



# Industrial Doors

NOISE-LOCK® | SUPER NOISE-LOCK®





# Noise-Lock®

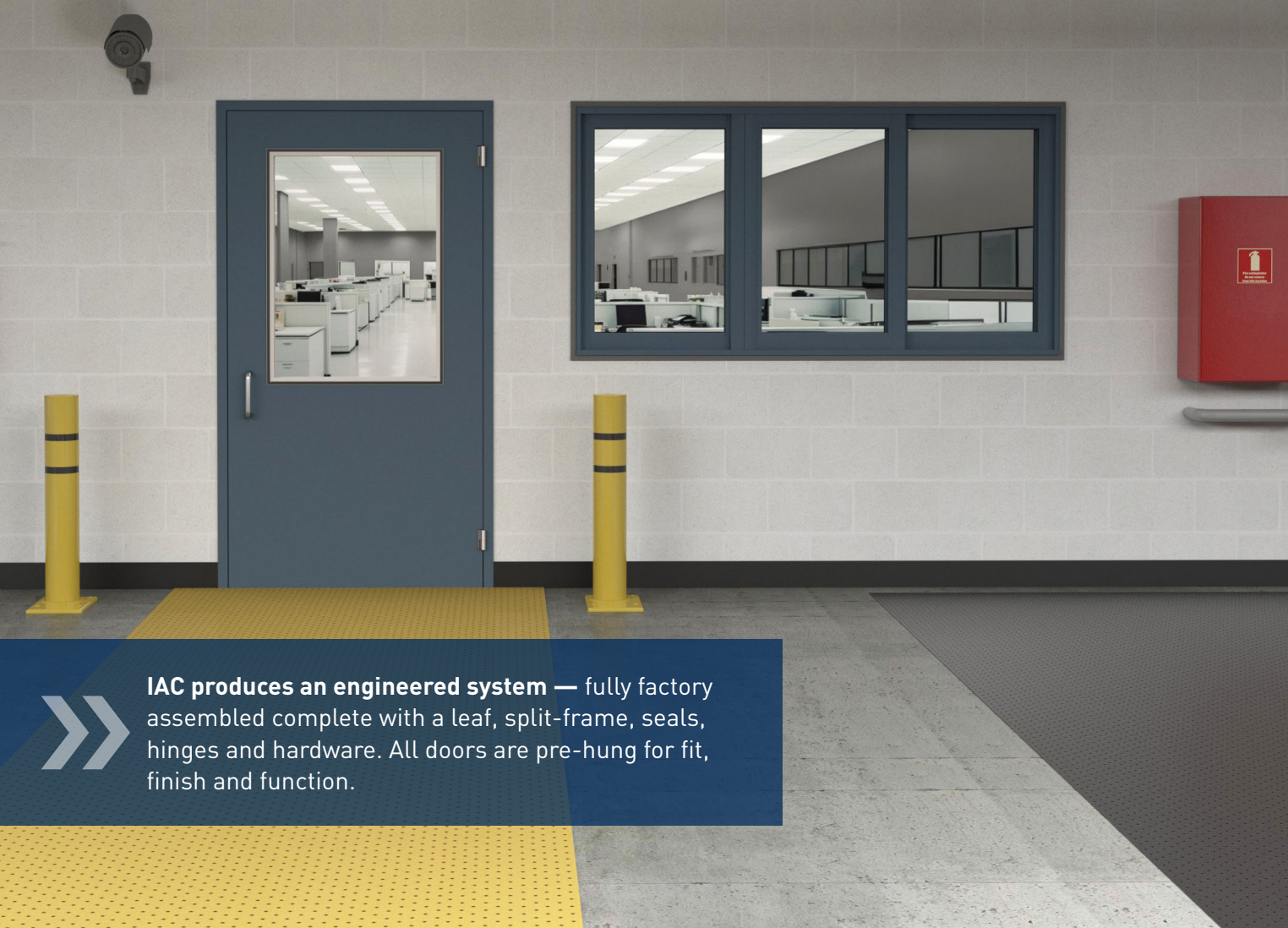
HIGH-PERFORMANCE ACOUSTIC DOORS



IAC Acoustics is a leading supplier of high-performance steel acoustic doors with over 70 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.

## Typical Applications

- Acoustic Enclosures
- Anechoic Chambers
- Hemi Anechoic Chambers
- Reverberation Rooms
- Dynamometer Test Cells
- Laboratories
- Plant Rooms
- Power Stations
- Automotive Test Enclosures
- NVH Test Enclosures
- Plant Offices
- Barrier Walls
- Standalone Doors for Existing Walls



**IAC produces an engineered system** — fully factory assembled complete with a leaf, split-frame, seals, hinges and hardware. All doors are pre-hung for fit, finish and function.

### Standard Features

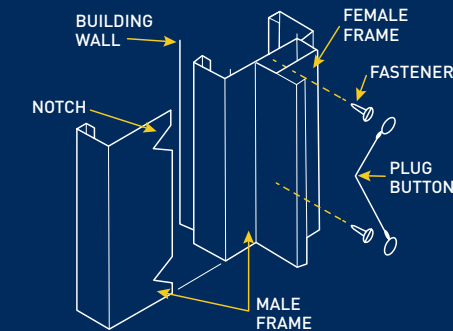
- Guaranteed acoustic performance
- Steel construction
- Pre-hung and fully factory assembled
- Standard and custom sizes
- Powder coat finishes
- Self-aligning magnetic seals assure long life and high field performance
- Cam-lift hinges lower and seal the door to the floor eliminating the high-maintenance of automatic drop seals
- Split frames eliminate in-field grouting to achieve the specified acoustic performance and provide quick and clean installation times
- Performance ratings from STC-43 to more than STC-64

### Available Options

- Blast-resistance options available
- Ballistic options available
- Radio frequency shielding up to 50 dB
- ADA compliance
- UL fire ratings
- Electrical operation
- Multiple sized options of vision panels, supported with laboratory test data

### Noise-Lock Configurations

- Single Leaf
- Double Leaf
- Tri Leaf
- Quad Leaf



**POWDER COAT**  
FINISHES AVAILABLE



Wide variety of standard and custom powder coat finishes



Noise-Lock Door shown in IAC's  
Macrodyne® Hardliner VRT™ Room —  
**CHECK OUT THE VIDEO**





IAC's proprietary cam lift hinge



Split frame assembly

## Acoustical Performance

TYPE	Acoustic Rating		1/3 OCTAVE BAND CENTER FREQUENCY, HZ																		Test Report (Year)	THK Inches (mm)	WT lb/ft <sup>2</sup> [kg/m <sup>2</sup> ]	Seals	
	STC	Rw	SOUND TRANSMISSION LOSS, DB																						
	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000						
SWINGING DOOR	43	-	23	12	18	23	31	38	43	42	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
	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	815-236 (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
APR	33	-	22	-	-	22	-	-	28	-	-	39	-	-	33	-	-	31	-	-	35		-	-	-
FULL GLASS	52	-	22	22	29	36	41	40	43	44	49	50	50	52	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
SLIDING	NIC		NOISE REDUCTION, DB																						
	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



IAC Acoustics doors are laboratory-tested for performance in independent laboratories, further supported by installed site testing. IAC Acoustics is renowned for quality, durability and guaranteed in-field performance.



# Super Noise-Lock<sup>®</sup>

OVERSIZED HIGH-PERFORMANCE ACOUSTIC DOORS

## Super Noise-Lock Configurations

- **Swing Door**  
(single, double, tri and quad-leaf)
- **Horizontal Slide Door**  
(single slab or bi-parting)
- **Vertical Lift Door**

## Typical Applications

- Stage Doors
- TV & Movie Sets
- Theater Backstage
- Industrial and Automotive Testing Facilities
- Anechoic Chambers
- Industrial Enclosures
- Hangers
- Power Generation

## Acoustical Performance

STC 50 (dB) to achieve minimum NIC 45 and STC 55 (dB) to achieve minimum NIC 50 once installed (subject to flanking).

Acoustic Rating	1/3 OCTAVE BAND CENTER FREQUENCY, HZ															
	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000
STC	SOUND TRANSMISSION LOSS, DB															
STC 50 Swing	48	51	50	46	44	47	49	47	49	48	45	47	45	47	46	46
STC 55 Swing	48	44	45	48	51	51	52	50	52	51	50	52	58	59	64	65
STC 55 Sliding	45	45	45	45	49	49	49	52	52	52	60	60	65	65	65	63

## Standard Features

- Field verified performance rating
- Manufactured to custom sizes
- 4" or 6" thick door leaf
- Available with manual or electronic operation
- Cam-lift hinges lower and seal the door to the floor eliminating the high-maintenance of automatic drop seals
- Rugged steel construction
- System eliminates in-field grouting to achieve the specified acoustic performance with quick and clean installation
- Typically utilized when the door size must exceed 14' x 14'
- Glazing options available

## Available Options

- Fire rated construction
- Blast and ballistic ratings
- Noise-Lock (man door) within Super Noise-Lock door as means of egress
- Custom hardware options available
- Security rated SCIF that meets ICD 705
- Electrical operation
- Multiple sized options of vision panels, supported with laboratory test data





» Making the World a Quieter Place™



APR Door shown in IAC's  
Motorcycle Dyno Test Room —  
**LEARN MORE**



[www.iacacoustics.com](http://www.iacacoustics.com)



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