# Submittal Sheet

# QuietZone™ Quilted Noise Barriers

## Description

*QuietZone* Quilted Noise Barriers are a suspended high mass noise barrier constructed of quilted lightweight fiber glass and mass loaded vinyl. They are designed to both contain and absorb noise or to act as a moveable barrier between noisy and quiet areas. The curtains can be used to create partitions or segment areas in noisy interior spaces. The product is available in edge bound or unbound rolled form.

## Uses

*QuietZone* Quilted Noise Barriers are ideal for controlling noise levels in manufacturing facilities where production machinery creates high levels of unwanted noise. Because *QuietZone* Quilted Noise Barriers incorporate both lightweight fiber glass and mass loaded vinyl they are able to absorb both reverberant (reflected) noise and attenuate direct noise from the equipment source.

## Features and Benefits

**Excellent Acoustical Properties**

*QuietZone* Quilted Noise Barriers have a Sound Transmission Class (STC) up to 33.

**Durable**

The product has a laminated quilt facing that is resistant to oils and chemicals. The product can be steam cleaned as needed.

**Flexible**

*QuietZone* Quilted Noise Barriers are easily accessible, movable and reusable. The product can be easily field modified.

**Economical**

The product is a cost effective solution to metal enclosures.

**Easy to Install**

The product requires no special tools for installation.

## Application

*QuietZone* Quilted Noise Barriers are typically used in applications where noise reduction, accessibility and toughness are required. The product surface is resistant to oil and chemicals.

The curtains can be used in the following settings:

- enclosures for noisy equipment
- plant dividers
- moveable screens
- noise reduction liners on existing walls
- office talk barriers
- pipe and duct wrap

## Availability

*QuietZone* Quilted Noise Barriers are available in the following forms:

- edge bound or unbound rolls
- individually sized, edge bound panels
- die cut and edge bound components
- finished curtain panels with suspension grommets and velcro type closures

Framing systems are available in four standard configurations.

- floor mounted single track (FMS)
- ceiling mounted single track (CMS)
- floor mounted double track (FMD)
- ceiling mounted double track (CMD)

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.

## Technical Information

*QuietZone* Quilted Noise Barriers suspend from a 1 5/8" x 1 5/8", 12 gauge rolled channel that can be self-supporting or ceiling suspended. Standard curtain panels are 54" wide and are available in lengths up to 25'. Each panel is constructed with heat sealed grommets at the top and a velcro type closure along the entire edge.

Curtain panels are installed on the rolled channel using mechanical fasteners or can use a two wheel trolley system to allow easy access.

The product is available in surface weights of 1/2 to over 2 PSF.

* The acoustical performance of quilted noise barriers may vary based on panel to panel fit and existing field conditions.

## 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.)

| | Frequency (Hz) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Product** | **125** | **250** | **500** | **1000** | **2000** | **4000** | **NRC** | **SAA** |
| QZCC-5QQ | 0.17 | 0.45 | 0.51 | 0.91 | 0.67 | 0.36 | 0.65 | 0.66 |
| QZCC-10QQ | 0.21 | 0.31 | 0.55 | 0.91 | 0.65 | 0.34 | 0.60 | 0.63 |
| QZCC-20QQ | 0.26 | 0.23 | 0.61 | 0.89 | 0.64 | 0.32 | 0.60 | 0.59 |

# QuietZone™ Quilted Noise Barriers

## 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 |
|---|---|---|---|---|---|---|---|---|
| QZCC-5QQ | 0.15 | 0.59 | 0.85 | 0.94 | 0.63 | 0.35 | 0.75 | 0.75 |
| QZCC-10QQ | 0.09 | 0.66 | 0.86 | 0.95 | 0.62 | 0.33 | 0.75 | 0.76 |
| QZCC-20QQ | 0.16 | 0.57 | 0.85 | 0.94 | 0.61 | 0.32 | 0.75 | 0.73 |

## Product Specifications

Tested in accordance to ASTM E 90-99 within a NVLAP accredited laboratory.
(Specimen size: 48" x 84")
1/3 octave band data available upon request.

| Product | Composite Weight (Lbs./sq.ft.) | Barrier Surface Weight | Barrier | Sound Transmission Loss (dB) Frequency (Hz) 125 | 250 | 500 | 1000 | 2000 | 4000 | STC |
|---|---|---|---|---|---|---|---|---|---|---|
| QZCC-5QQ | 1.0 | 0.5 | Non-reinforced w/ 1" quilting both sides | 12 | 14 | 21 | 34 | 37 | 34 | 27 |
| QZCC-10QQ | 1.3 | 1.0 | Non-reinforced w/ 1" quilting | 14 | 16 | 22 | 34 | 36 | 31 | 28 |
| QZCC-20QQ | 2.3 | 2.0 | Non-reinforced w/ 1" quilting both sides | 19 | 21 | 28 | 35 | 45 | 47 | 33 |

## Surface Burning Characteristics

Tested in accordance to ASTM E 84.

| Product | Flame Spread | Smoke Development | Classification |
|---|---|---|---|
| QZCC-5QQ | 15 | 55 | Class A |
| QZCC-10QQ | 15 | 55 | Class A |
| QZCC-20QQ | 15 | 55 | 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 |
|---|---|
| QZCC-5QQ | Pass |
| QZCC-10QQ | Pass |
| QZCC-20QQ | Pass |

**OWENS CORNING WORLD HEADQUARTERS**
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO, USA 43659

1-800-GET-PINK
www.owenscorning.com

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