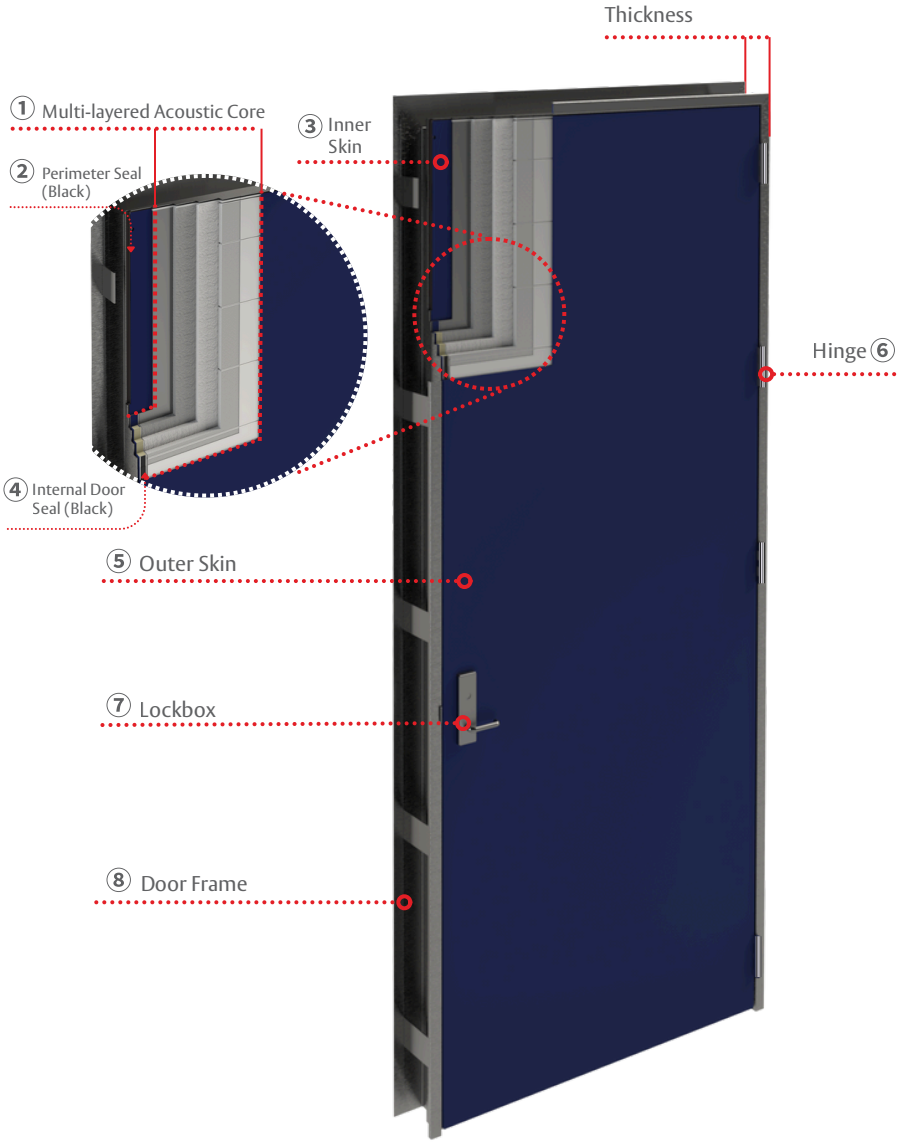
Acoustic Door Series

Noise Reduction

Technical Datasheet



The Acoustic Door features a multi-layered single-leaf construction engineered for high sound reduction, supported by perimeter and bottom seals to achieve acoustic ratings up to Rw 47.

It is supplied with a specified steel frame filled with approved packing material for added structural and acoustic integrity.

Each door unit is supplied with a fixed seal combination to meet the selected acoustic rating and compatible with a range of hardware typically used in acoustic applications.

Tested to AS1191:2002 and ISO 140.3:1995, it delivers reliable performance for commercial and industrial environments requiring effective noise containment.

Pre-hung Door Set:

- **Acoustic Rating Options:** 45Rw / 47Rw
- **Size:** Maximum - 2400 x 1200 mm
- **Weight:** Approx. 85kg/m^2
- **Thickness:** 48mm (nominal)
- **Finish:** Steel-wrapped to faces and edges

Door Leaf Construction:

1. Multi-layered Internal Core
2. Perimeter Seal: Euroseal
   *Refer to Seal Combinations for additional options
3. Inner Skin: 1.2mm thick steel
4. Internal Door Seal: Neoprene seal
5. Outer Skin: 1.6mm thick steel

Hardware Details:

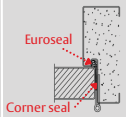
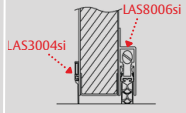
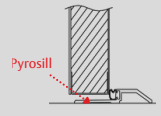
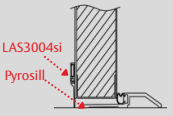
6. Hinges:
   100x100x3mm Severe duty Hinges
7. Lockbox: Most locking devices and hardware can be factory fitted

Door Frame:

8. Frame:

- 1.6mm thick Galvanized Steel Acoustic Frame
- Mortar filled for improved performance

Fixed Seal Combinations:

Type	Rw	Seal Set	
		Perimeter	Bottom
AS-SPECIAL-A2	45		
AS-SPECIAL-A3 (threshold included)	45		
AS-SPECIAL-A4	47		

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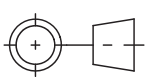

GENERAL TOLERANCES:

Unless Otherwise Stated:
0 Dec. place ±0.5mm
1 Dec. place ±0.25mm
2 Dec. place ±0.10mm
Holes: +0.25mm -0mm
Angles: ±0.25°

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