

# Acoustic Door Specification

## Super Noise-Lock® D200 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.