

Acoustic Door Specification

Super Noise-Lock® D-200 Steel Acoustic Door

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Construction

Door Structure 150mm thick, fabricated from 3mm galvanised steel door (reinforced to accept hardware) with full shop painted finish and filled with sound absorbing and damping elements.

Frame Z-section frame fabricated from 6mm hot rolled galvanised angle / channel / plate fixed to suitable supporting RHS to structural engineers details / requirements.

Acoustic Seals Side and head of door frame shall receive three sets of acoustic seals to acoustic engineers specification / requirement. An acoustic labyrinth shall be created when the door is in a closed position. The bottom of the door will be fitted with a neoprene compression seal which shall compress against a 6mm thick stainless steel threshold plate as the door is closed.

Assembly All elements will be assembled and adjusted at the factory to insure ease of installation, reliable operation and acoustic performance prior to shipment and installation.

Hinges Surface mounted strap hinges by manufacturer.

Installation

It is recommended the doors are fully installed by the manufacturer.

Colour / Finishes

Polyester Powder Coated to client's RAL selection

Furniture

Active leaf fitted with Steinbach and Vollman three point lockable latch set. Inactive leaf fitted with espagnolette bolt.

Acoustic Rating

Acoustic door to achieve minimum R'w55dB once installed (subject to flanking). Typical site performance in double leaf arrangement as follows:

Frequency (Hz)	63	125	250	500	1k	2k	4k	8k	Hz
Super Noise-Lock® D-200	39	47	48	60	61	61	55	56	dB

Fire Rating

Maximum 60 minutes (integrity) fire assessment as carried out by The Loss Prevention Council (BRE) in accordance with BS476: Part 22: 1987.