



Simpson Strong-Tie's new seismic URFP and FRFP foundation anchoring plates will secure first-floor framing to foundations with the same load values as 5/8-inch anchor bolts.



ANCHORING SYSTEMS

DROP-INS AND SEISMIC RETROFITS HOLD DOWN THE FORT

From asphalt applications and advanced drop-in concrete anchoring systems to seismic retrofits, the anchoring market continues to address the shifts and shakes of the construction landscape. These five leading manufacturers are innovating new ways to keep things put.

SIMPSON STRONG-TIE

In recent years, FEMA, the ICC and local jurisdictions have increased awareness of the need for seismic retrofits to improve the safety of older homes and buildings in areas that are vulnerable to seismic activity. To make it easier for contractors to secure older homes to their foundations, Simpson Strong-Tie has launched two next-generation foundation plates that provide higher strength than before, giving installers greater spacing flexibility when attaching first-floor framing to the foundation.

The URFP and FRFP foundation plates are specifically designed for locations with limited vertical clearance, in basement areas or crawl spaces, where floors are supported directly on the mudsill or a short cripple wall. The URFP, an improved version of the UFP plate, offers higher

strength and serves as a one-for-one replacement for 1/2- or 5/8-inch diameter mudsill anchor bolts. The URFP fits a variety of foundation types and mudsill offsets and insets.

The FRFP's new design offers higher loads and is ideal where the mudsill is flush to the inside of the foundation or set back up to 1 1/2 inches. In addition to the three prescriptive sill plate fastener holes, there are now two optional fastener holes which, when filled, provide increased loads and greater spacing options. With all five holes filled, the FRFP is a one-for-one replacement for 5/8-inch anchor bolts.



HENSEN

"The new URFP and FRFP foundation plates make it possible to secure first-floor framing to the foundation," explains Sam Hensen, general manager and vice president of connectors for Simpson Strong-Tie. "The new design increases the load values of the retrofit plates to match the strength of anchor bolts, giving contractors a great solution for increasing the safety of at-risk homes in seismic areas, where tight spaces prevent them from installing bolts."

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MiTek's Hardy Frame Special Moment Frame achieves higher load bearing efficiencies for greater design options in both new construction and retrofit applications.

MITEK USA

MiTek USA designs and manufactures a wide range of products including USP Structural Connectors, Z4 Tie-Down Systems and Hardy Frame, as well as decking design software under the Sapphire brand.

The new Hardy Frame Special Moment Frame (SMF) significantly expands this structural system's capabilities by designing and fabricating the beam-to-column SMF connections at both the top and the bottom of the frame. With increased column efficiencies, the designer can economize special moment frame member sizes, the number of frames required in a wall line, or achieve higher capacities when lateral forces are high and shear-load demands are extreme.



DIAB

The Hardy Frame Shear Wall System is now expanding to include the new "Hardy Frame Picture Frame," a four-sided special moment frame with special moment connections at all four corners. Anchorage to the concrete for tension and shear can be a simple pinned base. The innovative addition of a beam with special moment connections (which replaces the need for an engineered, steel-reinforced concrete grade beam) provides the advantages of a fixed base connection, along with an easier field installation and reduced need for inspections.

Interest in Hardy Frame Special Moment Frame design solutions is at its highest point since being introduced in 2008 due to "soft story retrofit" ordinances adopted in a growing number of California building jurisdictions.

"With this exciting innovation, we now offer Hardy Frame products to meet engineers' daily design challenges, from creating architectural openings for large windows and doors for new structures, to strengthening soft story buildings for preparation of severe seismic events," says Maged Diab, president of MiTek USA.

POWERS BY DEWALT

Since Powers Anchors and Fasteners became part of the DEWALT family in 2012, engineers from both companies have worked together to develop anchors and tools side by side that enhance contractor productivity.

"Part of the DEWALT Anchors launch is an updated and extended range of cast-in-place anchors," explains director of marketing, Sean Kelly. "Meant to be used in construction projects where the anchors are placed prior to the concrete being poured, a growing trend for construction sites in the U.S., these new DEWALT anchors are designed to deliver fast and reliable installations leveraging the trend toward BIM (Building Information Modeling)."



KELLY

For use in wood concrete form applications, the Wood-knocker II cast-in-place insert anchor is designed to be more stable than previous designs. Improvements include a much wider base that reduces the likelihood of accidental kick over after installation. Also, the nails are raised and now sit inside the base, removing the sharp points of the nails when handling prior to installation. DEWALT Bang-It



Recent introductions from the Powers brand of DEWALT include Hangermate+ products for MEP contractors and Bang-It cast-in-place inserts for metal decking applications.

cast-in-place inserts, used in metal deck applications, now include a multi-thread option for 3/8- or 1/2-inch rods.

For contractors installing structural components such as columns or beams as well as nonstructural components like windows, warehouse racking or railing, the DEWALT Screw-Bolt+ has special thread geometry and dust relief grooves in the core that allows for faster installation compared to a conventional anchor. This system also removes the need for a manual torque wrench for proper installation.

For mechanical, electrical and plumbing contractors hanging pipe, cable trays and other components to ceilings, Hangermate+ anchors include many options for work application in concrete slabs, wood joists and metal structural components. Options include female and male

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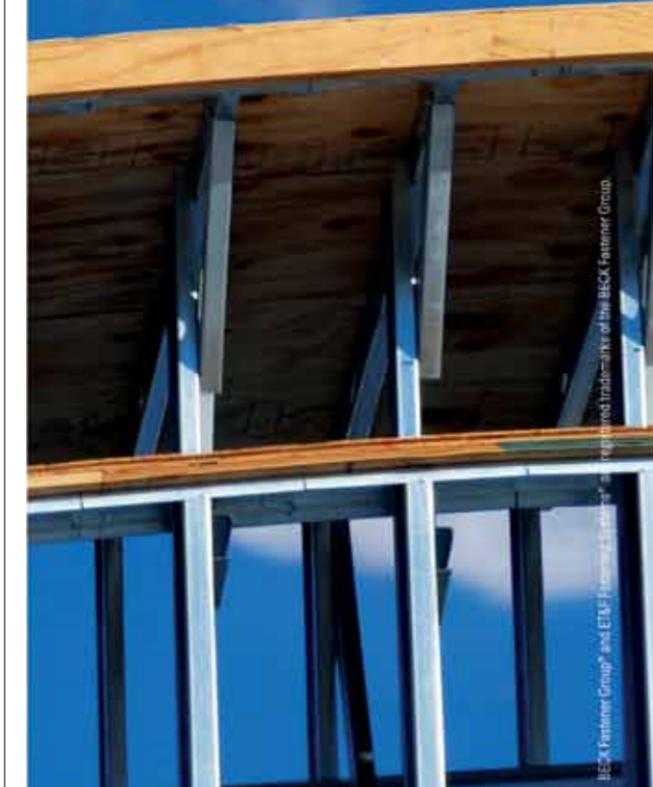
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BoltHold anchors are also rated for rotary torque, which is exerted when tightening the attaching bolt. This torque generates an internal pull stress on the thread as well as a rotating force on the anchor against the asphalt. The SP10-38 is rated for 200 inch-pounds of torque.

TEB-MAR PRODUCTS

"Teb-Mar Products fixed upon the goal: 'Set it faster, relax sooner,'" begins François Berthelot, vice president sales and business development. "And you know what? We did it! After five years of testing and improvements, we pushed this one-of-a-kind concept to the limit. The new, patented Proton drilling and anchoring system is the next step in the evolution of the drop-in anchor market."

The Proton anchor is made of the highest quality carbon steel and the stop-drill features a high-quality German-engineered carbide tip. Interchangeable tips accommodate three sizes of drop-in anchors and with the quick-release setting tool, anchor installation can be done in half the time of traditional systems. Plus, only one tool is required to complete the job.



The system is compatible with most hammer drills that use SDS-Plus bits and accommodates 1/4-, 3/8- or 1/2-inch Proton drop-in anchors. Proton drop-in anchors are UL and FM approved and comply with ANSI B212-15 standards. The stop-drill provides reliable and consistent anchor setting and always prevents over-drilling. A safety setting indicator allows easy visual identification of properly set anchors.

Typical applications for the Proton drilling and anchoring system include concrete form work, sprinkler systems, pipe supports, cable trays and strut, pre-cast wall inserts and suspended lighting.

"We are very proud to introduce these advanced and innovative tools for the drilling and anchoring industry," Berthelot enthuses. "The Proton drilling and anchoring system simplifies the installation of drop-in anchors in concrete base material, drilling to the right depth every time in a safer and faster way to set drop-in anchors. With the amazing snap-fit setting tool feature, users will save time and trouble. With the Proton drilling and anchoring system, it's always fast and always set!" **CS**



Teb-Mar's Proton drilling and anchoring system uses a single tool to drill consistent-depth holes and place drop-in anchors in concrete with impressive speed and effortless repeatability.



Asphalt Anchors' BoltHold system has become the go-to line for anchoring in asphalt. The line includes 6- and 12-inch anchors in zinc-plated carbon steel or stainless steel, plus grouts.

BoltHold anchors are available in three sizes. The SP10-38 is 6 inches long and 5/8 inch in diameter, with a 3/8-inch -16 female thread. The AK-4 kit comprises four SP10-38 anchors and two EPX2 grout bags — everything needed to secure the four anchors to asphalt. The anchors and the grout, when sold separately, are available in packages of six.



"The resistance of the installed anchors to extraction depends greatly on the nature of the asphalt and the gravel below it," Teich continues. "The SP10-38 are pull-rated for 1,500 pounds. At ground level, the anchors can resist 1,000 pounds of shear force."

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threads integrated into the anchor and heads that swivel, giving nearly 90 degrees of rotation for flexible positioning.

ASPHALT ANCHORS CORP.

BoltHold anchors are specifically designed for asphalt. The anchors are flush-mounted to the asphalt and provide a clean internal thread for attaching bolts to the anchors.

"Installation requires drilling a hole and filling it with EPX2 grout, then pushing the anchor in until it is flush with the asphalt surface," explains Rudor (Dori) Teich, president, Asphalt Anchors Corp. "The grout hardens in 15 minutes; full strength may take an hour."

Applications for the anchors range from the mundane to the exotic. Common applications include mounting bike racks, temporary construction fences, securing outdoor furniture and speed bumps. Unusual applications include anchoring jet blast deflectors and runway arresting systems to capture airplanes that overshoot the runway.

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