



Sound Solutions



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Unique solutions designed specifically for high performance sound attenuating applications

The Soundslide door offers the highest levels of acoustic separation. In single door format up to R_w57dB and in tandem arrangement greater than R_w67dB. Lower performance versions are also available with panels tested down to R_w30dB. Available in either single leaf or bi-parting configuration and custom built to suit your required application.

Typical applications would be:

- Theatres
- Film & TV Studios
- Theme Parks
- Industrial Test Cells
- Main Vehicle Access to Waste Recycling Facilities

Product application: Highest performance studio, theatre or test cell application

Soundlift doors feature the same seal and panel construction as the Soundslide range and as such share the ultra-high performance ability of R_w57dB in single leaf format and greater than R_w65dB in tandem arrangement. Similarly recommended in very high performance applications and custom built to suit your required application.

Typical applications would be:

- Theatres
- Concert venues
- Industrial Test Cells
- Main Vehicle Access to Waste Recycling Facilities



Product application: Highest performance theatre or conference centre application

The Soundroll range of acoustic shutters covers from R_w30 dB in a single leaf arrangement up to R_w53 dB in a tandem leaf system. Combined with a Soundslide in tandem configuration performance levels of R_w67 dB can be reached and when combined with a Soundsec then R_w60 dB solutions are achievable.

Typical applications would be:

- Enhancement to existing doors
- Theatres
- Industrial test cells
- Access to power station turbine halls

Product application: Our most versatile acoustic solution

Soundsec doors can provide a useful solution where there is restricted side room, headroom or both. Also available with a pass-door and found in many loading bay or back of house applications. Tested to R_w30dB as a standalone door and to R_w60dB in tandem configuration with a Soundroll door:

Typical applications would be:

- Get-in door access
- Exhibition Centre loading bay vehicular access
- Enhanced industrial loading bays



The Soundmax door is provided in two versions.

The first is our standard all steel pedestrian access door in single leaf or double leaf configuration at up to 2.75m x 3.0m structural opening. The second is the Soundmax XL composite door where the bespoke manufacture allows dimensions up to 6.0m x 6.0m.

Typical applications would be:

Soundmax steel:

- Perimeter and inter room acoustic separation
- Isolating recording facilities, TV & Radio studios
- Auditoriums & Music rooms
- Theatres & Nightclubs
- Schools

Soundmax XL Composite:

- Back of Stage access
- Industrial Plant rooms
- Vehicular or set movement access
- Industrial test cells

Product application: Standard pedestrian or vehicular access



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Soundmax



HEAD OFFICE

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Product Specification: Soundslide

Product application:	Our horizontal sliding doors provide a high performance solution to applications where
	acoustic separation requirements are critical. Typically found in TV Studio and Theatre
	applications but also found in many industrial test cell and noise reduction applications.
Key Features:	
Opening speed:	Single slide: Up to 1.5m/s (subject to door size)
Opening speed:	Bi-parting: Up to 3.0m/s (subject to door size)
Closing speed:	User variable to suit application
Track:	Heavy duty galvanised steel running gear with a twin wedge system to allow smooth
	acceleration, travel and deceleration
Track options:	Custom track systems built to suit the door load and the building structure
Seals:	Unique low friction seal system ensures the highest levels of acoustic attenuation
Fire resistance:	Up to 120 minutes EN 1634-1
Technical data:	
Panel thickness:	Generally 100mm to R _w 50dB
	Generally 150mm up to R _w 57dB
Standard panel:	Acoustic composite asymmetrically arranged to ensure the highest levels of
	acoustic attenuation
Panel options:	Standard finish pre-coated plastisol steel sheet, option stainless steel, 304, 316,
	brushed, polished etc
Leaf capping:	To match door finish
Joint capping:	Isolated powder coated steel flats to ensure a wide and effective joint cover
U value:	100mm = 0.6W/m²K at R_50dB
Acoustic performance:	Maximum R_57dB single leaf arrangement
·	Maximum R_67dB tandem arrangement (Soundroll and Soundslide)
	Maximum >R67dB tandem arrangement (Soundslide x 2).
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Control system:	
Controller:	Frequency converter with low voltage control circuit
Mains requirement:	To suit application, standard 230V, 50Hz, 16A type B MCB supply
Controls:	Standard 'Open/Stop/Close' on controller fascia set for maintained contact operation
Optional controls:	Semi-automatic and automatic control systems available with the addition of appropriate
	safety devices
Drive system:	
Motor gearbox:	Worm geared motor specifically designed for application on heavy duty sliding door systems
Gearbox features:	Robust low maintenance system with integrated incremental encoder positioning system
	to ensure that the door is accurately positioned on the acoustic seals on every operation
Safety devices:	
Safe edge:	Optional conductive rubber type self-monitoring wireless safe edge
	(only required if 'dead man' operation is not adopted
Operation:	In the event of a safety device being tripped the door will revert to 'dead-man' operation
Standards:	In full compliance with EN 12453
Technical design:	
Door operation:	Our doors can operate in a quiet and smooth manner due to the detail design that
	includes the twin wedge track system and low friction seal system. Our running trolley
	bearings are fully sealed with a minimum of four bearings per trolley. This ensures smooth
	reliable trouble free operation in even the most arduous of environments
Design flexibility:	
Track system:	Due to the mass of our acoustic door leaves we have a selection of 'standard' track designs
	to suit almost any weight/structure combination
Finish:	Every door we build is custom designed to meet your requirements and as such we offer
	custom sizes, custom colours and custom finishes



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DOC REF: SDS103B

Tandem Arrangements:

Where very high levels of sound reduction are required we offer clients our tandem arrangement whereby two independent doors are fitted either side of the opening. In addition to the individual leaf performances we increase the unit performance by lining the reveal in sound absorbing mineral wool with a capping of perforated steel sheet, see photo. This ensures that we achieve the highest possible levels of sound attenuation possible

Soundslide Acoustic Door Test Data

Frequency f [Hz]	R 1/3 Octave [dB]	R 1/3 Octave [dB]	R 1/3 Octave [dB]	R Octave [dB]	R 1/3 Octave [dB]	R 1/3 Octave [dB]	R 1/3 Octave [dB]	R 1/3 Octave [dB]
50	-	-	27.5	-	38.8	31.3	39.4	41.4
63	-	-	25.9	25.8	38.8	29.2	35.0	43.0
80	-	-	24.1	-	31.6	25.6	23.9	38.4
100	26.8	27.0	26.8	-	38.5	29.1	31.3	43.7
125	28.1	27.9	27.7	30.5	38.0	30.7	41.6	47.8
160	35.6	37.4	36.8	-	37.8	41.3	45.4	52.9
200	36.3	39.3	43.1	-	40.7	42.8	46.6	53.3
250	35.9	39.6	42.1	43.6	43.4	44.4	50.5	56.3
315	36.1	39.2	43.0	-	42.8	44.1	51.6	57.6
400	37.6	38.8	45.0	-	45.6	45.0	52.9	61.3
500	38.1	39.0	46.2	46.4	47.5	48.3	52.4	66.0
630	37.5	38.7	47.8	-	49.8	52.3	54.1	70.4
800	38.1	40.8	49.7	-	52.8	55.5	55.7	76.1
1000	39.1	42.7	50.7	50.3	56.4	58.8	59.3	80.7
1250	40.4	45.1	52.0	-	60.0	61.4	60.7	82.3
1600	43.6	47.1	52.9	-	62.6	63.9	61.4	84.3
2000	44.7	48.1	54.8	54.8	66.2	66.3	64.9	86.1
2500	46.0	48.4	57.1	-	69.4	69.1	68.4	84.6
3150	46.6	49.1	60.2	-	71.9	70.3	71.1	80.2
4000	47.6	50.8	62.3	61.8	72.3	69.9	71.5	73.8
5000	47.5	50.8	62.8	-	63.0	64.1	63.0	62.4
R _w	41	44	49	50	53	53	57	67
С	-1	-1	-1	-2	-1	-2	-2	-1
Ctr	-3	-4	-6	-7	-5	-8	-8	-7
Thickness mm	90	90	90	90	150	150	150	600
Door Type	Soundslide 41	Soundslide 44	Soundslide 49	Soundslide 50	Soundslide 53LF	Soundslide 53	Soundslide 57	Soundslide 57+ Soundroll 30





Product Specification: Soundlift

Product application:	Our vertical sliding doors provide a high performance solution to applications	
	where acoustic separation requirements are critical. Typically found in	
	Entertainment Venues and Theatre applications but also found in many	
	industrial test cell and noise reduction applications.	
Key Features:		
Opening speed:	Up to 1.5m/s (subject to door size)	
Closing speed:	User variable to suit application	
Track:	Heavy duty galvanised steel running gear with a single wedge action to allow	
	smooth acceleration, travel and deceleration	
Header options:	Custom head system option built to suit the door load and the building structure	
Seals:	Unique low friction seal system ensures the highest levels of acoustic attenuation	
Fire resistance:	Up to 120 minutes EN 1634-1	
Technical data:		
Panel thickness:	Generally 100mm to R _w 50dB	
	Generally 150mm up to R _w 57dB	
Standard panel:	Acoustic composite asymmetrically arranged to ensure the highest levels of	
	acoustic attenuation	
Panel options:	Standard finish pre-coated plastisol steel sheet, option stainless steel, 304, 316,	
	brushed, polished etc	
Leaf capping:	To match door finish	Г
Joint capping:	Isolated powder coated steel flats to ensure a wide and effective joint cover	
U value:	100mm = 0.6W/m²K at R _w 50dB	
	150mm = up to 0.39W/m²K at R _w 57dB	
Acoustic performance:	Maximum R _w 57dB single leaf arrangement	
	Maximum R_w 67dB tandem arrangement (Soundroll and Soundlift)	
	Maximum $> R_w 67$ dB tandem arrangement (Soundlift x 2)	
Balancing system:	Fully counterbalanced system with duplex suspension system to ensure safe	
	operation with minimum power requirements	





Control system:	
Controller:	Frequency converter with low voltage control circuit
Mains requirement:	To suit application, standard 230V, 50Hz, 16A type B MCB supply
Controls:	Standard 'Open/Stop/Close' on controller fascia set for maintained
	contact operation
Optional controls:	Semi-automatic and automatic control systems available with the addition of
	appropriate safety devices
Drive system:	
Motor gearbox:	Worm geared motor specifically designed for application on heavy duty sliding
	door systems
Gearbox features:	Robust low maintenance system with integrated incremental encoder positioning
	system to ensure that the door is accurately positioned on the acoustic seals on
	every operation
Safety devices:	
Safe edge:	Optional conductive rubber type self-monitoring wireless safe edge
	(only required if 'dead man' operation is not adopted)
Operation:	In the event of a safety device being tripped the door will revert to
	'dead-man' operation
Standards:	In full compliance with EN 12453
Technical design:	
Door operation:	Our doors can operate in a quiet and smooth manner due to the detail design that
	includes the single wedge track system and low friction seal system. Our running
	wheel bearings are fully sealed with a minimum of six wheels per leaf. This ensures
	smooth reliable trouble free operation in even the most arduous of environments.
Design flexibility:	
Header system:	Due to the mass of our acoustic door leaves we have a selection of 'standard'
	header designs to suit almost any weight/structure combination
Finish:	Every door we build is custom designed to meet your requirements and as such
	we offer custom sizes, custom colours and custom finishes

Unique solutions designed for high performance sound attenuating applications



Tandem Arrangements:

Where very high levels of sound reduction are required we offer clients our tandem arrangement whereby two independent doors are fitted either side of the opening. In addition to the individual leaf performances we increase the unit performance by lining the reveal in sound absorbing mineral wool with a capping of perforated steel sheet, see photo. This ensures that we achieve the highest possible levels of sound attenuation possible.

Soundlift Acoustic Door Test Data

Frequency f	R 1/3 Octave	R 1/3 Octave	R 1/3 Octave	R Octave	R 1/3 Octave	R 1/3 Octave	R 1/3 Octave	R 1/3 Octave
[Hz]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
50	-	-	27.5	-	38.8	31.3	39.4	41.4
63	-	-	25.9	25.8	38.8	29.2	35.0	43.0
80	-	-	24.1	-	31.6	25.6	23.9	38.4
100	26.8	27.0	26.8	-	38.5	29.1	31.3	43.7
125	28.1	27.9	27.7	30.5	38.0	30.7	41.6	47.8
160	35.6	37.4	36.8	-	37.8	41.3	45.4	52.9
200	36.3	39.3	43.1	-	40.7	42.8	46.6	53.3
250	35.9	39.6	42.1	43.6	43.4	44.4	50.5	56.3
315	36.1	39.2	43.0	-	42.8	44.1	51.6	57.6
400	37.6	38.8	45.0	-	45.6	45.0	52.9	61.3
500	38.1	39.0	46.2	46.4	47.5	48.3	52.4	66.0
630	37.5	38.7	47.8	-	49.8	52.3	54.1	70.4
800	38.1	40.8	49.7	-	52.8	55.5	55.7	76.1
1000	39.1	42.7	50.7	50.3	56.4	58.8	59.3	80.7
1250	40.4	45.1	52.0	-	60.0	61.4	60.7	82.3
1600	43.6	47.1	52.9	-	62.6	63.9	61.4	84.3
2000	44.7	48.1	54.8	54.8	66.2	66.3	64.9	86.1
2500	46.0	48.4	57.1	-	69.4	69.1	68.4	84.6
3150	46.6	49.1	60.2	-	71.9	70.3	71.1	80.2
4000	47.6	50.8	62.3	61.8	72.3	69.9	71.5	73.8
5000	47.5	50.8	62.8	-	63.0	64.1	63.0	62.4
R _w	41	44	49	50	53	53	57	67
С	-1	-1	-1	-2	-1	-2	-2	-1
Ctr	-3	-4	-6	-7	-5	-8	-8	-7
Thickness mm	90	90	90	90	150	150	150	600
Door Type	Soundlift 41	Soundlift 44	Soundlift 49	Soundlift 50	Soundlift 53LF	Soundlift 53	Soundlift 57	Soundlift 57+ Soundroll 30





Product reference: Soundroll 30 and Soundroll 31

Product application:	Commercial and Industrial Sound Control
Key Features:	
Operating speed:	Average speed of up to 150mm/s
Leaf format:	Single curtain vertical rolling
Support frame:	Heavy duty steel fabricated legs. Standard finish polyester powder coat
	RAL 3020 – Red. Other standard RAL colours are available.
Canopy:	Full width roller canopy finished to match the support frame
Motor Cover:	Included as standard in the door structure
Technical Data:	
Curtain specification:	22mm thick galvanised steel profile complete with asymmetrically arranged
	acoustic attenuating core
Acoustic performance:	Choice of two cores, one to provide R_w^30 dB and a dense core to provide
	R _w 31dB – see acoustic profiles overleaf
Fire resistance:	Up to 60 minutes EN 1634-1 (Soundroll 31 only)
U value:	Soundroll 30: 1.85W/m²K / Soundroll 31: 2.91W/m²K
Standard colour:	Natural galvanised steel finish. Polyester powder coat colours are available
Curtain features:	Wind end locked curtain to ensure a wind load category of Class 5 (1250Pa)
	Low friction lath end inserts to ensure a smooth running operation
	Roller anti-deflection system to ensure effective seal compression
Controls:	
Controller type:	Microprocessor based control system with low voltage controls
Supply:	400V, 3ph, 50Hz, 16A (Class C MCB)
Local controls:	3-way pushbutton station (OPEN ~ STOP ~ CLOSE) to the drive side of the opening
Operation:	Momentary pushbutton to open and maintained pushbutton to close.
	Option available for full or partial automation
Cabinet:	IP54 ABS controller enclosure
Motor power:	High efficiency drives at up to 2.5kW dependant on door size





Motor gearbox:	Specifically designed for use on rolling doors with an integrated safety gear with
	anti-fall device built in
Gearbox features:	Robust low maintenance drive unit with integrated limit switches for accurate
	positioning. Self-adjusting motor brake
Manual operation:	Low level manual disconnect complete with haul chain for emergency
	manual operation
Bottom Lath:	With integrated acoustic threshold seal
Standards:	The door complies with the requirements of EN 13241-1

SAFE-door

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Outline dimensions

Acoustic performance data



Frequency	R	R
f	1/3 Octave	1/3 Octave
[Hz]	[dB]	[dB]
100	20.8	24.2
125	23.2	21
160	23	24.8
200	26.7	25.2
250	25.5	25.1
315	22	24.7
400	20	24.7
500	22.6	24.3
630	26.6	24.7
800	31.5	26.6
1000	32.2	33.3
1250	31.5	38.6
1600	33.2	40.8
2000	35.9	44.2
2500	37.3	43.6
3150	36.8	42.1
R _w	30	31
С	-1	-1
Ctr	-3	-3

Product reference: Soundroll 53

Product application:

High Performance Commercial and Industrial Sound Control

Key Features:

Operating speed:	Average speed of up to 150mm/s
Leaf format:	Twin curtain vertical rolling
Support frame:	Heavy duty steel fabricated legs. Standard finish polyester powder coat
	RAL 3020 – Red. Other standard RAL colours are available
Canopy:	Full width roller canopy finished to match the support frame
Motor Cover:	Included as standard in the door structure

Technical Data:

Curtain specification:	22mm thick galvanised steel profile complete with asymmetrically arranged
	acoustic attenuating core
Acoustic performance:	Independently tested at up to ${\sf R}_{\sf w}{\sf 53dB}$ – see acoustic profiles overleaf
Fire resistance:	Up to 60 minutes EN 1634-1
U value:	0.49W/m²K
Standard colour:	Natural galvanised steel finish. Polyester powder coat colours are available
Curtain features:	Wind end locked curtain to ensure a wind load category of Class 5 (1250Pa)
	Low friction lath end inserts to ensure a smooth running operation. Roller
	anti-deflection system to ensure effective seal compression on the door head
Controls:	
Controller type:	Microprocessor based control system with low voltage controls
Supply:	400V, 3ph, 50Hz, 16A (Class C MCB)
Local controls:	3-way pushbutton station (OPEN ~ STOP ~ CLOSE) to the drive side of the opening
Operation:	Momentary pushbutton to open and maintained pushbutton to close.
	Option available for full or partial automation
Cabinet:	IP54 ABS controller enclosure
Motor power:	High efficiency drives at up to 2.5kw dependant on door size





Motor gearbox :	Specifically designed for use on rolling doors with an integrated safety gear
	with anti-fall device built in
Gearbox features :	Robust low maintenance drive unit with integrated limit switches
	for accurate positioning. Self-adjusting motor brake
Manual operation :	Low level disconnect and haul chain for emergency manual operation
Bottom Lath :	With integrated acoustic threshold seal
Standards:	The door complies with the requirements of EN 13241-1



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Outline dimensions

Acoustic performance data

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Frequency, f, Hz \rightarrow



Frequency	R 1/2 octavia						
f	1/3 octave						
[Hz]	[dB]						
100	38.1						
125	46.6						
160	49.8						
200	46.5						
250	47.9						
315	46.6						
400	41.4						
500	43.1						
630	47.8						
800	62.7						
1000	70.8						
1250	75.2						
1600	78.2						
2000	82.6						
2500	83.3						
3150	81.1						
R _w	53						
C	-1						
Ctr	-4						

Product reference: Soundsec 30

Product application:	Our costional everband cliding dears provide an economic solution to applications	
Product application:	Our sectional overhead sliding doors provide an economic solution to applications where acoustic separation requirements are important. Typically found in Theatre	
	or Exhibition Venue Loading Bay applications but also found in many industrial	
	noise reduction applications.	k
Key Features:	noise reduction applications.	
Opening speed:	Up to 175mm/s	
Closing speed:	As opening speed	
Track:		
ITACK.	Heavy duty galvanised steel running gear with a single wedge action to allow smooth acceleration, travel and deceleration	
Lloader entions		
Header options:	Bolted direct to the structural support in the same plane as the door track	
Seals:	Unique low friction seal system to enable minimal effort to open and close the door	
	by either manual or automatic means whilst ensuring that the acoustic attenuating	
To short shates	requirements are met	
Technical data:		
Standard panel:	Acoustic composite panel	
Panel thickness:	95mm	
U value:	0.26W/m²K	
Panel options:	Standard finish polyester coated stucco embossed galvanised steel to the outer faces	
Leaf capping:	To match door finish	
Joint detail:	Quadruple interlocked horizontal joint with silicone seal to two edges	
Acoustic performance:	Maximum R _w 30dB single leaf arrangement	
	Maximum R $_{\rm w}$ 60dB tandem arrangement (Soundsec and Soundroll)	
	Maximum > R_w 60dB tandem arrangement (Soundsec and Soundslide)	
Door panel core:	Layers of sound attenuating materials	
Balancing system:	Depending upon door dimensions either fully counterbalanced with weight	
	system or torsion spring balance system at head of door	
Control system:		
Controller:	Fixed speed drive system with low voltage control circuit	
Mains requirement:	To suit application, standard 400V, 50Hz, 16A type B MCB supply	
Controls:	Standard 'Open/Stop/Close' on controller fascia set for maintained contact operation	





Optional controls:	Semi-automatic and automatic control systems available with the addition of appropriate safety devices
Drive system:	
Motor gearbox:	Worm geared motor specifically designed for application on heavy duty sectional door systems
Gearbox features:	Robust low maintenance system with integrated rotary limit switch positioning system to ensure that the door is accurately positioned on the acoustic seals on every operation
Safety devices:	
Safe edge:	Optional conductive rubber type self-monitoring wireless safe edge (only required if 'dead man' operation is not adopted)
Operation:	In the event of a safety device being tripped the door will revert to 'dead-man' operation
Standards:	In full compliance with EN 12453
Technical design:	
Door operation:	Our doors can operate in a quiet and smooth manner due to the detail design that includes the single wedge track system and low friction seal system. Our running wheel bearings are fully sealed with a minimum of six wheels per leaf. This ensures smooth reliable trouble free operation in even the most arduous of environments
Design Flexibility:	
Track system:	Due to the mass of our acoustic door leaves we have a selection of 'standard' header designs to suit almost any weight/structure combination
Finish:	Every door we build is custom designed to meet your requirements and as such we offer custom sizes, custom colours and custom finishes

Tandem Arrangements -

Where very high levels of sound reduction are required we offer clients our tandem arrangement whereby two independent doors are fitted either side of the opening. In addition to the individual leaf performances we increase the unit performance by lining the reveal in sound absorbing mineral wool with a capping of perforated steel sheet, see photo. This ensures that we achieve the highest possible levels of sound attenuation possible.

Frequency f[Hz] 50 63 80 100	R 1/3 octave [dB] 21.9	R 1/3 octave [dB]					
f[Hz] 50 63 80		1/3 octave [dB]					
63 80	21.0						
80	21.9	43.7					
	23.6	45.7					
100	24.3	30.1					
100	25.6	40.0					
125	24.5	48.4					
160	26.2	52.3					
200	29.1	50.2					
250	29.1	51.9					
315	28.8	52.1					
400	29.1	50.4					
500	29.6	53.6					
630	28.4	56.3					
800	26.1	60.5					
1000	25.8	62.1					
1250	27.4	63.5					
1600	29.3	67.2					
2000	37.8	78.4					
2500	49.4	86.7					
3150	61.6	83.1					
4000	59.0	76.7					
5000	58.4	65.7					
R _w	30	60					
C	0	-1					
Ctr	-2	-7					
Thickness (mm)	95	600					
Door Type	Soundsec 30	Tandem Soundsec 30 and Soundroll 30					

Product reference	e: Soundmax and Soundmax XL
Product application:	Our hinged acoustic doors provide a high performance solution to applications where acoustic separation requirements are critical. Select either a Soundmax steel, (right), or a Soundmax XL composite, (overleaf), depending on your application as outlined below.
Product Selection:	
Soundmax:	Traditional steel faced composite core hinged door in either single leaf or double leaf format. Most common acoustic door found in industrial, commercial, theatrical and broadcast applications.
Maximum dimension:	1250mm x 3000mm structural opening for single leaf door
	2750mm x 3000mm structural opening for double leaf door
Maximum performance:	R _w 58dB single leaf door
	R _w 54dB double leaf door
	>R $_{\rm w}$ 65dB single or double leaf combined with similar in a tandem arrangement
Fire resistance:	Up to 120 minutes EN 1634-1
Standard finish:	Polyester powder coat from standard colour range
Hardware:	Cam lift hinges in numbers to support the weight of the leaf fully when open
	Lever latch, lock, pull handle, emergency push bar etc.
Fitting type:	Infitted to structural and acoustic opening in either masonry or steel
Seals:	Twin or triple PVC encased magnetic acoustic seals to the perimeter of the door leaf
Vision panel:	Available as an option



DOC REF: SDS110C



Soundmax XL:	Composite core oversize hinged door in either single leaf or double leaf format. Typically found in Theatre or Exhibition Venue Rear Stage or Loading Bay applications but also found in many industrial noise reduction applications.
Maximum dimension:	3000mm x 6000mm structural opening for single leaf door 6000mm x 6000mm structural opening for double leaf door
Maximum performance:	R _w 57dB single leaf door
	R _w 54dB double leaf door
Hardware:	>R _w 65dB single or double leaf combined with similar in a tandem arrangement Custom manufactured extra-heavy duty full bearing hinges, (radial and thrust),
naluwale.	in numbers to support the weight of the leaf fully when open
	Espagnolette fastener to each leaf
Fitting type:	Face-fitted to structural and acoustic opening in either masonry or steel
Seals:	Quadruple PVC coated cotton re-enforced fabric with an acoustic foam core. Arranged
	to provide an airlock section complete with acoustic absorption lining to enhance seal
	performance at high frequencies
Technical data:	
Soundmax Steel	
Soundmax Steel Panel thickness:	81mm to 121mm - R _w 48dB to R _w 58dB
Soundmax Steel Panel thickness: U value:	0.53W/m²K to 1.50W/m²K
Soundmax Steel Panel thickness: U value: Panel options:	0.53W/m²K to 1.50W/m²K Standard finish polyester powder coated over electro-deposited zinc coated steel sheet
Soundmax Steel Panel thickness: U value:	0.53W/m²K to 1.50W/m²K Standard finish polyester powder coated over electro-deposited zinc coated steel sheet
Soundmax Steel Panel thickness: U value: Panel options: Soundmax XL Composite	0.53W/m²K to 1.50W/m²K Standard finish polyester powder coated over electro-deposited zinc coated steel sheet
Soundmax Steel Panel thickness: U value: Panel options: Soundmax XL Composite Panel thickness:	0.53W/m²K to 1.50W/m²K Standard finish polyester powder coated over electro-deposited zinc coated steel sheet 100mm to 150mm - R_40dB to R_57dB
Soundmax Steel Panel thickness: U value: Panel options: Soundmax XL Composite Panel thickness: U value:	0.53W/m²K to 1.50W/m²K Standard finish polyester powder coated over electro-deposited zinc coated steel sheet 100mm to 150mm - R_40dB to R_57dB 0.39W/m²K to 0.60W/m²K
Soundmax Steel Panel thickness: U value: Panel options: Soundmax XL Composite Panel thickness: U value:	0.53W/m²K to 1.50W/m²K Standard finish polyester powder coated over electro-deposited zinc coated steel sheet 100mm to 150mm - R _w 40dB to R _w 57dB 0.39W/m²K to 0.60W/m²K Pre-finished PVC coated steel sheet or galvanised steel sheet for on-site finishing
Soundmax Steel Panel thickness: U value: Panel options: Soundmax XL Composite Panel thickness: U value: Panel options:	0.53W/m²K to 1.50W/m²K Standard finish polyester powder coated over electro-deposited zinc coated steel sheet 100mm to 150mm - R _w 40dB to R _w 57dB 0.39W/m²K to 0.60W/m²K Pre-finished PVC coated steel sheet or galvanised steel sheet for on-site finishing
Soundmax Steel Panel thickness: U value: Panel options: Soundmax XL Composite Panel thickness: U value: Panel options: Design flexibility:	0.53W/m²K to 1.50W/m²K Standard finish polyester powder coated over electro-deposited zinc coated steel sheet 100mm to 150mm - R_40dB to R_57dB 0.39W/m²K to 0.60W/m²K Pre-finished PVC coated steel sheet or galvanised steel sheet for on-site finishing by others
Soundmax Steel Panel thickness: U value: Panel options: Soundmax XL Composite Panel thickness: U value: Panel options: Design flexibility:	0.53W/m²K to 1.50W/m²K Standard finish polyester powder coated over electro-deposited zinc coated steel sheet 100mm to 150mm - R_40dB to R_57dB 0.39W/m²K to 0.60W/m²K Pre-finished PVC coated steel sheet or galvanised steel sheet for on-site finishing by others Due to the mass of our acoustic door leaves on our Soundmax XL composite doors, we have





Tandem Arrangements:

Where very high levels of sound reduction are required we offer clients our tandem arrangement whereby two independent doors are fitted either side of the opening. In addition to the individual leaf performances we increase the unit performance by lining the reveal in sound absorbing mineral wool with a capping of perforated steel sheet, see photo. This ensures that we achieve the highest possible levels of sound attenuation possible.

Soundmax Acoustic Door Test Data:

Frequency	R	R	R	R	R 1/3 Octave [dB]		
f	1/3 Octave	1/3 Octave	1/3 Octave	1/3 Octave			
[Hz]	[dB]	[dB]	[dB]	[dB]			
50	27.8	29.3	28.2	30.5	31.2		
63	22.4	23.6	25.4	25.6	26.9		
80	22.6	22.7	21.9	22.2	23.1		
100	30.1	30.8	30.4	28.4	29.1		
125	31.8	33.5	34.2	34.5	35.0		
160	34.7	38.7	38.3	39.8	40.8		
200	32.8	37.6	37.6	39.6	40.5		
250	36.6	40.9	40.6	43.3	44.6		
315	39.2	42.8	42.5	46.9	47.6		
400	42.0	45.6	45.6	48.5	49.5		
500 44.4		47.5	47.5	50.5	51.6		
630	47.5	49.7	50.1	51.5	52.0		
800	50.3	51.8	53.1	56.9	57.1		
1000	51.8	53.1	55.3	59.6	59.8		
1250	52.7	54.0	56.1	62.6	62.5		
1600	52.0	53.7	55.1	65.0	65.5		
2000	50.6	54.4	55.2	65.7	67.4		
2500	49.1	52.9	54.0	67.3	68.7		
3150	49.4	51.8	53.1	68.3	69.7		
4000	50.7	55.1	55.9	70.1	70.8		
5000	53.7	57.7	58.2	64.3	66.0		
R _w	48	50	51	53	54		
С	-2	-1	-2	-1	-2		
Ctr	-6	-5	-6	-7	-8		
Thickness mm	81	81	81	121	121		
	Soundmax 48	Soundmax 50	Soundmax 51	Soundmax 53	Soundmax 54		
Door Type	Double	Double	Double	Double	Double		







Vertical Soundslide - CCD, Dublin, Ireland



Horizontal Soundslide – CCD, Dublin, Ireland

2009

- CCD Dublin, Ireland R_w45dB Horizontal Soundslide, R_w36dB Vertical Soundslide
- Hope Valley College, Derbyshire, UK R_w53dB Single Soundmax
- United Utilities, Widnes, UK R_w45dB Double Soundmax



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Acoustic Project References



Horizontal Soundslide – Reliance MediaWorks, India

2010

- Reliance MediaWorks, Bollywood, India R_w30dB Horizontal Soundslide
- DCNS, Cherbourg, France >R_w60dB Horizontal Soundslide Tandem Arrangement (2 x R_w45dB)
- Grundfos, Sunderland, UK R, 45dB Double Horizontal Soundslide
- Royal Scottish Academy of Music and Drama, Glasgow, UK – R_w45dB Horizontal Soundslide c/w Pass Door
- Gaelic Academy, Stornoway, UK R_w45dB Soundmax
- YMCA, Bridgewater, UK R_w35dB Soundsec



Horizontal Soundslide – ITV, Manchester, UK

2012

- Sherman Theatre, Cardiff, UK R_w45dB Horizontal Soundslide
- Leeds Arena, UK R 53dB Vertical Soundslide, R 30dB Soundroll, R 30dB Soundsec, R 30dB Horizontal Soundslide, R 67dB Tandem Vertical and Soundroll
- ITV Manchester, UK R 53dB Horizontal Soundslide, R 31dB Soundroll, R 49dB Double Soundmax
- Royal Marines Facility, Poole, UK R 50dB Double Soundmax, >R 56dB Tandem Double Soundmax
- IES EFW, Oldbury, UK R_w31dB Soundroll

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Horizontal Soundslide – Leeds Arena, UK









Soundslide – Beckton CHIP, London, UK

2016 & Ongoing

2015

- Beckton CHIP & Turbo Expander Building, London, UK –
 D. 53dB Llarizantal Soundalida, D. 53dB Soundard
- R 53dB Horizontal Soundslide, R 53dB Soundroll
- Exhibition Centre Liverpool, UK R_w30dB Soundsec and R_w50dB Soundmax
- OMC Investments, Colchester, UK R_w30dB Horizontal Soundslide
- University of Hertfordshire, UK R_w53dB Soundroll
- West London Film Studios, UK R_w30dB Soundroll
- Fylde and Blackpool College, UK R_w30dB Soundsec and R_w31dB Soundroll

Soundslide – SNFCC Opera House, Athens, Greece

- Ice Arena Wales, Cardiff, UK R_w31dB Soundroll
- SNFCC Athens, Greece R_w51dB and R_w57dB Soundslide
- Fly By Nite Studios, UK R_w53dB Soundroll
- Panchathan Record Inn, India R_w58dB Soundmax
- City of Glasgow College, UK R_w31dB Soundroll
- BMW Engine Test, UK R_w52dB Soundmax
- Google/YouTube Studios, London, UK R_w50dB Soundmax
- London Underground, UK R_w58dB Soundmax
- David Browns Gear Systems, UK R_w53dB Soundroll
- Chester Theatre, UK R_w53dB Soundslide, R_w65dB Tandem Soundslide, R_w30dB Soundsec
- Alaraby Studios, London, UK R_w52dB Soundmax
- North Foreshore Film Studios, Belfast, UK –
 R_53dB Soundslide, R_53dB Soundroll, R_50dB Soundmax

Soundroll – Fly By Nite Studios, UK



Soundsec - Exhibition Centre Liverpool, UK



TR745 2017 - SAFE-door Acoustic Test Data

			SOUND	SLIDE/SOU	JNDLIFT				SOUNDRO	LL	SOUNDSEC		SOUNDMAX TANDEM A					PPLICATIONS		
DOOR TYPE	SLIDING -SEAL LD FOAM	SLIDING -SEAL HD FOAM	SLIDING	SLIDING TWIN SEAL	SLIDING - LOW FREQUENCY CORE	SLIDING	SLIDING	INSULATED SHUTTER CORE HP	INSULATED SHUTTER CORE UP	TANDEM INSULATED SHUTTER CORE HP	SECTIONAL OVERHEAD	HINGED STEEL- SEAL TWIN MAGNETIC	HINGED STEEL- SEAL TWIN MAGNETIC	HINGED STEEL- SEAL TWIN MAGNETIC	HINGED STEEL- SEAL TRIPLE MAGNETIC	HINGED STEEL- SEAL TRIPLE MAGNETIC	TANDEM SECTIONAL AND INSULATED SHUTTER	TANDEM 57DB SLIDING AND INSULATED SHUTTER	DOOR TYPE	
DOOR MODEL	SOUNDSLIDE 41	SOUNDSLIDE 44	SOUNDSLIDE 49	SOUNDSLIDE 50	SOUNDSLIDE 53 LF	SOUNDSLIDE 53	SOUNDSLIDE 57	SOUNDROLL 30	SOUNDROLL 31	SOUNDROLL 53	SOUNDSEC 30	SOUNDMAX 48	SOUNDMAX 50	SOUNDMAX	SOUNDMAX 53	SOUNDMAX 54	SOUNDSEC 30 • SOUNDROLL 30	SOUNDSLIDE 57 + SOUNDROLL 30	DOOR MODEL	
Frequency	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Frequency	
f	1/3 octave	1/3 octave	1/3 octave	octave	1/3 octave	1/3 octave	1/3 octave	1/3 octave	1/3 octave	1/3 octave	1/3 octave	1/3 octave	1/3 octave	1/3 octave	1/3 octave	1/3 octave	1/3 octave	1/3 octave	f	
[Hz]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[Hz]	
50	-	-	27.5	-	38.8	31.3	39.4	21.5	21.8	43.1	21.9	27.8	29.3	28.2	30.5	31.2	43.7	41.4	50	
63	•	-	25.9	25.8	38.8	29.2	35.0	21.1	19.1	42.6	23.6	22.4	23.6	25.4	25.6	26.9	45.7	43.0	63	
80	•	-	24.1	-	31.6	25.6	23.9	16.0	20.6	30.0	24.3	22.6	22.7	21.9	22.2	23.1	30.1	38.4	80	
100	26.8	27.0	26.8	-	38.5	29.1	31.3	20.8	24.2	38.1	25.6	30.1	30.8	30.4	28.4	29.1	40.0	43.7	100	
125	28.1	27.9	27.7	30.5	38.0	30.7	41.6	23.2	21.0	46.6	24.5	31.8	33.5	34.2	34.5	35.0	48.4	47.8	125	
160	35.6	37.4	36.8	-	37.8	41.3	45.4	23.0	24.8	49.8	26.2	34.7	38.7	38.3	39.8	40.8	52.3	52.9	160	
200	36.3	39.3	43.1	-	40.7	42.8	46.6	26.7	25.2	46.5	29.1	32.8	37.6	37.6	39.6	40.5	50.2	53.3	200	
250	35.9	39.6	42.1	43.6	43.4	44.4	50.5	25.5	25.1	47.9	29.1	36.6	40.9	40.6	43.3	44.6	51.9	56.3	250	
315	36.1	39.2	43.0	-	42.8	44.1	51.6	22.0	24.7	46.6	28.8	39.2	42.8	42.5	46.9	47.6	52.1	57.6	315	
400	37.6	38.8	45.0	-	45.6	45.0	52.9	20.0	24.7	41.4	29.1	42.0	45.6	45.6	48.5	49.5	50.4	61.3	400	
500	38.1	39.0	46.2	46.4	47.5	48.3	52.4	22.6	24.3	43.1	29.6	44.4	47.5	47.5	50.5	51.6	53.6	66.0	500	
630	37.5	38.7	47.8	-	49.8	52.3	54.1	26.6	24.7	47.8	28.4	47.5	49.7	50.1	51.5	52.0	56.3	70.4	630	
800	38.1	40.8	49.7	-	52.8	55.5	55.7	31.5	26.6	62.7	26.1	50.3	51.8	53.1	56.9	57.1	60.5	76.1	800	
1000	39.1	42.7	50.7	50.3	56.4	58.8	59.3	32.2	33.3	70.8	25.8	51.8	53.1	55.3	59.6	59.8	62.1	80.7	1000	
1250	40.4	45.1	52.0	-	60.0	61.4	60.7	31.5	38.6	75.2	27.4	52.7	54.0	56.1	62.6	62.5	63.5	82.3	1250	
1600	43.6	47.1	52.9	-	62.6	63.9	61.4	33.2	40.8	78.2	29.3	52.0	53.7	55.1	65.0	65.5	67.2	84.3	1600	
2000	44.7	48.1	54.8	54.8	66.2	66.3	64.9	35.9	44.2	82.6	37.8	50.6	54.4	55.2	65.7	67.4	78.4	86.1	2000	
2500	46.0	48.4	57.1	-	69.4	69.1	68.4	37.3	43.6	83.3	49.4	49.1	52.9	54.0	67.3	68.7	86.7	84.6	2500	
3150	46.6	49.1	60.2	-	71.9	70.3	71.1	36.8	42.1	81.1	61.6	49.4	51.8	53.1	68.3	69.7	83.1	80.2	3150	
4000	47.6	50.8	62.3	61.8	72.3	69.9	71.5	38.7	43.0	76.3	59.0	50.7	55.1	55.9	70.1	70.8	76.7	73.8	4000	
5000	47.5	50.8	62.8	-	63.0	64.1	63.0	40.8	44.3	66.1	58.4	53.7	57.7	58.2	64.3	66.0	65.7	62.4	5000	
6300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6300	
8000	-	-	-	54.6	-		-	-	-	-	-	-	-	-	-	-	-	-	8000	
R _w	41	44	49	50	53	53	57	30	31	53	30	48	50	51	53	54	60	67	Rw	
C	-1	-1	-1	-2	-1	-2	-2	-1	-1	-1	0	-2	-1	-2	-1	-2	-1	-1	C	
Ctr	-3	-4	-6	-7	-5	-8	-8	-3	-3	-4	-2	-6	-5	-6	-7	-8	-7	-7	Ctr	
Thickness mm	90 Salford Uni	90 Salford Uni	90 Salford Uni	90 Salford Uni	150 Salford Uni	150 Salford Uni	150 Salford Uni	22 Salford Uni	22 Salford Uni	600 Salford Uni	95 Salford Uni	81 Salford Uni	81 Salford Uni	81 Salford Uni	121 Salford Uni	121 Salford Uni	600 Salford Uni	600 Salford Uni	Thickness mm	
Test Report Ref	163	164	166	167	643	617	636	642	656	653	655	666	669	668	679	682	654	640	Test Report Ref	
Door Model	Soundslide 41	Soundslide 44	Soundslide 49	Soundslide 50	Soundslide 53 LF	Soundslide 53	Soundslide 57	Soundroll 30	Soundroll 31	Soundroll 53	Soundsec 30	Soundmax 48	Soundmax 50	Soundmax 51	Soundmax 53	Soundmax 54	Soundsec 30 + Soundroll 30	Soundslide 57 + Soundroll 30	Door Model	





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