

# Product Overview: TensionCore

SLN/CR  
- WHERE SCIENCE MEETS SILENCE -



Precision tensioned acoustic wall system engineered for sport and performance environments. Designed for direct mounting to CMU or structural substrates, it delivers high absorption, clean architectural lines, and customizable fabric finishes for indoor and covered outdoor applications.

## **Engineered High-Tension Surface**

- Rotating compression-lock profile
- Uniform fabric tension across large spans
- Clean, flat, monolithic appearance
- Positive locking and unlock capability for service access

# Product Detail: TensionCore

SLN/CR  
- WHERE SCIENCE MEETS SILENCE -

## ILLUSTRATED: 7/16" SQUARE EDGE

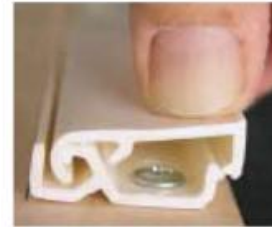
Two piece design facilitates securing system to the mounting surface.



Easy Mounting Access



Outer is in Position



Downward Pressure



Closed and Locked

The outer profile snaps into its mounting and forms a working hinge on one side and a locking catch on the other.

## 1-1/16" PROFILES



1 1/16" profiles work with 1-inch acoustical substrate. The extra 1/16" helps cover irregularities in panel thickness

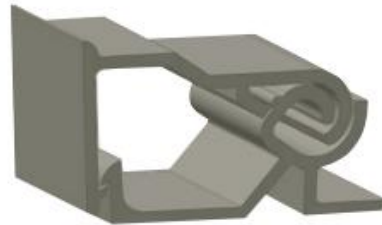
The outer profile can rotate from an open position to closed position. Rotation enables the fabric placed over the outer edge to stretch, tension and lock securely in place. Note: Double sided alignment tape was applied for precise positioning of fabric



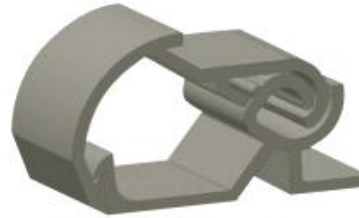
# TensionCore: Edge Options

**SLN/CR**  
- WHERE SCIENCE MEETS SILENCE -

Excellent for sound control applications and is also a beautiful wall covering, enhancing the décor and the sound of installations from sports arenas to home theaters. Almost any panel size can be created and there are hundreds of fabric options available. One benefit over traditional fabric wall panels is that the fabric can be replaced if desired or needed. TensionCore can be approved as an equal to all specified systems and has many advantages over other fabric-wall systems. Its unique, user-friendly, hinged track system gives nearly any space a professional looking, high tension, stretchable fabric acoustical wall system with a minimum of installation issues.



1-1/16" Square Edge



1-1/16" Radius Edge



1-1/16" Bevel Edge



9/16" Square Edge



9/16" Radius Edge



9/16" Bevel Edge



7/16" Square Edge

# Applying TensionCore Track to Walls

SLN/CR  
- WHERE SCIENCE MEETS SILENCE -

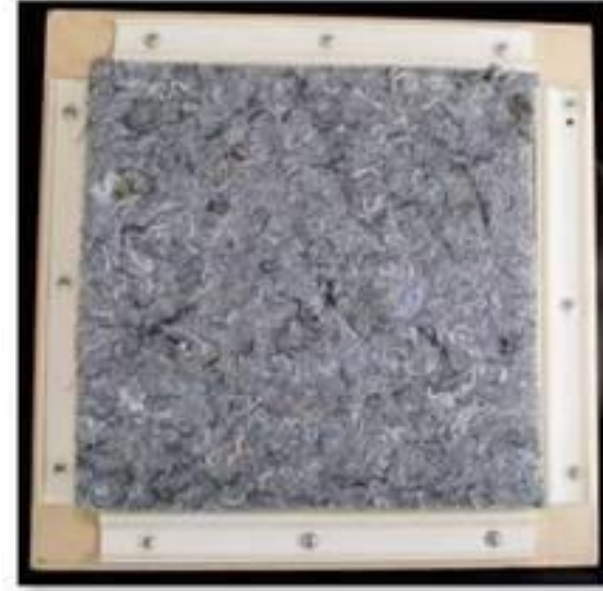
The track is where TensionCore's engineering meets the real world. Proper installation here determines whether your entire project achieves gallery-quality results or reveals compromises. Our methodology is straightforward but deliberate: verticals first, then horizontals—a sequencing that creates structural integrity and visual alignment. Seamless butt joints, precise corner positioning, and strategic setback distances aren't just techniques; they're the foundation for fabric that stretches evenly, locks securely, and finishes flawlessly. Master this section, and everything that follows—fabric mounting, corner work, final presentation—becomes achievable and repeatable. This is where your craftsmanship begins.

When installing track, do the verticals first, using the correct spacing as needed for seams and edges; then, install horizontal members.

## INSTALLING RACK END TO END (BUTT JOINTS)

When butting one length of track to another, make sure that the outer track bridges the joint. The result will appear to be a seamless length.

## POSITIONING THE BASE



For the 7/16 and 9/16 track, the base is installed 1-1/2 inches from the corner in each direction. This creates a cavity in each corner into which excess corner fabric will be stored. The inside edges are 90 degrees to each other.

For 1-1/16 track, it is recommended that base track be mitered in the corners; cut each base corner short so that a 1/2 inch mitered gap remains open. Fabric is tucked into the creases where the outer track is mitered as against being wrapped or pulled under for the 7/16 and 9/16 tracks.

# Mounting Fabric

SLN/CR  
- WHERE SCIENCE MEETS SILENCE -

The TensionCore system is built on a revolutionary two-piece design that transforms how professionals approach fabric wall installations. Our rotating outer profile and dual-locking mechanism eliminate guesswork—fabric stays positioned, tension stays consistent, and results stay professional. Whether you're working with acoustical substrates or decorative finishes, TensionCore handles the technical complexity so you can focus on perfect execution. From profile selection to the final stretch, every step is designed for repeatability and precision.



In just a short time, we have installed our base, joined our outer profile to complete the hinge, checked for sharp edges on corners and made sure our miters fit. The protective covering on the alignment tape can now be removed as we are ready to install and stretch the fabric. Starting at the ceiling, remove the protective cover on the edge tape.

1. Take the time to position the fabric along the topmost track. As you begin to position the material, you can slightly tension the material horizontally.
2. Follow a thread line or pattern, or in the case of a microfiber, your feel for positioning the material. In the demo panels used for these photographs, note how well the pattern is aligned. If you are not in line, simply reposition. The system welcomes the chance to make corrections.
3. Trim the fabric to 1-1/2 to 2 inches beyond the edge of the track. When ready to close, fold the material in under the outer profile and close the track. As you near the corner, allow the excess fabric to stay out, we will address corners shortly.
4. It is always interesting to see a section of fabric begin to tighten. As you proceed from top to bottom and side to side, the once loose, possibly wrinkled wall becomes taut. Do not over tension however. Develop a feel for how much angle on the outer track you actually need to achieve a particular tension. There are times when you will use a padded block and hammer to close the outer track. On the 9/16 square edge, position the block behind the raised edge which can mar a sensitive fabric.
5. Excess fabric in the corners may need to be trimmed back.
6. Repeat the process until the wall is stretched evenly; minor corrections can be easily corrected.

# Corners

Corners separate adequate installations from exceptional ones. TensionCore's engineering addresses the unique challenges corners present—whether inside wall angles or outside architectural features. Our methodology ensures fabric wraps cleanly, tension distributes evenly, and edges finish sharp and professional. Learn how strategic setback measurements, proper mitering, and intentional corner preparation create the polished, gallery-quality results that define high-end installations. In corners, precision isn't optional—it's what defines the entire aesthetic.

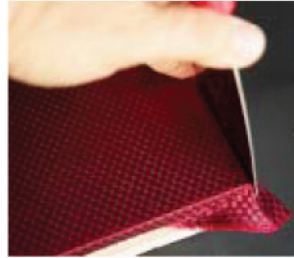


In the beginning, we mounted the base and left a vacancy in the corners. In this section, we're going to see why.

When the track is closed and the fabric trimmed to within 2 inches of the track, fabric remains in the corner. If there is a lot, trim some back...but not too much.

Make sure that your broadknife is dull and corners are slightly rounded. We do not want to tear or cut the material!

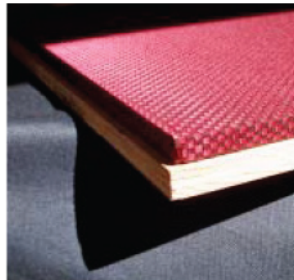
The main panel of fabric is now locked in and all that remains is to finish the corners. There is little or no fabric tension on the corners. Pull the corner excess diagonally and use the broad knife to position the fabric against the outside corner edges. We do this by holding the blade vertically, pushing the fabric into place along both sides.



If the corner is accessible, take the dull broad knife and carefully push the excess in from the side.

If our panel is an inset panel and is not accessible from an edge, we have options:

1. Keep both sides of the track open for the last 6-8". Using our broad knife and the right angled awl, push the fabric under and push the track closed.
2. Float the outer profile away from the base, which means that both sides of the miter are not joined at the hinge, but remain open. As long as the excess fabric that is folded under does not interfere with the hinge being rejoined, OK. The track is pliable, push or use your block and mallet to lock it in.
3. Use a couple of feet of lightweight sash cord. First, using the broadknife, push the chord along the outside edges of the track on both sides of the miter. Then, push the cord in and down each side of the mitre. Holding the cord pull the excess fabric into the corner. This is amazingly simple. When the fabric is in place, pull on one end of the cord to remove.



**At this point, we look at how one panel of fabric is installed to an adjacent surface or to a panel of fabric, side by side. We need to recognize that SPACING IS THE KEY TO PERFECTION.**