FORTRESS
STABILIZATION SYSTEMS

Permanent Basement Wall Repair

Best under pressure.

THE ONLY SOLUTION WITH ALL THESE BENEFITS:

- ☑ ICC-ES building code certification.
- ☑ Lifetime warranty.
- ☑ Stronger than original wall.
- ☑ Carbon fiber & Kevlar system.

Made In USA

The Fortress Stabilization System is protected by Patent No. 7743585, 7823354, 8142102, 8367569, 9034775, 6746741, 6846537, RE39839, 9528286, 9290956, 9290957, 9790697, 3040496 and other pending patents.

A Complete System For A Complete Solution

Top Anchor

The first company to develop a top-of-wall anchor.

The Fortress top anchor is post-tensioned after installation. This ensures that the top anchor and wall are engaged under tension, and holding fast, when the job is complete. No other company has a post-tensioned wall anchor.

Bolting to the rim joist is safer. The sill plate is not adequately connected to the floor joist to carry the load. The Fortress top anchor is mechanically fastened to the rim joist, not the sill plate. By connecting to the rim joist, the Fortress top anchor engages the building's floor system, providing a stronger, more durable anchor. This prevents any movement of the basement wall.

A stronger connection. Many older homes do not have enough sill plate-to-foundation wall connections to ensure that the sill plate will hold under stress. Engaging the floor system (first story floor to top of basement wall) provides the strongest, safest connection.

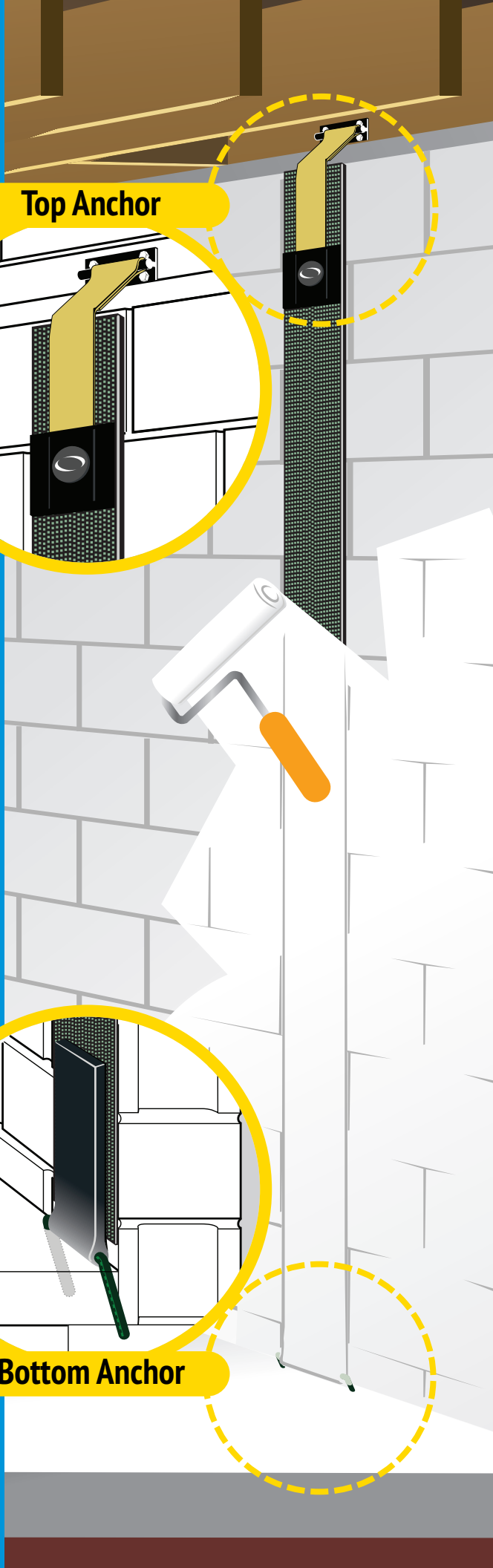
Bottom Anchor

The best in the industry. Here's why:

The quality of the bottom anchor construction is very important. Because preventing shear requires strength, we made our bottom anchor over 5 times thicker and 125 times stiffer than the competition. In addition, we make sure that the connection to the foundation is absolutely secure. We use a dual leg solution with specific contact lengths engineered to achieve a 200% safety factor. Our bottom plate anchor is the best in the industry.

The Fortress bottom anchor secures your wall from shear slide. Shear slides can occur at the bottom of masonry walls where shear forces are greatest. This inward movement of the wall is defined as shear. In typical situations the basement floor holds the bottom of your wall from moving in, but where there are excessive shear forces, the Fortress bottom anchor is needed. The bottom anchor uses the basement floor to secure the Carbon-Kevlar strap and prevents shear slides. The bottom anchor is used in both block and poured concrete walls.

The best solution to bottom-of-wall anchors. The Fortress bottom anchor takes the proven American Concrete Institute recommendation for anchoring carbon fiber straps and makes it better.



What goes into the Fortress Carbon-Kevlar Strap?

Not all carbon fiber is created equal.

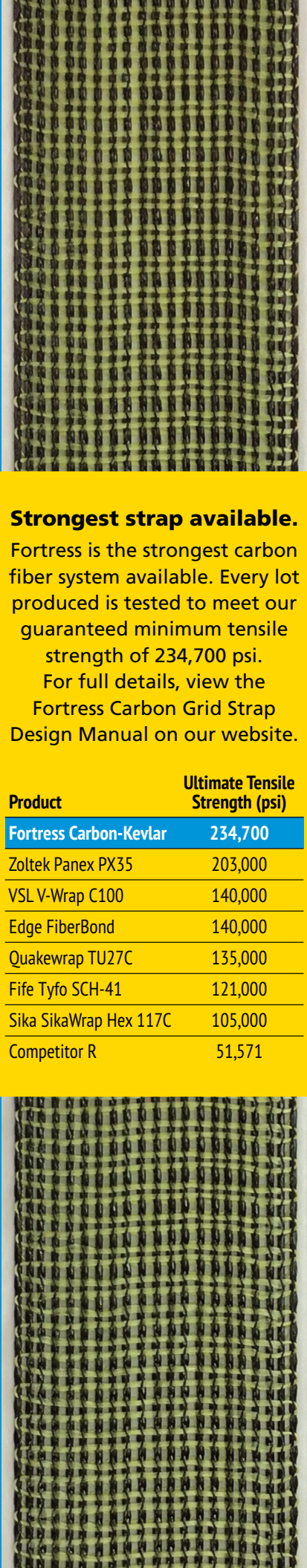
Before considering another carbon fiber system, ask how their fibers are arranged. Conventional manufactures commonly weave the carbon. This produces an attractive woven pattern, but this method also crimps the fibers while going over and under each other. When force is applied to a woven pattern, the bent fibers try to straighten out, which reduces effectiveness.

You can see that it's done right.

Fortress has always been concerned with having the best composite performance. All strength in fiber composites is gained when the fibers are straight. Unidirectional fibers lay flat, eliminating flex when force is applied. The unidirectional method Fortress has developed creates a product twice as strong as products using woven carbon fibers. This Fortress propriety manufacturing process allows for a true unidirectional carbon product, which is the perfect tool to reinforce foundations.

Exclusive open grid technology.

The Fortress open grid technology (OGT) combined with epoxy rivet technology (ERT) connects to the carbon grid to form a mechanical bond to the wall. Epoxy rivet technology forms an adhesive bond between the grid and the masonry substrate which load to the carbon fiber, creating an adhesive bond as well as a mechanical "rivet" between each fiber of the grid. There are over 8,000 epoxy rivets securing a single strap to your wall. OGT and ERT are exclusive to the Fortress system.



Strongest strap available.

Fortress is the strongest carbon fiber system available. Every lot produced is tested to meet our guaranteed minimum tensile strength of 234,700 psi. For full details, view the Fortress Carbon Grid Strap Design Manual on our website.

Product	Ultimate Tensile Strength (psi)
Fortress Carbon-Kevlar	**234,700**
Zoltek Panex PX35	203,000
VSL V-Wrap C100	140,000
Edge FiberBond	140,000
Quakewrap TU27C	135,000
Fife Tyfo SCH-41	121,000
Sika SikaWrap Hex 117C	105,000
Competitor R	51,571

The Only System With ICC Certification and a Lifetime Warranty

What does "ICC certified" mean?

The International Code Council (ICC) was formed in the 1990s by the three major U.S. regional building code agencies and developed the current International Building Code. This code is used to protect public health and building safety throughout the United States and in countries around the world. ICC developed its Evaluation Service (ICC-ES) to certify that products intended to be installed in a home or business are safe and are building code approved. Certification by the ICC-ES means a product and its manufacturing process have been tested, evaluated and regularly audited by ICC to meet or exceed product performance reliability. Fortress obtained ICC-ES certification through a rigorous testing process performed by an ISO 17025 accredited laboratory at the University of Miami, Structures and Materials Laboratory. The ICC-ES certification identifies Fortress Stabilization Systems as a premier building product manufacturer able to produce consistent and reliable product performance. A copy of the Fortress Stabilization Systems' ICC-ES report is located on our web site.

Why does ICC certification matter?

An ICC-ES approved product can be immediately identified by any code official, home inspector, or bank appraiser as building code approved. The ICC ESR report number identifies the Fortress system as approved by every local building code agency in the United States. This means a Fortress certified product will pass every building code inspection so you can have peace of mind that it's safe for your home. Fortress' transferable lifetime warranty together with ICC-ES certification will show potential buyers and lending institutions that you installed the best system available if you ever decide to sell your home. Trying to sell your home without a building code approved system could be a very costly mistake. Make sure you use only an ICC-ES, building code approved product.

Proudly made in the USA. The Fortress top anchor, bottom anchor and Carbon-Kevlar straps are made in the USA at our 25,000-sq.ft. manufacturing facility in Holland, Michigan.

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