QuietJoint

Mass-Loaded Acoustic Partition Closure

TECH DATA

US Patent: 8,739,495 Patent Pending

QuietJoint SHH coated two-sides
QuietJoint SHG coated three-sides

Product Description

QuietJoint is a sound, draft, heat, cold, and dust blocking acoustic partition closure and joint filler for interior, non-moving joints and gaps.

It is a non-mechanical, high-STC (Sound Transmission Class), non-invasively anchored closure that quickly and easily mates partitions to windows, mullions, or stud walls. QuietJoint also blocks sound transmission between rooms.

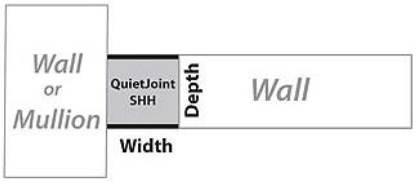
This product is colorized, versatile, and ideally suited as a closure for gaps between the ends of permanent, semi-permanent, or movable partitions, window-wall, curtain-wall, head-of-wall and other conditions.

QuietJoint features a mass-loaded fire-resistant foam core coated with commercial-grade silicone. The foam core is a custom-density open-cell foam infused with a fire-resistant, acrylic-based mass-loading agent.

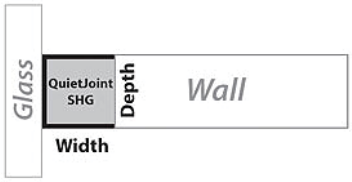
Material Configuration

QuietJoint comes coated on either 2 sides (SHH) or 3 sides (SHG).

SHH (two-sided silicone) is ideal for gaps between opaque or solid partitions, walls or mullions.



SHG (three-sided silicone) is typically used to fill gaps between the glass of curtainwall or windows on one side and solid substrates on the other. The third coating aesthetically covers the foam core so that the foam is not visible from the outside through the glass.



Uses

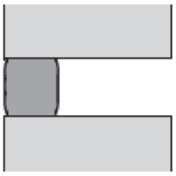
- End of partition to mullion (SHH 2-sided coating)
- End of partition to window (SHG 3-sided coating)
- End of partition to wall (SHH)
- Head of wall (SHH)
- To block any flanking path
- To fill construction-created voids and gaps

Features

- Mass-loaded acoustic seal (STC-53, OITC-38, ASTM E-90)
- Fire-resistant (Smoke and Flame Spread Class A, ASTM E-84-12)
- Insulates (R-value 2.85/in depth, ASTM C-518-04)
- Sound attenuating
- Non-mechanical
- Non-metallic
- Rapid installation--new or retrofit
- Non-invasive anchoring
- Aesthetically and practically versatile
- Easily handles curves
- Helps control HVAC balance between rooms

Sound Attenuation

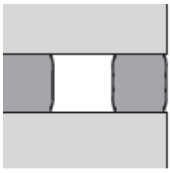
Independent laboratory tested to control passage of air-borne sound.



2" (50mm) standard depth
One side of wall only

STC 53
OITC 38

**When tested in a STC 56 (OITC 38) wall*



2" (50mm) standard depth
Both sides of wall

STC72
OITC 60

**When tested in a STC 72 (OITC 61) wall*

Independent laboratory tested to ASTM E90-09, "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements".

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Colors

- 26 Standard Colors
- Custom Colors
- Color-switching can be used with QuietJoint to coordinate with bands of color in a wall's color scheme.

Standard Sizes

Available in 1/4" increments for field-measured joint opening widths of 1-inch (25mm) to 6-inch (150mm). Supplied in 10-foot (3-meter) lengths which allows installation in most locations without any joins. QuietJoint is supplied in full-story, 10-foot (3-meter) lengths, and is shipped in loosely laid coils inside a cardboard box.

Joint Widths	Depth of Seal
1" - 4.75" (25 - 120mm)	2" (50mm)
5" - 6" (125 - 150mm)	3" (75mm)

Insulation Value

QuietJoint helps to control HVAC balance and energy loss between rooms.

The R-value of QuietJoint foam is R-2.848/inch of depth.

Depending on the joint size and related depth, the R-value of the material will be:

Material	R-Value (Installed one side of joint)	R-Value (Installed both sides of joint)
1/2" to 4 3/4" width with 2" depth (12mm to 120mm with 50mm depth)	5.696	11.39+ *
5" to 6" width with 3" depth (125mm to 150mm with 75mm depth)	8.544	17.09+ *

**Assumes installation from both sides of the wall thereby doubling the R-value. The inclusion of an air gap between the two pieces of QuietJoint will add additional insulation, effectively more than doubling the R-value.*

Independent laboratory tested to ASTM C518-04 "Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus".

Installation Overview

Being careful not to stretch it, the material is laid out and cut to the desired length. Quietjoint is positioned over the joint opening and squeezed by hand to ease it into the joint. The silicone coating folds at its edges to absorb slight variations in substrates while maintaining a smooth appearance. Once in desired location, a plastic putty knife is used to tuck the edges of the silicone against the substrates to remove any wrinkles. The internal backpressure of the material mates it to the mullion or other joint faces.

Performance Limitations

Overcompressing QuietJoint can result in backpressure that could exceed the ability of certain substrates to resist this pressure. User is assumed to have tested all applications to ensure suitability for use.

Not intended for use in moving joints. Not trafficable. For watertight, moving structural joint gaps contact EMSEAL for product selection.

Availability & Price

QuietJoint is available for shipment internationally. Prices are available from local representatives and/or directly from the manufacturer. The product range is continually being updated, and accordingly EMSEAL® reserves the right to modify or withdraw any product without prior notice.

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CANNONDESIGN

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

079100-005
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

079100
SPECIFICATION SECTION / PARAGRAPH

Paric Self Perfom
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

CRITICAL

ITEM BEING SUBMITTED (check only one)

- ○ Shop Drawings
- ○ Samples (_____ copies)
- ○ LEED Submittal
- ○ Certification / Qualifications
- ○ Record Documents
- ◉ Product Data
- ○ Coordination Drawing
- ○ Calculations
- ○ Schedules
- ○ O&M Manuals
- ○ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ○ Information Only ○ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

11/27/16
DATE

To be completed by Reviewer

07 9100-005
CANNON DESIGN SUBMITTAL NUMBER

11/28/16
RECEIVED DATE

- ◉ A. No Exceptions Taken
  No further review of submittal is required.
- ○ B. Make Corrections Noted
  Incorporate corrections in work; resubmission is not required.
- ○ C. Revise and Resubmit
  Revise as noted, and resubmit for review.
- ○ D. Rejected
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ○ E. For Record / Information Only
  Submittal was reviewed for Record / Information purposes only.
- ○ F. Not Required for Review
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

○ See attached sheet(s) for additional comments

Kelvin Patel
REVIEWED BY

Digitally signed by Kelvin Patel
DN: C=US, E=kpatel@cannondesign.com, O=Cannon Design, OU=Architect, CN=Kelvin Patel
Date: 2016.12.09 14:54:49-06'00'

12/9/16
DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0338

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 11/27/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Emseal Quietjoint Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☑ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	**SENT VIA:**	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☑ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	*Package*	*Code*	*Rev.*	*Copies*	*Date*	*Description*	*Status*
Submittal		079100-005	1		11/27/2016	Emseal Quietjoint Product Data	Submitted

NOTES:

CC:

Signed: _____

Devin Gates