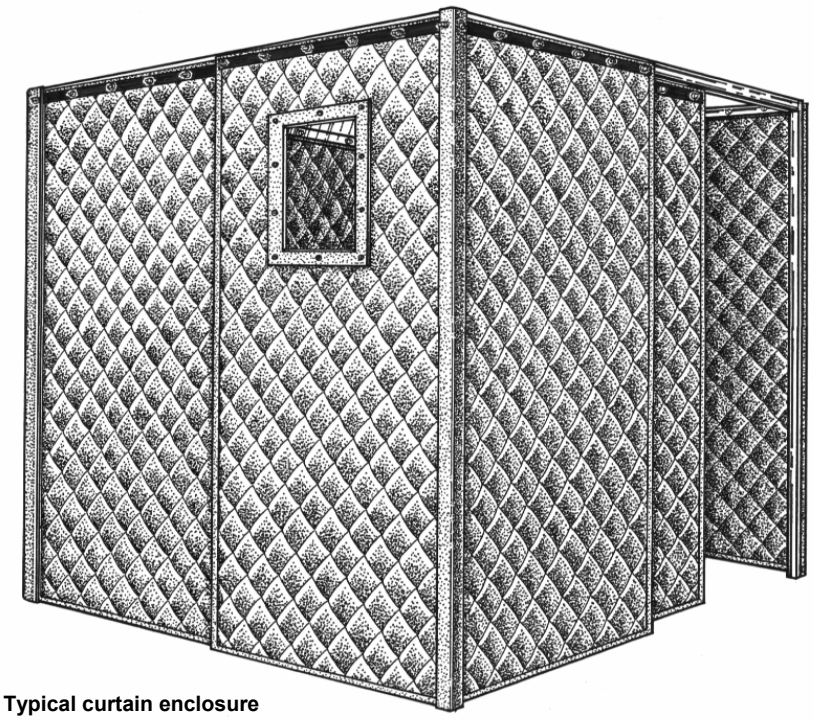
AcoustiGuard™ Quilted Barrier/Absorber Curtain Panels

AcoustiGuard™ Quilted Barrier / Absorber Curtains are high quality noise control curtains that combine the properties of a limp, high mass acoustic barrier and durable quilted sound absorbing facings.



Typical curtain enclosure with slider door and viewing port.

This combination of barrier / absorber layers provides superior transmission loss with reduced noise levels even on the 'noise' side of the curtain. Quilted composites are designed to contain and absorb reflected and broadcast noise within enclosed areas and along transmission paths.

Excellent reductions are achieved when the curtains are strategically placed to shield employees from noise sources by surrounding the source itself. Other effective treatments include comfort zones created to isolate work and communication areas from noisy production machinery.
AcoustiGuard™ curtains are an alternate choice to rigid panels and structures which can create access, production or maintenance problems.

CURTAIN COMPOSITION

The most common configuration incorporates a 1 lb. per sq. ft., flexible, loaded vinyl barrier between 2 layers of 1" quilted fiberglass absorbers. An outer facing of fire rated vinyl coated fiberglass cloth provides an extremely durable surface – silver/grey colour standard, beige available. Other styles include a single absorber layer (1" or 2") with a reinforced barrier for extra long panels or applications where one surface must withstand very high contamination or abrasion.

Barriers – Plain 0.5, 1.0 and 2.0 lb. per sq. ft. – Reinforced 1.0 lb. per sq. ft.
Absorbers – 1.0 inch and 2.0 inch quilted fiberglass.
Standard Widths – 54" wide by required lengths – custom widths available to size finish systems.

All edges are bound and come complete with grommets along the top for hanging. Hook & Loop strip fasteners on the sides attach adjoining panels and eliminate gaps and transmission paths. This feature permits quick access to enclosed areas for regular maintenance and machinery operation.
Panels are available with rigid cores for use as enclosure roofs or walls which must support lightweight fixtures or brackets.
AcoustiGuard™ Curtains are highly resistant to most contaminants found in industrial environments and are easily cleaned (may be steam cleaned).

CURTAIN SYSTEMS

AcoustiGuard™ Curtain Panels are typically hung from a pipe frame on 'S' hooks or bolted to threaded stud strips or fabricated frames. Frames can be floor or ceiling supported. Slider track provides fast, easy access and clear-strip doors allow self closing personnel access. Wilrep's proprietary swivel supports used with the slider track allows long curtain sections to be collapsed flat providing large access areas.

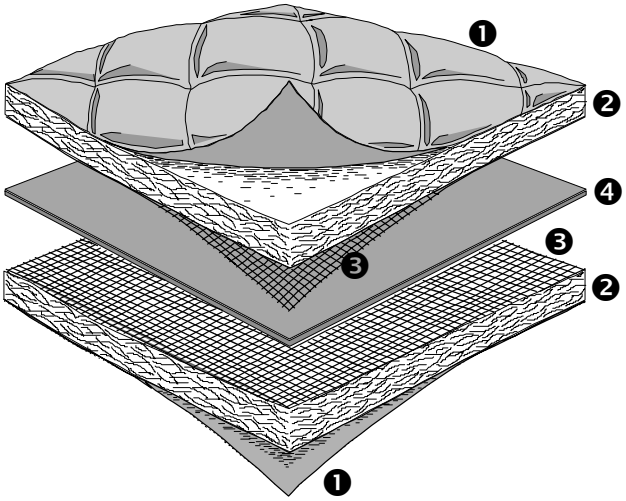
SYSTEM APPLICATION REFERENCE

Data Sheets Available:

BASIC FEATURES & OPTIONS	**3.803**
SLIDER TRACK & HARDWARE	**3.804**
PIPE FRAMES & HANGING HARDWARE	**3.805**

COMPOSITE CROSS-SECTION

Illustration shows the composite layers of AcoustiGuard™ ABA. This is the most common configuration with a 1 lb. per sq. ft. barrier between 2 layers of 1" quilted fiberglass.



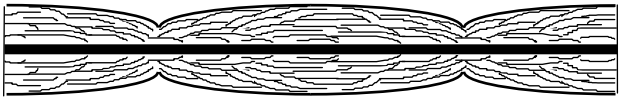
❶ VINYL COATED FIBERGLASS CLOTH
(Silver/Grey colour standard, beige available)

❷ 1" ACOUSTIC GLASS FIBER (quilted with cloth cover)

❸ SCRIM

❹ PLAIN OR REINFORCED FLEXIBLE BARRIER

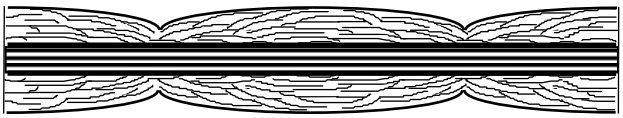
COMMON CURTAIN STYLES



ABA – 1.0 lb. per sq. ft. barrier between two layers of 1" faced quilted fiberglass.

RBA – 1.0 lb. per sq. ft. reinforced barrier with one 1" layer of faced quilted fiberglass.

RBA2 – 1.0 lb. per sq. ft. reinforced barrier with one 2" layer of faced quilted fiberglass.



APA – 0.75 in. rigid plywood core between two layers of faced quilted fiberglass.

AVAILABLE FEATURES

- Windows or view ports.
- Slide-away panels or doors.
- Clear-strip and barrier-strip doorways.
- Work flow flaps or access panels.
- High abrasion protection.
- Special outdoor, heat or contamination protection.

PERFORMANCE DATA

	Sound Transmission Loss (dB) / Frequency (Hz)						
Model	**125 Hz**	**250**	**500**	**1000**	**2000**	**4000**	**STC**
ABA	12 dB	16	27	40	44	47	**29**
RBA	11 dB	16	24	30	39	43	**27**
RBA2	13 dB	20	29	40	50	55	**32**

	Absorption Coefficients / Frequency (Hz)						
Model	**125 Hz**	**250**	**500**	**1000**	**2000**	**4000**	**NRC**
ABA	.12	.47	.85	.84	.64	.62	**.70**
RBA	.12	.47	.85	.84	.64	.62	**.70**
RBA2	.38	.89	.82	.76	.53	.35	**.75**

FLAMMABILITY

Model ABA	ASTM E84 Class 1	Passes
Model RBA, RBA2	MVSS # 302	Passes
	Self-Extinguishing / No Burn Rate	

ADDITIONAL CONSIDERATIONS

The open top configuration of a curtain enclosure permits airflow & mechanical / electrical transference and does not interfere with lighting or sprinkler systems. Further noise reduction can be achieved by treating the reflective roof area directly above the enclosure's open top with an array of **AcoustiGuard™ Noise Absorption Baffles.** This additional component can minimize any upwardly broadcast noise that could reflect off the ceilings' surface and descend into adjacent areas. ***Refer to AcoustiGuard™ Data Sheet 3.242 – AcoustiGuard™ Noise Absorption Baffles.***

For complete application assistance contact direct,

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