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## TRUBOLT WEDGE ANCHORS

SPECIFIED FOR ANCHORAGE INTO CONCRETE



Trubolt Wedge Anchors feature a stainless steel expansion clip, threaded stud body, nut and washer. Anchor bodies are made of plated carbon steel, hot-dipped galvanized carbon steel, type 304 stainless steel or type 316 stainless steel as identified in the drawings or other notations.

The exposed end of the anchor is stamped to identify anchor length. Stampings should be preserved during installation for any subsequent embedment verification.

Use carbide tipped hammer drill bits made in accordance with ANSI B212.15-1994 to install anchors.

ICC Evaluation Service, Inc. # ESR-2251

- Category 1 performance rating
- 2006 IBC compliant
- Meets ACI 318 ductility requirements
- Tested in accordance with ACI 355.2 and ICC-ES AC193
- For use in seismic zones A & B
- 1/4", 3/8" & 1/2" diameter anchors listed in ESR-2251

Underwriters Laboratories

Factory Mutual

City of Los Angeles - #RR2748

California State Fire Marshall

Caltrans

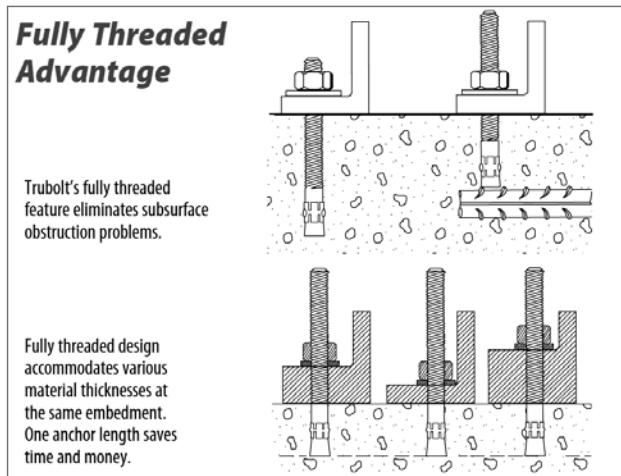
Meets or exceeds U.S. Government G.S.A.

Specification A-A-1923A Type 4

(formerly GSA: FF-S-325 Group II, Type 4, Class 1)



**Dependable,  
Heavy-Duty,  
Inspectable,  
Wedge Type  
Expansion  
Anchor**





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Coil Thread Sup-R-Drop

## ANCHORS

### Drop in



### AVAILABLE MATERIALS

- Carbon Steel, zinc plated

### FEATURES/ADVANTAGES

- Ideal for form work and tilt-up bracing
- Accepts 1/2" or 3/4" standard coil thread rod or coil thread bolts
- Preassembled for ease of installation
- Slotted body is precision-matched to tapered internal plug for uniform expansion
- knurled body increases frictional forces between anchor and wall of hole.

### CONCERNS

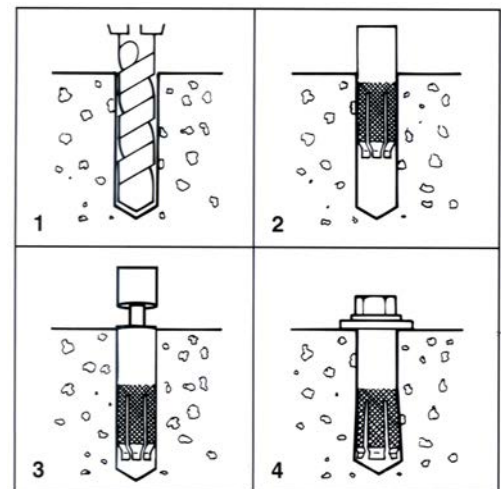
- Dead load only
- Hole depth must be equal to anchor length
- Do not over torque

### APPROVALS / LISTINGS

- G.S.A. Spec FF-S-325C, Group VIII Type 1
- ICBO ER-3219

### Installation steps

1. Drill hole same length as anchor. Do not use core bits. Maintain accurate hole size. Clean hole of debris.
2. Drop in anchor, slotted end first.
3. To set, drive setting tool into anchor until shoulder of tool is flush with top of anchor.
4. Select appropriate coil thread rod or coil bolt.





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## TAPER-BOLT®

Made in USA



### AVAILABLE MATERIALS

- Grade 5, zinc plated
- Other metals and finishes are available for special quote
- Other body styles available for special quote are threaded stud version or eye bolt version.

### FEATURES/ADVANTAGES

- Required hole diameter equals anchor diameter
- Undersize/oversize holes can be accommodated by turning the pre-expanded nut a few times
- Equipment may be removed and replaced. The bolt is simply re-inserted and torqued to obtain original holding power (the nut stays in the hole)
- Bolt can be removed and re-used with a new nut
- Strength - the highest tensile and shear strength of any expansion anchor
- Withstands vibratory loads better than any other expansion anchor

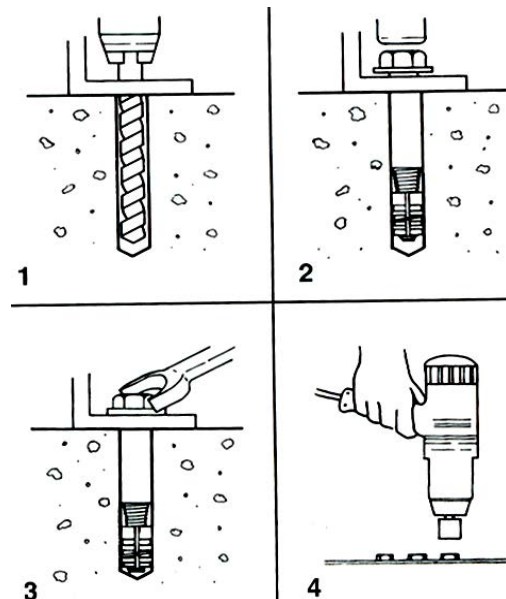
**CONCERNS** - Do not use in brick or block

### APPROVALS/LISTINGS

- UL Listed 1/2" - 3/4"
- Tested by Pittsburgh Testing Laboratory PG-2170
- Contact customer service for approvals / listings for state D.O.T.'s

### INSTALLATION

1. Drill hole the same diameter as the Taper-Bolt using fixture as a template. Taper-Bolt works in a bottomless hole.
2. Drive Taper-Bolt into place leaving recommended head clearance. If hole is oversized simply remove and pre-expand the expander nut to fit hole.
3. Tighten Taper-Bolt recommended number of turns and/or recommended torque.
4. For big jobs, set Taper-Bolt with an impact wrench. This method offers speed, consistency and greater installer productivity.





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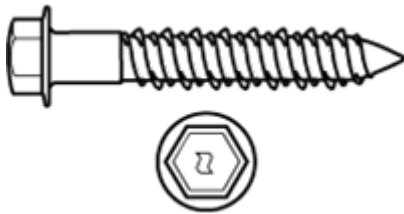
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## UltraCon® Masonry Fasteners

### FEATURES

Fastener threads mechanically link to masonry, increasing joint integrity.  
Available in 3/16" to 5/16" diameters, 1" to 6" lengths.



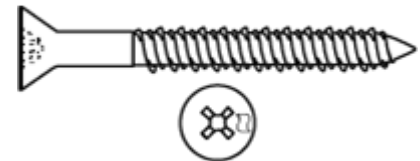
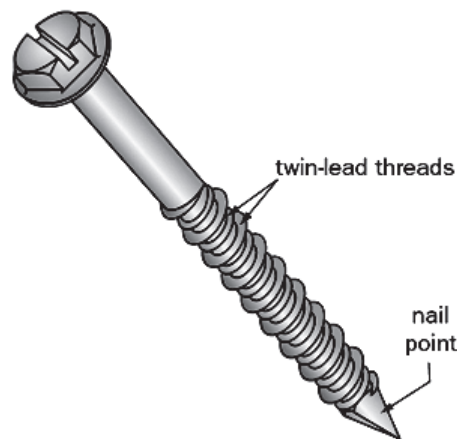
### Carbide Tipped Drill Bits



### ADVANTAGES

When all three elements of the system (cold formed fasteners, precision-cut Elco® carbide drill bits and high-quality UltraCon® installation tools) are used, consistent performance and maximum pull-out strengths can be realized. Installs quickly, 2 to 3 fasteners per minute, when using UltraCon® installation tools.

SIZE	ELCO CATALOG#
3/16 x 1 1/4"	LF305
3/16 x 1 3/4"	LF315
3/16 x 2 1/4"	LF325
3/16 x 2 3/4"	LF335
3/16 x 3 1/4"	LF345
3/16 x 3 3/4"	LF355
3/16 x 4"	LF365
1/4 x 1 1/4"	LF400
1/4 x 1 3/4"	LF410
1/4 x 2 1/4"	LF420
1/4 x 2 3/4"	LF430
1/4 x 3 1/4"	LF440
1/4 x 3 3/4"	LF450
1/4 x 4"	LF460
1/4 x 5"	LF470
1/4 x 6"	LF480



SIZE	ELCO CATALOG #
3/16 x 1 1/4"	LE300
3/16 x 1 3/4"	LE310
3/16 x 2 1/4"	LE320
3/16 x 2 3/4"	LE330
3/16 x 3 1/4"	LE340
3/16 x 3 3/4"	LE350
3/16 x 4"	LE360
1/4 x 1 1/4"	LE405
1/4 x 1 3/4"	LE415
1/4 x 2 1/4"	LE425
1/4 x 2 3/4"	LE435
1/4 x 3 1/4"	LE445
1/4 x 3 3/4"	LE455
1/4 x 4"	LE456

### APPLICATION

Concrete, brick or hollow block  
Electrical boxes and clips to masonry  
Wood headers, plywood, or furring strips to masonry  
Window frames