

Noise-Lock[®] Doors

Architectural high performance
acoustic doors

- Certified performance
- Steel construction
- Standard and custom sizes
- In house design, manufacture and installation
- Fire, blast and security rating options available
- Over 60 years experience



Noise-Lock®

High performance doorsets to suit a wide range of applications

IAC Acoustics is a global supplier of high-performance steel acoustic doors with over sixty years of experience in solving issues relating to noise isolation and containment. IAC offers a wide range of standard models, plus the ability to custom design and manufacture doors to suit specific applications.

Over one million Noise-Lock® acoustic door sets have been installed in industrial and commercial buildings throughout the world. Typical applications include hospitals, hotels, schools, offices, broadcasting studios, nightclubs, museums, test cells, laboratories, plant rooms, and power stations — in fact virtually any situation where sound must be contained within or excluded from a room or building.

Engineered and Factory Assembled Advantages

IAC Acoustics produces an engineered system — factory assembled complete with a leaf, split-frame, seals, hinges and hardware. All doors are pre-hung for operational alignment, fit and finish before shipping.

Noise-Lock® Doors are laboratory-tested for performance in both IAC R&D facilities and independent laboratories, further supported by installed site testing. IAC Acoustics is renowned for quality, durability and guarantees in-field performance.

Noise-Lock® Range

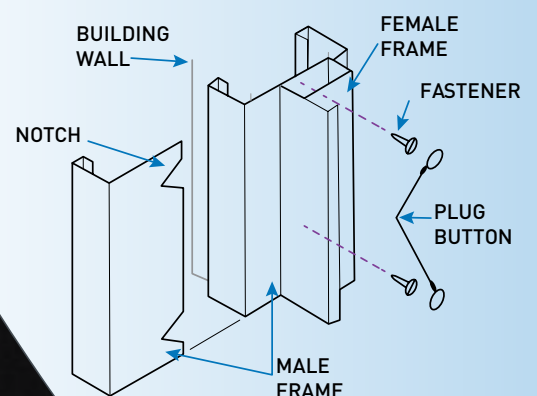
- Single leaf
- Double leaf
- Fire rated
- Link
- Glazed
- Hatches

Features Available

- Blast / ballistic resistance
- Radio frequency shielding
- Electrical operation

Acoustic Performance

- STC-51 / Rw 50 to STC-64 / Rw 63



Performance and Flexibility

IAC Acoustics offers a comprehensive range of products designed for architectural, industrial and security applications.

IAC Acoustics' Noise-Lock® doors feature:

- Performance ratings from STC-51 / Rw 50 to more than STC-64 / Rw 63
- Design flexibility with all doors available in standard and custom sizes or designs
- Multiple sized options of vision panels, supported with laboratory test data
- Wood facing or wood effect digital print finish options
- High-performance doors for both architectural and industrial applications
- BS and EN fire ratings available
- Blast-resistance ratings up to 3psi
- Radio frequency shielding up to 100dB
- DDA (UK) compliance
- Industry leading fabrication times and quick-ship programs



High Performance Features

IAC Acoustics' features high-performance functionality including:

- Self-aligning magnetic seals assure long life and high field performance, even under constant use
- Cam-lift hinges lower and seal the door to the floor eliminating the high-maintenance of automatic drop seals
- Split frames eliminate in-field grouting to achieve the specified acoustic performance and provide quick and clean installation times

Acoustic Performance

Door Model	Acoustic Rating				Leaf Thickness	Octave Band Centre Frequency								Weight
	Rw	R'w	STC	NIC		63	125	250	500	1k	2k	4k	8k	
Sound Transmission Loss, dB														
For acoustic performance <50dB, please see IAC Acoustics' range of Noishield Doors														
Noise-Lock® D-50	50	45	51	46	64mm / 2½"	22	26	46	50	52	52	58	51	44kg/m²
Noise-Lock® D-52	52	47	53	48	64mm / 2½"	23	30	47	52	54	52	57	55	54kg/m²
Noise-Lock® D-53	53	48	54	49	89mm / 3½"	23	32	52	53	53	52	62	≥62	78kg/m²
Noise-Lock® D-59	59	54	61	56	89mm / 3½"	-	33	54	58	60	62	69	-	80kg/m²
Noise-Lock® D-63	63	58	64	59	127mm / 5"	-	40	56	61	64	66	70	-	88kg/m²

Complementary Products

In addition to doors, IAC Acoustics offers a range of other components that integrate seamlessly to form larger and more complex noise control systems. These products include Moduline™, IAC's modular acoustic construction panel system and Noise-Lock® acoustic windows.

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