



wej-it®

Chemical Capsule Anchors

Key Features/Benefits

- **No Expansion Stress.** "Synthetic mortar" bonds stud assembly to concrete. Also performs in lightweight and soft masonry substrates.
- **Useful in Dynamic Load Environment.** Chemical bonding is less likely to "work loose" under shock conditions and vibratory loads.
- **Less Breakage.** Innovative package design.



Recommended Cure Times

Temperature (degrees Fahrenheit)	Minimum Cure Time
68 and over	10 minutes
50 to 68	20 minutes
32 to 50	1 hour
23 to 32	5 hours

Storage Recommendations

For maximum shelf life, **wej-it** Chemical Capsules should be stored in the original packaging, in a temperature controlled environment (50-100 degrees Fahrenheit) that is well-ventilated and dry. Shelf life of up to 2 years is possible, but higher than recommended storage temperatures and exposure to UV rays may adversely affect the acrylic resin and significantly reduce shelf life. As long as the resin has a honey-like flow (not jelled), the capsule should perform appropriately.

Health	2
Flammable	1
Reactive	0

Edge Distance And Spacing Requirements

Embedment (E) In Anchor Diameters (d)	Spacing	Edge Distance
$E < 6d$ (shallow)	2.00E	1.00E
$6d \leq E \leq 8d$ (standard)	1.50E	1.00E
$8d < E$ (deep)	1.00E	0.75E

Approvals

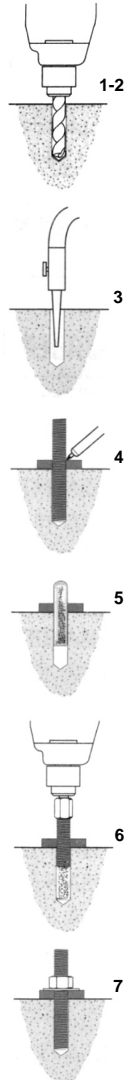
TYPE

DOT

IL, MO, VA

Installation Instructions

1. Select the proper size drill bit from the Order Information chart. Drill the hole perpendicular to the work surface.* To assure full holding power, do not ream the hole or allow the drill to wobble.
2. Drill the hole to the embedment depth listed in the Order Information chart, but not closer than two anchor diameters to the bottom (opposite) surface of the concrete.
3. **CLEAN DUST FROM HOLE.** Clean the hole using compressed air and a nylon brush.* Dust in the hole will significantly reduce stud pull-out strength.
4. Insert 45° chamfered stud into hole. Mark stud to indicate hole depth. Remove stud and check for dust accumulation. If dust is found on stud, go back to step three (3).
5. Insert capsule into hole.
6. Connect the stud assembly on a rotary percussion hammer drill. Break capsule with the 45° chamfered end of stud.† Using rotary hammer drill, drive stud to bottom of hole as indicated by mark on stud. Turn off immediately. Release stud and remove rotary hammer.
7. Avoid disturbing the stud. Allow resin to cure for specified time before loading stud.



* Always wear safety glasses. Follow the drill manufacturer's safety instructions. Use only solid carbide-tipped drill bits meeting ANSI B94 diameter standards.

† Fumes and contact with skin may be harmful.

★★ Can't Find It? ★★

We have many products not included in this catalog... if you don't find it call us...we may have or can get just what you are looking for. New items are always being added. Send us your orders or inquiries when you want an item that is not listed... and thanks!



wej-it®

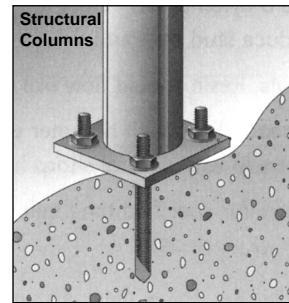
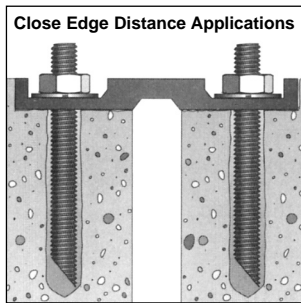
Maximum Tensile Capacities, Bond Strength, Steel Strength

Mfg. No.	Embedment Depth (in)	Drill Diameter (in)	Tension Values 400 psi (lbs)	Steel Strength (lbs)					
				ASTM A307		ASTM A193 gr B7		ASTM F593 gr 304 (Stainless)	
				Tensile Strength	Shear Strength	Tensile Strength	Shear Strength	Tensile Strength	Shear Strength
M10-38	3-1/2	7/16	4721	4650	2790	9688	5813	7363	4418
M12-12	4-1/4	9/16	6744	8514	5108	17738	10643	13481	8088
M16-58	5	3/4	10116	13550	8138	28250	18950	21470	12882
M20-34	6-5/8	7/8	18210	20040	12024	41750	25050	26720	16032
M22-78	7	1	22481	27720	16632	57750	34850	36960	22176
M24-1	8-1/4	1-1/8	24954	36380	21816	75750	45450	48480	29088
M30-114	11	1-3/8	40466	58140	34884	121125	72675	92055	55233

NOTES:

- Information provided only for use of a qualified design engineer. Use of technical data by persons not qualified could cause serious damage, injury, or even death.
- CAUTION: For ultimate anchorage capacity use lowest value of bond strength, steel strength or concrete capacity.
- Ultimate values shown. For static loads, use one-third of the maximum tensile and shear capacities for the recommended 3.1 safety factor.

Typical Applications



Order Information - Ankr-Tite® Chemical Capsules

Mfg. No.	Nominal Diameter (in)	Capsule Dimensions (in)	Capsule Volume (cubic in)	Drill Diameter (in)	Embedment Depth (in)	Quantity Capsules/Box	Appropriate Stud Size (in)
M10-38	3/8	7/16 x 3-1/4	0.3	7/16	3-1/2	10	3/8
M12-12	1/2	1/2 x 3-3/4	0.6	9/16	4-1/4	10	1/2
M16-58	5/8	5/8 x 3-3/4	1.1	3/4	5	10	5/8
M20-34	3/4	27/32 x 4-3/4	2.0	7/8	6-5/8	10	3/4
M22-78	7/8	27/32 x 7	2.9	1	7	6	7/8
M24-1	1	15/16 x 8-1/4	4.2	1-1/8	8-1/4	6	1
M30-114	1-1/4	15/16 x 10-5/8	11.6	1-3/8	11	2	1-1/4

Order Information - Stud Assemblies

Carbon Steel Grade 2	Mfg. Number		Dimensions (in)	Quantity Box/Case
	Stainless Steel			
	304	316		
CS238	CSS38	CS638	3/8 X 5	50/300
CS212	CSS12	CS612	1/2 X 6-1/4	25/150
CS258	CSS58	CS658	5/8 X 7-1/2	10/60
CS234	CSS34	CS634	3/4 X 9-1/2	10/40
CS278	CSS78	CS678	7/8 X 10-1/4	10/40
CS210	CSS10	•	1 X 11-3/4	5/20
CS2114	•	•	1-1/4 X 14	5/20

Stud Assemblies - Nuts and Washers Included.



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Slam-TITE® Hammer-In Chemical Capsules

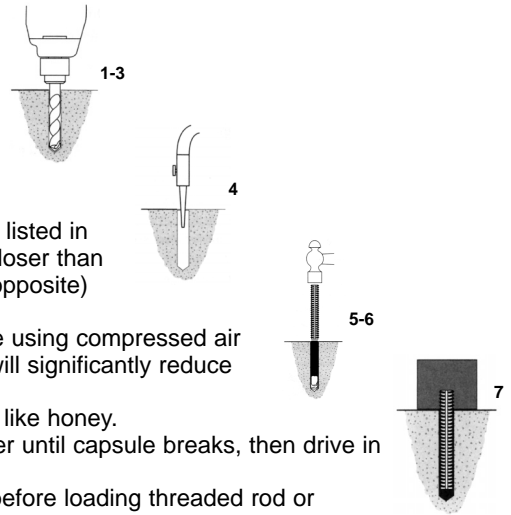
Key Features/Benefits



- **Mistake Proof.** 3/8" through 5/8" Capsules can be set either end up. Set larger capsules rounded end down.
- **Color Coded.** Red color prevents using a spin-in chemical anchor by mistake.
- **Economical.** Minimal waste, use only the amount you require.
- **Easy to Install.** No setting tool necessary, just use a hammer to drive in.
- **Reliable.** Works in all types of weather.
- **Clean.** No disposal of excess material necessary.
- **Less Breakage.** Innovative package design.
- **Eliminates Expansion Forces.** Can be used close to a free edge.

Installation Instructions

1. Surfaces should be clean and free of grease or oil.
2. Select the proper size drill bit from the Order Information Chart. Drill the hole perpendicular to the work surface.* To assure full holding power, do not ream the hole or allow the drill to wobble.
3. Drill the hole to the embedment depth listed in the Order Information Chart, but not closer than two anchor diameters to the bottom (opposite) surface of the concrete.
4. Clean Dust From Hole. Clean the hole using compressed air and a nylon brush.* Dust in the hole will significantly reduce stud pull-out strength.
5. Check the capsule. Resin should flow like honey.
6. Tap rebar or threaded rod with hammer until capsule breaks, then drive in with several sharp hammer blows.†
7. Allow resin to cure for specified time before loading threaded rod or rebar.



* Always wear safety glasses. Follow the drill manufacturer's safety instructions. Use only solid carbide-tipped drill bits meeting ANSI B94 diameter standards.

† Fumes and contact with skin may be harmful.

The Slam-Tite® Hammer-In Capsule

Slam-TITE® provides the convenience of a chemical capsule without the installation headaches. **wej-it** Fastening System's new Slam-TITE® Hammer-In chemical capsules' ease of installation, combined with quick set-up times and excellent holding values, represent a technological breakthrough in the adhesive anchor market. Capsules contain polyester resin and a hardening agent in one easy-to-use glass vial, which when installed is shattered and becomes part of the anchor's aggregate filler.

To install, simply drill a hole in the concrete to the appropriate depth, clean the hole with an air hose or blow out bulb, insert a Slam-TITE® capsule, and drive the threaded road or rebar home with several hammer blows. Once cured, the anchor is ready to use. No mixing, no mess and no measuring!

Slam-TITE® capsules are manufactured in Germany by STAHL GmbH and carefully packaged to minimize breakage. **wej-it** has secured exclusive distribution of the Slam-TITE® capsule in the United States.

Storage Recommendations

For maximum shelf life, Slam-TITE® Hammer-In capsules should be stored in the original packaging, in a temperature controlled environment (50-100 degrees Fahrenheit). Shelf life of up to 2 years is possible, but higher than recommended storage temperatures and exposure to UV rays may adversely affect the polyester resin and significantly reduce shelf life. As long as the resin has a honey-like flow (not jelled), the capsule should perform appropriately.

Health	2
Flammable	1
Reactive	0



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Maximum Tensile Capacities

Slam-TITE® & Threaded Rod:

Mfg. No.	Threaded Rod Diameter (in)	Hole Diameter (in)	Capsules Required	Embedment (in)	Tensile Value in 4000 psi Concrete (lbs)
HMC10-38	3/8	7/16	1	3-1/2	5395
HMC12-12	1/2	9/16	1	4-1/4	8318
HMC16-58	5/8	3/4	1	5-1/2	15287
HMC20-34	3/4	7/8	1	5-3/4	17985
HMC22-78	7/8	1	1	7	22481
HMC24-1	1	1-1/8	1	8-1/4	32372

Slam-TITE® & Reinforced Bar:

Mfg. No.	Rebar Size	Hole Diameter (in)	Capsules Required	Embedment (in)	Tensile Value in 4000 psi Concrete (lbs)
HMC10-38	#3	1/2	1	3-1/2	6295
HMC12-12	#4	5/8	1	4-1/4	9217
HMC16-58	#5	3/4	1	5-1/2	15287
HMC20-34	#6	1	1	5-3/4	17985
HMC22-78	#7	1-1/8	1	7	22481
HMC24-1	#8	1-1/4	1	8-1/4	32372

NOTES:

- CAUTION: For ultimate anchorage capacity, use lowest value of anchor capacity, concrete capacity or steel strength.
- Information provided only for 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-third of the maximum tensile and shear capacities for the recommended 3: 1 safety factor.
- Tensile strength data verified by FMPA at the University of Stuttgart. Available upon request.

Minimum Cure Times


Temperature (degrees Fahrenheit)	Minimum Cure Time
68 and over	10 minutes
50 to 68	20 minutes
32 to 50	1 hour
23 to 32	5 hours

Edge Distance And Spacing Requirements

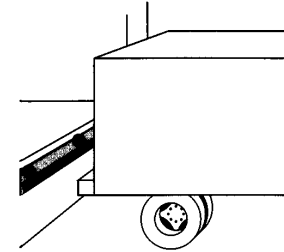
Embedment (E) in Anchor Diameters (d)	Spacing	Edge Distance
E < 6d (shallow)	2.00E	1.00E
6d ≤ E ≤ 8d (standard)	1.50E	1.00E
8d < E (deep)	1.00E	0.75E

Order Information

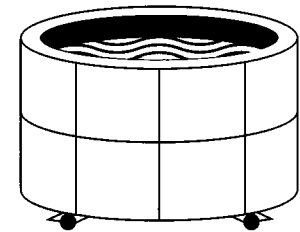
Mfg. No.	Nominal Diameter (in)	Capsule Dimensions	Stud Size (in)	Drill Diameter (in)	Rebar Dimensions	Drill Diameter (in)	Capsule Volume (cubic in)	Embedment Depth (in)	Quantity Capsules/Box
HMC10-38	3/8	7/16 x 3-1/4	3/8	7/16	#3	1/2	0.3	3-1/2	10
HMC12-12	1/2	1/2 x 3-3/4	1/2	9/16	#4	5/8	0.6	4-1/4	10
HMC16-58	5/8	5/8 x 3-3/4	5/8	3/4	#5	3/4	1.1	5-1/2	10
HMC20-34	3/4	27/32 x 4-3/4	3/4	7/8	#6	1	2.0	5-3/4	10
HMC22-78	7/8	27/32 x 7	7/8	1	#7	1-1/8	2.9	7	6
HMC24-1	1	15/16 x 8-1/4	1	1-1/18	#8	1-1/4	4.2	8-1/4	6

Manufactured in Germany exclusively for **wej-it** Fastening Systems by STAHL GmBH.  **STAHL**

Typical Applications



Dock Bumpers



Wastewater Treatment Plants (Use with 316 Stainless Steel stud assemblies)

Approvals

TYPE

DOT IL, IN, MO, TN, VA