

PRIVACYSHIELD[®] INDUSTRIAL SOUND ENCLOSURE TECHNICAL DATA SHEET



DESCRIPTION

Contain noise generated from in-plant machinery with our PrivacyShield[®] Industrial Sound Enclosures. These soundproofing enclosures pair our soundproofing curtain panels with durable steel tubing systems to effectively absorb noise energy and sound transmission generated by loud equipment. They offer high STC and NRC acoustical ratings and can be customized to work with many sizes of machinery to address the range of needs each industrial setting demands. Options include interior or exterior grade materials and silicone-facing for high-temperature applications. They can be built as either partial or complete surrounds, can be floor- or ceiling-mounted, or include locking casters for applications that require portability. Other design-to-order offerings include blanket colors, door openings, ventilation, and windows.

TECHNICAL CHARACTERISTICS

COLORS:	Black, Grey, Tan, White
FIRE RESISTANCE:	Class A (per ASTM-84)
SIZE:	4'x4'x8' Floor-mounted 8'x8'x8' Floor-mounted 4'x4'x4'x8' Portable 4'x8'x4'x8' Portable Custom Sizes
OPTIONS:	Window, Rooftop Vent, Side Vent, Roof and Valance, Roof and PSA
THICKNESS:	1", 2"
NRC:	Floor-mounted: 0.70 (ABBC 1"), 0.85 (ABBC 2"), 0.75 (ABSC 2")

MATERIALS:	ABBC-13 — 1" thick vinyl-faced quilted fiberglass absorber bonded to a 1 lb. psf reinforced mass loaded vinyl barrier
	ABBC-13-2 — 2" thick vinyl-faced quilted fiberglass absorber bonded to a 1 lb. psf reinforced mass loaded vinyl barrier
	ABSC-25 — 1" thick vinyl-faced quilted fiberglass absorber on both sides of a 1 lb. psf mass loaded vinyl noise barrier septum



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FEATURES

- Economical alternative to rigid metal enclosures
- Built for durability and extended use in extreme industrial settings
- Rigid roof panels available for maximum noise reduction
- Panels can be cut on-site to work around obstacles
- CAD drawings provided with every order
- Short lead times and expedites available
- Modular system allows units to be joined together for a variety of configurations
- Cost-effective installation
- Panel overlap can be sealed for optimal performance
- Can be used as separator walls and partitions between noise sources

COMMON MACHINE APPLICATIONS

- Generators
- Compressors
- Presses
- Pumps
- Blowers
- Fans
- Granulators
- Presses
- Test Chambers

SOUND ABSORPTION (NOISE REDUCTION COEFFICIENT) – FLOOR-MOUNTED ENCLOSURE

Product / Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC
ABBC / 1"	0.12	0.47	0.85	0.84	0.64	0.62	0.70
ABBC / 2"	0.07	0.27	0.96	1.13	1.08	0.99	0.85
ABSC / 2"	0.45	0.96	0.87	0.66	0.47	0.30	0.75
ABBC / 4"	0.24	0.89	1.09	1.17	1.13	1.07	1.05

Per ASTM C 423

SOUND BLOCKING (SOUND TRANSMISSION COEFFICIENT) – FLOOR-MOUNTED ENCLOSURE

Product / Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	STC
ABBC / 1"	11	16	24	30	35	35	27
ABBC / 2"	13	20	29	40	50	55	32
ABSC / 2"	12	16	27	40	44	43	29

Per ASTM E 90



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Portable Enclosure

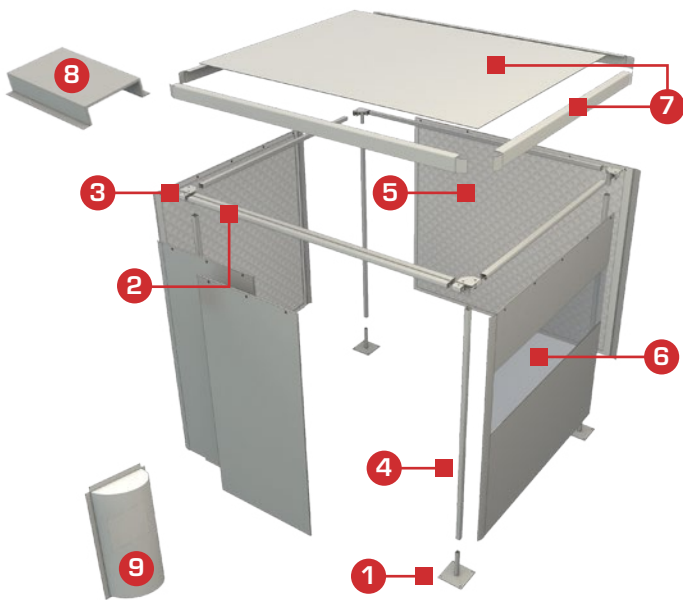
SOUND BLOCKING (SOUND TRANSMISSION COEFFICIENT) – PORTABLE ENCLOSURE

Product / Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	STC
ABBC / 1"	11	16	24	30	39	43	27
ABBC / 2"	13	20	29	40	50	40	32
ABSC / 2"	12	16	27	40	44	47	29

Per ASTM E 90



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FLOOR-MOUNTED ENCLOSURE (4-SIDED)

AVAILABLE SIZES | 4' x 4' x 8' high | 8' x 8' x 8' high

- 1 Base Plates
- 2 Double Track for Access
- 3 Corner Connectors
- 4 Columns
- 5 ABBC-13-2 or ABSC-25 Panel
- 6 **Option:** Clear Vinyl Full Width Window (24" High)
- 7 **Option:** Roof with Valance
- 8 **Option:** Roof Top Vent Baffle
- 9 **Option:** Side Vent Baffle

PORTABLE ENCLOSURE (3-SIDED)

AVAILABLE SIZES | 4' x 4' x 4' x 8' high | 4' x 8' x 8' x 8' high

- 1 Built-in Locking Casters
- 2 Rugged Tubular Steel Frame
- 3 ABBC-13-2 or ABSC-25 Panel
- 4 **Option:** Clear Vinyl Full Width View Window (24" High)
- 5 **Option:** Roof
- 6 **Option:** Roof Top Vent Baffle
- 7 **Option:** Side Vent Baffle

