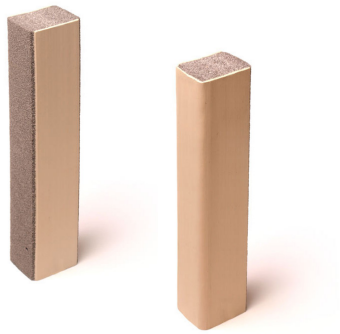
US Patent Pending

TECH DATA **QuietJoint**

Mass-Loaded Acoustic Partition Closure



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.

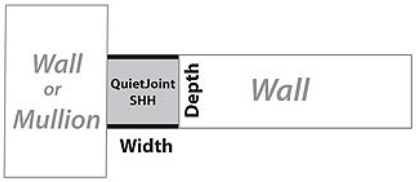
This product is colorized, versatile, and ideally suited as a closure for gaps between the ends of permanent, semi-permanent, or movable partitions, window-wall, curtain-wall, head-of-wall and other conditions.

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.

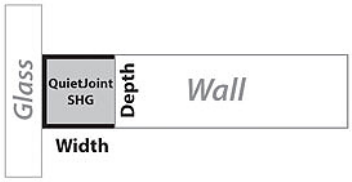
Material Configuration

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 and Applications

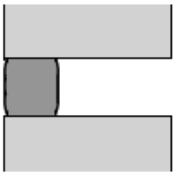
- End of partition to mullion (SHH 2-sided coating)
- End of partition to window (SHG 3-sided coating)
- End of partition to wall (SHH)
- Head of wall (SHH)
- To block any flanking path
- To fill construction-created voids and gaps

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

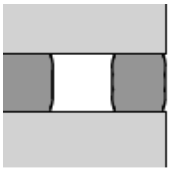
Independent laboratory tested to control passage of air-borne sound.



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".

EMSEAL JOINT SYSTEMS, LTD 25 Bridle Lane, Westborough, MA 01581 USA
EMSEAL, LLC 120 Carrier Drive, Toronto, ON, M9W5R1 Canada

PH: 508.836.0280 **FX:** 508.836.0281
PH: 416.740.2090 **FX:** 416.740.0233

Colors

- Available in many industry 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-inch 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" to 4 3/4" width with 2" depth (25mm 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.

EMSEAL JOINT SYSTEMS, LTD 25 Bridle Lane, Westborough, MA 01581 USA
PH: 508.836.0280 **FX:** 508.836.0281
EMSEAL, LLC 120 Carrier Drive, Toronto, ON, M9W5R1 Canada
PH: 416.740.2090 **FX:** 416.740.0233