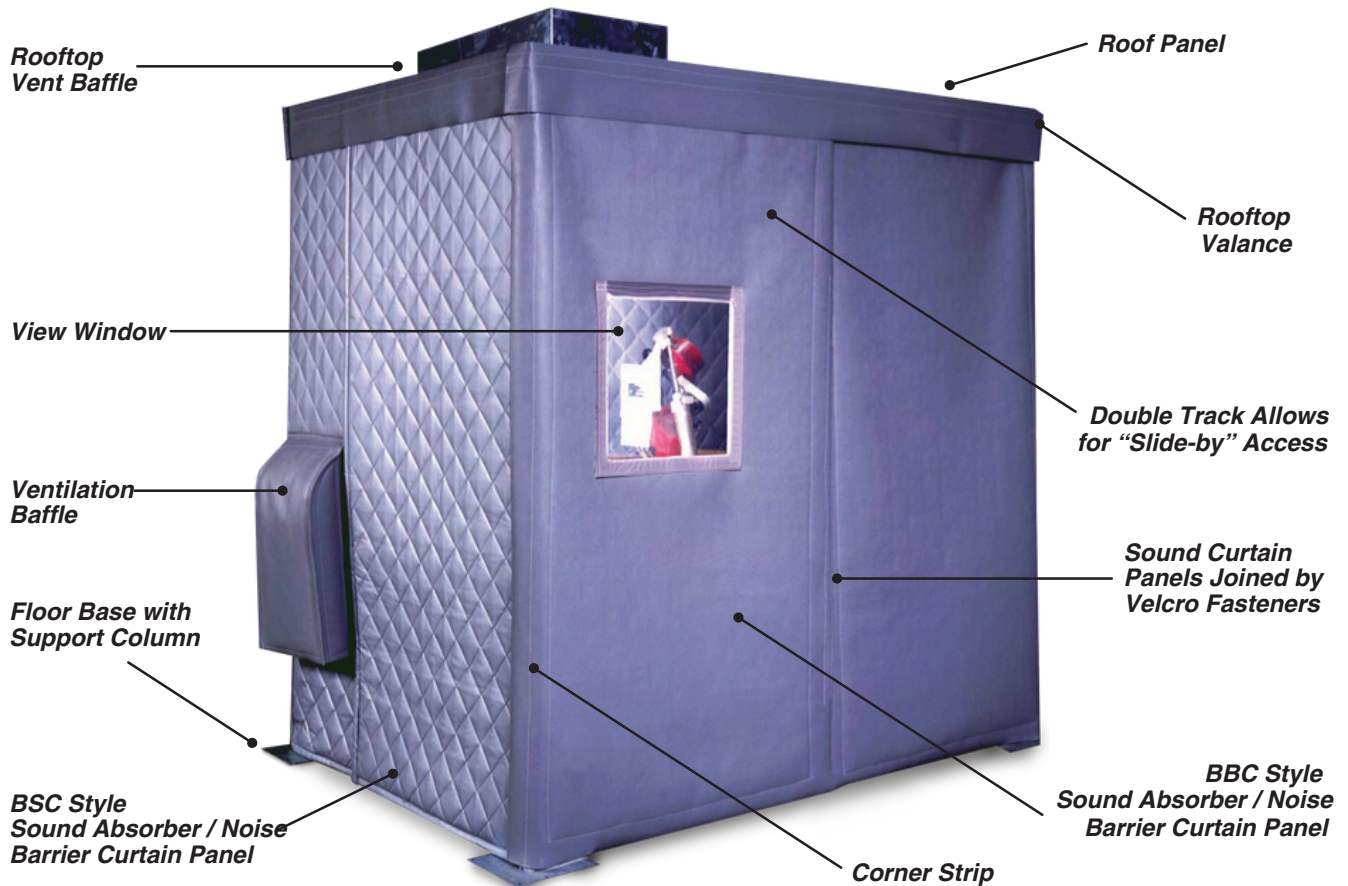


# INDUSTRIAL NOISE BARRIERS

Acoustical • Removable • Adaptable



## SOUND CURTAIN ENCLOSURE

### IN-PLANT NOISE CONTROL APPLICATIONS:

*SMG's sound curtain systems offer significant noise reduction with high STC and NRC acoustical ratings. They can be supplied as a partial or complete enclosure around noisy industrial equipment including:*

• COMPRESSORS • PUMPS • GENERATORS • BLOWERS • FANS • GRANULATORS • PRESSES

*Also suitable for larger complete enclosures including:*

• MANUFACTURING EQUIPMENT • TEST CHAMBERS • MACHINERY ENCLOSURES



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IN ADDITION TO VERY EFFECTIVE, HIGH-PERFORMANCE SOUND CURTAIN PANELS, A SUCCESSFUL, FUNCTIONAL ACOUSTICAL ENCLOSURE OFTEN REQUIRES A WIDE ARRAY OF FEATURES AND OPTIONS ALLOWING FOR EQUIPMENT ACCESS, VISIBILITY AND VENTILATION.

- **Modular panels join together to form any configuration required:**

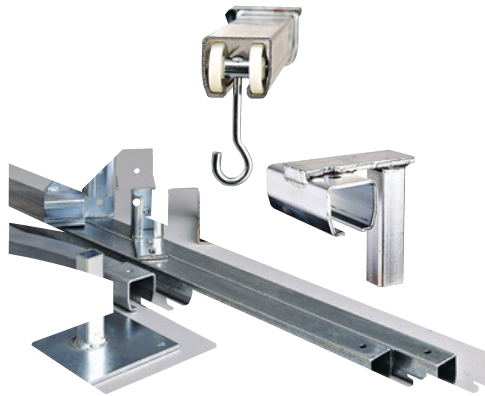
- 2 Sided partial enclosures
- 3 Sided partial enclosures
- 4 Sided full enclosures
- 4 Sided full enclosures with roof

- **Framing systems are available for floor mount, wall mount, ceiling mount or suspended by threaded rod**

- **A variety of framing systems are available including a heavy structural steel frame system for large enclosures**

- **Double track systems available for slide by access. Every panel can be a door.**

- **Durable construction for long service life in even severe industrial conditions**



TRACK & HARD WARE

- **Rigid roof panels are available for maximum noise reduction**

- **Clear vinyl windows are available for visibility and can be sewn on or removable**

- **Side air intake vent baffles allow air into the enclosure without compromising acoustical performance**

- **Roof top vent baffles made from rugged sheet metal are lined with sound absorption material**

- **Curtain panels can be field cut to work around obstacles**

- **Easy to install, relocate or modify**
- **CAD drawings provided with every order**
- **Short lead time even for custom enclosures and expedites available if needed even faster**

- **Economical alternative to rigid metal acoustical enclosures**

Can be used as partition dividers, noise barrier walls or hood or shroud covers



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# INDUSTRIAL NOISE BARRIERS

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## SDHD-13 BARRIER BACKED COMBINATION

- *Modular acoustical curtain panels feature grommets at top, velcro fasteners along each edge*
- *Sound absorptive quilted fiberglass on one side of reinforced mass loaded barrier material*
- *Reinforced barrier back offers excellent durability and abuse resistance*
- *Utilized as fixed panels and sliding doors on acoustical curtain enclosures*
- *Suitable for outdoor applications*
- *Custom fabricated for “acoustical jackets” on blowers, fans or compressor housings*
- *Also available in bound or unbound rolls*
- *STC ratings up to 37, NRC ratings up to 1.05*
- *Class A flammability rating (per ASTM E- 84)*



## SDHD-25 BARRIER SEPTUM COMBINATION

- *Sound absorptive faced quilted fiberglass (gray, white, tan or black) on both sides of loaded vinyl noise barrier material*
- *Modular acoustical curtain panels feature grommets at top, velcro fasteners along each edge*
- *Utilized as perimeter walls, separator walls, or divider partitions between noise sources*
- *Utilized as absorber/barrier composite liner in enclosures, rooms or buildings*
- *Outer layer of quilted fiberglass adds additional sound absorption to environment*
- *Also available in bound or unbound rolls*
- *STC ratings up to 33, NRC ratings up to .85*
- *Class A flammability rating (per ASTM E-84)*



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# INDUSTRIAL NOISE BARRIERS

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## ACOUSTICAL DATA



The most effective noise reduction products combine both sound absorption and noise barrier properties. Tested under strict compliance to appropriate ASTM standards, we offer the following results:

Sound Transmission Loss (dB) per Octave Band Frequency									
SMG Model #	THK.	WT.	125	250	500	1000	2000	4000	STC
SDHD-13-2	2"	1.5	13	20	29	40	50	55	32
SDHD-13	1"	1.3	11	16	24	30	35	35	27
SDHD-13-2 LB 2"	2.5"	2	19	25	33	46	53	58	37
SDHD-25	2"	1.5	12	16	27	40	44	43	29
SDHD-25-2 LB	2"	2.5	19	22	28	40	56	61	33
SDRP - Roof Panel	2"	2	18	24	28	37	45	46	31

Per ASTM E 90

Sound Absorption Data – Absorber Component Random Incident Sound Absorption Octave Band Center Frequencies (Hz)								
Product	THK.	125	250	500	1000	2000	4000	NRC
SDHD-13	1"	.12	.47	.85	.84	.64	.62	.70
SDHD-13-2	2"	.07	.27	.96	1.13	1.08	.99	.85
SDHD-25	2"	.45	.96	.87	.66	.47	.30	.75
SDHD-13-4	4"	.21	.89	1.09	1.17	1.13	1.07	1.05

Per ASTM C 423

Flammability Ratings			
Product	Descriptor	Flame Spread	Smoke Developed
SDHD-25	Vinyl faced 1" quilted fiberglass on both sides of a 1 lb. PSF non-reinforced loaded vinyl barrier septum	23	30
SDHD-26	Silicone faced 1" quilted fiberglass on both sides of a 1 lb. PSF non-reinforced noise barrier septum	4	19
SDHD-24	Scrim faced 1" quilted fiberglass on both sides of a 1 lb. PSF non-reinforced noise barrier septum	5	1
SDHD-13-2	Vinyl faced 2" quilt on one side of a 1 lb. reinforced loaded vinyl noise barrier	23	12
SDHD-13	Vinyl faced 1" quilt on one side of a 1lb. reinforced loaded vinyl noise barrier	23	30

Above table shows flame spread and smoke developed ratings per ASTM Designation E84; Surface Burning Characteristics of Building Materials. Note: Class A rating applies to products with a flame spread index of 25 or less, and a smoke developed index of 450 or less. Additional products tested to ASTM E 162 and ASTM E 662, test reports available on request.

## ALSO AVAILABLE:



Panels & Roll Goods



Die Cut Parts



Custom Acoustical Jackets & Covers



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