



Simpson's new Hollow Drop-In Anchor is designed for use in both hollow and solid base materials, including CMU, solid clay brick and hollow-core plank, brick, normal- and light-weight concrete.



# CONCRETE ANCHORS

## INNOVATIVE COMPANIES, WELL-FIXED SOLUTIONS

The science of designing stronger and more cost effective ways to secure structures and components to concrete keeps yielding new products.

These companies are cementing their reputations with innovative solutions to anchoring challenges.

### SIMPSON STRONG-TIE

Simpson Strong-Tie has expanded its anchoring systems for residential, commercial and industrial uses to include a new Hollow Drop-In Anchor for use in both hollow and solid base materials.

The Hollow Drop-In Anchor (HDIA) is an internally threaded, flush-mount anchor for use in thin-walled base

materials such as CMU (Concrete Masonry Unit [block]), solid clay brick and hollow-core plank, as well as in solid base materials such as brick, normal-weight and lightweight concrete.

The HDIA is part of Simpson's anchoring systems product line, which includes adhesives and mechanical anchors as well as direct fastening solutions for attachment to concrete, steel, CMU or metal deck.

"The addition of the hollow drop-in anchor broadens our mechanical anchor product line, providing our customers with another thoroughly tested solution," says Bill Georges, vice president, Anchoring Systems. "For 60 years, Simpson Strong-Tie

has focused on providing powerful solutions to meet our customers' needs. By offering a greater range of mechanical anchors, we give our customers the power to build with the products they need to complete their projects."



GEORGES

Designed for anchoring in thin-walled material, the HDIA is suitable for suspending conduit, cable trays, pipe supports, fire sprinklers and suspended lighting into concrete, as well as handrails into CMU. The HDIA can be installed with setting tools designed to aid anchor embedment in both solid and thin-walled materials, and the internally threaded design allows for easy bolt removal.

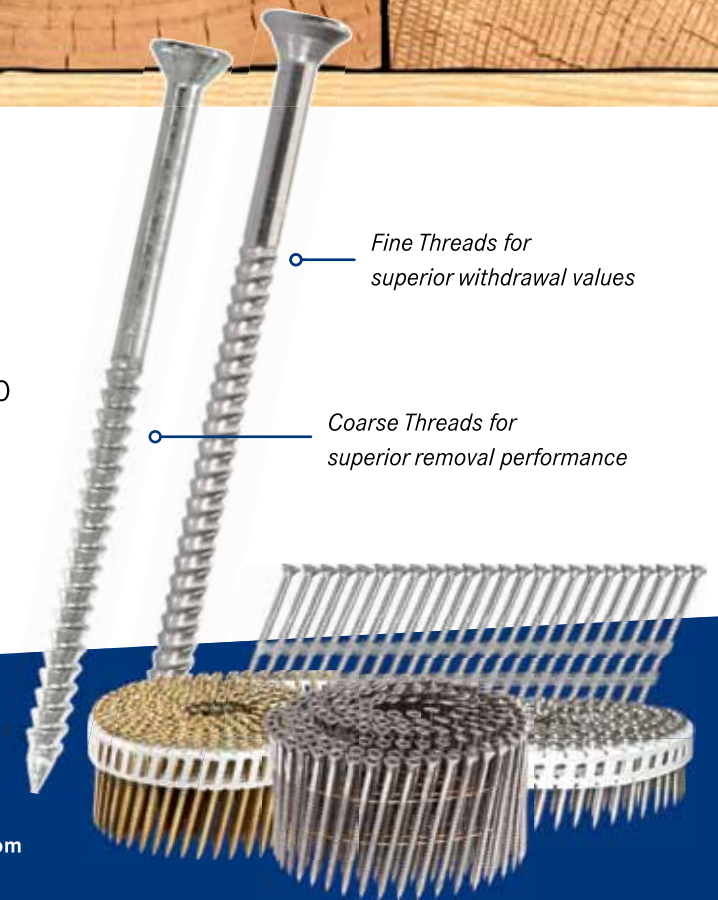
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Metallics QuaDrive Concrete Screw Anchors can be driven or reversed with hex, square, slotted or phillips head drivers. CraftCoat 1000 provides 1,000 hours to 15 percent red rust corrosion in salt spray tests.

## METALLICS

Metallics has been serving the U.S. fastener market since 1959, and the company continues to innovate across its exceptionally broad range of products. Just one example is the Metallics QuaDrive Concrete Screw Anchor, the world's first screw anchor that can be driven or extracted with hex, slotted, phillips or square drive recess drivers.

"The Metallics QuaDrive Concrete Screw Anchor is a redesigned tapping screw and anchoring system with a CraftCoat 1000 coating," explains Andrew Maleto, Metallics president. "Made here in the USA by our affiliate, Avanti Screw, Inc., the QuaDrive Screw Anchor is built strong to avoid red rust corrosion with a CraftCoat 1000 coating."

CraftCoat 1000 is a RoHS-compliant (Restriction of Hazardous Substances) mechanical zinc coating that offers 1,000 hours to 15 percent red rust corrosion in ASTM B117 salt spray tests.

"The QuaDrive Concrete Screw Anchor boasts several unique design features," Maleto continues. "These include a large fillet under-head to fit 3/16- and 1/4-inch holes which provide greater driving strength, fluted, interrupted threads that aid tapping into masonry products, and twin lead threads for speed and agility allowing for faster application."

The anchor's silver color is ideal for matching conduit, strap and concrete and is a great alternative to the blue color of standard concrete screws. Silver is cosmetically appealing when used with zinc-plated or stainless steel brackets, electrical fixtures or conduit.

## MITEK/USP

"The International Building Code and International Residential Code now commonly require the use of 5/8-inch-diameter anchor bolts on design plans for anchoring a structure to its foundation," states Steve Brekke, P.E., engineering operations manager for USP. "The new USP FA4 Foundation Anchor may be installed as a replacement for these anchor bolts, while achieving the same load capacity."

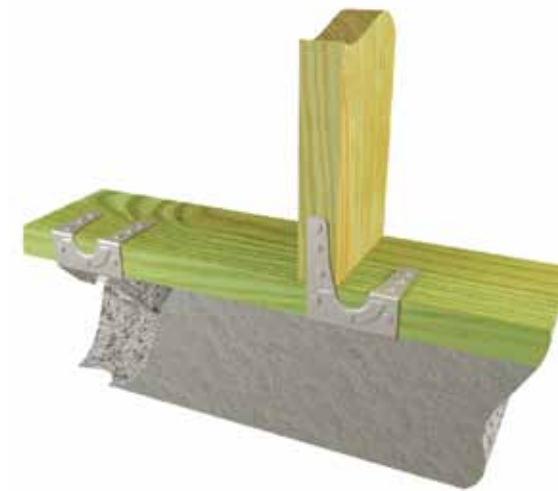
In addition, 1/2-inch-diameter anchor bolts, which have been called out in the building code for many years, may also be replaced with FA4 Foundation Anchors. For replacing 1/2-inch-diameter anchor bolts, fewer FA4 Foundation Anchors would be required than the number needed to replace 5/8-inch anchor bolts, further driving down product and installation costs.

The FA4 Foundation Anchors are installed in wet concrete. The FA4's design allows the concrete to flow through the anchor, reducing the chance for spalling. Once the concrete cures, mudsills can be put in place and secured by bending the FA4 flanges for a tight fit and then nailing the FA4 in place with the size and quantity of fasteners specified by USP. The FA4 can also be mounted to a form board before concrete is poured.

"The specification of 5/8- and 1/2-inch anchor bolts is costly, to say nothing of the labor-intensive task of embedding them in concrete and bolting down the mud sill," Brekke says. "The FA4 offers a cleverly designed alternative that can save both money and time." **CS**

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Mitek's USP F4 Foundation Anchor achieves the same load capacity as a 5/8-inch-diameter anchor bolt when anchoring a structure to a foundation.

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