科保 Forbes

Acoustic, Fire-Rated and Insulation Steel & Timber Door System



Special Features :

- Complied with BS476 : Part 22 : 1987 & BS2750 : Part 3 : 1995
- Internationally Recognized ISO : 9001 : 2008 Certification
- Fire Resistance up to 4 hrs Integrity and 1 hr Insulation
- Over 20 years experience in door production
- Sound Reduction performance
- Impact Resistance
- Low smoke and non poison

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Sound Reduction Index

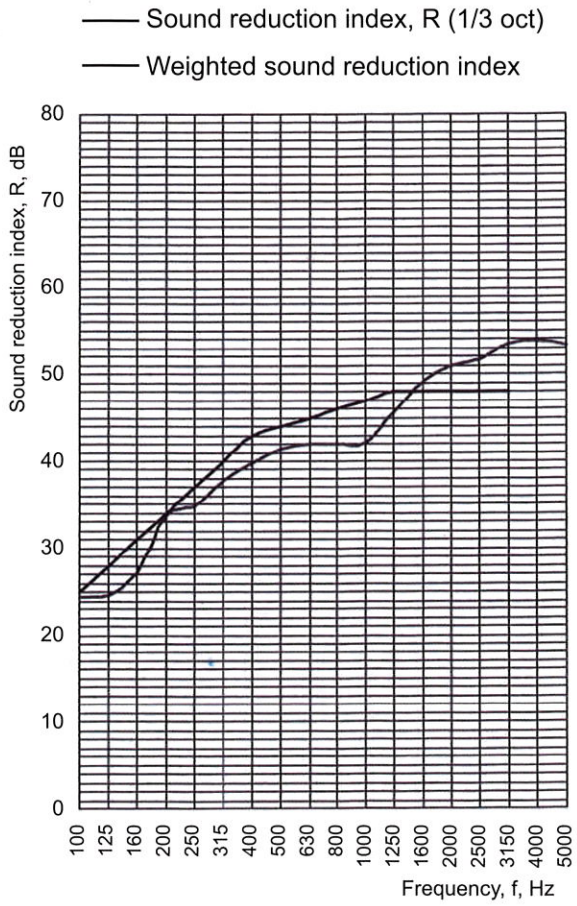
The acoustic rating of the modified doorset with door leaf thickness from 54mm to 45mm will be assessed. The performances of the modified doorset are tested with the requirement of ISO 140-3:1995 (E) and ISO 717-1:1996 Rw rating.

Acoustic, Fire-Rated and Insulation Door System

The Forbes range of steel doorsets has been used mineral or honeycomb cores to meet specific acoustic performance requirements whilst also providing fire resistance and smoke containment properties. Timber doorsets with high quality veneer finishes are used to ensure best performance and aesthetically satisfying. Our acoustic doorsets are the necessary elements to finish every kinds of acoustic insulation.

Wide range of models, standardise or tailor-made, with acoustic seals included in our doorsets are provided to meet your acoustic, fire-rated and insulation needs.

The Sound Reduction Index is given as:

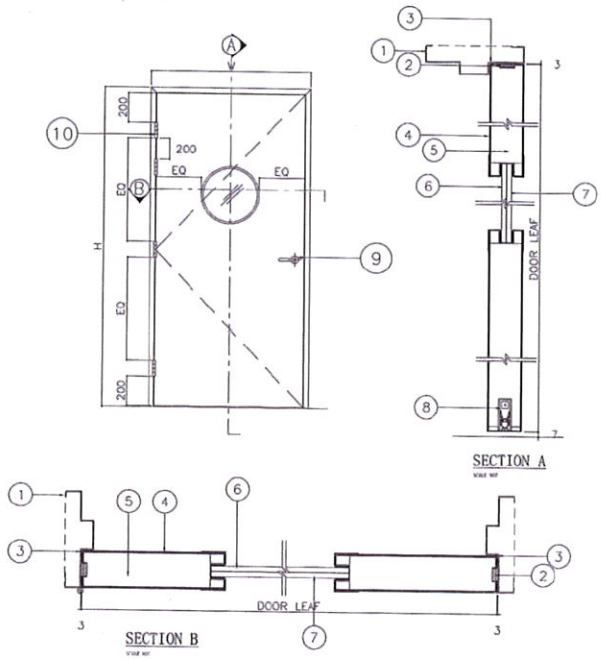


Following the international trend, the acoustic performance of door assemblies is a must and minimum requirement of 29 RwdB is stated. Our single and double leaf door configurations will enable to achieve at least 44 RwdB.

Applications for Separating	STC	Rw
Office Building	40dB	41dB
Hotel	43dB	44dB
Hospital	43dB	44dB
Classroom	43dB	44dB
Recreation Area	43dB	44dB
Music Rehearsal Area	60dB	60dB

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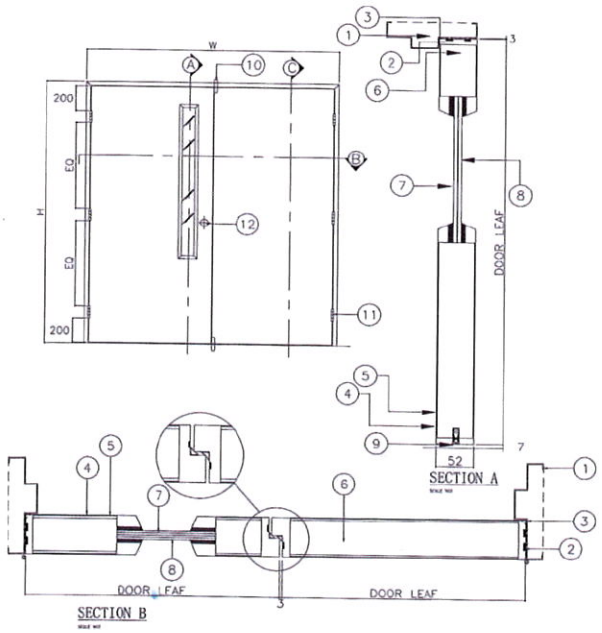
Steel Structure (Typical Single - Leaf)



Specification:

1. Metal Frame
2. Fire Seal
3. Batwing Acoustic and Smoke Seal
4. 1mm Steel Plate
5. "FORBES" Steel Door Core
6. 5mm Fire Rated Glass Vision Panel
7. 5mm Temper Glass
8. Automatic Drop Seal
9. Handle
10. Hinge

Timber Structure (Typical Double - Leaf)



Specification:

1. Metal Door Frame
2. Fire Seal
3. Batwing Acoustic and Smoke Seal
4. 1mm Plastic Laminated Sheet
5. 3mm MDF Board
6. "FORBES" Timber Door Core
7. 5mm Fire Rated Glass Vision Panel
8. 5mm Temper Glass
9. Automatic Drop Seal
10. Flush Bolt
11. Hinge
12. Door Lock

Forbes Door Type

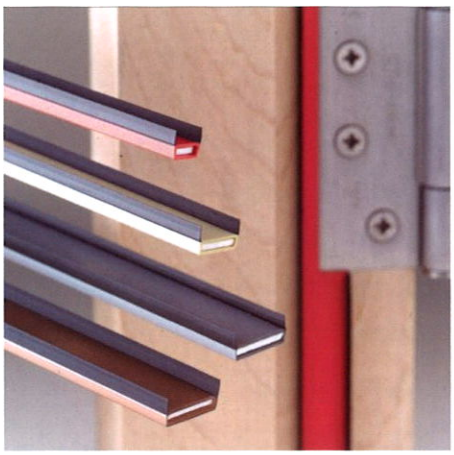
- Single Leaf
- Double Leaf
- Vision Panel
- Unequal Leaf

Typical Applications

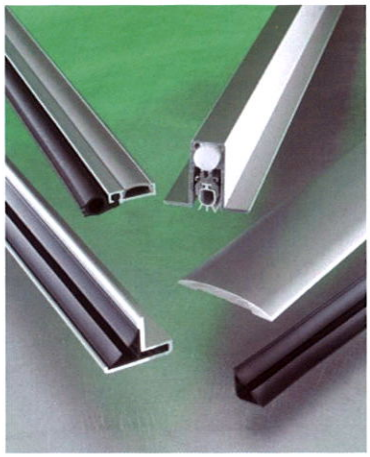
- Control Rooms
- Music Rehearsal Areas
- Special Industrial Needs
- Audiometry Suites
- Broadcasting Recording Studios
- Hotel and Hospital
- Office Building

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Acoustical Seal System

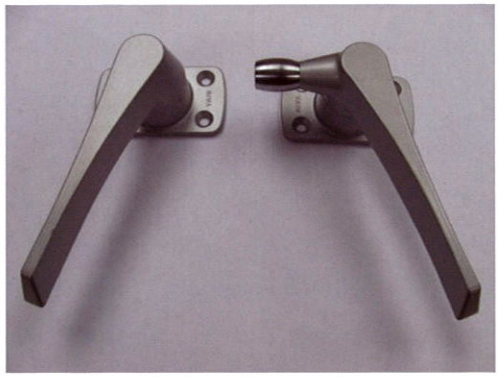


Lorient LP1004DS & LP2004DS
Fire, Acoustic and Smoke Seal



Lorient IS1212 Batwing & IS8010si
Automatic Threshold

Roller Tightening / Soundproofing Handle



Ironmongery / Hardware

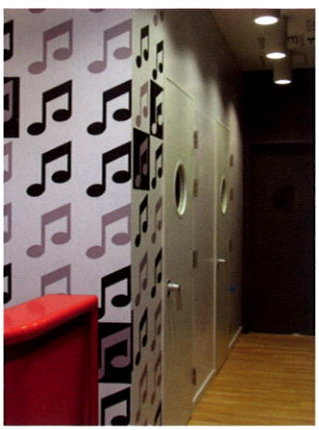
Depending on the size and location, doors could be supplied with variety of door hardware (Hinges, Closers, Locksets, etc.), giving more flexibility for design and application needs.

Acoustic and Fire Testing

All doors are extensively tested under an accredited laboratory in complicance with fire testing standard of BS476:Part 22:1987.

The measurements were carried out according to ISO 140-3:1995 (E) "Acoustics - Measurement of sound insulation in buildings and of building elements - Part 3 Laboratory measurements of airborne sound insulation of building elements" (equivalent to BS 2750 Part 3 : 1995). And the single-figure quantity for airborne sound insulation rating was evaluated in accordance with ISO 717-1:1996.

Job Reference:







...For more technical issue, please contact...

