

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_w 30dB single leaf arrangement
Maximum R_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



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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.

Soundsec Acoustic Door Test Data

Frequency f[Hz]	R 1/3 octave [dB]	R 1/3 octave [dB]
50	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
C_{tr}	-2	-7
Thickness (mm)	95	600
Door Type	Soundsec 30	Tandem Soundsec 30 and Soundroll 30

