

Model QCC (Quilted Curtain Composites)

NSTI manufactured QCC Noise Control Curtain Enclosures combine a high mass noise barrier in conjunction with a lightweight acoustical fiberglass quilt absorber. Quilted Curtain Composites are designed to both contain and absorb noise or to act as a moveable barrier between noisy and quiet areas. Standard curtain panels are 54" wide in lengths of up to 25'0". Each curtain panel is furnished with velcro type closures along the entire length of each edge, and grommets along the top.

NSTI noise control curtains are available from 1/2 to 2 1/2 PSF surface weight and can provide an average increase in sound transmission loss up to **61 decibels depending on noise frequency**. The systems are typically used for applications where accessibility, toughness, and oil & chemical resistance are required.

Framing systems for curtains incorporate 1 5/8" x 1 5/8" 12 gauge rolled channel that can be self-supporting or ceiling suspended. Curtain panels using a two-wheel steel trolley system allows easy access from any point. When limited or no access is required, mechanical fasteners provide an economical alternative.



Applications:

- ◆ Enclosures for noisy equipment
- ◆ Plant dividers
- ◆ Moveable screens
- ◆ Liners for existing walls to increase noise reduction
- ◆ Office cross talk barriers
- ◆ Pipe and duct wrap
- ◆ Overlayment for suspended ceilings
- ◆ Engine housing liners
- ◆ Laminated quilt facing for high pressure fluid applications

NSTI designs custom noise control solutions for your specific applications.

Benefits:

- ◆ **Durable** - Offers oil and chemical resistance.
- ◆ **Economical** alternative to metal enclosures.
- ◆ **Easily Assembled** - No special tools.
- ◆ **High Performance** - Sound Transmission Class (STC) up to 33.
- ◆ **Custom Designs** for your applications.
- ◆ **Maximum Flexibility** - Easily accessible, moveable & reusable. Products can be field modified.
- ◆ **Fire Safe** - Low smoke configurations available.
- ◆ **Specialty Features** - Clearview windows used to view machinery in operation, roof systems, vent kits, enclosure lighting & tracked panels. Product available in finished or roll form.
- ◆ **Cleanable** - May be steamed cleaned.
- ◆ **Outdoor & High Temperature** models are available.



Noise Suppression Technologies, Inc.
Model QCC - Performance Data

All NSTI model QCC Noise Control Products are offered in the following forms: edge bound or unbound roll goods; individually sized and edge bound panels; die cut and edge bound components; finished curtain panels with suspension grommets and velcro type closures.

Framing systems are offered in four standard configurations: Floor Mounted Single track (FMS); Ceiling Mounted Single track (CMS); Floor Mounted Double track (FMD); Ceiling Mounted Double track (CMS). Single track systems are the most economical and are used when little or no access is required inside an enclosure. When access is required, double track systems include steel trollies which allow curtain panels to be rolled behind each other. All standard frame systems use heavy gauge steel and are designed for easy bolt together assembly.



NSTI believes the information contained herein to be accurate as of the publication date. Actual product performance may vary based on specific application conditions.

NSTI Model	Composite Weight Lbs./sq.ft.	Sound Transmission Loss (dB)						
		Frequency (Hz)						
		125	250	500	1000	2000	4000	STC
QCC-5R	0.5	12	13	16	21	27	32	21
QCC-10R	1.0	15	19	21	28	33	37	27
QCC-5Q	0.7	9	11	16	26	37	44	22
QCC-10Q	1.3	11	16	24	30	39	43	27
QCC-10Q-2	1.5	13	20	29	40	50	55	32
QCC-5QQ	1.0	8	14	20	33	43	43	24
QCC-10QQ	1.5	12	16	27	40	44	47	29
QCC-20QQ	2.5	19	22	28	40	56	61	33
QCC-5CV	0.5	8	13	17	22	27	31	20
QCC-10CV	1.0	14	19	23	28	33	37	26

NSTI Model	Barrier Surface Weight	Product Descriptions
QCC-5R	0.5	Reinforced Barrier
QCC-10R	1.0	Reinforced Barrier
QCC-5Q	0.5	Reinforced Barrier
QCC-10Q	1.0	Reinforced Barrier w/ 1" quilting 1 side
QCC-10Q-2	1.0	Reinforced Barrier w/ 2" quilting 1 side
QCC-5QQ	0.5	Non-reinforced Barrier w/1" quilting both sides
QCC-10QQ	1.0	Non-reinforced Barrier w/1" quilting
QCC-20QQ	2.0	Non-reinforced Barrier w/1" quilting both sides
QCC-5CV	0.5	Clearview Barrier
QCC-10CV	1.0	Clearview Barrier

NSTI Model	Absorption Coefficients						
	Frequency (Hz)						
	125	250	500	1000	2000	4000	NRC
QCC-5Q	.12	.47	.85	.84	.64	.62	.70
QCC-10Q	.12	.47	.85	.84	.64	.62	.70
QCC-10Q-2	.38	.89	.82	.76	.53	.35	.75
QCC-5QQ	.12	.47	.85	.84	.64	.62	.70
QCC-10QQ	.12	.47	.85	.84	.64	.62	.70
QCC-20QQ	.12	.47	.85	.84	.64	.62	.70