

**aerosmith<sup>®</sup>**  
fastening systems



# STRENGTH DESIGN







When only the best will do,  
Aerosmith's Category 1, Code Compliant  
Anchors for Cracked and Uncracked Concrete.



"Providing quality fastening systems since 1967"

# Aerosmith ICC Code Compliant Anchoring

Aerosmith's Anchoring Division is proud to present their ICC and IAPMO Category 1, Code Compliant range of mechanical and adhesive anchoring. This brochure highlights and contains the most popular anchors used in the construction industry, as well as, some of the latest innovations in both mechanical and adhesive anchoring. Our ICC-ES and IAPMO Listed products such as our Sure-Wedge™, Sure-Bolt™ and Sure-Set™ Adhesives, show our commitment to ensure that when code approved anchors are needed for specific job applications, Aerosmith has the product and the technical support to help you get the job done right.

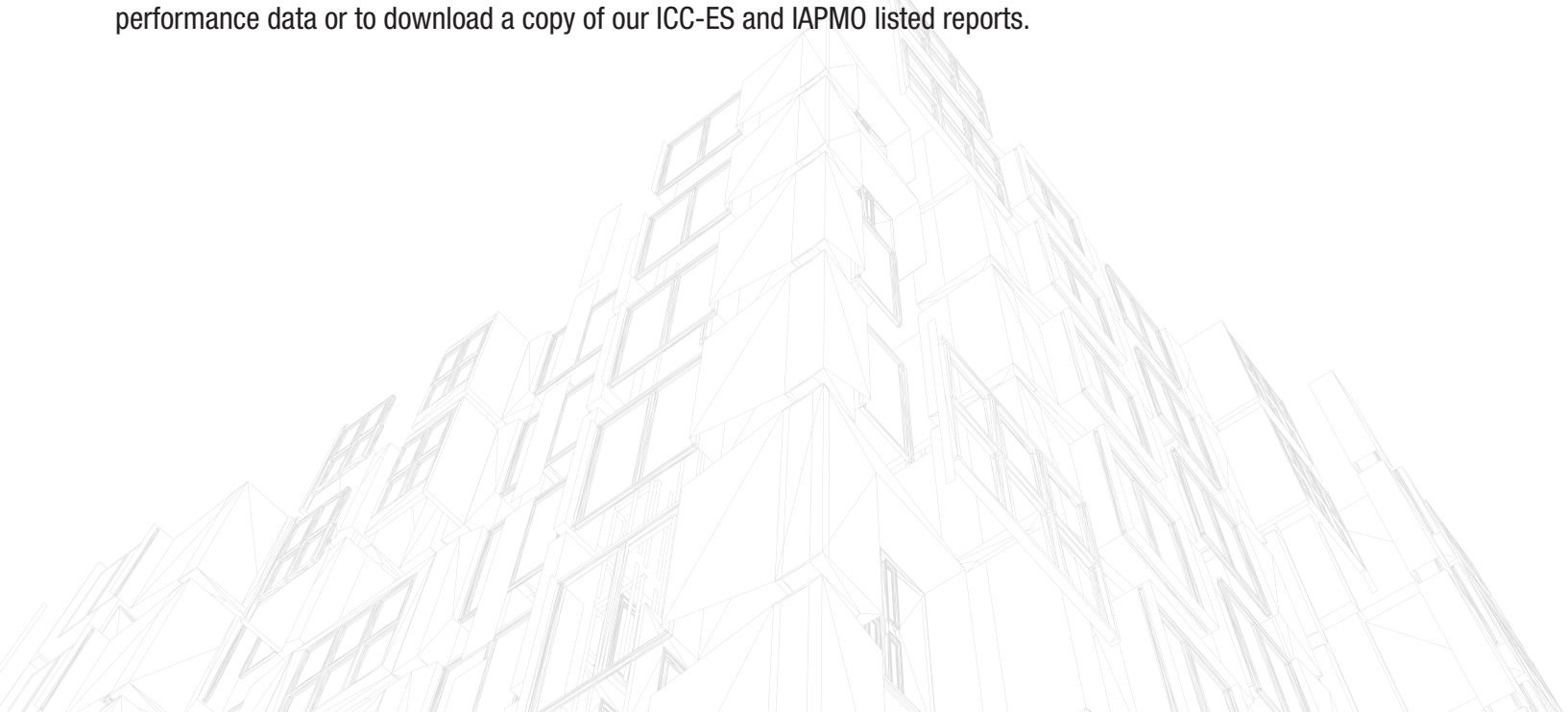
In most parts of the world, communities have sets of rules for builders and other building trade professionals that govern construction practices and are intended to ensure that all aspects of building construction are safe and durable. The local codes may vary from location to location, but most are based on model codes that are created on a national or international level by committees or councils consisting of recognized trade professionals.

## Strength Design Method

The strength design method considers the additional strength in the design analysis. This additional strength develops in the material due to strain hardening. This additional strength was not considered in other design analysis methods before and is now used for designing the reinforced concrete bar and threaded rods used in commercial construction applications. The designers are able to give more steel with the same area of concrete section and larger concrete area with reduced steel reinforcing when compared to design in allowable stress method.

In the design analysis using the strength design method, the loads acting on the structure are taken into consideration after multiplying them with load factor. The loads obtained after the multiplication of load factors are known as ultimate design loads. Load combinations are developed considering the occurrence of combination of loads.

Aerosmith Anchors provides performance data, as well as, ICC-ES and IAPMO evaluated products on their website for all of the anchoring products contained in this brochure. Please go to [www.aerosmithfastening.com](http://www.aerosmithfastening.com) to view performance data or to download a copy of our ICC-ES and IAPMO listed reports.





# Sure-Wedge™ Suitable for installation in **CRACKED CONCRETE, UNCRACKED CONCRETE, REINFORCED CONCRETE & STONE.**



Aerosmith's Sure Wedge™ are torque- controlled, mechanical expansion anchors consisting of an anchor body, expansion clip, nut and washer. The anchor body has a tapered mandrel formed on the installed end of the anchor and a threaded section at the opposite end. Suitable base materials include, normal weight concrete and lightweight concrete. The anchors are used to resist static; wind and seismic tension and shear loads in cracked and uncracked normal weight and lightweight concrete having a specific compressive strength of 2500 PSI to 8500 PSI. The anchor is manufactured with a zinc plated carbon steel body and sherardized clip that wraps around the mandrel, rotating freely before installation.

## APPLICATIONS:

- Barriers
- Railings
- Warehouse racking
- Conveyor systems
- Machinery
- Signage
- Fence posts
- Shelving
- Windows
- Overhead doors
- Electrical pipes
- Light fixtures

## FEATURES AND BENEFITS:

- Consistent performance in all types of concrete
- Drill size same as anchor size
- Easy and simple installation
- One piece design
- Comes complete with nuts and washers

## BASE MATERIAL:

- Solid concrete
- Grout-filled masonry
- Hard stone

## ANCHOR COMPONENT MATERIALS:

Carbon Steel Zinc Plated (body, nut, washer and expansion clip)

## APPROVALS:

Category 1 Cracked & Uncracked Concrete ICC-ES ESR-4413

IRC Listed 2006, 2009, 2012, 2015

IRC Listed 2006, 2009, 2012, 2015

CBC 2016 Listed

CRC 2016 Listed

LABC 2017 Listed

LARC 2017 Listed

FBC 2017 Listed

FRC 2017 Listed



Part ID	Description	Overall Length	Diameter	Drill Diameter	Min. Embed	Max. Torque	Box Quantity	Carton Quantity
* WA14134CC	Wedge Anchor Zinc ICC 1/4" X 1-3/4"	1-3/4"	1/4"	1/4"	1-1/2"	4 ft lbs	100	600
* WA14214CC	Wedge Anchor Zinc ICC 1/4" X 2-1/4"	2-1/4"	1/4"	1/4"	2"	4 ft lbs	100	600
* WA14314CC	Wedge Anchor Zinc ICC 1/4" X 3 1/4"	3-1/4"	1/4"	1/4"	2"	4 ft lbs	100	600
* WA38214CC	Wedge Anchor Zinc ICC 3/8" X 2-1/4"	2-1/4"	3/8"	3/8"	2-1/3"	30 ft lbs	50	300
* WA38234CC	Wedge Anchor Zinc ICC 3/8" X 2-3/4"	2-3/4"	3/8"	3/8"	2-1/3"	30 ft lbs	50	300
WA38300CC	Wedge Anchor Zinc ICC 3/8" X 3"	3"	3/8"	3/8"	2-1/3"	30 ft lbs	50	300
WA38312CC	Wedge Anchor Zinc ICC 3/8" X 3-1/2"	3-1/2"	3/8"	3/8"	2-1/3"	30 ft lbs	50	300
WA38334CC	Wedge Anchor Zinc ICC 3/8" X 3-3/4"	3-3/4"	3/8"	3/8"	2-1/3"	30 ft lbs	50	300
WA38500CC	Wedge Anchor Zinc ICC 3/8" X 5"	5"	3/8"	3/8"	2-1/3"	30 ft lbs	50	300
WA38700CC	Wedge Anchor Zinc ICC 3/8" X 7"	7"	3/8"	3/8"	2-1/3"	30 ft lbs	50	50
* WA12234CC	Wedge Anchor Zinc ICC 1/2" X 2-3/4"	2-3/4"	1/2"	1/2"	2-1/3"	30 ft lbs	50	200
WA12334CC	Wedge Anchor Zinc ICC 1/2" X 3-3/4"	3-3/4"	1/2"	1/2"	2-1/3"	45 ft lbs	50	200
WA12412CC	Wedge Anchor Zinc ICC 1/2" X 4-1/2"	4-1/2"	1/2"	1/2"	2-1/3"	45 ft lbs	50	200
WA12512CC	Wedge Anchor Zinc ICC 1/2" X 5-1/2"	5-1/2"	1/2"	1/2"	2-1/3"	45 ft lbs	50	150
WA12700CC	Wedge Anchor Zinc ICC 1/2" X 7"	7"	1/2"	1/2"	2-1/3"	45 ft lbs	25	100
WA12100CC	Wedge Anchor Zinc ICC 1/2" X 10"	10"	1/2"	1/2"	2-1/3"	45 ft lbs	25	25
* WA58312CC	Wedge Anchor Zinc ICC 5/8" X 3-1/2"	3-1/2"	5/8"	5/8"	3-1/4"	75 ft lbs	25	100
WA58412CC	Wedge Anchor Zinc ICC 5/8" X 4-1/2"	4-1/2"	5/8"	5/8"	3-1/4"	75 ft lbs	25	100
WA58500CC	Wedge Anchor Zinc ICC 5/8" X 5"	5"	5/8"	5/8"	3-1/4"	75 ft lbs	25	100
WA58600CC	Wedge Anchor Zinc ICC 5/8" X 6"	6"	5/8"	5/8"	3-1/4"	75 ft lbs	25	75
WA58700CC	Wedge Anchor Zinc ICC 5/8" X 7"	7"	5/8"	5/8"	3-1/4"	75 ft lbs	25	75
WA58812CC	Wedge Anchor Zinc ICC 5/8" X 8-1/2"	8-1/2"	5/8"	5/8"	3-1/4"	75 ft lbs	25	50
* WA34414CC	Wedge Anchor Zinc ICC 3/4" X 4-1/4"	4-1/4"	3/4"	3/4"	3-3/4"	150 ft lbs	20	60
* WA34434CC	Wedge Anchor Zinc ICC 3/4" X 4-3/4"	4-3/4"	3/4"	3/4"	3-3/4"	150 ft lbs	20	60
WA34512CC	Wedge Anchor Zinc ICC 3/4" X 5-1/2"	5-1/2"	3/4"	3/4"	3-3/4"	150 ft lbs	20	60
WA34614CC	Wedge Anchor Zinc ICC 3/4" X 6-1/4"	6-1/4"	3/4"	3/4"	3-3/4"	150 ft lbs	20	60
WA34700CC	Wedge Anchor Zinc ICC 3/4" x 7"	7"	3/4"	3/4"	3-3/4"	150 ft lbs	20	60
WA34812CC	Wedge Anchor Zinc ICC 3/4" X 8-1/2"	8-1/2"	3/4"	3/4"	3-3/4"	150 ft lbs	10	40
WA34100CC	Wedge Anchor Zinc ICC 3/4" X 10"	10"	3/4"	3/4"	3-3/4"	150 ft lbs	10	40

# Sure-Bolt™ Suitable for installation in **CRACKED CONCRETE, UNCRACKED CONCRETE, REINFORCED CONCRETE & STONE.**



The Aerosmith Sure Bolt™ is a one-piece, heavy duty screw anchor with a finished hex head. The anchor is manufactured from carbon steel and is heat treated. The Sure-Bolt™ is available in a variety of sizes from 1/4 to 3/4 inch. The hex head diameter is larger than the diameter of the anchor and is formed with serrations on the underside. The anchor can be installed in a pre-drilled hole with a powered impact wrench or a torque wrench. The anchor threads cut into concrete on the sides of the hole and interlock with the base material during the installation. Once installed they are easily identifiable by head markings with ASF on the head. Suitable base materials include normal weight concrete, and lightweight concrete. The anchor is designed for consistent and reliable performance in cracked and uncracked concrete.

## APPLICATIONS:

- Structural anchoring in cracked and uncracked concrete, including industrial environments
- Glazing, windows and shop windows
- Industrial racking and conveyor systems
- Installation of railings and handrails in interiors applications
- Anchoring of machinery, boilers, signs, stadium seating, facade substructures, etc.
- Anchoring through wood into concrete base materials

## APPROVALS:

Category 1 Cracked & Uncracked Concrete ICC-ES ESR-4414  
 IBC Listed 2009, 2012, 2015, 2018  
 IRC Listed 2009, 2012, 2015, 2018  
 CBC 2016 Listed  
 CRC 2016 Listed  
 LABC 2017 Listed  
 LARC 2017 Listed  
 FBC 2017 Listed  
 FRC 2017 Listed

## FEATURES AND BENEFITS:

- Quick and easy installation
- Use in cracked and uncracked concrete
- Use for medium-heavy duty loads.
- Finished hex head
- Removable
- One piece assembly
- Variety of length and diameters
- Suitable when reduced distance to edge and between anchors is required
- Mechanical interlock between concrete and thread
- For static and quasi static loads
- Can be un-installed leaving the surface clear with no obstructions

## BASE MATERIAL:

- Normal weight and lightweight concrete
- Reinforced concrete
- Cracked and uncracked concrete

## ANCHOR COMPONENT MATERIALS:

Carbon Steel Body, Zinc Plated, with a hex washer head

Part ID	Description	Overall Length	Diameter	ANSI Drill Diameter	Min. Embed	Max. Torque	Box Quantity	Carton Quantity
* CB14114CC	1/4" x 1-1/4"	1-1/4"	1/4"	1/4"	1"	24 ft lbs	100	600
* CB14134CC	1/4" x 1-3/4"	1-3/4"	1/4"	1/4"	1-1/2"	24 ft lbs	100	600
* CB14214CC	1/4" x 2-1/4"	2-1/4"	1/4"	1/4"	1-5/8"	24 ft lbs	100	600
* CB14300CC	1/4" x 3"	3"	1/4"	1/4"	1-5/8"	24 ft lbs	100	500
* CB38134CC	3/8" x 1-3/4"	1-3/4"	3/8"	3/8"	1-1/2"	35 ft lbs	50	200
CB38212CC	3/8" x 2-1/2"	2-1/2"	3/8"	3/8"	2-1/4"	35 ft lbs	50	200
CB38300CC	3/8" x 3"	3"	3/8"	3/8"	2-1/2"	35 ft lbs	50	200
CB38400CC	3/8" x 4"	4"	3/8"	3/8"	2-1/2"	35 ft lbs	50	200
CB38500CC	3/8" x 5"	5"	3/8"	3/8"	2-1/2"	35 ft lbs	50	200
CB38600CC	3/8" x 6"	6"	3/8"	3/8"	2-1/2"	35 ft lbs	50	200
* CB12200CC	1/2" x 2"	2"	1/2"	1/2"	1-3/4"	35 ft lbs	50	100
* CB12212CC	1/2" x 2-1/2"	2-1/2"	1/2"	1/2"	2-1/4"	45 ft lbs	50	100
CB12300CC	1/2" x 3"	3"	1/2"	1/2"	2-3/4"	45 ft lbs	50	100
CB12400CC	1/2" x 4"	4"	1/2"	1/2"	3"	45 ft lbs	50	100
CB12500CC	1/2" x 5"	5"	1/2"	1/2"	3"	45 ft lbs	25	50
CB12600CC	1/2" x 6"	6"	1/2"	1/2"	3"	45 ft lbs	25	50
CB12800CC	1/2" x 8"	8"	1/2"	1/2"	3"	45 ft lbs	20	80
* CB58300CC	5/8" x 3"	3"	5/8"	5/8"	2-3/4"	85 ft lbs	25	50
CB58400CC	5/8" x 4"	4"	5/8"	5/8"	3-1/4"	85 ft lbs	25	50
CB58500CC	5/8" x 5"	5"	5/8"	5/8"	3-1/4"	85 ft lbs	25	50
CB58600CC	5/8" x 6"	6"	5/8"	5/8"	3-1/4"	85 ft lbs	20	40
CB58800CC	5/8" x 8"	8"	5/8"	5/8"	3-1/4"	85 ft lb	20	40
CB34400CC	3/4" x 4"	4"	3/4"	3/4"	3-3/4"	115 ft lbs	20	40
CB34500CC	3/4" x 5"	5"	3/4"	3/4"	4"	115 ft lbs	20	40
CB34600CC	3/4" x 6"	6"	3/4"	3/4"	4"	115 ft lbs	10	20
CB34800CC	3/4" x 8"	8"	3/4"	3/4"	4"	115 ft lbs	10	40
CB34100CC	3/4" x 10"	10"	3/4"	3/4"	4"	115 ft lbs	10	40

\*This size is less than the required minimum standard anchor length for strength design

**Toll Free 844-373-2666**



# Aerosmith Sure-Set™ Epoxy - Code Compliant, Category 1

At Aerosmith Fastening Systems, your health and safety on the construction site, is job one. That's why we ensure that all the adhesives we sell carry the highly recognized ICC-ES and IAPMO Certified Approvals. What this means is that these products have gone through extensive and rigorous testing to not only ensure product quality, but more importantly when used appropriately, perform as intended with your safety and the safety of others at the forefront. With that in mind, Aerosmith is pleased to introduce its new line of Sure-Set™ Pure Epoxy.

## PRODUCT INFORMATION:

Sure-Set™ Pure Epoxy is a two-component 1:1 ratio pure epoxy bonded anchoring system for use in cracked and uncracked concrete under normal, as well as, seismic conditions (seismic category C1). Designed for the most demanding structural applications and rebar connections, Sure-Set™ Epoxy, offers high load capacities when used in conjunction with threaded rod, rebar or steel dowels. The Aerosmith Adhesive System includes a two part adhesive packaged within plastic cartridges, a mixing nozzle is also packaged in with each tube to ensure proper mixing occurs. Dispensing tools and hole cleaning equipment is also available to ensure proper installation. Sure-Set™ Epoxy is a 100% epoxy resin that has been formulated with no MXDA, Phenol, N-Methyl Pyrrolidone, Bisphenol A, Phthalates or VOCs. This formulation exhibits minimal shrinkage which makes it ideal for use with oversized holes. In addition, the extended gel time also allows convenient use in deep holes and when used in high ambient temperatures.

## APPLICATIONS:

- Structural applications in cracked and uncracked concrete
- Building facades
- Post installed rebar connections
- Crash barriers
- The attachment of structural steel
- Railings
- Signage
- Rebar doweling
- Sill plate attachments: suitable for horizontal, vertical and overhead anchoring applications.

## IMPORTANT INFORMATION:

- Can be used with threaded rod diameter range 3/8" - 1-1/4"
- Can be used with reinforcing rebar #3, #4, #5, #6, #7, #8 and #10
- Storage life is two years (24 Months) in dry conditions, when kept at temperatures ranging from 41°F to 95°F
- High load capacities (see ICC-ESR 4412) for performance data
- Easy access when using designed nozzle into pre-drilled holes
- Can be used in wet and or dry environments
- Sure-Set™ epoxy enables the user more working time before adhesive set up
- High bond strengths when fully cured



## BASE MATERIALS:

- Concrete
- Hard natural stone
- Solid rock
- Solid masonry

## APPROVALS AND LISTING:

ICC-ES ESR-4412 Cracked and Uncracked Concrete Category 1

Code Compliant IBC Listed (International Building Code)

Code Compliant IRC Listed (International Residential Code)

Code Compliant FBC Listed (Florida Building Code)

Code Compliant FRC Listed (Florida Residential Code)

Code Compliant COLA Listed (City of Los Angeles)

Tested in accordance with AC308 and AC58 for use in structural concrete and masonry



Part ID	Product	Cartridge size	Carton Quantity
PE-10	Sure-Set™ PE-10	10 oz (8.5 fluid ounces)	12
PE-21	Sure-Set™ PE-21	21 oz (21 fluid ounces)	12

# Aerosmith Sure-Set™ Epoxy Acrylate (Acrylic) - Code Compliant, Category 1

At Aerosmith Fastening Systems, your health and safety on the construction site, is job one. That's why we ensure that all the adhesives we sell carry the highly recognized ICC-ES and IAPMO Certified Approvals. What this means is that these products have gone through extensive and rigorous testing to not only ensure product quality, but more importantly when used appropriately, perform as intended with your safety and the safety of others at the forefront.

With that in mind, Aerosmith Fastening Systems is pleased to announce its new line of Sure-Set™ Epoxy Acrylate (Acrylic), available in both 10 ounce and 28 ounce cartridge sizes.

## PRODUCT INFORMATION:

The Sure-Set™ ACR is the most environmentally friendly resin system within our range, while exhibiting outstanding performance in concrete, masonry, and other base materials. It is ideally suited for high load/heavy duty structural anchoring applications. It can be used with threaded rod, reinforcing bar, and steel dowels in solid base materials or in conjunction with an Aerosmith screen tube for hollow based anchoring applications. It is free of styrene's, the Sure-Set™ ACR formulation has a very low odor and is well suited for use indoors and in confined spaces. It also has a very low VOC content and no hazard symbols are required to be displayed on the product label, nor it is hazardous for any mode of transportation.

The Sure-Set™ ACR has not only been evaluated by IAPMO, it has also been fire tested and has received fire resistance classification F120 (for use with threaded bars) & F240 (for use with rebars). For those operating in markets where American building codes are recognized, ACR can offer Evaluation Service Report from IAPMO ER-668.

## APPLICATIONS:

- For use in structural applications in cracked and uncracked concrete (category 1) for threaded rod, reinforcing bars, & steel dowels
- Suspended ventilation systems
- Safety barriers
- Machinery & heavy machinery
- Rolling cranes
- Structural steel to concrete applications

## IMPORTANT INFORMATION:

- Is approved and listed for cracked and uncracked concrete category 1
- Can be used in low and high strength concrete
- Product is styrene free
- Can be used in dry and wet environments
- Can be used overhead with epoxy resin stoppers
- Product has been seismic tested
- Product is fire resistant
- Product has a low odor formulation and can be use in both indoor and outdoor applications
- Product mixes through dispensing nozzle, no premixing required

## BASE MATERIALS:

- Concrete
- Solid & hollow masonry (If using in hollow base material applications a stainless steel or nylon screen tube is needed to encapsulate the adhesive)
- Hard natural stone
- Solid rock
- Voided stone or rock

## APPROVALS AND LISTING:

IAPMO ER-668 For use in Cracked and Uncracked Concrete category 1

IBC Listed (International Building Code)

IRC Listed (International Residential Code)

FBC Listed (Florida Building Code)

FRC Listed (Florida Residential Code)

COLA Listed (City of Los Angeles)

Tested in accordance with AC308 and AC58 for use in structural concrete and masonry



Part ID	Product	Cartridge size	Carton Quantity
ACR-10	Sure-Set™ ACR-10	10 oz (8.5 fluid ounces)	12
ACR-28	Sure-Set™ ACR-28	28 oz (27.9 fluid ounces)	6

**Toll Free 844-373-2666**





**aerosmith®**  
fastening systems

# BLUE BANGER HANGER

## CAST-IN-PLACE ANCHORS



oshpd



All reports listed below are owned by Tomarco /ISAT Construction Supplies





# Blue Banger Hanger™ Steel Deck Insert

Blue Banger Hanger Steel Deck Inserts are installed prior to pouring concrete which reduces installation and material costs and increases strength values. The parts take multiple sizes of threaded rod, have a large flanged head, and a 3" plastic sleeve to help keep threads clean. An installation tool is also available to punch a hole through the metal deck for ease of installation. The parts are also seismically qualified for use in cracked concrete. Installation is quick and easy, punch hole through metal deck – insert blue banger hanger, apply pressure to head of anchor to lock in place and pour concrete.

## APPLICATIONS:

- For hanging threaded rod in overhead applications
- Cable trays
- Fire sprinkler pipes
- Suspended conduit
- Suspended ceiling and lighting
- Telecommunication installations
- Water pipes (plumbing)
- HVAC

## FEATURES AND BENEFITS:

- The Steel Deck Inserts installed height of just 2 inches can be used through or between the ribs of the deck
- Patented grooved insert body prevents component separation even if the flute is broken off prior to pour
- Reduces inventory so three inserts can accommodate five threaded rod sizes
- Allows for threaded rod size changes after inserts are installed
- Internal threads eliminate the need and cost of couplings
- Keeps internal threads clean
- Extended length makes insert easy to locate even with fireproofing on deck underside
- Plastic sleeve provides guidance to align threaded rod with matching internal female threads
- Positions all inserts on the project at the same elevation to eliminate multiple all thread rod lengths and improve the accuracy of offsite prefabrication

## APPROVALS:

ICC-ES ESR-3599

UL Listed

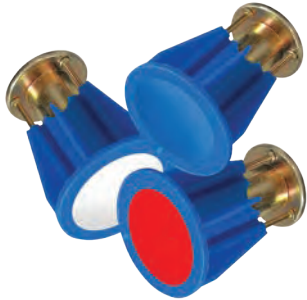
OSHDP



All reports listed below are owned by Tomarco /ISAT Construction Supplies



Part ID	Size	Box Quantity
HEA-SD1143812	1/4", 3/8", 1/2"	100
HEA-SD1381258	3/8", 1/2", 5/8"	50
HEA-SD15834	5/8", 3/4"	50
CEABBDP1 Install Tool	1/4" - 3/8"	1
CEABBDP2 Install Tool	3/8" - 5/8"	1



# Blue Banger Hanger™ Pour In Place (PIP) Pour-in-Place Insert for the attachment of Threaded Rod

Pour-in-Place Inserts are used on wood form poured decks and installed prior to pouring concrete which reduces installation and material costs. Blue Banger Hanger PIP's are easy to use just strike the top of the hanger and drive the three mounting nails into the forming material until the bottom of the hanger is flush with the plywood. The hanger should be sitting 90 degrees perpendicular to the forming material. Once concrete is hardened, and forms are stripped, strike the mounting nails to break them off, it's that simple.

## APPLICATIONS:

- For hanging threaded rod in overhead applications
- Cable trays
- Fire sprinkler pipes
- Suspended conduit
- Suspended ceiling and lighting
- Telecommunication installations
- Water pipes (plumbing)
- HVAC

## FEATURES AND BENEFITS:

- Provides excellent shear values for overhead attachments
- Reduces inventory so three inserts can accommodate five threaded rod sizes
- Allows for threaded rod size changes after inserts are installed
- Internal threads eliminate the need and cost of couplings
- Blue plastic ring acts as insert locator when forms are removed
- Plastic ring creates countersunk recess to keep threads clean from pour residue

## APPROVALS:

ICC-ES ESR-3599  
UL Listed  
OSHDPD



All reports listed below are owned by Tomarco /ISAT Construction Supplies

## NEW SLURRY SEAL:

- Slurry seal safeguards the internal threads from concrete during the pour
- Red, white and blue colored slurry seal labels identify the insert when used by multiple trades
- Does not catch rod threads or interfere with rod size changes
- Won't fall out like foam inserts



## MULTI-THREAD SUPPORT:

- Multi-thread inserts reduce inventory - Compare to similar products who have as many as five insert sizes, one for each size
- Easily change rod sizes after the install - Not possible with single size inserts
- Slurry seal does not interfere with rod size changes, compare to similar products that are difficult to break plastic or foam inserts that tangle

Part ID	Size	Box Quantity
HEA-PIP143812	1/4", 3/8", 1/2"	200
HEA-PIP381258	3/8", 1/2", 5/8"	150
HEA-PIP5834	5/8" - 3/4"	50
CEA-PIPInstall1 Tool	1/4", 3/8", 1/2"	1
CEA-PIPInstall2 Tool	5/8" - 3/4"	1



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*"Providing quality fastening systems since 1967"*



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revised date 10/19/21



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