

Submittal Sheet



QuietZoneTM Quilted Absorber



Description

QuietZone Quilted Absorber is a high performance noise control product. It is versatile, reducing reverberant (reflected) noise energy and is a low cost solution to many noise problems. The product possesses high mechanical strength making it an excellent alternative to urethane foams.

QuietZone Quilted Absorber can withstand a wide temperature range, making it ideal for systems with low or high temperature patterns. The product is easy to clean, impervious to dust, dirt, oils and most chemicals. It will not deteriorate, providing a long service life.

Uses

Owens Corning's *QuietZone* Quilted Absorber is ideal for temporary or permanent applications. The absorbers are flexible and portable.

Features and Benefits

High Performance

QuietZone Quilted Absorber has an NRC up to 0.80 based on the type of wall mount prescribed. (See ASTM C 423 test results below based on mounting type.)

Wide Temperature Ranges

QuietZone Quilted Absorber can withstand temperatures from -20°F to 180°F. An optional high temperature facing carries a continuous service temperature limit of -40° to 400°F.

Environmentally Safe

QuietZone Quilted Absorber contains no lead.

Versatile and Convenient

The product is available in a variety of industrial facings to perfectly fit your application. It is available in rolls, precut panels, die cut parts, bound or unbound edges.

Durable

QuietZone Quilted Absorber is oil and chemical resistant. The product is moisture resistant and will not rot, shrink or degrade.

Maintenance Free

QuietZone Quilted Absorber is virtually maintenance free and can be steam cleaned as needed.

Application

QuietZone Quilted Absorber is an attractive suspended curtain which can be directly applied to a hard reflective wall surface or suspended 1½" off the wall to increase sound absorption characteristics. The product can be used in the following settings:

- Noise absorbing liners for OEM
- Housings and enclosures
- Engine compartment liners
- Absorptive lining for factory walls or other reflective surfaces
- Internal or external linings for low to medium velocity HVAC systems
- Operator labs and control rooms

Sound Absorption Coefficients

Tested in accordance to ASTM C 423-02 within a NVLAP accredited laboratory.

1/3 octave band data available upon request.

Type A Mount (Specimen directly applied to a hard, solid surface.)

Product	125	250	500	Frequency (Hz)		4000	NRC	SAA
	1000	2000						
QZC10Q F/B	0.00	0.28	0.75	0.95	0.60	0.32	0.65	0.65
QZC10Q F/F	0.05	0.05	0.76	0.93	0.59	0.34	0.65	0.63
QZC10Q S/B	0.04	0.25	0.90	0.47	0.23	0.11	0.45	0.46
QZC20Q F/B	0.07	0.63	0.84	0.81	0.62	0.41	0.75	0.71
QZC20Q F/F	0.11	0.79	1.02	0.73	0.50	0.32	0.75	0.74

Nomenclature: F/B – fiberglass cloth facer/scrim backed; F/F – fiberglass cloth facer both sides; S/B – high temperature silicone treated facer fiberglass cloth/scrim backed.

QuietZone™ Quilted Absorber

Sound Absorption Coefficients

Tested in accordance to ASTM C 423-02 within a NVLAP accredited laboratory.

1/3 octave band data available upon request.

Type J Mount (Specimen hung with 1 1/2" air gap between blanket and wall.)

Product	Frequency (Hz)							
	125	250	500	1000	2000	4000	NRC	SAA
QZC10Q F/B	0.05	0.37	0.94	0.87	0.54	0.34	0.70	0.68
QZC10Q F/F	0.10	0.32	0.94	0.74	0.55	0.35	0.65	0.64
QZC10Q S/B	0.02	0.49	0.65	0.43	0.22	0.10	0.45	0.46
QZC20Q F/B	0.09	0.65	0.92	0.83	0.60	0.42	0.75	0.72
QZC20Q F/F	0.11	0.80	1.01	0.77	0.54	0.35	0.80	0.77

Product Description

Product	Quilt Thickness	Standard Width	Roll Length	Facing	Backing
QZC10Q F/B	1"	54"	25'	Standard*	SB Scrim**
QZC10Q F/F	1"	54"	25'	Standard*	Standard*
QZC10Q S/B	1"	54"	25'	High Temperature Silicone ***	SB Scrim**
QZC20Q F/B	2"	54"	25'	Standard*	SB Scrim**
QZC20Q F/F	2"	54"	25'	Standard*	Standard*

* Standard Facing: -20°F to 180°F,

Colors: Grey & Tan (Other colors available in quantity.)

** Spun Bonded Polyester Scrim (SB): 100% Nonwoven polyester

*** High Temperature Silicone Facing: -40°F to 400°F

Surface Burning Characteristics

Tested in accordance to ASTM E 84.

Product	Flame Spread	Smoke Development	Classification
QZC10Q F/B	20	45	Class A
QZC10Q F/F	20	45	Class A
QZC10Q S/B	5	10	Class A
QZC20Q F/B	20	45	Class A
QZC20Q F/F	20	45	Class A

The ASTM E 84 standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment, which takes into account all of the factors, which are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

Flame Propagation Characteristics

Tested in accordance to NFPA 701.

(Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.)

Product	Result
QZC10Q F/B	Pass
QZC10Q F/F	Pass
QZC10Q S/B	Pass
QZC10Q F/B	Pass
QZC10Q F/F	Pass



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