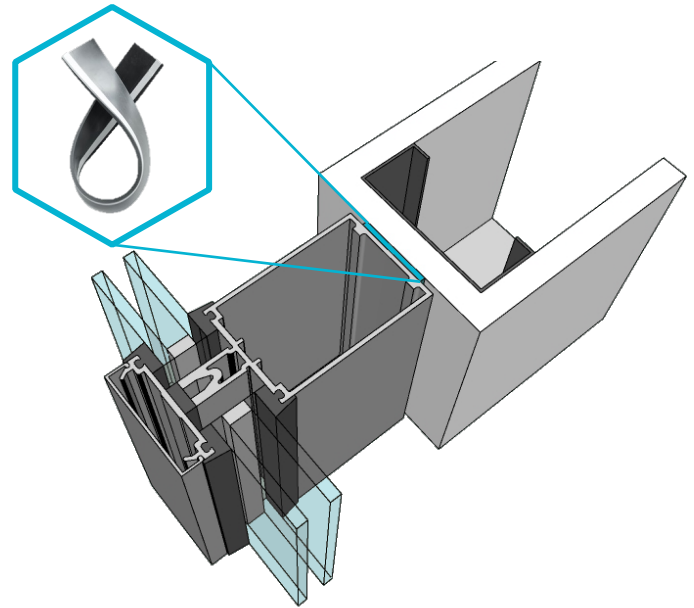


SOUND ISOLATION FOR GLASS WALL CONSTRUCTION

- Easy installation
- Exceptional noise reduction
- Significantly lower cost than competing alternatives

The STC MULLION SEAL™ is a neoprene rubber strip with offset pressure-sensitive adhesive on either side, designed to reduce noise that passes through the gap between mullions and interior partitions in glass wall construction. It is ideal for improving acoustic comfort in office spaces, or any setting with exterior glass walls.



THE PROBLEM OF SOUND FLANKING AT MULLIONS

When floors in buildings with exterior glass walls are sectioned off into rooms (such as offices), the interior partitions that meet the outside glass wall are generally run into mullions – the thin metal tubes that hold the glass in place.

The joint between the mullion and interior partition creates a gap, as the exterior glass wall must be allowed some degree of movement relative to the partition. This gap in turn creates a **SOUND FLANKING PATH** where noise can pass between rooms on either side of the partition.

Accordingly, sound can become a problem in these spaces, affecting productivity, as well as employee engagement and satisfaction.



Increasing the sound isolation properties of the partition itself will do nothing to solve noise problems, as sound still moves through the gaps, like water through holes in a leaky pail.

CHALLENGES OF SEALING SOUND FLANKING PATHS

Mullions feature no solution on their own for closing sound flanking paths. Leases often prohibit contractors from directly connecting partitions to the mullions, while sealants and double-sided tape do not hold up to movement.


One solution is a mullion cover – an aluminum and vinyl seal that covers the joint and the mullion on both sides, and seals to the glass. However, these must be custom fit around the horizontal mullions, which takes time and can be incredibly expensive. While performing well, they are overdesigned for the situation.

**Luckily, STC Sound Control
provides a more sensible,
effective solution ...**

STC MULLION SEAL ADVANTAGE


The STC MULLION SEAL™ adheres to the mullion at the outer wall, and to the partition on the interior, using the pressure-sensitive adhesive that is included on either side of the strip. The result is a solution that closes the gap to seal the sound flanking path – and one that is incredibly simple, high-performance, and cost effective:

SIMPLE (It's that easy...)




Simply: 1) Cut the STC Mullion Seal strip to length; 2) Remove the adhesive cover from the mullion-facing side of the strip, and firmly set in place against the mullion; 3) Remove the adhesive cover from the partition-facing side of the strip and set in place against the end stud of the partition.

HIGH-PERFORMANCE



The STC Mullion Seal provides sound isolation of STC-28 at the joint and effective STC-43 in offices. This is a significant 15 dBA improvement compared to unsealed joints, and all the sound isolation that is needed in typical office situations.

COST-EFFECTIVE



At approximately \$3.50 per foot, the STC Mullion Seal is about 5% of the cost of custom-fit mullion covers. A typical 6-foot-high joint can be treated for \$21. Mullion covers cost upwards of \$400 for the same 6-foot length – a lot to pay for unnecessary overdesign.

WHAT MAKES IT SPECIAL

MATERIAL: The STC Mullion Seal's use of neoprene means that it features:

- Exceptional ability to isolate sound;
- Flexibility, to accommodate movement in the exterior wall due to wind, thermal expansion, and story drift;
- Resistance to UV light, withstanding deterioration effects from sunlight.

DESIGN: Critically, the STC Mullion Seal's patented arrangement of offset pressure-sensitive adhesive strips allows for movement between the outside structure and interior partitions without breaking the seal (as could happen with double-sided tape).

Aesthetically, the Mullion Seal is **completely concealed** in the void between the mullion and the partition, maintaining clean lines when viewed from both the interior and exterior.

BUILDING CODE: The STC Mullion Seal meets the requirements of IBC 715.4.2, filling the void created at the vertical intersection of non-fire-resistance-rated exterior curtain wall assemblies and fire barriers. It retards the passage of fire and hot gases, and accommodates expected building movements without loosening.

WHAT STC CAN DO FOR YOU

The STC Mullion Seal provides a host of benefits for architects, developers, construction managers, and end-users. We're happy to answer your questions and provide any technical guidance required. If you're interested in learning more about the STC Mullion Seal, free free to reach out to talk with us directly.

**Contact us
via web, phone, or email
below.**