

UPI

Cast-in Concrete Inserts

The UCAN UPI concrete cast-in place anchor is designed for rod hanging applications such as fire protection systems, ventilation systems, electrical application and pipe hanging. When the wood forms are stripped, the color coded flange is visible to identify rod sizes.

There are two models of the UPI inserts: The UPI 38 is used with a UNC threaded rod size of 3/8-16 inch nominal diameter, and the UPI 12 is used with a UNC threaded rod size of 1/2-13 inch nominal diameter.

FEATURES:

- Tested to AC318 for use in seismic conditions.
- Fastening is simplified when inserts are cast-in precast units, slabs and poured in concrete structures.
- Preplanned location of inserts eliminates costly concrete drilling and anchor installation.
- Color coded for easy rod size identification.
- Sturdy, ribbed design of plastic base minimizes the chance of accidental hitting and misplacement after installation.
- The hexagon design of the impact flange offers excellent anti-rotational protection within the concrete when threaded rods are being installed into the inserts.
- FM Approved for maximum 4" (UPI 38) and 8" (UPI 12) pipe support systems.

TYPICAL APPLICATIONS:

- Fire Sprinkler Pipes
- Ventilation Systems
- Overhead Utilities
- Lighting Systems
- Cable Trays

MATERIAL SPECIFICATIONS:

- Inserts - Hardened C10B21 Carbon Steel - JIS G3507-1
- Nail - C1045 Carbon Steel
- Plating - Yellow zinc plating, ASTM B633
- Plastic Sleeve: High Impact Polypropylene

SUITABLE MATERIALS:

- Normal-weight concrete

LIMITATIONS:

- Minimum Concrete Thickness: 3-1/2"



PACKAGING: 100 pcs. / carton

APPROVALS:



Allowable Load Capacity in min. 2500 psi (17.2 MPa) uncracked normal weight concrete

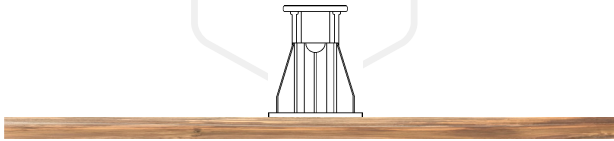
Part Number	Tension		Shear	
	lbs.	kN	lbs.	kN
UPI 38	1643	7.3	1647	7.3
UPI 12	1918	7.3	3685	16.4

The allowable loads shown are for the applicable insert only. Design professional is responsible for checking capacities of threaded rod when loaded in tension and shear, or other material placed in insert.

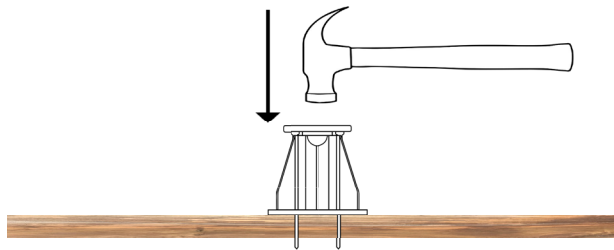
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INSTALLATION INSTRUCTIONS:

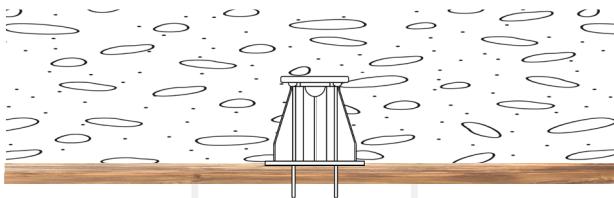
1. Mark the locations on the formwork where the inserts will be installed per design specifications.
2. Position the inserts, one per location, over the locations, plastic & nail down.



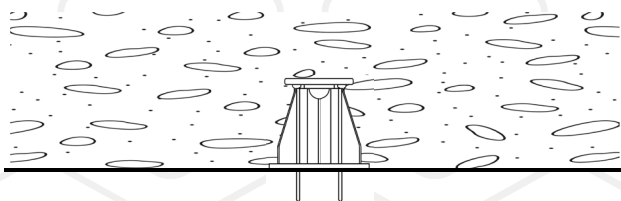
3. Using a hammer, drive the metal insert head down until the head contacts the plastic.



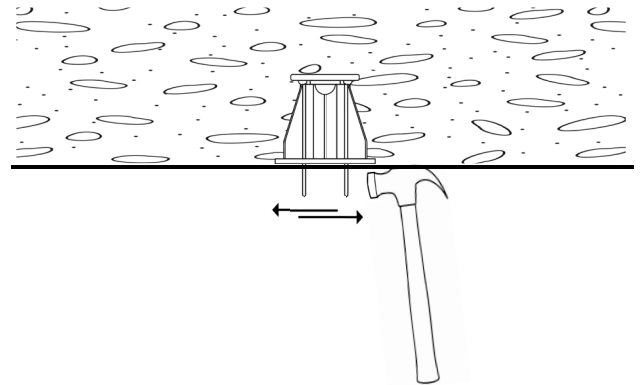
4. Pour concrete to completely enclose the inserts.



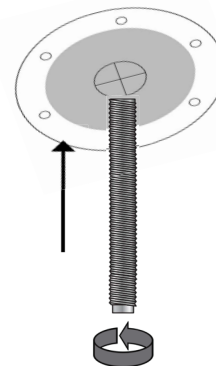
5. Remove wood form after the concrete is cured.



6. After formwork removal, bend/break the protruding nails by shearing them off with a hammer.



7. Push the correct size UNC threaded rod through the center of the protective plastic seal and thread into the insert until fully seated.



8. Attach fixtures per design specifications.

