Noise-Lock® Doors

Architectural High-Performance Acoustic Doors

- Certified performance
- Steel construction
- Standard and custom sizes
- Pre-hung and fully factory assembled
- UL fire, blast and security rating options available
- Over 60 years experience
- Wood veneer and powder coat finishes

iac acoustics
A DIVISION OF SOUND SEAL

Noise-Lock®

High-performance doorsets to suit a wide range of applications

IAC Acoustics is a leading supplier of high-performance steel acoustic doors with over sixty years of experience in solving issues relating to noise isolation and containment. IAC Acoustics 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 — fully 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 independent laboratories, further supported by installed site testing. IAC Acoustics is renowned for quality, durability and guarantees in-field performance.

Noise-Lock® Range

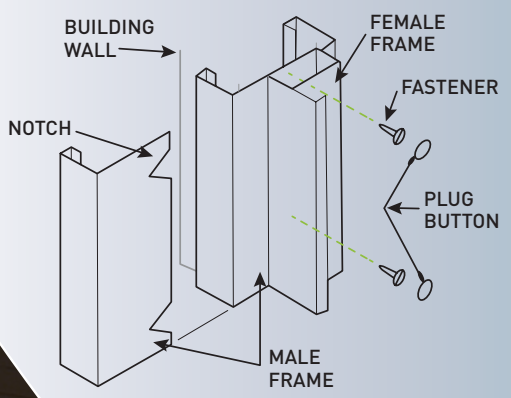
- Single leaf
- Double leaf
- Fire rated
- Link
- Glazed
- Hatches

Features Available

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

Acoustic Performance

- STC-51 / Rw50 to STC-64 / Rw63



Performance and Flexibility

IAC Acoustics offers a comprehensive range of high-performance products designed for architectural, industrial and security applications. IAC Acoustics' Noise-Lock® doors feature:

- Performance ratings from STC-51 / Rw50 to more than STC-64 / Rw63
- 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 veneer and powder coat finish options
- UL fire ratings available
- Blast-resistance ratings up to 3psi
- Radio frequency shielding up to 100dB
- Security rated SCIF that meets ICD 705, JAFAN 6/9 and TEMPEST requirements
- ADA compliance
- Industry leading fabrication times and quick-ship programs

High-Performance Features

- 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

TYPE	Acoustic Rating		1/3 OCTAVE BAND CENTER FREQUENCY, HZ																			Test Report (Year)	THK Inches (mm)	WT lb/ft² (kg/m²)	Seals
	STC	Rw	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000				
			SOUND TRANSMISSION LOSS, DB																						
SWINGING DOOR	43	–	23	12	18	23	31	38	43	42	41	41	42	43	42	43	44	43	45	49	51	815-29-95 (1995)	1-3/4 (45)	8 (39)	a
	51	50	24	20	23	28	37	44	47	49	48	50	53	52	53	52	51	51	54	58	59	815-19C (1994)	2-1/2 (64)	9 (44)	b
	53	52	22	24	27	31	42	47	47	48	50	53	54	54	54	53	51	51	53	57	58	815-17 (1994)	2-1/2 (64)	11 (54)	b
	54	53	21	28	28	40	48	52	51	52	52	54	55	55	54	51	51	51	54	59	63	815-23h (1994)	3-1/2 (89)	16 (78)	b
	55	–	21	28	29	40	48	50	51	53	53	54	55	56	56	55	53	52	53	58	61	815-20L (1994)	3-1/2 (89)	16 (78)	b
	61	59	22	28	28	41	51	54	53	55	55	60	62	60	60	61	61	62	64	66	69	815-23G (1994)	3-1/2 (89)	16 (78)	c
	64	63	24	32	36	44	51	53	58	58	59	62	63	63	65	66	65	66	67	70	70	815-24 (1994)	5 (127)	18 (88)	d
FULL GLASS	52	–	22	22	29	36	41	40	43	44	49	50	50	52	53	53	54	56	56	58	62	1079-15-05 (2005)	2-1/2 (64)	16 (77)	b
	55	–	22	26	29	35	42	44	48	50	51	51	52	54	55	56	57	59	63	65	68	1079-19-06 (2006)	3-1/2 (64)	19 (92)	c
	NIC		NOISE REDUCTION, DB																						
SLIDING	54	–	–	–	–	45	45	45	45	49	49	49	52	52	52	60	60	65	65	65	63	72-0365-S (1984)	6 (152)	24 (118)	e
	62	–	–	–	–	47	46	51	55	57	59	56	59	64	63	63	>65	>65	>65	>65	>65	72-0732 (1990)	8 (203)	50 (245)	f

IAC Acoustics Seal System: a) single magnetic; **b)** double magnetic; **c)** magnetic tri-seal; **d)** magnetic compression tri-seal; **e)** automatic pneumatic; **f)** automatic labyrinth compression

USA - North Aurora, IL
T: +1 (630) 270 1790
F: +1 (630) 966 9710
E: iacacoustics@soundseal.com

www.iacacoustics.com