Acoustic Door Specification

Super Noise-Lock® D100 Steel Acoustic Door

IAC Acoustics
IAC House, Moorside Road, Winchester
Hampshire, SO23 7US, United Kingdom
T: +44 (0) 1962 873 000
www.iac-noisecontrol.com

Construction

Door Structure 102mm 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 two 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 painted to match the door.

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'w50dB once installed (subject to flanking). Typical site performance in double leaf arrangement as follows:

Frequency (Hz)	31.5	63	125	250	500	1k	2k	4k	8k	Hz
Super Noise-Lock® D-100	**21**	**25**	**42**	**52**	**54**	**51**	**60**	**57**	**59**	**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.

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