



Sound Solutions

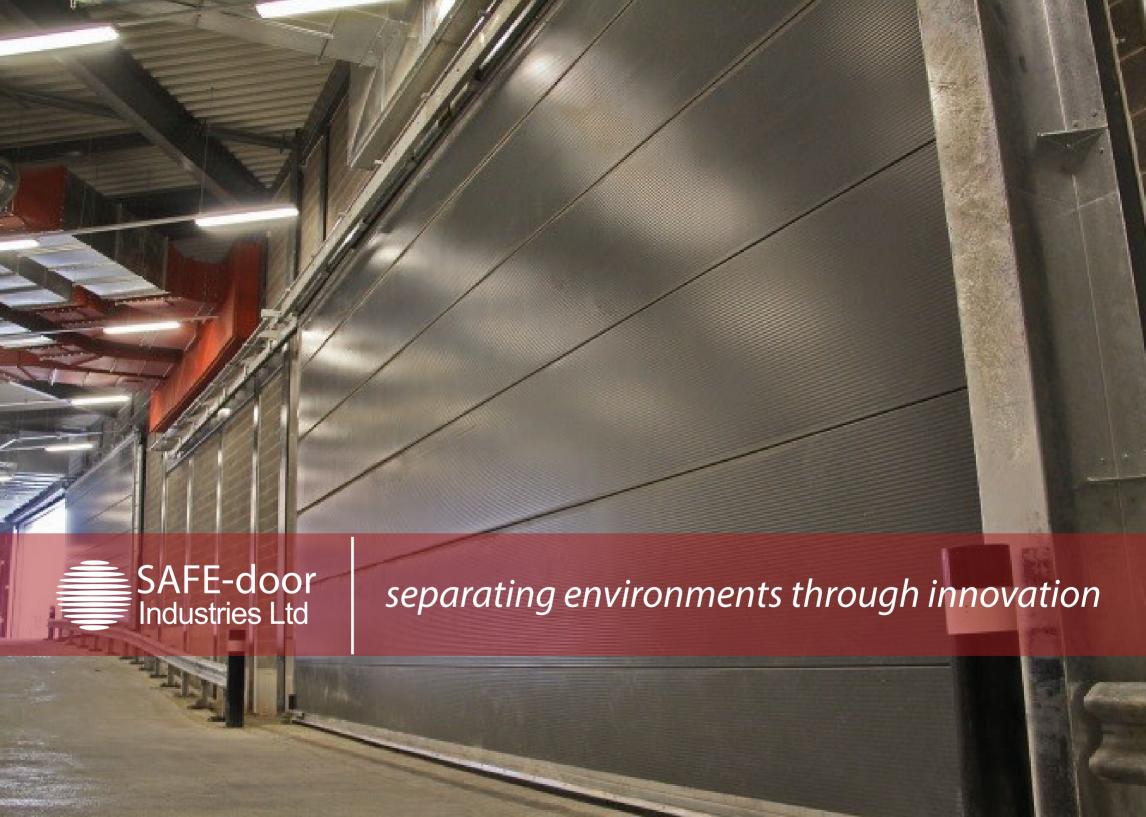


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separating environments through innovation

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_w 57dB and in tandem arrangement greater than R_w 67dB. Lower performance versions are also available with panels tested down to R_w 30dB. 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 $\rm R_w 57dB$ in single leaf format and greater than $\rm R_w 65dB$ in tandem arrangement. Similarly recommended in very high performance applications and custom built to suit your required application.

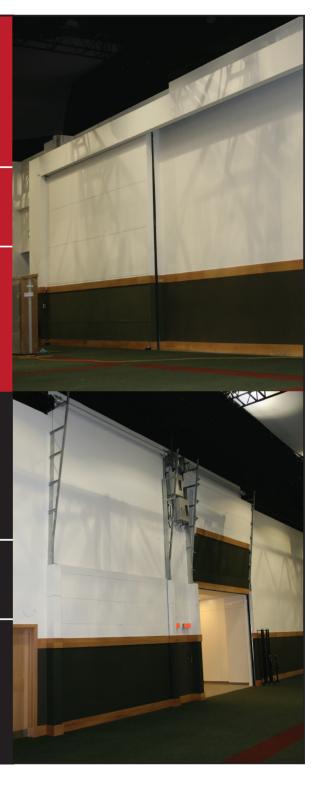
Typical applications would be:

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

UI Soundslide

02

Soundlift



Product application: Highest performance theatre or conference centre application

The Soundroll range of acoustic shutters covers from R_w30dB in a single leaf arrangement up to R_w53dB in a tandem leaf system. Combined with a Soundslide in tandem configuration performance levels of R_w67dB can be reached and when combined with a Soundsec then R_w60dB 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

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Soundroll



04

Soundsec



Product application: Where head room and side room are limited

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 $2.75 \,\mathrm{m} \times 3.0 \,\mathrm{m}$ structural opening. The second is the Soundmax XL composite door where the bespoke manufacture allows dimensions up to $6.0 \,\mathrm{m} \times 6.0 \,\mathrm{m}$.

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



separating environments through innovation

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Soundmax





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Registered in England and Wales No. 08760241

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_50dB

Generally 150mm up to R_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

150mm = up to 0.39W/m²K at R_w57dB

Acoustic performance: Maximum R_57dB single leaf arrangement

Maximum R_w67dB tandem arrangement (Soundroll and Soundslide)

Maximum >R,, 67dB tandem arrangement (Soundslide x 2).





separating environments through innovation

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:

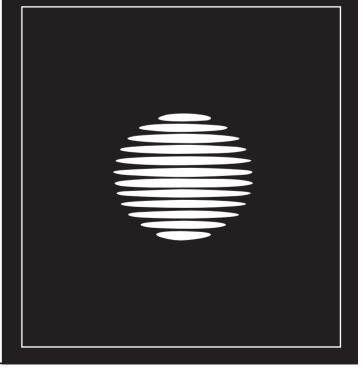
Track system: Due to the mass of our acoustic door leaves we have a selection of 'standard' track designs

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



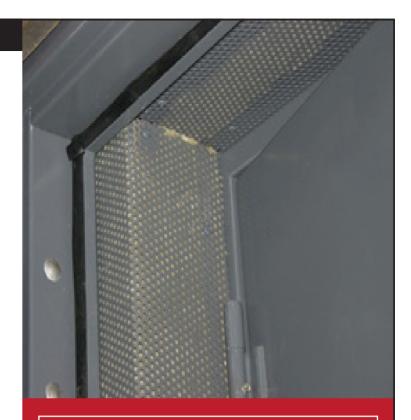


Tandem Arrangements:

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	i	-	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
C	-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_50dB

Generally 150mm up to R_w57dB

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: $100 \text{mm} = 0.6 \text{W/m}^2 \text{K at R}_{\text{w}} 50 \text{dB}$

150mm = up to 0.39W/m²K at R_w57dB

Acoustic performance: Maximum R_w57dB single leaf arrangement

Maximum R, 67dB tandem arrangement (Soundroll and Soundlift)

Maximum $>R_w$ 67dB 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

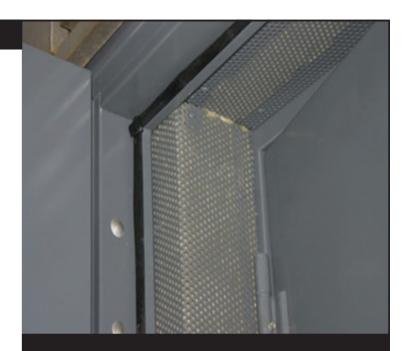


Tandem Arrangements:

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 [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.		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	
c	-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_30dB and a dense core to provide

R_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



Acoustic performance data **Outline dimensions** 50 45 40 **Sound Reduction index, R [dB]**35 25 20 15 Clearances required: Non-drive side = 250mm Drive side = 550mm Overall height =Clear opening height +800mm 10 5 Clear Opening Width 100 1000 Frequency, f, Hz \rightarrow

Frequency f [Hz]	R 1/3 Octave [dB]	R 1/3 Octave [dB]
[112]	[GD]	[GD]
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 R_w53dB - 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)

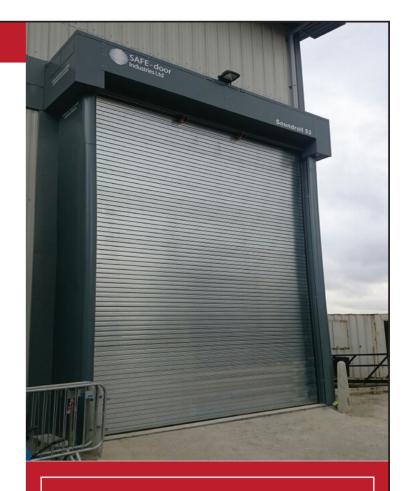
Local controls: 3-way pushbutton station (OPEN ~ STOP ~ CLOSE) to the drive side of the opening

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

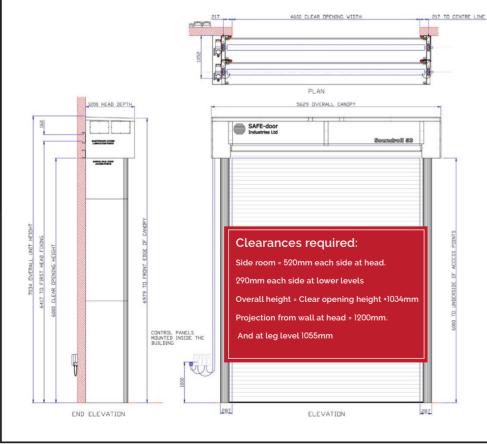
Manual operation: Low level disconnect and haul chain for emergency manual operation

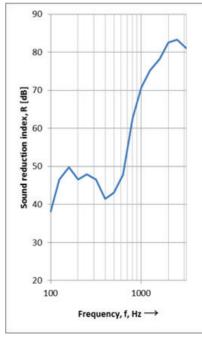
Bottom Lath: With integrated acoustic threshold seal

Standards: The door complies with the requirements of EN 13241-1



Outline dimensions Acoustic performance data





Frequency f	R 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
С	-1
Ctr	-4

Product reference: Soundsec 30

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.

Key Features:

Opening speed: Up to 175mm/s
Closing speed: As opening speed

Track: Heavy duty galvanised steel running gear with a single wedge action to allow

smooth acceleration, travel and deceleration

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

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_w30dB single leaf arrangement

Maximum R_w60dB tandem arrangement (Soundsec and Soundroll)

Maximum >R_w60dB tandem arrangement (Soundsec and Soundslide)

Door panel core: Layers of sound attenuating materials

Balancing system: Depending upon door dimensions either fully counterbalanced with weight

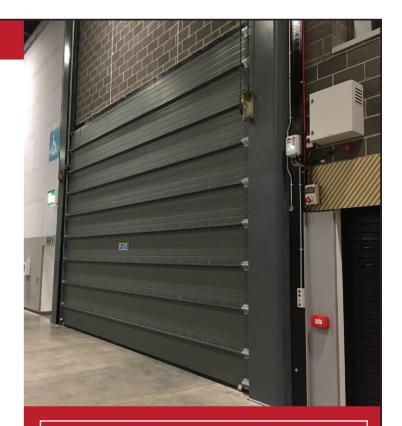
system or torsion spring balance system at head of door

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





separating environments through innovation

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]	R	
		R
50	1/3 octave [dB]	1/3 octave [dB
	21.9	43.7
63	23.6	45.7
80	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
		Tandem Soundsec
Door Type	Soundsec 30	and Soundroll 30

Product reference: 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_w58dB single leaf door

R_w54dB double leaf door

>R_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





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_w57dB single leaf door

R_54dB double leaf door

>R_w65dB single or double leaf combined with similar in a tandem arrangement

Hardware: Custom manufactured extra-heavy duty full bearing hinges, (radial and thrust),

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

Panel thickness: 81mm to 121mm - R, 48dB to R, 58dB

U value: 0.53W/m²K to 1.50W/m²K

Panel options: Standard finish polyester powder coated over electro-deposited zinc coated steel sheet

Soundmax XL Composite

Panel thickness: 100mm to 150mm - R, 40dB to R, 57dB

U value: 0.39W/m²K to 0.60W/m²K

Panel options: Pre-finished PVC coated steel sheet or galvanised steel sheet for on-site finishing

by others

Design flexibility:

Frame System: Due to the mass of our acoustic door leaves on our Soundmax XL composite doors, we have

a selection of 'standard' frame 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



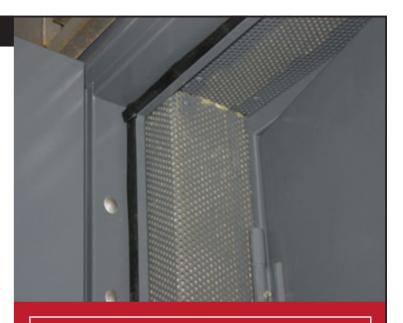


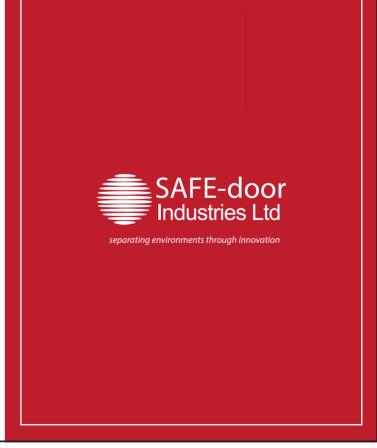
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Tandem Arrangements:

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]	R 1/3 Octave [dB]						
50	27.8	29.3	28.2	30.5	31.2		
63	22.4	29.5	25.4	25.6	26.9		
80	22.4	23.6	21.9	22.2	28.9		
100	30.1	30.8	30.4	28.4	23.1		
125		30.8	30.4	34.5	35.0		
160	31.8 34.7	33.5	34.2				
200		38.7 37.6	37.6	39.8	40.8		
250	32.8			39.6	40.5		
315	36.6	40.9	40.6	43.3	44.6		
400	39.2	42.8	42.5	46.9	47.6		
	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		
Door Type	Soundmax 48	Soundmax 50	Soundmax 51	Soundmax 53	Soundmax 54		









 CCD Dublin, Ireland – R_w45dB Horizontal Soundslide, R_w36dB Vertical Soundslide

Horizontal Soundslide - CCD, Dublin, Ireland

- Hope Valley College, Derbyshire, UK R_w53dB Single Soundmax
- United Utilities, Widnes, UK R_45dB Double Soundmax



Acoustic Project References



Horizontal Soundslide - Reliance MediaWorks. India

2010

- Reliance MediaWorks, Bollywood, India R_30dB 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
- $\bullet~$ Gaelic Academy, Stornoway, UK $\rm R_{w}45dB$ Soundmax
- YMCA, Bridgewater, UK R_w35dB Soundsec



- BBC Media Village, Cardiff, UK R, 42dB Horizontal Soundslide
- Baths Hall, Scunthorpe, UK R_w30dB Soundsec, R_w41dB Double Soundmax, R_w40dB Soundfold bi-parting
- $\bullet~$ Royal Welsh Academy, Cardiff, UK $\rm R_{w}56dB$ Double Soundmax
- University College Dublin, Ireland R, 53dB Double Soundmax
- Chichester Museum, UK R_w32dB Soundfold bi-parting
- Sackville Street Development, London, UK R_w53dB Soundmax
- Kendal College, UK R_53dB Double Soundmax
- Manchester Central, UK R_w53dB Double Soundmax and R_w65dB Tandem Double Soundmax





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Horizontal Soundslide – ITV, Manchester, UK



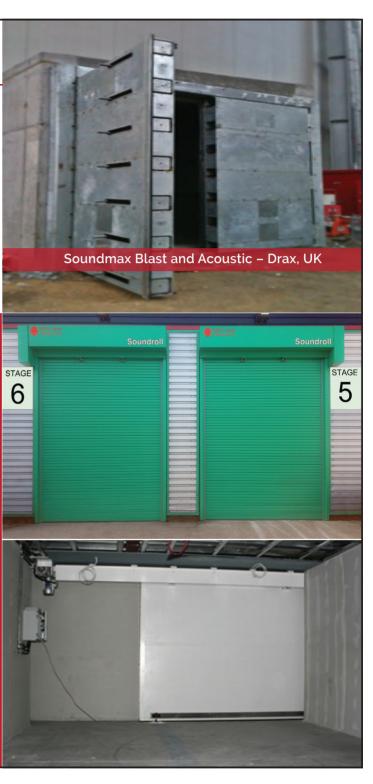
- Sherman Theatre, Cardiff, UK R, 45dB Horizontal Soundslide
- Leeds Arena, UK -R_w53dB Vertical Soundslide, R_w30dB Soundroll, R_w30dB Soundsec, R_w30dB Horizontal Soundslide, R_w67dB Tandem Vertical and Soundroll
- $\bullet \quad \text{ITV Manchester, UK R} \\ \underline{\text{53dB Horizontal Soundslide, R}} \\ \underline{\text{31dB Soundroll, R}} \\ \underline{\text{49dB Double Soundmax}}$
- Royal Marines Facility, Poole, UK R, 50dB Double Soundmax, >R, 56dB Tandem Double Soundmax
- IES EFW, Oldbury, UK R, 31dB Soundroll

Horizontal Soundslide - Leeds Arena, UK





- MTU UK, East Grinstead, UK R_w 40dB Double Horizontal Soundslide
- Rolls Royce, Derby, UK R_w47dB Double Soundmax
- Drax Power Station, Selby, ÜK –
 R_w30dB Double Soundmax Blast and Acoustic
- Drama Project, Manchester, UK R_w55dB Horizontal Soundslide





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Soundroll - West London Film Studios, UK

2014

- Dyson Film Studio, Malmesbury, UK R_w57dB Horizontal Soundslide
- SITA UK, Ipswich, UK R_w 30dB Soundroll
- Battlefield EFW, Shrewsbury, UK R_w30dB Soundsec
- West London Film Studios, UK R_w30dB Soundroll

Soundslide – Dyson Film Studio, UK



- Beckton CHIP & Turbo Expander Building, London, UK R_53dB Horizontal Soundslide, R_53dB Soundroll
- Exhibition Centre Liverpool, UK R_w30dB Soundsec and R_w50dB Soundmax
- OMC Investments, Colchester, UK R, 30dB Horizontal Soundslide
- University of Hertfordshire, UK R_w53dB Soundroll
- West London Film Studios, UK R, 30dB Soundroll
- Fylde and Blackpool College, UK R_w30dB Soundsec and R_w31dB Soundroll



2016 & Ongoing

Soundslide - SNFCC Opera House, Athens, Greece

- Ice Arena Wales, Cardiff, UK R_w31dB Soundroll
- SNFCC Athens, Greece R., 51dB and R., 57dB Soundslide
- Fly By Nite Studios, UK R_w53dB Soundroll
- Panchathan Record Inn, India R, 58dB Soundmax
- City of Glasgow College, UK R_w31dB Soundroll
- BMW Engine Test, UK R_,52dB Soundmax
- Google/YouTube Studios, London, UK R_w50dB Soundmax
- London Underground, UK R_,58dB 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_w53dB Soundslide, R_w53dB Soundroll, R_w50dB Soundmax

Soundroll - Fly By Nite Studios, UK



TR745 2017 - SAFE-door Acoustic Test Data

	SOUNDSLIDE/SOUNDLIFT					SOUNDROLL			SOUNDSEC		:	SOUNDMA	<		TANDEM AP	PLICATIONS			
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 51	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 35.9	39.3	43.1	43.6	40.7	42.8	46.6 50.5	26.7	25.2 25.1	46.5 47.9	29.1	32.8 36.6	37.6 40.9	37.6 40.6	39.6 43.3	40.5	50.2 51.9	53.3 56.3	200
250	36.1	39.6	43.0	43.6	43.4	44.4	51.6	25.5	24.7	46.6	28.8	39.2	42.8	42.5	46.9	47.6	51.9	57.6	315
315	37.6	39.2	45.0	-	45.6	45.0	51.6	20.0	24.7	41.4	29.1	42.0	45.6	45.6	48.5	49.5	52.1	61.3	400
400 500	38.1	39.0	46.2	46.4	47.5	48.3	52.9	22.6	24.7	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	40.4	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	26.4	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
С	-1	-1	-1	-2	-1	-2	-2	-1	-1	-1	0	-2	-1	-2	-1	-2	-1	-1	С
Ctr	-3	-4	-6	-7	-5	-8	-8	-3	-3	-4	-2	-6	-5	-6	-7	-8	-7	-7	Ctr
Thickness mm	90	90	90	90	150	150	150	22	22	600	95	81	81	81	121	121	600	600	Thickness mm
Test House	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Salford Uni	Test House
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

Test Report Summary





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