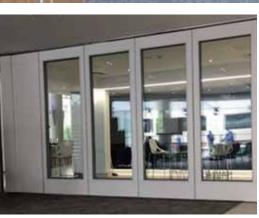


Engineering quiet since 1973

















Variflex® mobile acoustic partitioning (pages 3 to 14)





Varikust® acoustic doors
Glass, utility, elephant and acoustic FIRE doors
(pages 15 to 22)





Absorption panels
Slotted wood veneer absorption panels
Fabricmate absorption panels
(pages 23 to 26)





GF Serene acoustic glass partitions (pages 27 to 28)





Sunflex frameless glass enclosures (pages 29 to 30)





Solux® technical sun control (pages 31 to 32)





Solamark® sun control awnings (pages 33 to 34)





Showerflex® shower enclosures (pages 35 to 36)





Varifold® non-acoustic wooden folding doors (pages 37 to 38)





Glass bricks (pages 39 to 40)





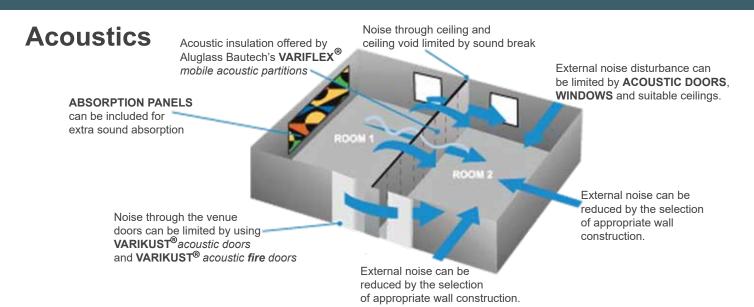
VARIFLEX®

mobile acoustic partitions

ENGINEERING QUIET



Overview



Acoustic rating selection table

	Room 1 Activity	louder							
Room 2		Meeting 50dB (BN) 75dB (Peak)	Discussion 50dB (BN) 80dB (Peak)	Conference 50dB (BN) 85dB (Peak)	Audiovisual (AV) presentation 50dB (BN) 90dB (Peak)	Studio Recording 35dB (BN) 85dB (Peak)			
louder	Meeting 40dB		45dB	49dB	≥ 49dB	52dB			
	Discussion	45dB	45dB	49dB	≥ 49dB	52dB			
	Conference	49dB	49dB	49dB	≥ 49dB	n/a			
	AV presentation	≥ 49dB	≥ 49dB	≥ 49dB	45dB	55dB			
	Studio recording	52dB	52dB	n/a	55dB	55dB			

Which Variflex® system to use?

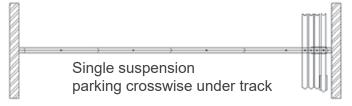
System	Acoustic rating	Max height (mm)
	40dB	4800
VX83	45dB	4800
	49dB	4200
	47dB	7000
VX110	50dB	7000
	52dB	6000
10/404	52dB	12000
VX164	55dB	10000

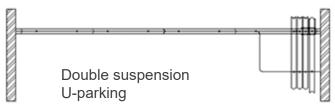
The updated acoustic sound level testing method is an in-situ measurement of the Standardised Level Difference according to ISO 162283-1 2014, analysed according to weighted Standardised Level Difference, DnTw, according to ISO 717-1.

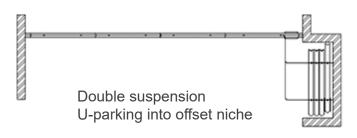
	dB	what can be heard through the partition?
	30	normal speech can be perceived easily
1	34	loud speech can be perceived easily
$\parallel \parallel$	40	loud speech can be perceived but not understood
	45	loud speech can be perceived only as a murmur
	49	must strain to perceive loud speech
//	52	only some loud speech can be barely perceived
	55	loud speech cannot be perceived

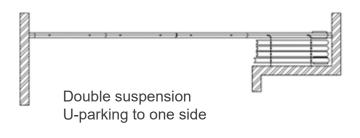


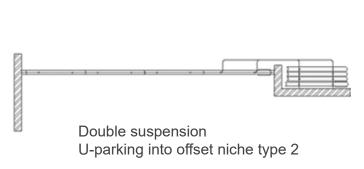


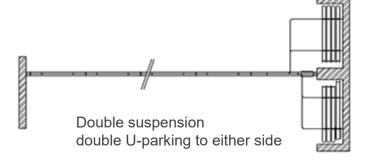












Element details

The inside of an element

1.Horizontal seal

To achieve optimum sound attenuation, a double—shell construction is used. Working on the jack principle, telescopic, flexible, spring—loaded double seals press against the ceiling track and floor; the spring sections taking up any normal ceiling deflection. Each panel exerts a load of 80–150kp (kilo pond) on the floor screed, which is not sufficient to overload the floor (particulary when the panels are parked) but is sufficient to give the Varflex system enough stability to avoid its displacement, even when subjected to pressure.

2. Corner block

Special corner sections act as corner seals and serve to increase the stability of the wall.

Vertical

A 4-way PVC lipped profile based on a tongue and groove principle ensures good sealing against sound penetration.

4. Magnetic strip

A 4-pole magnetic edge strip bonds adjacent elements with a force of 7kp (kilo pond) per linear meter. The modules are aligned by the magnetic strips.



To achieve optimum sound attenuation, 16mm thick chipboard facing panels with a variety of limp mass laminates attached to the inside face of the panels, to suit the acoustic requirements, are suspended on each of the frames. These are acoustically decoupled to allow the panels to vibrate independently. Panels can be covered in a wide variety of wall finishes from natural timber veneers, wall papers, laminate surfaces etc., and individual facing panels can be interchanged. Decorative and fire retardant or non-combustible panels to various standards are available upon request, subject to confirmation.

6. Operating handle

Operating the Variflex system is carried out using a special crank handle.

7. Releasing of the Elements

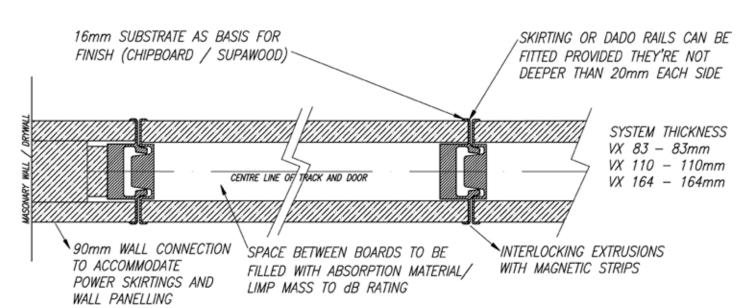
The magnetic force which bonds adjacent panels together can be broken by a gentle pulling motion.

8. Frames

The element framework is made up of aluminium hollow sections and steel tube profiles. The rigid,non-deflecting framework, together with the 16mm chipboard facing panels, gives a module of high strength, exceptional sound attenuation and trouble free operation.

9. No floor guides are required.

Wall and element connection





Sound test example conducted on an in-situ product after installation

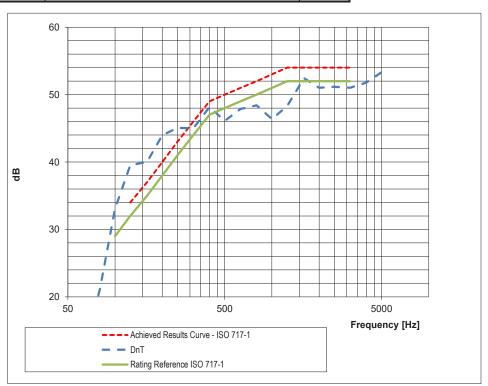
STANDARDISED LEVEL DIFFERENCE ACCORDING TO ISO 162283-1 2014 FIELD MEASUREMENTS OF AIRBORNE SOUND INSULATION BETWEEN ROOMS

TEST DATE			31-08-15	
PRODUCT		,	VX110 - 48dB	
ALUGLASS ACC	DUSTIC RATI	NG -	48dB	
PRODUCT DES	CRIPTION	,	VX110 System with White Board	
			Finish and Limp Mass Treatment	
			Wall A	
TEST DESCRIP	TION AND CO	OMMENT	Some Noise Transmission evident through	
			automated sliding doors - particularly	
			when one is open - this reduced the	
			acoustic separation between the spaces	
			by between 8 and 10dB.	
		1	Within the supplied system the Telescopic	
			remains the greatest contributor to sound	
		f	transmission between the spaces.	
PARTITION / DO	OR AREA		29	m^2
RECEIVING RO	OM VOLUME		290	m ³
SOURCE ROOM	1 VOLUME		348	m ³
TEST EQUIPME	NT USED			
Source			enerator / Aluglass Omni-directional Speaker	
Measurement			mnidirectional Test Microphone (Class 2)	
		on Iphone 5S	calibrated with Quest Calibrator (Class 1)	



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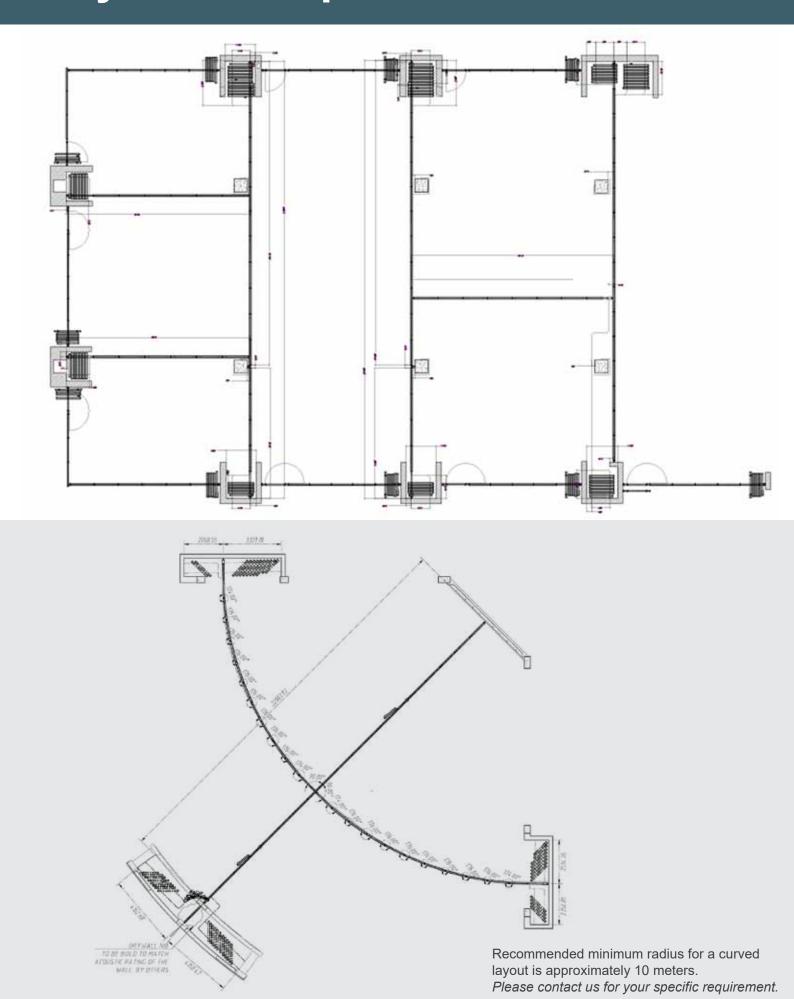
Frequency	DnT
Hz	
	dB
50	19.8
63	12.2
80	21.1
100	33.0
125	39.5
160	40.0
200	44.0
250	45.1
315	45.0
400	48.2
500	46.1
630	47.9
800	48.4
1000	46.4
1250	48.3
1600	52.5
2000	51.0
2500	51.2
3150	51.0
4000	51.8
5000	53.3

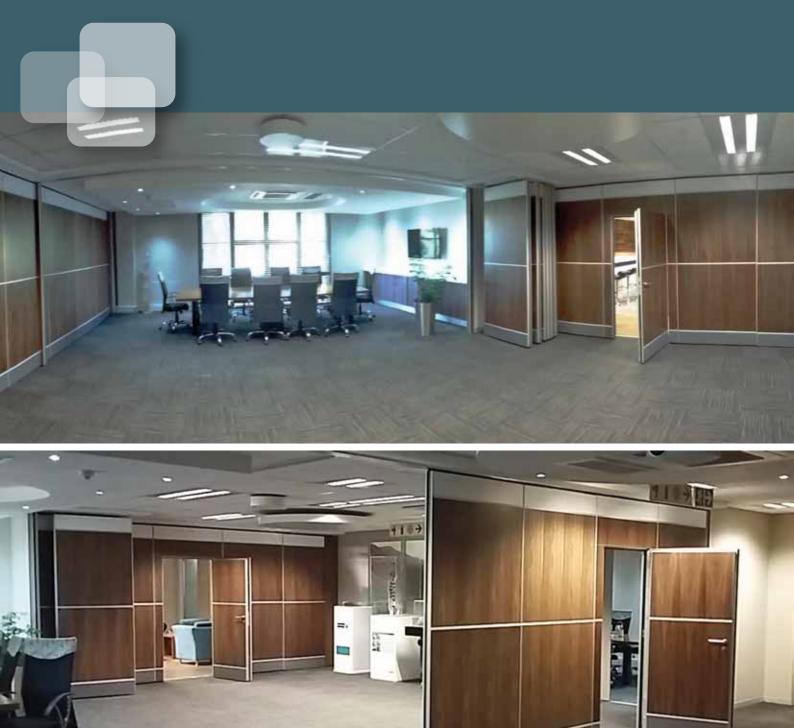


RATING ACCORDING TO ISO 717-1						
DnT, _w (C; Ctr) =			49	(0;-3) dB		
DnT,w(C; Ctr; C ₅₀₋₅₀₀₀ ; Ctr ₅₀₋₅₀₀₀)=			49	(0;-3 -4;-15) dB		
STC RATING ACCORDING TO ASTM -	STC RATING ACCORDING TO ASTM - E413			dB		

Acoustic test by: Niels Eichhorn Pr.Eng. Analysis by: Niels Eichhorn Pr.Eng.

Layout examples







Finishes

- Fabric any upholstery weight with a min. width of 1400mm
- Wallpaper with a min. width of 1400mm wide
- Laminate surfaces
- Velcromat
- Glass
- MDF sealed or painted
- Marine ply external applications
- Natural wood veneers include:

Beech, Cherry, Etimoe, Kiaat, Mahogany, Maple, Oak, Rosewood, Walnut, Wenge (stains, waxes and oils can also be applied)

- Integrated magnetic white boards or pin boards
- Integrated absorption panels to assist with sound absorption

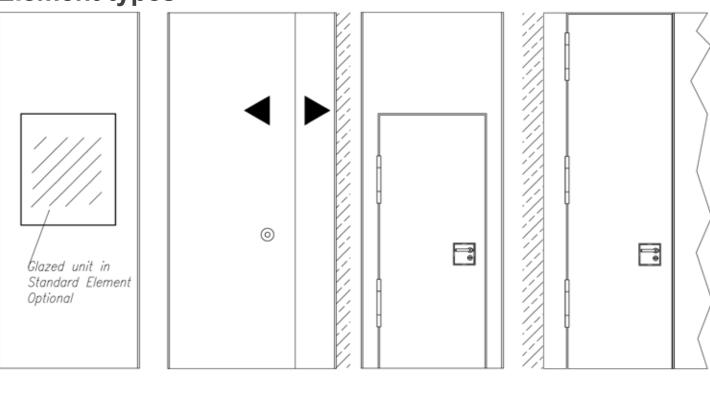
Special requirements can be accommodated. Please contact us for your design needs.





Variflex[®] configuration comprising of standard elements and DT-pass doors within elements finished with Velcromat.

Element types











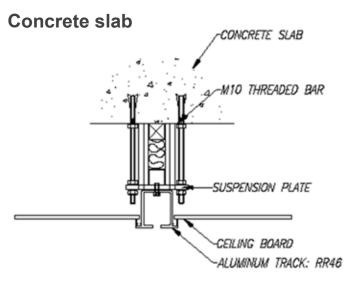
Standard Element

Telescopic Element

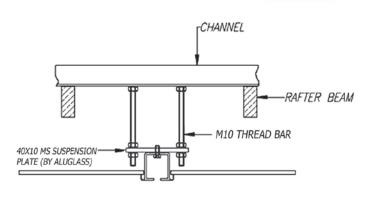
DT-Pass door within Element

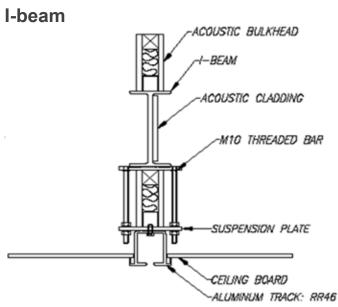
Fixed door

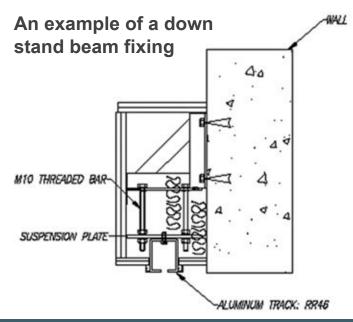
Suspension details



Roof trusses











A Variflex® system installed at an Educational Institution, with options to have either 1 or 2 lecture rooms.



Up to 12 meters high, the Variflex® system is suitable for all Convention Centres providing optimal flexibility.

VARIFLEX®

mobile acoustic partitions

DESIGN FACILITIES | TECHNICAL EXPERTISE | CUSTOM MADE | PROFESSIONAL INSTALLATIONS

MAJOR PROJECTS COMPLETED

- INTERNATIONAL CONVENTION CENTRE DURBAN PHASE 1, 2 & 3
- SANDTON CONVENTION CENTRE
- CAPE TOWN CONVENTION CENTRE
- GABORONE CONVENTION CENTRE
- EAST LONDON CONVENTION CENTRE
- MICROSOFT OFFICES

- MARRIOTT HOTEL GHANA
- SASOL
- ESKOM
- IDC AUDITORIUM
- RAND MERCHANT BANK
- SKYRINK JOHANNESBURG
- AND MANY MORE ...

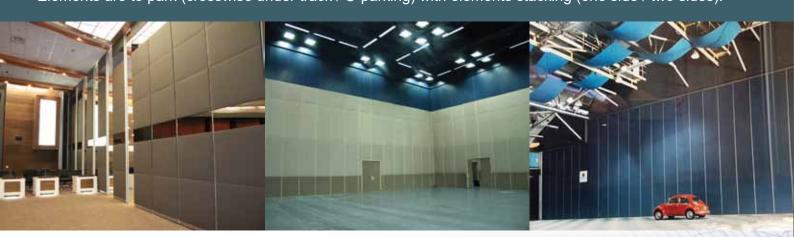
FLEXIBLE & CREATIVE MULTIFUNCTION SPACE SOLUTIONS FOR

- CONFERENCE FACILITIES
- AUDITORIA
- TRAINING ROOMS
- EDUCATION FACILITIES SCHOOLS, UNIVERSITIES, COLLEGES
- BOARDROOMS

- OFFICES
- HOSPITALS
- LABORATORIES
- PLACES OF WORSHIP
- COMMUNITY FACILITIES

SPECIFICATION TEXT

Aluglass Bautech Variflex® _____(VX83 / VX110 / VX164) mobile acoustic (operable wall) partition, _____mm width x _____mm high to suit steel support up to underside of structural support (not by Aluglass Bautech) opening size _____mm width x ____mm high, comprising of tongued and grooved acoustically decoupled _____dB (see 'Which Variflex system to use?' table) panels with ______(veneer, fabric, chipcore, marine ply, supawood, wallpaper or carpet) finish, with mechanically retractable top and bottom seals and vertical seals formed of aluminium extrusions with lip seals and magnetic strips, panels suspended at (one roller trolley / two roller trolley) per panel on track with ball bearing and/or thrust rollers with track bolted to suspension plates in turn bolted to (concrete/timber / steel) support structure and _____mm high bulkhead fitted to and above track in ceiling void. Elements are to park (crosswise under track / U-parking) with elements stacking (one side / two sides).



SPECIFICATION TEXTS AVAILABLE ON AUTOSPEC AND OUR WEBSITE

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VARIKUST®

range of acoustic doors and acoustic fire doors















Varikust® product matrix

The updated acoustic sound level testing method is an in-situ measurement of the Standardised Level

Difference according to ISO 162283-1 2014, analysed according to weighted. Standardised Level

Difference, DnTw, according to ISO 717-1.

G = glass E = elephant (huge) T = thutlwa (tall) F = fire	DnTw = 35dB to 55dB		e door n mm)	double door (size in mm)		
System	Acoustic rating	Max width	Max height	Max width	Max height	
VK59F	38dB	900	2400			
VK62 *	35dB / 43dB	950	2750	1800	2750	
VK62G	35dB / 43dB	950	2750	1600	2750	
VK62F	43dB	900	2400			
VK105	45dB / 50dB / 52dB	1200	3000	2700	3000	
VK105F	50dB / 52dB	1200	3000	1800	3000	
VK105T	50dB / 52dB	1200	4000	2700	4000	
VK105E	40dB / 45dB / 50dB			4800	5000	

^{*} In order to offer the best possible price, the VK62 is now available in 3 x standard sizes- please see below SUPPLY ONLY - installation guide and drawings to be supplied

Standard finish - white melawood or painted melawood (additional cost will apply)

Standara finish	- write melawood or pain
VK62 - Standard Single Door size	VK62 - Standard Double Door size
(wxh) (mm)	(w x h) (mm)
900 x 2100	1600 x 2100
900 x 2400	1600 x 2400
900 v 2700	1600 v 2700

NB! All other sizes for a VK62 would be quoted as 'custom' and a surcharge will apply!

SPECIFICATION TEXTS AVAILABLE ON AUTOSPEC AND OUR WEBSITE



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VARIKUST® VK47

THE MOST COST EFFECTIVE ACOUSTIC DOOR with a retractable threshold seal & engineered timber frame



Technical summary

47mm thick acoustic single door set - frame, door leaf, threshold and ironmongery included

Maximum door size:

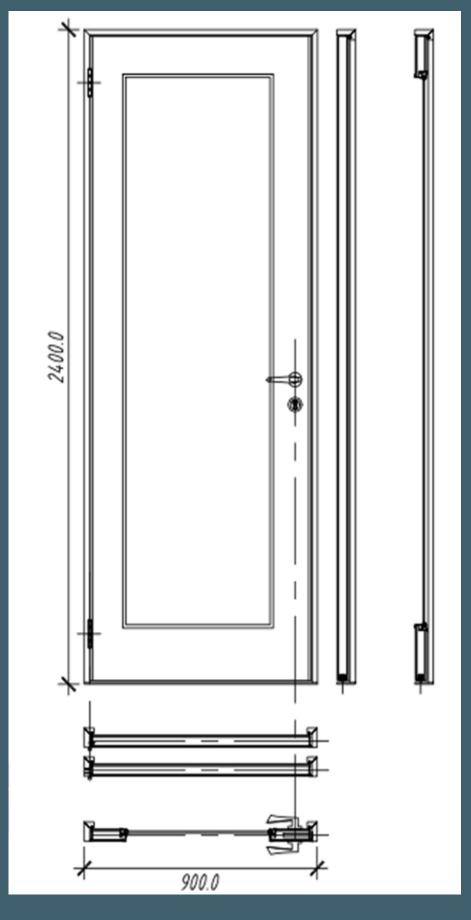
900mm wide x 2400mm high

Acoustic rating:

starting from 32dB acoustic insulation rating

Suitable for:

- office entrances
- meeting rooms
- doors for homes





close-up of the door handle set



Finishes available (2100mm or 2400mm high):

- White Melamine
- finish prepared for painting by others
- Veneers sealed with waterbase
 PU sealer or stained to match

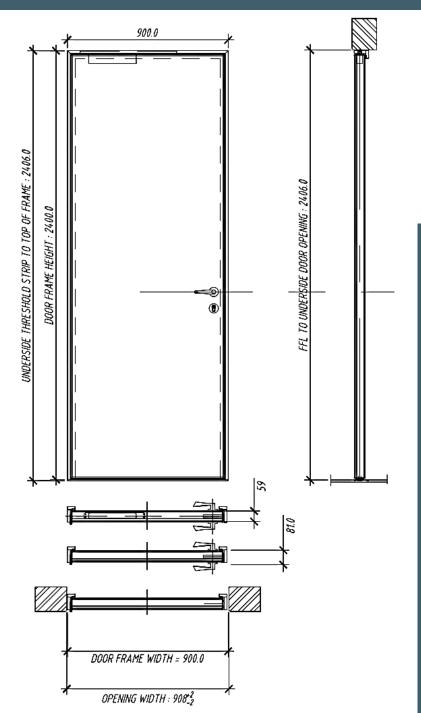


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VARIKUST® VK59 FIRE

THE MOST COST EFFECTIVE ACOUSTIC FIRE HOTEL ROOM DOOR



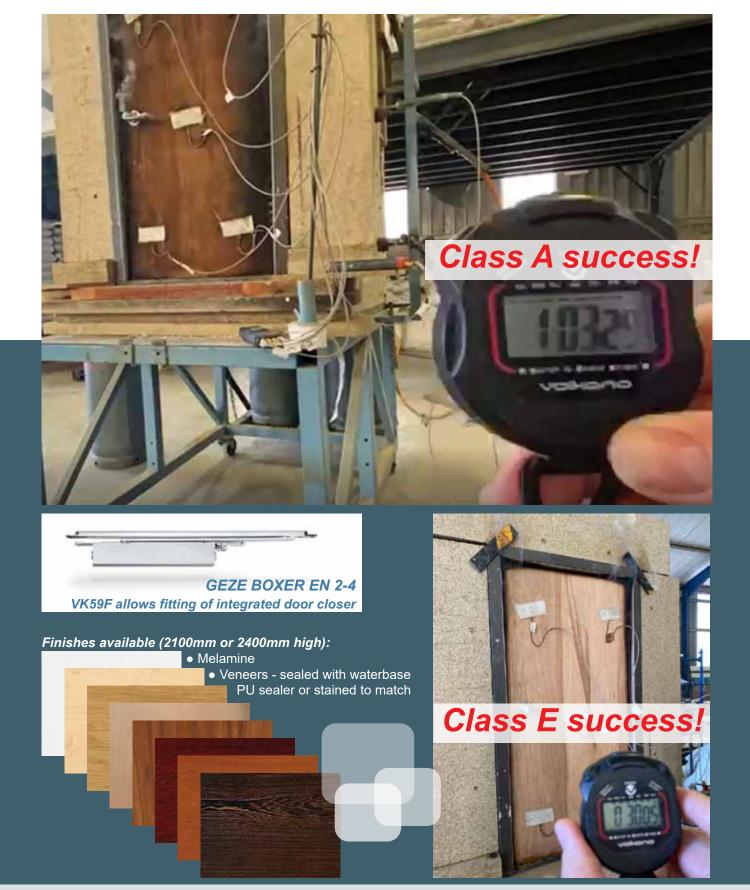
VK59F summary:

59mm thick acoustic single FIRE door

Door max size: 900mm wide x 2400mm high

38dB acoustic insulation rating

Available in Class E (30min) & Class A (60min)



Please note: the initial small-scale tests are successful and full-scale tests are imminent shortly.

SPECIFICATION TEXTS AVAILABLE ON AUTOSPEC AND OUR WEBSITE



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VARIKUST® VK62 FIRE

ACOUSTIC FIRE DOORS



FIRE TEST RESULTS - ACCORDING TO SANS 1253. SANS 10177 - 2 (FRR)

FIRE RESISTANCE RATING (FRR): 60min

INTEGRITY : criteria satisfied for a period of approximately 1hr 14minutes

STABILITY : criteria satisfied for a period of approximately 1hr 15minutes

INSULATION : the maximum single temperature reached before the test was terminated at

1hr 15minutes was 80.2°C and the maximum average temperature at the time was

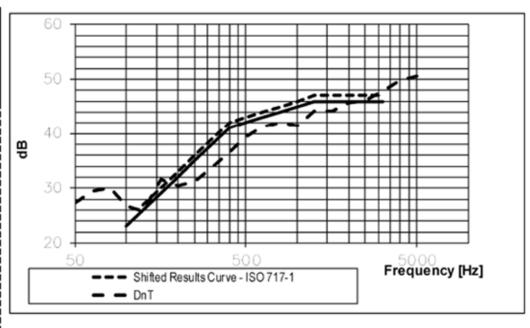
71.1°C

This door exceeds the requirements for INTEGRITY, STABILITY & INSULATION for a **CLASS A** FIRE DOOR *(test report available on our website).*

SOUND TEST RESULTS

STANDARDISED LEVEL DIFFERENCE ACCORDING TO ISO 162283-1 2014 FIELD MEASUREMENTS OF AIRBORNE SOUND INSULATION BETWEEN ROOMS

Frequency	D∩T
Hz	
	dB
50	27.4
63	29.5
80	30.1
100	26.7
125	25.8
160	31.5
200	30.5
250	31.2
315	33.7
400	36.7
500	
630	39.3 41.2
800	42.1
1000	41.4
1250	44.2
1600	44.2
2000	45.7
2500	46.1
3150	47.9
4000	49.8
5000	50.7



RATING ACCORDING TO ISO 717-1						
	DnT, _w (C; Ctr) =		42	(-1;-5) dB		
DnT,w(C; Ctr; C ₅₀₋₅₀₀₀ ; Ctr ₅₀₋₅₀₀₀)=		42	(-1;-5 -1;-5) dB			
STC RATING ACCORDING TO ASTM - E413		43	dB			

4mm door skin finishes

- Superwhite
- MDF can be painted by others
- Veneers sealed with waterbase
 PU sealer or stained to match
- HPL formica, fenix, merino
- Specialised facing e.g. Nanotechother finishes on request

Frame finishes

- mild steel plate (primed for painting by others)
- SS430 plate stainless steel (primed for painting by others)
- additional decorative frame finish:
 timber architrave from solid timber
 (for hinge side and / or push side)



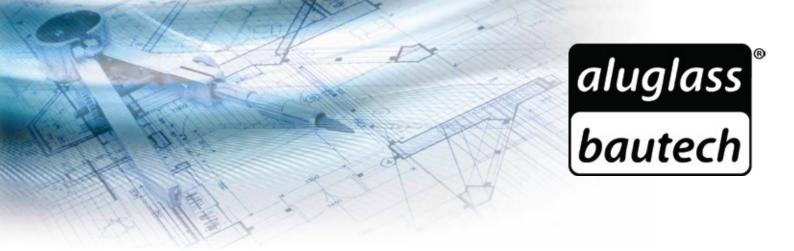
The VK62 acoustic fire door is prepared for a lock to specifications, and is compatible with access control hardware with a backset >=70mm e.g. ASSA ABLOY VINGCARD Classic Euroline 80BS



SPECIFICATION TEXTS AVAILABLE ON AUTOSPEC AND OUR WEBSITE

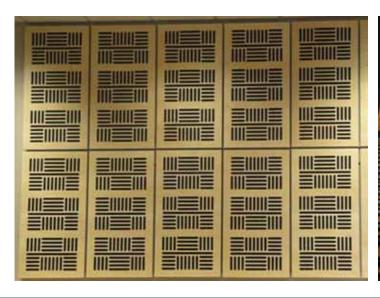


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ABSORPTION PANELS

slotted wood veneer panels





- reduces unwanted reflections and echos •
- used in auditoria, listening rooms, home theaters, theaters •
- noise reduction coefficient (NRC's) range from 0.5 to 0.85
 - compliments our range of acoustic products •
 - acoustic panels fitted to either walls or ceilings









● can be intergrated into Aluglass Bautech Variflex® system ●





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Wall Finishing Solutions

acoustics I functionality I aesthetics I durability



Aluglass Bautech would like to introduce Fabricmate Systems to southern Africa! A global supplier of environmentally friendly and cost effective acoustic panels, fabric upholstered wall products, fabric wrapped panels, amongst other products. Fabricmate is recognized worldwide as a "solutions company" with products engineered and designed to enhance working, learning and living environments. Fabricmate products address some of the key interior environment issues such as acoustical surfaces, privacy, speech intelligibility, sound reverberation, general noise reduction and reducing overall wall maintenance cost.

These **QUICK & EASY** to install panels are customised to fit any room size and will compliment your decor and design.

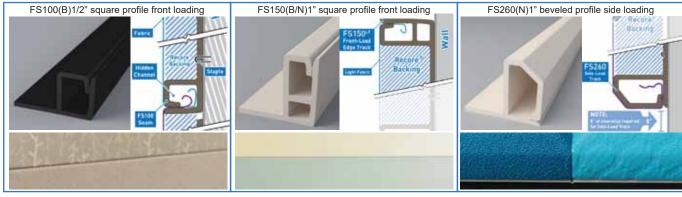


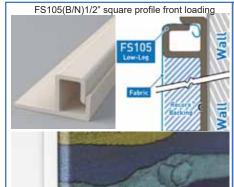
Absorption panel applications for:

- Conference rooms
- Meeting & board rooms
- Audio, command & control centres
- Offices
- Home Theatres
- Classrooms schools & universities
- Libraries

- Hospitality facilities
- Restaurants
- Hallways & corridors
- Gyms & multi-purpose rooms
- Lobbies & reception rooms
- Auditorium & theatres
- Places of worship

Available panel tracks:









Available extrusions colours:

BLACK(B)



NEUTRAL(N)



All technical information is taken from www.fabricmate.com!

Fabric to be used:

Aluglass Bautech offers a wide range of Vulcan fabrics - PLEASE CONTACT US TO VIEW THE FULL RANGE. Customers may also supply upholstery grade fabric to suit decor and interior. Please make sure if your fabric is "directional" that it is not turned from vertical to horizontal (or vice versa) when using cutoffs or smaller sized panels. Similarly, pay attention to any "pattern" (or "repeat") the fabric may have. There are fabrics that both have patterns and are directional.



SPECIFICATION TEXTS AVAILABLE ON AUTOSPEC AND OUR WEBSITE

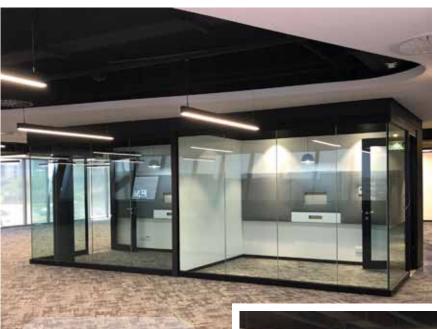


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new innovative design GF SERENE

re-mountable & re-locatable acoustic partitioning



The ideal acoustic re-mountable partition system to create *quiet office spaces* within open plan applications.

Quick and easy to install, remove and re-install with modular glass elements and flexible frame components.



The GF Serene Range integrates directly with the Aluglass Bautech Varikust® VK62 acoustic doors.

3 options are available: GF Serene 35 - 35dB

GF Serene 45 - 45dB

GF Serene 50 - 47dB

In ceiling and floor space insulation treatments available. Decorative treatments such as sandblasting and decal applications of or on the glass are possible.

The system also integrates seamlessly with our Varikust® VK62 acoustic doors and Variflex® VX83 mobile acoustic partitions with matching acoustic specifications to further enhance the integrity and flexibility of the quiet spaces created.

180 deg glass to glass joints are dry joined with a transparent VHB joining tape (not wet siliconed). The system can accommodate clear heights (floor to u/s ceiling) of up to 3.6m with the door height maximum being 2.6m. Single (clear width







SPECIFICATION TEXTS AVAILABLE ON AUTOSPEC AND OUR WEBSITE



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SUNFLEX

Frameless Glass Sliding & Frameless Stacking Doors



The living spaces of human beings have always consisted of eclectic living concepts. This calls for individual solutions. SUNFLEX Frameless Glass Sliding and Frameless Stacking Doors products offers the most diverse possibilities to create maximum living spaces and to enhance their usefulness significantly. The SUNFLEX systems are being used in many areas of daily life, for example as Glazed Folding Doors, Terrace and Conservatory Glazing, Balcony and Facade Glazing, Store Entrances, Room Dividers and Dividing Walls for home and office.

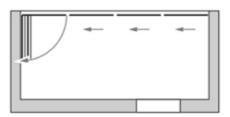
SF25 – frameless stacking doors

- Minimum impact on existing architecture
- Timeless design with no visible sightlines
- Offers weather protection from the elements
- Slim construction ensures maximum opening space with smallest stacking area
- Internal drainage channel track to remove any condensation or flush track option
- Low maintenance and fully guaranteed

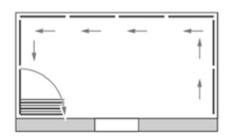


Angle Solutions 90°-180°

Straight Systems









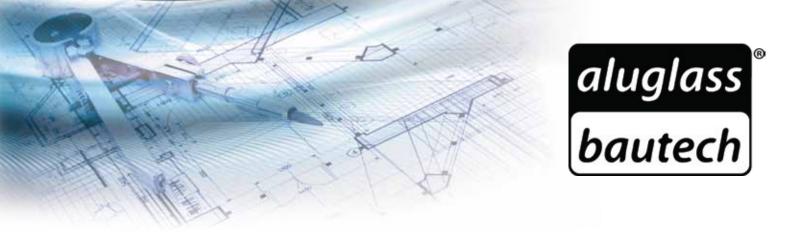
SF20 - frameless sliding doors

- Minimalist designed sliding doors with no visible sight lines
- Energy-saving that also offers weather protection from the elements
- Wide variety of configurations
- Automatic opening and closing of slave panels when main sliding panel is operated
- Internal track drainage for cleaning and anti-slip floor track or flush track option
- Low maintenance and fully guaranteed
- Aluminum extrusions are available in standard powder coating colours as per RAL
 - Glazing with toughened safety glass panel structure of 8 or 10 mm (to be specified per application and size)
 - Heights up to 2800mm, depending on wind load and panel widths
 - Both systems for internal and external applications
 - For more information, technical data or drawing details, please visit our website

SPECIFICATION TEXT AVAILABLE ON OUR WEBSITE



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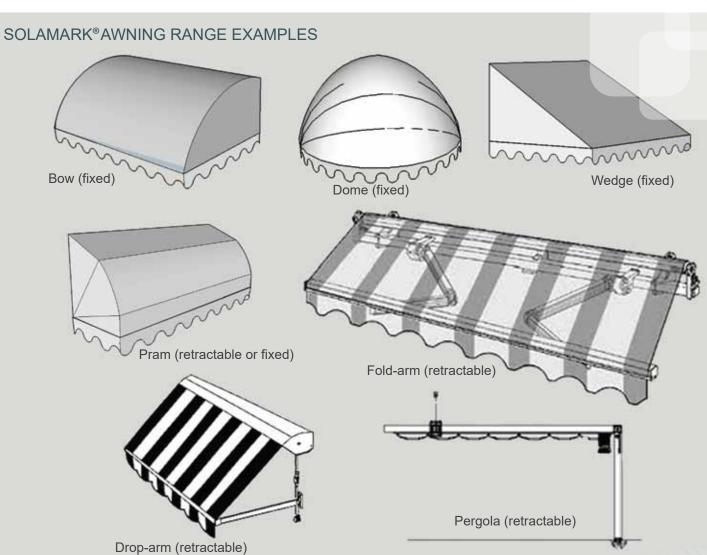
SOLAMARK®

retractable and fixed sun control fabric awnings



Aluglass Bautech offers a wide range of Awning fabrics - PLEASE CONTACT US TO VIEW THE FULL RANGE. Below are some examples.





SPECIFICATION TEXTS AVAILABLE ON AUTOSPEC AND OUR WEBSITE



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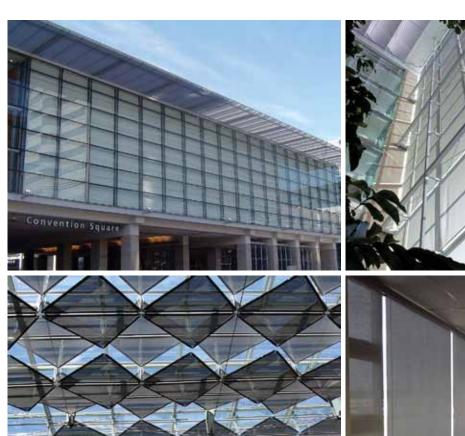


SOLUX[®]

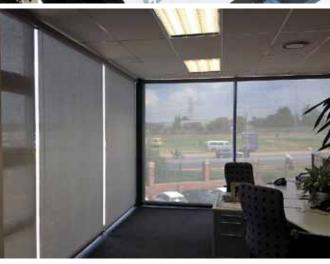
TECHNICAL SUN CONTROL SOLUTIONS



- Internal or external application
- Material and hardware imported from Europe, Asia and Australia
- Metallised and non-metallised roller fabric available
- Operational systems include manual, motorised or remote control options
- Advanced time regulation or sun sensor systems available
- Blind operation can be integrated into the building management system using SMI (standard motor interface) motors and KNX control automation











- Glass Facades
- Training Facilities
- Restaurants
- Shop fronts
- Hotels
- Conservatories
- Atriums
- Homes

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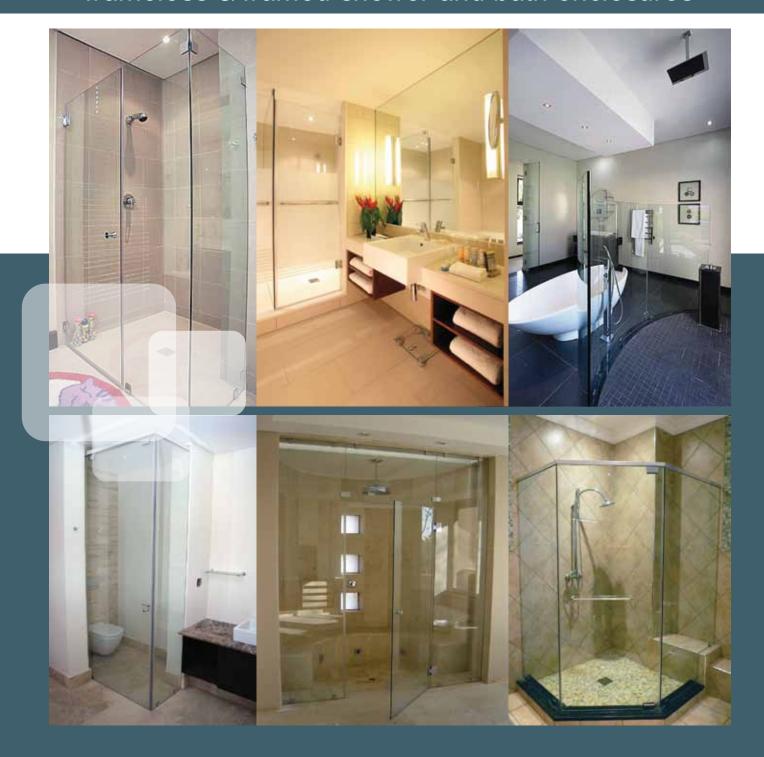


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SHOWERFLEX®

frameless & framed shower and bath enclosures



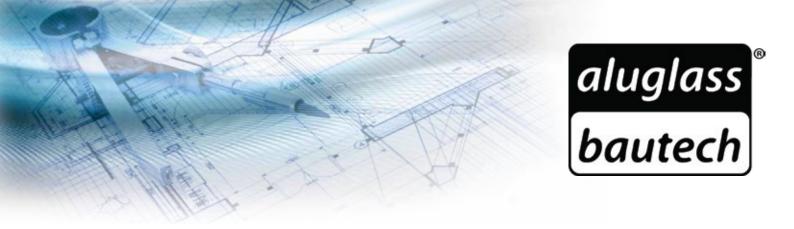




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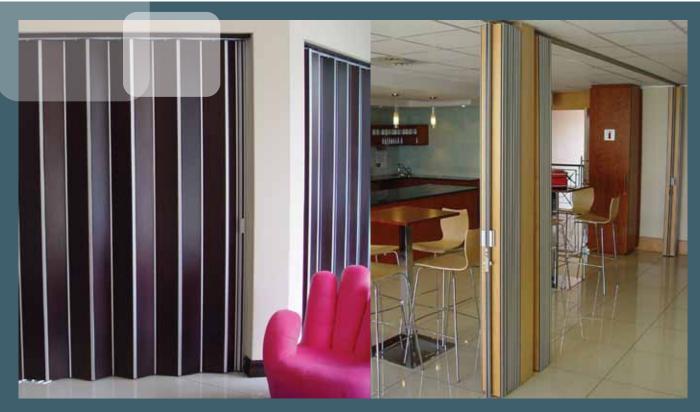
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VARIFOLD®

custom made single / double wooden folding doors







Varifold® wooden folding doors are available in the following finishes:

- white melawood
- crown mahogany veneer
- maple veneer
- cherrywood veneer
- beech veneer

- rosewood veneer
- walnut veneer
- etimoe veneer
- imbuia veneer
- oak veneer

NOTE: Owing to the processes of nature, colour samples may differ considerably from the original. We therefore recommend seeing the different samples before making a final decision.

Aluglass Bautech uses an environmentally friendly water base lacquer.



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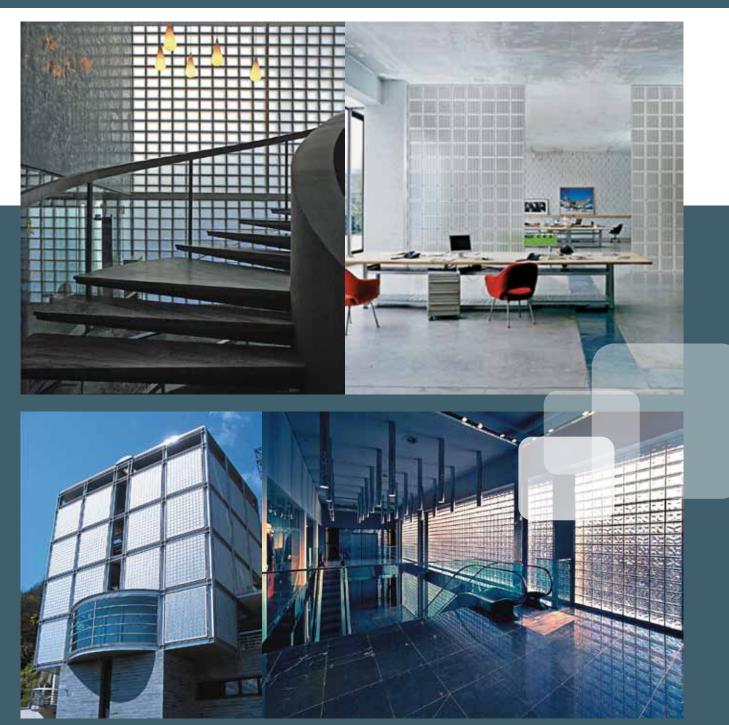


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GLASS BRICKS

International project ideas using Glass Bricks



South African project ideas using Glass Bricks





Glass bricks examples (for the full range please visit our website product page)



Savona 198

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Crossribbed 198



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