

# wej-it®

## ANKR-TITE® Wedge Anchors

### Key Features/Benefits

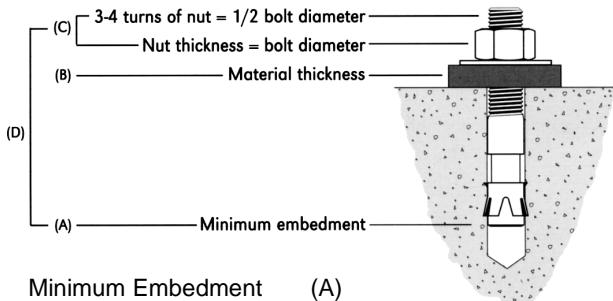
- **Exclusive "Full-Bodied" headed bolt design.** Provides maximum bolt strength and prevents "wobbling" of the anchor in the hole.
- **Unique "Safety Shoulder" feature.** Supports clip when anchor is under strain, eliminating bolt-end collapse and/or clip slippage under ultimate loading conditions.
- **Longer thread lengths.** Allows maximum application flexibility without sacrificing minimum embedment integrity.
- Mechanically galvanized and stainless steel anchors available.



### Maximum Tensile And Shear Capacity For Static Loads

#### Zinc Plated Carbon Steel

Anchor Size	Embedment (in)	2000 psi		3000 psi		4000 psi		Source
		Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	
1/4	1-1/8	•	•	•	•	2391	2813	1
1/4	2-7/8	•	•	•	•	3287	3657	1
3/8	1-1/4	670	1260	900	1260	1130	1260	2
3/8	1-3/4	3490	3025	3550	3050	3615	3075	3
1/2	1-1/2	2125	2280	2475	2280	2825	2280	2
1/2	2-1/2	6275	6040	6540	6150	6805	6260	3
5/8	2	2260	3265	2905	3265	3550	3265	2
5/8	3-1/4	9020	8330	9680	9045	10345	9760	3
3/4	2-5/8	3155	7100	4050	7100	4950	7100	2
3/4	3-3/4	11740	13550	12365	14705	12995	15860	3
1	4	•	•	•	•	14629	32494	1
1	10	•	•	•	•	41596	37417	1



$$\begin{aligned}
 &\text{Minimum Embedment} && (A) \\
 &+ \text{Material Thickness} && + (B) \\
 &+ 1-1/2 \times \text{Bolt Diameter} && + (C) \\
 &= \text{Total Anchor Length} && = (D)
 \end{aligned}$$

### Specifications, Approvals And Listings

#### TYPE

Zinc Plating	ASTM B-633, Type III, SCl
Galvanizing	ASTM A-153; B-454; B-695-82 and MIL-C-81562A with stainless steel clip.
ICBO-ES	Report #1821
City of Los Angeles	#RR 24939
DOT	Please call Customer Service for specific information by state.
Federal Specifications	QQZ-325Z, Type II, Class 3 (Clear Chromate added) FFS-325 Group II, Type 4, Class 1
Dade County	Acceptance #97-0421.03



#### NOTES:

- Information provided only for the use of a qualified design engineer. Use of technical data by persons not qualified could cause serious damage, injury, or even death.
- Ultimate values shown. For static loads, use one-fourth of the maximum tensile and shear capacities for the recommended 4: 1 safety factor.
- Tested to ASTM E-488 Test Standard.
- Sources (available upon request): 1) U.S. Testing Co., Tulsa, OK (stone aggregate); 1984. 2) University of Texas, Austin, TX (using new ICBO-ES testing criteria; limestone aggregate); 1993. 3) Techmar, Inc., Long Beach, CA (using new ICBO-ES testing criteria; stone aggregate); 1995.

### Edge Distance And Spacing Requirements

Embedment (E) in Anchor Diameters (d)	Spacing	Edge Distance
E < 6d (shallow)	3.50E	1.75E
6d ≤ E ≤ 8d (standard)	2.00E	1.00E
8d < E (deep)	1.50E	0.75E

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# wej-it®

## AT II™ High Performance Wedge Anchors

### Key Features/Benefits

- **ICBO Length Identification Code Stamped on End.** Conforms to ICBO standards and eliminates guesswork by inspectors and designers.
- **Chamfered End.** Reduces thread damage.
- **Exclusive "Full Bodied" Headed Bolt Design.** Provides maximum bolt strength and prevents "wobbling" of the anchor in the hole. The BOLT SIZE IS THE HOLE SIZE®.
- **Oval Expansion Windows on Clip.** Maximizes friction with hole while being set.
- **Elongated and Thicker Clip.** Maximizes friction with hole.
- **Enlarged Oval Dimples on Clip.** Holds clip securely and fits well through pre-drilled mounting holes.
- **360° Contact Fingers on Clip.** Equalizes load distribution providing greater load carrying capacity and "more forgiving" design.
- **Unique "Safety Shoulder" Feature.** Supports clip when anchor is under strain, eliminating bolt-end collapse and/or clip slippage under ultimate loading conditions.



### NOTES:

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- Ultimate values shown. For static loads, use one-fourth of the maximum tensile and shear capacities for the recommended 4: 1 safety factor.
- Tested to ASTM E-488 Test Standard.
- Source (available upon request): Techmar, Inc., Long Beach, CA, (using new ICBO-ES testing criteria; stone aggregate); 1997.

**We Specialize In Solving Anchoring Problems.**

### Specifications, Approvals And Listings

#### TYPE

Zinc Plating	ASTM B-633, Type III, SCI
ICBO-ES	Report #1821
Federal Specifications	QQZ-325Z, Type II, Class 3 (Clear Chromate added) FFS-325 Group II, Type 4, Class 1

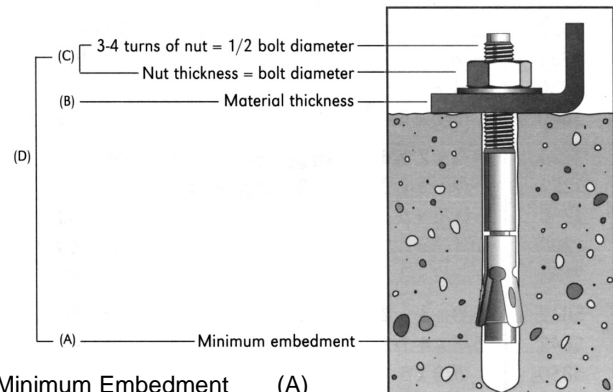
Dade County test data submitted.  
 City of Los Angeles test data submitted.

### Maximum Tensile And Shear Capacity For Static Loads

#### Zinc Plated Carbon Steel

Anchor & Hole Size	Embedment (in)	2000 psi		4000 psi	
		Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)
3/8	2	3681	3118	4978	3695
3/8	2-7/8	5759	4262	6624	•
1/2	2-1/2	6147	6612	7494	7160
1/2	4	9633	7676	10455	•
5/8	3	8626	7437	9275	9733
5/8	4	12785	9984	15340	•
3/4	3-3/4	11552	11131	13359	13176
3/4	5-1/4	17472	13313	21917	•

### Length Selection Guide



$$\begin{aligned}
 &\text{Minimum Embedment} && (A) \\
 &+ \text{Material Thickness} && + (B) \\
 &+ 1-1/2 \times \text{Bolt Diameter} && + (C) \\
 &= \text{Total Anchor Length} && = (D)
 \end{aligned}$$

### Torque Values

Anchor Diameter (in)	Recommended Setting Torque (ft lb)
3/8	5-10
1/2	40-65
5/8	85-110
3/4	150-175

### Edge Distance And Spacing Requirements

Embedment (E) in Anchor Diameters (d)	Spacing	Edge Distance
E < 6d (shallow)	3.50E	1.75E
6d ≤ E ≤ 8d (standard)	2.00E	1.00E
8d < E (deep)	1.50E	0.75E