Noise-Lock® Windows

Architectural High-Performance Acoustic Windows



- Certified performance
- Steel construction
- Standard and custom sizes
- Fully factory assembled
- UL fire, bullet and angled pane options available
- Over 60 years of manufacturing



Memtech Acoustics



Noise-Lock®

High-performance acoustic windows to suit a wide range of applications

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

Thousands of Noise-Lock® acoustic windows 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 while still maintaining visibility.

Engineered Advantages

The manufacturer produces an engineered system, custom-designed in-house to suit the required opening of any given project. Utilizing precision sheet steel cutting and state-of-the-art fabrication, all Noise-Lock® windows are simple to assemble on site by highly experienced installation crews.

Noise-Lock® windows are laboratory-tested for performance in independent laboratories, further supported by installed site testing and engineering calculations for custom specifications. The manufacturer is renowned for quality, durability and guarantees in-field performance.

Features

- STC ratings from 35 to 59
- Noise reduction NIC 30 - 54 dB
- Sound absorbing liner: pre-finished
- Factory assembled including glazing
- Fasteners/anchors
- Retrofit fasteners
- Sized to fit any wall thickness
- Integrates with all types of construction (drywall, studs, concrete, masonry)
- Stackable

Glazing Options

- Laminated Safety Glass
- Tempered Safety Glass
- One-Way Vision Mirror
- Non-Reflective, Heat Resistant
- Bullet Resistant
- Polycarbonate
- Wire-Inserted Safety Glass

Performance and Flexibility

The manufacturer offers a comprehensive range of products designed for architectural, industrial and security applications. Noise-Lock® windows feature:

- Design flexibility with all windows available in standard and custom sizes or designs
- Supported with laboratory test data
- High-performance windows for both architectural and industrial applications
- UL fire ratings available
- Bullet resistant glass options available
- Industry leading fabrication times and quick-ship programs



Noise-Lock® "C"-Class vs. All-Con Noise-Lock® Windows

NOISE-LOCK® "C"-CLASS WINDOWS	ALL-CON NOISE-LOCK® WINDOWS
Single glazed: STC 35, STC 39	Single glazed: STC 35, STC 39, STC 41
Double glazed: STC 47, STC 50, STC 53	Double glazed: STC 53, STC 57, STC 58, STC 59
Window trim: aluminum frame with black trim	Frame: cold rolled steel, powder coated
Factory glazed / field assembled	Factory glazed / factory assembled
Horizontal and vertical window configuration	Horizontal and vertical window configuration
Windows cannot be sloped	Windows can be sloped
Size restrictions apply (7' w x 5' h)	Size restrictions apply (8' w x 6' h)
Glass thickness options: 1/4" and 1/2"	Glass thickness options: 1/4", 3/8", 1/2", 3/4" 1-3/16"
Glass options: tinted, mirror, anti-reflective	Glass options: tinted, mirror, bullet resistant, anti-reflective
LEED credit category: materials and resource-recycled content and regional materials	LEED credit category: materials and resource-recycled content and regional materials
LEED credit category: indoor environment - daylight and views	LEED credit category: indoor environment - daylight and views

Acoustic Performance

TYPE	Acoustic Rating	1/3 OCTAVE BAND CENTER FREQUENCY, HZ								Frame Depth Minimum Inches (mm)	Glass Thickness Inches (mm)	Glass Type	Weight lb/ft² (kg/m²)	Test Report
		63	125	250	500	1000	2000	4000	8000					
	STC	SOUND TRANSMISSION LOSS, DB												
SINGLE GLAZED	35	18	24	28	31	35	37	40	41	4 (102)	1/4 (6)	LSG	5 (24)	543-82-2
	39	27	30	33	36	39	42	48	53	4 (102)	1/2 (13)	LSG	8 (39)	VW-549-1-83
DOUBLE GLAZED	53	17	31	40	53	59	62	60	58	8 (203)	1/4 – 1/4 (6 – 6)	LSG – LSG	12 (59)	AC-609-1-87
	57	25	39	47	52	60	68	77	70	10 (254)	1/2 – 1/4 (13 – 6)	LSG – LSG	18 (88)	VW-587-1-86
	58	29	42	47	55	64	63	63	67	18 (457)	1-3/16 – 1/4 (30 – 6)	BRG – LSG	27 (132)	AC-654-89
	59	29	42	50	55	59	70	78	72	10 (254)	1/2 – 3/8 (13 – 9.5)	LSG – LSG	20 (98)	VW-586-1-85

LSG: Laminated Safety Glass **BRG:** Bullet Resistant Glazing
Tested in accordance with ASTM E 90

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