

Product Showcase

Anchorage Systems

Hilti PROFIS Engineering Suite Software

PROFIS Engineering Suite is an anchor design software program that combines anchor and base plate design and analysis into one cloud-based solution that can be accessed via desktop, tablet, or smartphone. Users can reduce design time with automatic load transfers and multiple-load combination processing. The program's advanced reporting, user-friendly interface, and BIM/CAD exporting help users tackle complex anchor projects. Additional features like notifications and template creation maximize productivity. The program includes multiple ACI and CSA Group codes and easy integration of detailed anchor design reports. Applications include post-installed anchors, cast-in-place anchors, rigid base plate analysis, and anchoring to masonry.

—Hilti, www.hilti.com



Peikko PPM High-Strength Anchor Bolt

PPM® High-Strength Anchor Bolts are used to anchor concrete, steel structures, or machinery into concrete base structures. They are suitable for loading conditions where heavy-duty connections are needed to transfer tension and shear forces to a reinforced concrete base structure (such as a foundation). PPM High-Strength Anchor Bolts are used with PEC® Column Shoes, SUMO® Wall Shoes, or steel columns and machine fixings. There are two main anchor types: long anchors (type P) and short anchors (type L) with headed studs. The long anchor bolts transfer tension forces through bond, while the short anchor bolts transfer tension forces through bond and anchor heads.

—Peikko, www.peikkousa.com



Springbolt Concrete Anchor

The Springbolt Concrete Anchor™ is a spring-loaded concrete anchor system available in 6, 8, 10, and 12 in. (152, 203, 254, and 305 mm) lengths. Anchors are embedded in fresh concrete. They can be used horizontally or vertically. For use in walls, the anchor system base is attached to the inside of the form with nails or screws, and the working end of the anchor system rests against the opposite form. Following concrete curing and form removal, a cap on the working end of the anchor system is removed to reveal the end of a threaded bolt. A screwdriver is inserted in a groove in the end of the threaded bolt, and the bolt is turned one-quarter turn. This releases a spring that pushes the bolt forward to expose its threads. The anchor can also be used in a concrete floor. Because the end of the bolt is retracted, the concrete finisher can easily screed over the anchor to finish the floor.

—Springbolt Concrete Anchor, www.springboltanchor.com

Simpson Strong-Tie Titen HD Heavy-Duty Screw Anchor

The 1/4 in. (6.4 mm) diameter heavy-duty stainless-steel screw anchor from Simpson Strong-Tie is designed for light-duty applications in corrosive environments and is code listed for use in cracked concrete. Part of the broad line of code-listed stainless-steel Titen HD® heavy-duty screw anchors (THDSS), the 1/4 in. Titen HD screw anchor combines the corrosion resistance of Type 316 stainless steel with the undercutting ability of harder, heat-treated carbon steel. Its helical-coil threads feature a serrated carbon-steel leading thread that cuts a channel so the stainless-steel threading can securely interlock with concrete and masonry. Uses for this anchor include bridge, marine, water treatment plant, and heavier civil construction and retrofit applications where corrosive elements pose a hazard to standard carbon-steel screw anchors. The Titen HD line also includes diameters of 3/8, 1/2, 5/8, and 3/4 in. (9.5, 13, 16, and 19 mm). All Titen HD screw anchors install easily with an impact wrench or hand tool. Stainless-steel Titen HD anchors are code listed for a wide variety of applications in IAPMO UES ER-493 (for concrete) and ICC-ES ESR-1056 (for masonry).

—Simpson Strong-Tie, www.strongtie.com