2,000/6,000
	Element width* in mm (min./max.)	750/1,250	750/1,250
Design			
	Framed construction	Aluminium-steel	Aluminium-steel
	Panel fixing	Freely oscillating	Freely oscillating
	Element interconnection/ design of the vertical profiles	Aluminium profile with integrated magnetic strip and sealing lips	Aluminium profile with integrated magnetic strip and sealing lips
Finish and trim			
	Panel design with *K-type edge*	With visible surface edging	With visible surface edging
	Panel design with *U-type edge*	With protective surrounding trim	With protective surrounding trim
	Panel design with *S-type edge*	–	With robust sheet steel skin up to R_W 58 dB
	Manual model (M)	Manual operation of the elements and actuation of the sealing strips	Manual operation of the elements and actuation of the sealing strips
	Semi-automatic model (HA)	Manual operation of the elements, electronically controlled extension and retraction of the sealing strips	Manual operation of the elements, electronically controlled extension and retraction of the sealing strips
	Fire protection package *EI 30*	–	Special frame construction in conjunction with tested cover board and sealing compound
	Horizontal panel joint from element height (mm)	4,100	4,100 (with steel sheet skin: from 3,200)
	Passdoors	Single-leaf following technical clearance from factory	Single-leaf or double-leaf
	Window element	–	Yes
	Telescopic element design	Sliding portion flush or external	Sliding portion flush or external
Technology			
	Weighted sound reduction value R_W determined per EN 20140 in R_W (dB)	58/60	38 to 57 (as S: 58)
	K-value per DIN with maximum sound insulation package (heat transfer coefficient)	0.380	0.664
	Positive and frictional locking of the vertical element connections	Convex-concave profile form 40 N/m	Convex-concave profile form 40 N/m
	Rail type	MR- and R-rail	MR-, R and K-rail

*Note regarding Variflex dimensions:
Larger widths possible on application. Provisional details regarding the element heights/element widths indicated can only be confirmed following consultation with the Design Department.

Subject to change without notice.

AN UNLIMITED CHOICE OF SURFACE FINISHES.

Object: McLay Marray & Spens, Glasgow, Scotland,
Architect: haa design, Glasgow, Scotland



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.

DORMA Hüppe 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 real wood 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. DORMA Hüppe Variflex offers the best solution every time.

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