

Quilted Fiberglass Absorbers

031133, 031138

Quilted fiberglass absorbers are soft, open cell materials that reduce the reflection of sound waves. These lightweight and flexible sound absorbers are durable and fire-resistant.

Applications include:

- Walls
- Enclosures
- Equipment housings



Specifications and Physical Properties

Fiberglass Batting

Form:	Rotary process, fiber diameter 4 – 6 microns
Resin binder:	Thermosetting phenolic, 3 – 5% content by weight
Density:	2-lb./cubic foot
Thermal conductivity:	K factor = .25

Facing (Lightweight vinyl coated fiberglass cloth)

Weight:	4.6 – 5.6 oz./sq. yd.
Thickness:	.0046 - .0063 inch
Color:	Aluminum pigments
Breaking strength:	
Warp	148 – 190 pounds/inch
Fill	121 – 146 pounds/inch
Tear strength:	
Warp	8 pounds
Fill	7 pounds
Continuous service temperature limits:	-60° F to 220° F
Moisture permeability:	1 to 2 perms

Non-woven Porous Scrim Backing

Composition:	100% non-woven nylon
Fabric weight:	0.7-oz./sq. yd.
Tear strength:	
Warp	6 pounds
Fill	5 pounds
Temperature limit:	400° F

Quilted Composite

Flammability:	Class 1 flame spread and smoke developed rating per ASTM designation E-84 70; surface burning characteristics of building materials. Flame spread – 5 Fuel contributed – 20 Smoke developed – 5
Material width:	54 inch standard
Weight:	.20 lb./sq. ft. single layer (1") .40 lb./sq. ft. double layer (2")
Quilting stitch:	Diamond size 4" x 4" polyester thread, full locking
Mildew and rot:	Full resistance
Abrasion resistance:	Excellent
Cleanability:	Maintenance facings can be steam cleaned or washed with standard industrial cleaners.

Availability:

Quilted fiberglass absorbers are available as roll goods and as panels cut to size. Grommets and hook-and-loop strip fasteners can be added.

Edge Binding:

Roll goods or panel edges can be trimmed with 3-1/2 inch wide trim fabric, sewn in place.

Acoustical Data:

Sound Absorption Data

Random Incident Sound Absorption Octave Band Center Frequency (Hz)

Product:

Number	125	250	500	1K	2K	4K	NRC
031133	.07	.52	.86	.76	.52	.31	.65
031138	.33	.88	.79	.69	.53	.26	.70

Acoustical properties determined by ASTM C-384

