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/m 2 K at R $_{w}$ 57dB

Acoustic performance: Maximum R_w57dB 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:

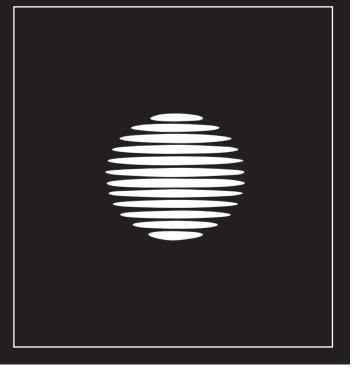
Track system: Due to the mass of our acoustic door leaves we have a selection of 'standard' track designs

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	-	-	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

