

Large Diameter Tapcon® Anchor Performance Data

| ULTIMATE PULLOUT (IN CONCRETE) | | |
|--------------------------------|-----------------|---|
| Anchor Diameter | Embedment Depth | Concrete Compressive Strength |
| | | 3,000 psi |
| 5/16" | 1-3/4" | 2,785 lbs. |
| 3/8" | 2-1/2" | 5,445 lbs. 10% higher than wedge 28% higher than sleeve |
| 1/2" | 3" | 7,415 lbs. equal to wedge 22% higher than sleeve |

| ULTIMATE SHEAR (IN CONCRETE) | | |
|------------------------------|-----------------|--|
| Anchor Diameter | Embedment Depth | Concrete Compressive Strength |
| | | 3,000 psi |
| 5/16" | 1-3/4" | 3,045 lbs. |
| 3/8" | 2-1/2" | 5,955 lbs. 46% higher than wedge 129% higher than sleeve |
| 1/2" | 3" | 11,960 lbs. 53% higher than wedge 89% higher than sleeve |

A safety factor of 4:1 or 25% of ultimate pullout/shear value is generally accepted as a safe working load.

Large Diameter Tapcon® Ordering Chart

| Item # | Description | Pcs / Unit | Units / Master | Pkg Type | UPC | 1 2 of 5 | Country of Origin | Notes |
|--------|-----------------------|------------|----------------|----------|-----------------|-------------------|-------------------|-------|
| 24192 | TAPCON 5/16 X 2 HWH | 4 | 8 | Sm Clam | 0 92097 24192 3 | 1 0092097 24192 0 | USA | |
| 24292 | TAPCON 5/16 X 2 HWH | 15 | 6 | Md Clam | 0 92097 24292 0 | 1 0092097 24292 7 | USA | |
| 24193 | TAPCON 5/16 X 3 HWH | 4 | 8 | Sm Clam | 0 92097 24193 0 | 1 0092097 24193 7 | USA | |
| 24293 | TAPCON 5/16 X 3 HWH | 15 | 6 | Md Clam | 0 92097 24293 7 | 1 0092097 24293 4 | USA | |
| 50403 | TAPCON 3/8 X 3 HWH | 2 | 8 | Poly | 0 92097 50403 5 | 1 0092097 50403 2 | USA | |
| 11413 | TAPCON 3/8 X 3 HWH | 10 | 6 | V60 | 0 92097 11413 5 | 1 0092097 11413 2 | USA | |
| 50404 | TAPCON 3/8 X 4 HWH | 2 | 8 | Poly | 0 92097 50404 2 | 1 0092097 50404 9 | USA | |
| 11414 | TAPCON 3/8 X 4 HWH | 10 | 4 | V80 | 0 92097 11414 2 | 1 0092097 11414 9 | USA | |
| 50426 | TAPCON 1/2 X 6 HWH | 2 | 8 | Poly | 0 92097 50426 4 | 1 0092097 50426 1 | USA | |
| 11493 | 1/4 X 7 SDS DRILL BIT | 1 | 10 | Hang Tag | 0 92097 11493 7 | 1 0092097 11493 4 | China | |

TW Brands

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Buildex
Tapcon®
#1 CHOICE OF PROFESSIONALS

CONCRETE ANCHORS

**NEW
LARGE
SIZES**

**BIGGER
FASTER
STRONGER**

Now available in
5/16", 3/8" and 1/2" diameters.



**Tapcon now gives the professional even more choice...
for medium to heavy-duty applications.**

Tapcon is the #1 brand recognized and used by professionals for attachment to masonry. Tapcon invented the original "blue concrete screw" and with 30 years of experience continues to lead in innovation.

**2X
FASTER!**

Than wedge and sleeve anchors.
Drill. Drive.

Advanced Threadform Technology™,

- 30% lower installation torque
- 20% more holding power

Finished head for a low profile—anchor can be removed if needed.



The Tapcon Advantage

- Secure attachment to concrete, block and brick
- One piece design requires no assembly and speeds up installation
- Does not require anchor torque-down
- Easy to remove by simply unscrewing the anchor
- Reduced installation torque
- Close-to-edge placement

Comparative Mechanical Anchor Testing

3/8" x 2-1/2" embedment @ 3000 psi concrete

| | Tapcon vs. Wedge | Tapcon vs. Sleeve |
|------------------|------------------|-------------------|
| Ultimate Tension | +10% | +26% |
| Ultimate Shear | +46% | +129% |

1/2" x 3" embedment @ 3000 psi concrete

| | Tapcon vs. Wedge | Tapcon vs. Sleeve |
|------------------|------------------|-------------------|
| Ultimate Tension | Equal | +22% |
| Ultimate Shear | +53% | +89% |



CRACKED AND SEISMIC APPROVED

To install Small or Medium Diameter Tapcons® use the color-coded Tapcon Drill Bit. Tapcon System Drill Bits are manufactured to tighter tolerances than standard ANSI bits for maximum anchor performance.

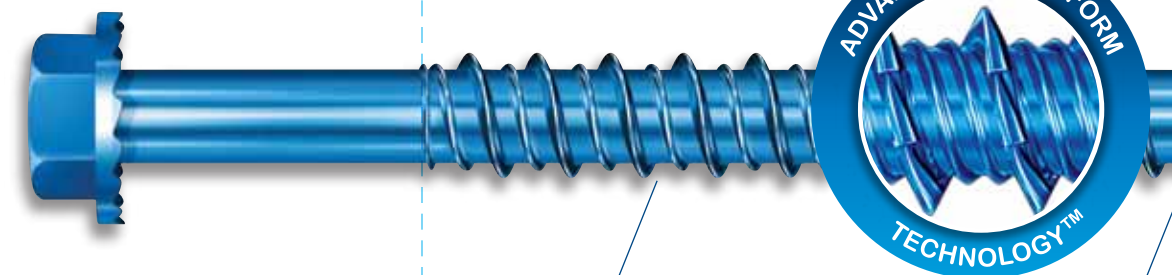
| | |
|--------------|-----------------------------|
| 3/16" Anchor | Use Tapcon® 5/32" Drill Bit |
| 1/4" Anchor | Use Tapcon® 3/16" Drill Bit |
| 5/16" Anchor | Use Tapcon® 1/4" Drill Bit |

To install Large Diameter Tapcons® choose a concrete drill bit of equal diameter.

| | |
|-------------|-------------------------|
| 3/8" Anchor | Use 3/8" ANSI Drill Bit |
| 1/2" Anchor | Use 1/2" ANSI Drill Bit |

Features of Tapcon® Anchors

Advanced Threadform Technology™ for easier, faster installation



Trusted Quality.



Blue ClimaSeal® adds corrosion resistance

Induction hardened tip cuts into harder concrete, increases pullout



Testing laboratory, TL-440, accredited by the International Accreditation Service, a subsidiary of ICC

Tapcons are now available in a full range of sizes and diameters with the latest code approvals. Offering the only 5/16" seismic approved anchor available.



Available in the following sizes:

- 1/2" x 6"
- 3/8" x 3"
- 3/8" x 4"
- 5/16" x 2"
- 5/16" x 3"