

VARIFLEX

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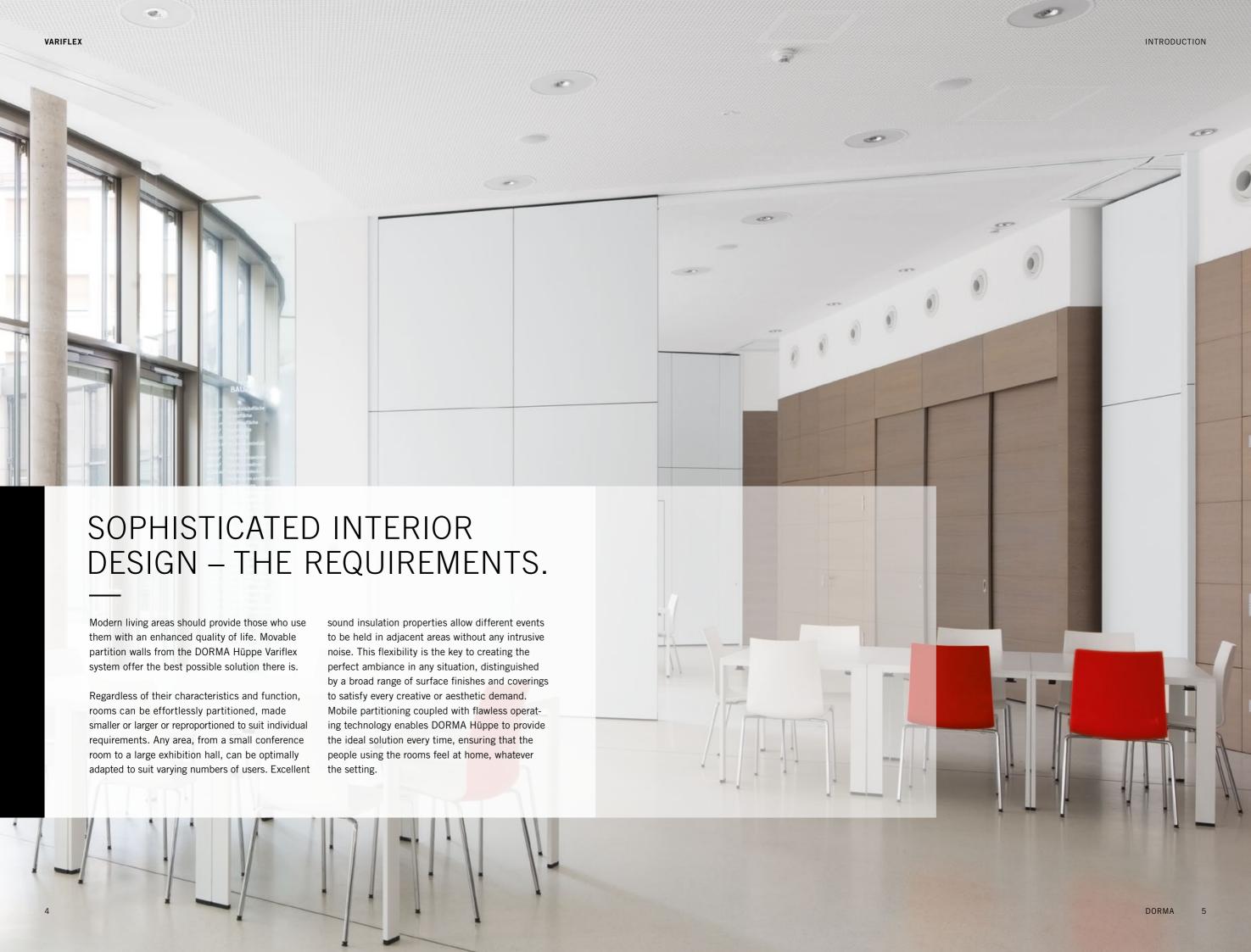
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CUSTOMISED FLEXIBILITY FOR MULTI-FUNCTIONAL LAYOUTS.

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



High flexibility - starting with planning

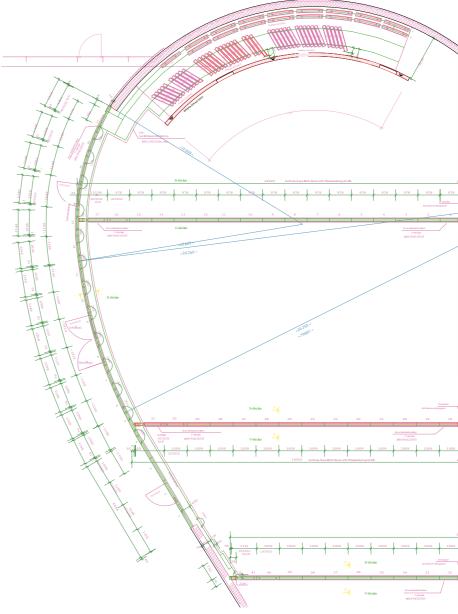
With Variflex from DORMA Hüppe, the architectural design options are almost limitless. Intelligent partition- Hüppe Variflex as the pering creates areas perfectly tailored to the given demands system can adapt even and functional requirements. those areas with the most This guarantees greater flex- unusual dimensions to suit ibility in daily use.

The more complex the demands ...

... imposed on an operable partitioning system, the louder the call for DORMA fect answer. The Variflex individual requirements.

The diversity and flexibility of the system guarantees an ideal solution every time, even for rooms with high or sloping ceilings or angled walls.

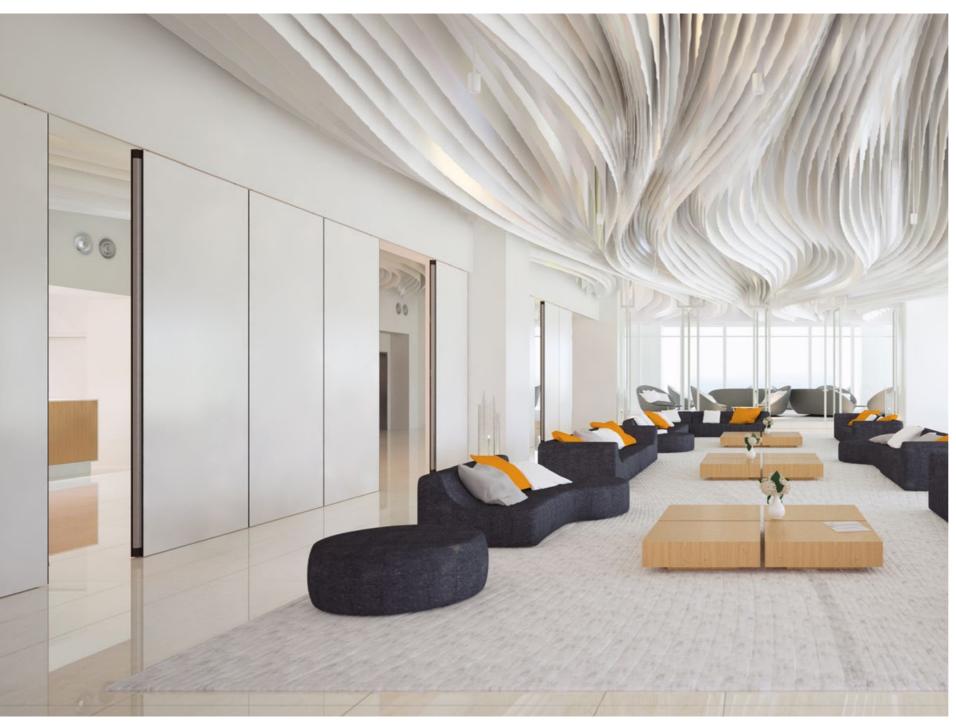
Flexible space division with the Variflex operable partitioning system to cater for varying needs.



VARIFLEX

DESIGN AND AESTHETICS

FUNCTIONAL AND AESTHETIC DESIGN.



The character of a room is defined by its appearance

With an almost infinite choice of designs and colours to meet even the most sophisticated design and layout specifications, DORMA Hüppe Variflex comprehensively translates creative ideas into reality.

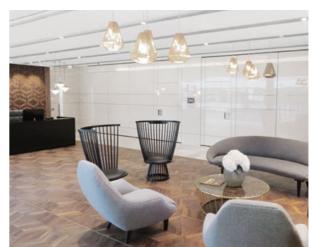
The Variflex system is able to satisfy the most intricate aesthetic needs with a multitude of design options. The high-quality materials and their visual effects are unsurpassed. When it comes to the design-oriented configuration of today's living areas, DORMA Hüppe Variflex can always be relied upon to play its part in the overall plan.

A wide choice of high-quality materials

A broad array of finishes – from hardwood veneers through fabric coverings to laminated surfaces –

guarantees the desired visual appearance for many years to come.

The use of exquisite materials alone or in combination can be particularly appealing.



VARIFLEX
FLEXIBILITY AND CONVENIENCE

OPERATION: MANUAL OR SEMI-AUTOMATIC.

PREMIUM, FULLY AUTOMATIC OPERATION.

Standard operating system: Manual

The manual system offers a high level of operating ease with simple, safe transfer of the elements by hand into the required position.

The top and bottom sealing strips are actuated manually with ease using a crank.
The spindle mechanism then extends the spring-loaded, flexible double-chamber seals against the floor and the ceiling track.

ComforTronic for greater convenience

Operation with semi-automatic ComforTronic technology requires even less effort, with added safety a further benefit.

 Extension and retraction of the sealing strips is automatic, eliminating both the time and effort of manual crank operation

- Precision-controlled contact pressure of the sealing strips is assured at all times
- Floor-mounted guides and special track rails are not required
- Door and window elements can be fitted

Project: Hannover Exhibition Centre, Germany



ComfortDrive offers all the advantages of state-of-the-art bus technology. This premium, fully automatic control unit moves the elements and engages them in the required position at the touch of a button. In addition to the standard functions, customised positioning and personnel access settings can also be programmed into the system.



ComfortDrive – the fully automatic partition operating system with state-of-the-art bus technology.

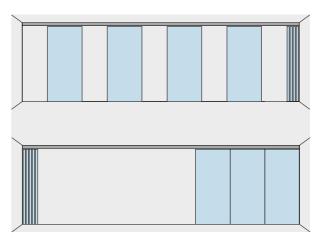
ComfortDrive – the premium option

- Elements moved completely automatically at the touch of a button; easy operation thanks to the self-explanatory touchscreen
- Greater convenience thanks to fast partition travel at speeds of up to 250 mm/s
- Intelligent bus technology: can be individually programmed to specific customer requirements
- Reliable safety with automatic stop on contact with an obstruction;
 TÜV/GS tested
- Slender track sections
- Slimline floor tracks plus solutions without floor-mounted guides (please enquire)



Videos and downloads: dorma-hueppe-inspiration com

Individually programmable



Just two of many options that customers can programme individually for flexible management of their interior space: the top diagram shows a freely selected position, while a partial-open position (with one or multiple elements) is shown in the bottom figure.

High travel speed



Fast opening, fast closing: ComfortDrive quickly moves the DORMA Hüppe Variflex elements into the required position, monitored by our Smart Control system.

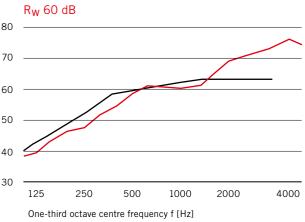
VARIFLEX SOUND INSULATION

LEADING THE FIELD IN SOUND INSULATION.

Project: SIDE Hotel, Hamburg, Germany Architect: Jan-Sörmer-Architekten, Hamburg, Germany Interior design: Matteo Thun, Milan, Italy; Robert Wilson, New York, USA



Weighted sound reduction value R_W [dB]



An excellent solution for adjacent events

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. As freely oscillating elements, the clip-on fascia boards block the transmission of structureborne noise, thus ensuring extremely high acoustic performance.

For the well-being of room users

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.



DORMAcoustic: The innovative room acoustics collection comprises affordable surface finishes for a wide range of applications.

VARIFLEX
FIRE PREVENTION AND VARIFLEX 88

SO FIRE DOESN'T HAVE A CHANCE: VARIFLEX EI 30.

LIGHTWEIGHT AND SOUND-INSULATING: VARIFLEX 88.

Developed for fire prevention

Safeguarding human life must be the top priority at all times. Fire prevention and protection must be guaranteed, above all in public areas. Developed specifically for fire prevention, the Variflex EI 30 movable wall system from DORMA Hüppe is classi-

fied in accordance with the new EN 13501-2 standard. What's special about this system is that it can also be fitted with a passdoor tested to EN 1634-1. Its construction furthermore permits a sound insulation value of up to $R_{\rm W}$ 57 dB.





In order to ascertain the fire resistance class, a wall comprising Variflex EI 30 panels with an integrated passdoor was directly subjected to fire for longer than half an hour in a test lab.

Sensational design achieves 58 dB in sound reduction

The DORMA Hüppe development team took on the significant challenge of achieving better sound insulation with a thinner partition wall – and solved the problem to impressive effect with the Variflex 88. The newly developed design exhibits an exceptionally

high degree of imperviousness, complemented by optimized profiles and sealing strips to produce outstanding sound reduction values of up to R_W 58 dB. With a wall thickness is just 88 mm, the weight per unit area is also significantly reduced, bringing both structural and handling benefits.

The advantages at a glance

- Improved sound insulation with a reduced wall thickness
- Space savings in the parking area
- Low specific weights with obvious structural advantages
- Easy handling
- Tested by Fraunhofer IBP (Institute for Structural Physics)



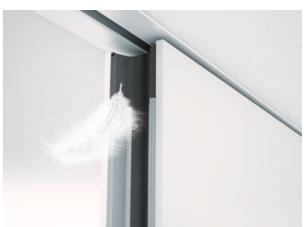
Videos and downloads: dorma-hueppeinspiration.com

Space savings in the parking area



More room with 12 percent less wall thickness. You save space – and space is expensive. With Variflex 88, parking areas, stacking tracks and niches can be made smaller to improve overall spatial efficiency.

Significantly reduced specific weight



Variflex 88 reduces the load: Right at the planning stage, the reduced weight means less stringent structural requirements. And the handling of the elements in day-to-day operations also requires less effort.



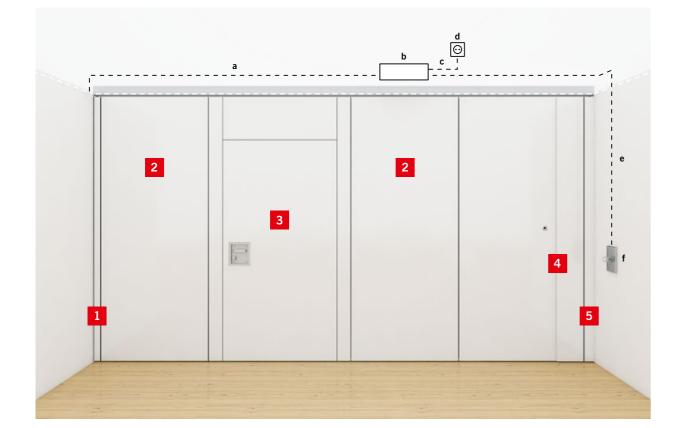
Project: Radisson Blu Hotel, Berlin, Germany Architect: nps tchoban voss, Berlin, German



VARIFLEX TECHNOLOGY ELEMENT TYPES

MANY DIFFERENT ELEMENTS FOR A FLEXIBLE LAYOUT





- a Approx. 40 V, Ölflex cable ex works, 4×1.5 mm², length 6 m, to concave wall abutment
- **b** Control unit (254 \times 180 \times 90 mm)
- c Cable ex works, 3×0.75 mm², length 2 m, to electric socket
- **d** Electric socket by others, 100-120 V or 200-240 V, 50-60 Hz, at least 10 A
- e Cable by others, 3×0.6 mm², flexible, max. length 20 m, to switch
- f Switch

A multitude of element types for every need

The various element types available within the Variflex system 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 options. The partitioning can be straight or angled, and can also accommodate special

features such as sloping ceilings. Whatever the problem, DORMA Hüppe Variflex offers the best solution.











Full wall element

Telescopic element (flush* or with overlapping thrust unit)

Angled element**

90° corner element









Double passdoor**

Passdoor within element

Passdoor full height, fixed**

Vision element*



Passdoor with vision panel*





Special element for non-loadbearing or sloping ceilings*

- * Not for Variflex 88
- ** In preparation for Variflex 88

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 extends the spring-loaded, flexible double-chamber 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.

2 Corner seals

Variflex resolves the technical issue of corner seals with specially designed, elastic 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 panels

The cover panels are clipped on as freely oscillating bodies to ensure optimum sound insulation with minimum system weight. The panels can be replaced without removing the elements. 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 the specified acoustic requirements.

7 Operating handle

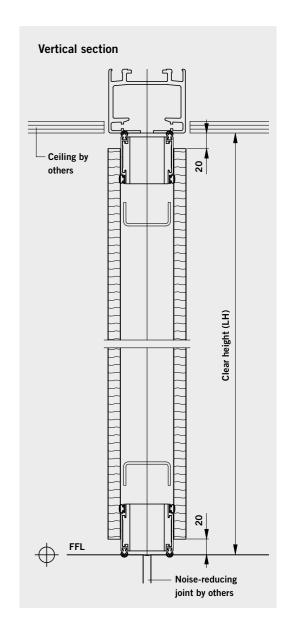
In manual systems, the element sealing strips are operated using a crank. The crank has a captive bayonet fitting to prevent it from being pulled off. The bayonet arrangement is easy to disengage and prevents crank slippage.

8 Frame

The frame is of torsionally stiff steel and aluminium construction. Transverse forces will not, therefore, cause deformation of the frame. This, combined with the panels mounted in acoustically free suspension, means 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 element, track and carrier.



EASY PARKING.

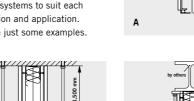
In their stacked position, the elements form a compact package and can be accommodated in the smallest of spaces, depending on the room situation. The low weight of the elements and the associated

structural advantages are particularly noticeable here. Below you will find four standard parking arrangements by way of example; individual solutions for special requirements are also possible.

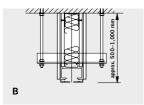
The four standard stacking/parking track systems offer convenient operability with a minimum of noise from the individual elements as they slide into position.

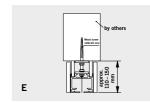
Suspension systems

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









Inboard parking solutions

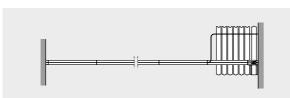




Parking solution PLA

- Single-point suspension
- 90° to partition axis



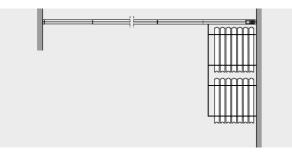


Parking solution PLB

- Two-point suspension
- 90° to partition axis

Outboard parking solutions





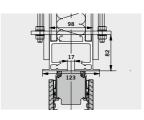
Parking solution PLC

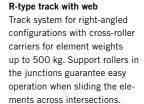
- Two-point suspension
- 90° to partition axis
- In several stacks

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

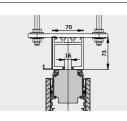
Track systems

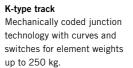




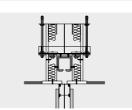










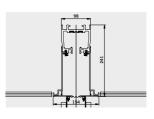


Steel track system for large element

heights and weights, with special mechanical coding in the carriers, plus curves and switches for maximum operating ease and effortless positioning of the elements.

Track system with fully automatic drive





i-Track

Fully automatic track operator system for element weights of up to 500 kg. Fast opening and closing speeds for enhanced convenience. Easy pushbutton operation. Narrow profiles and slender track sections for aesthetic elegance. Suitable for use without floor-mounted guides if required.





VARIFLEX

TECHNOLOGY FACTS AND FIGURES

THE OPTIMAL PARTITION FOR SPECIAL REQUIREMENTS.

Project: Vienna Exhibition Centre, Austria Architect: Gustav Peichl, Vienna, Austria



Dimensions in m	m*				
	Element thickness	120	100	88	
Manual (M)	Clear height* (min./max.)	2,000/14,500	2,000/14,500	2,000/4,100	
	Element width* (min./max.)	600/1,250	600/1,250	600/1,250	
Semi-automatic (ComforTronic)	Clear height* (min./max.)	2,000/6,000	2,000/6,000	2,000/4,100	
	Element width* (min./max.)	750/1,250	750/1,250	600/1,250	
Fully automatic (ComfortDrive)	Clear height* (min./max.)		2,000/10,000**	2,000/4,100***	
	Element width* (min./max.)		750/1,250	600/1,250***	
Design					
Framed construction		Aluminium-steel	Aluminium-steel	Aluminium-steel	
Panel fixing		Freely oscillating	Freely oscillating	Freely oscillating	
Element interconnection/design of the vertical profiles		Aluminium profile with magnetic strip and sealing lips	Aluminium profile with magnetic strip and sealing lips	Aluminium profile with magnetic strip and sealing lips	
Finish and trim					
Panel design with <i>K-type edge</i> with visible surface edging		•	•		
Panel design with <i>U-type edge</i> with protective surrounding trim		•	•	•	
Panel design with <i>S-type edge</i> with robust sheet steel skin		-	•	-	
Manual model (M)		Manual operation of the elements and actuation of the sealing strips			
Semi-automatic model (ComforTronic)		Manual operation of the elements, electronically controlled extension and retraction of the sealing strips			
Fully automatic model (ComfortDrive)		Fully automatic moving of the elements, electronically controlled extension and retraction of the sealing strips***			
Fire protection package El 30		-	Special frame construc- tion in conjunction with tested cover board and sealing compound		
Passdoors		Single-leaf following technical clearance from factory	Single-leaf or double-leaf	Single-leaf or double-leaf***	
Technology					
Weighted sound reduction value determined per EN 20140 in R _W (dB)		58/60	38 to 57 (as <i>S-edge:</i> 58)	kg/m ² 23 24 32 41 dB 41 46 53 56	
Positive and frictional locking of the vertical element connections		Convex-concave profile form, force of attraction of the magnetic strip 40 N/m			

^{*} 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

^{**} Depending on the sound insulation/weight

^{***} In preparation, starts Dec 2016

VARIFLEX SERVICE

PROFESSIONAL SINGLE-SOURCE SERVICE.



Excellent advice - from initial idea to aftercare

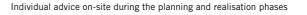
Whether you are building from scratch, rebuilding or modernising, by choosing a partitioning system from DORMA Hüppe you will benefit from outstanding product quality and the expert advice of our team.

We will oversee your projects, providing individual advice and the latest architectural tools for integrated planning and installation as well as a proficient aftersales service to ensure that your partition system functions dependably for many years to come.

Download additional brochures and specification texts here:









For the evaluation of Green Building projects today are Building Projects in accordbased on virtual planning ance with DGNB [German and proving first, followed Sustainable Building Counby the real construction cil] or LEED for example, a work. By generating digital, life cycle assessment (LCA) object-oriented 3D models, for the building materials is BIM increases efficiency in required detailing the entire the planning, construction product life cycle. This is and management of buildprovided in the form of an ings. So as to optimise your planning processes, all DORMA Hüppe operable cordance with ISO 14025 partitioning systems are and EN 15804, available available as up-to-date BIM models.





Personal, proficient, reliable: DORMA Hüppe Service

Enhancing the reliability of your partition wall

Regular servicing ensures that the high quality of DORMA Hüppe partitioning systems is maintained well into the future. Our Service Department will provide whatever assistance you require - personally, proficiently and reliably.

A servicing agreement offers many benefits:

- Increases the lifetime of your system
- Minimises downtime
- Extends the warranty
- Ensures adherence to legal standards (operator liability)
- Ensures the use of genuine spare parts
- Ensures preferential treatment in the event of malfunctions



for all partitions.

Environmental Product

Declaration (EPD) in ac-

EPD Certificate for all

DORMA Hüppe systems

GREEN BUILDING MODELLING



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