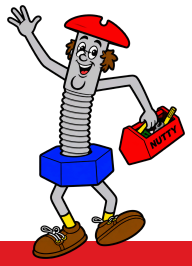
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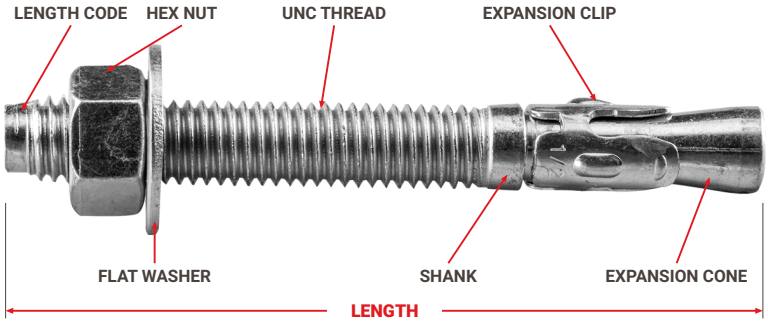


PRODUCT DATA SHEET

Stainless Steel Concrete Wedge Anchors

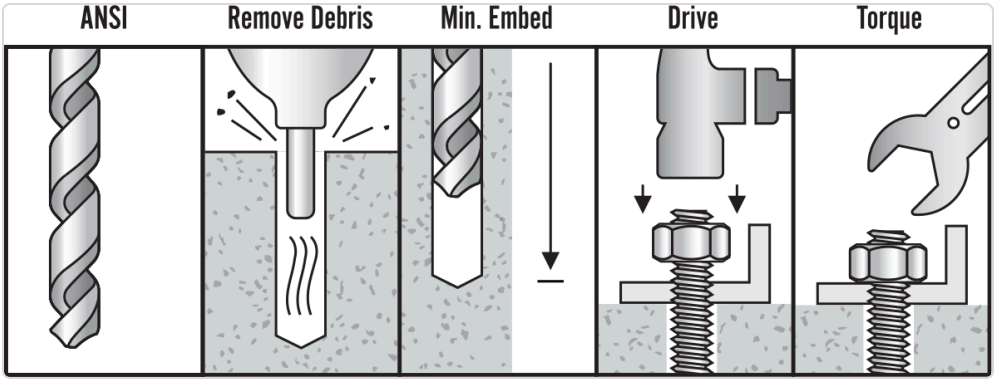
1.0 Product

Torque-controlled expansion anchor • "Bolt size = hole size"



DRILL BIT DIA. = ANCHOR DIA. • LENGTH = OVERALL LENGTH OF ANCHOR (SEE LENGTH CODES)

2.0 Installation



1. Drill a hole the same diameter as the anchor, perpendicular to the work surface, deeper than the intended embedment (but not closer than two diameters to the opposite face). Use carbide-tipped bits meeting ANSI B212.15.
2. Clean the hole with a nylon brush and compressed air.
3. Assemble the nut and washer onto the anchor and drive it through the fixture to the required embedment depth.
4. Tighten the nut 3–5 turns past hand tight; a torque wrench set to the recommended setting torque is recommended.

Anchor Dia.	Drill Bit Dia.	Fixture Clearance Hole	Thread (UNC)	Wrench Size	Setting Torque (ft-lbs)*	Spacing & Edge Distance		
						Nominal Embed.	Min. Spacing	Min. Edge Dist.
1/4"	1/4"	5/16"	1/4-20	7/16"	6–8	1-1/2"	2-1/2"	1-1/4"
3/8"	3/8"	7/16"	3/8-16	9/16"	20–25	2-7/16"	3-3/4"	1-7/8"
1/2"	1/2"	9/16"	1/2-13	3/4"	50–55	2-9/16"	5"	2-1/2"
5/8"	5/8"	11/16"	5/8-11	15/16"	90–95	3-3/8"	6-1/4"	3-1/8"
3/4"	3/4"	13/16"	3/4-10	1-1/8"	165–175	4-5/8"	7-1/2"	3-3/8"
7/8"	7/8"	15/16"	7/8-9	1-5/16"	240–250	4"	8-3/4"	4-3/8"
1"	1"	1-1/8"	1-8	1-1/2"	290–300	4-1/2"	10"	5"
1-1/4"	1-1/4"	1-3/8"	1-1/4-7	1-7/8"	400–410	6-1/2"	12-1/2"	6-1/4"

* Setting torque for anchors installed in normal-weight concrete. Spacing & edge distances apply at nominal embedment.

3.0 Material & Specifications

Property	Specification
Anchor Body	Type 304 (18-8) stainless steel
Expansion Clip	Type 304 stainless steel
Nut	Type 304 stainless steel hex nut, ASME B18.2.2
Washer	Type 304 stainless steel flat washer, ASME B18.22.1
Finish	Plain (passivated stainless)
Base Material	Normal-weight concrete, lightweight concrete and grouted concrete masonry
Applications	Corrosive & wet environments: marine, docks, food processing, water treatment, railings, base plates

4.0 Sizes Stocked

Type 304 (18-8) stainless steel • supplied with nut & washer

Dia.	Length	Length Code	Min. Embed.	Thread Length	Qty / Box	Qty / Carton	Nutty Stock #
1/4"	1-3/4"	A	1-1/4"	3/4"	100	800	**XWEJ14134**
1/4"	2-1/4"	B	1-1/4"	1-1/4"	100	800	**XWEJ14214**
1/4"	3-1/4"	D	1-1/4"	2-1/4"	100	800	**XWEJ14314**
3/8"	2-1/4"	B	1-3/4"	1"	50	400	**XWEJ38214**
3/8"	2-3/4"	C	1-3/4"	1-1/2"	50	400	**XWEJ38234**
3/8"	3"	D	1-3/4"	1-3/4"	50	400	**XWEJ383**
3/8"	3-3/4"	E	1-3/4"	2-1/2"	50	400	**XWEJ38334**
3/8"	5"	H	1-3/4"	3-1/4"	50	400	**XWEJ385**
3/8"	7"	L	1-3/4"	4-1/2"	50	300	**XWEJ387**
1/2"	2-3/4"	C	2-1/8"	1-1/8"	25	200	**XWEJ12234**
1/2"	3-3/4"	E	2-1/8"	2-1/8"	25	200	**XWEJ12334**
1/2"	4-1/4"	F	2-1/8"	2-5/8"	25	200	**XWEJ12414**
1/2"	4-1/2"	G	2-1/8"	2-5/8"	25	200	**XWEJ12412**
1/2"	5-1/2"	I	2-1/8"	3-3/4"	25	150	**XWEJ12512**
1/2"	7"	L	2-1/8"	4-1/2"	25	150	**XWEJ127**
1/2"	8-1/2"	O	2-1/8"	5"	10	40	**XWEJ12812**
1/2"	10"	R	2-1/8"	5"	10	40	**XWEJ1210**
5/8"	3-1/2"	E	2-5/8"	1-1/2"	10	80	**XWEJ58312**
5/8"	4-1/4"	F	2-5/8"	2-3/8"	10	80	**XWEJ58414**

Dia.	Length	Length Code	Min. Embed.	Thread Length	Qty / Box	Qty / Carton	Nutty Stock #
5/8"	5"	H	2-5/8"	3-1/8"	10	80	**XWEJ585**
5/8"	6"	J	2-5/8"	4"	10	80	**XWEJ586**
5/8"	7"	L	2-5/8"	4-1/2"	10	80	**XWEJ587**
5/8"	8-1/2"	O	2-5/8"	5"	10	40	**XWEJ58812**
5/8"	10"	R	2-5/8"	5"	10	40	**XWEJ5810**
3/4"	4-1/4"	F	3-1/4"	2"	10	80	**XWEJ34414**
3/4"	4-3/4"	G	3-1/4"	2-1/2"	10	80	**XWEJ34434**
3/4"	5-1/2"	I	3-1/4"	3-1/4"	10	60	**XWEJ34512**
3/4"	6-1/4"	J	3-1/4"	3-3/4"	10	60	**XWEJ34614**
3/4"	7"	L	3-1/4"	4-3/4"	10	60	**XWEJ347**
3/4"	8-1/2"	O	3-1/4"	5"	10	40	**XWEJ34812**
3/4"	10"	R	3-1/4"	5"	10	40	**XWEJ3410**
3/4"	12"	T	3-1/4"	5"	5	20	**XWEJ3412**
7/8"	6"	J	3-7/8"	3-1/2"	5	30	**XWEJ786**
7/8"	8"	N	3-7/8"	5"	5	20	**XWEJ788**
7/8"	10"	R	3-7/8"	5"	5	20	**XWEJ7810**
1"	6"	J	4"	3"	5	30	**XWEJ16**
1"	9"	P	4"	5"	5	20	**XWEJ19**
1"	12"	T	4"	5"	5	20	**XWEJ112**

5.0 Length Identification Codes

Stamped on the end of each anchor

Code	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
From	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"	6-1/2"	7"	7-1/2"	8"	8-1/2"	9"	9-1/2"	10"	11"	12"
Up to (not incl.)	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"	6-1/2"	7"	7-1/2"	8"	8-1/2"	9"	9-1/2"	10"	11"	12"	13"

Length identification mark indicates overall length of anchor.

6.0 Ultimate Load Capacities Normal-weight concrete

Anchor Dia.	Embed. Depth	f'c = 2,000 psi		f'c = 4,000 psi		f'c = 6,000 psi	
		Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)
1/4"	1-1/4"	1,430	2,370	1,650	2,510	1,860	2,510
	2-3/4"	2,470	2,370	2,590	2,510	2,750	2,510
3/8"	1-3/4"	2,120	3,610	3,850	3,920	4,790	3,920
	4-5/8"	5,040	3,880	6,020	5,190	6,640	5,190
1/2"	2-1/8"	3,860	6,580	6,320	6,920	7,540	6,920
	6-1/4"	6,420	7,170	8,250	7,510	10,710	7,510
5/8"	2-5/8"	6,410	9,390	9,530	11,950	10,600	11,950
	7"	12,820	9,860	16,580	12,310	17,420	12,310
3/4"	3-3/4"	8,390	12,440	13,130	15,860	18,980	15,860
	7-7/8"	14,160	13,700	19,800	23,810	24,150	23,810
7/8"	4"	8,520	19,180	16,590	24,220	19,950	24,220
	8"	15,740	20,260	27,480	25,740	33,110	25,740
1"	5"	11,220	27,690	26,680	32,490	30,680	32,490
	9"	27,160	28,390	36,170	36,900	40,510	36,900
1-1/4"	5-5/8"	17,210	46,970	28,730	46,970	37,040	46,970
	10"	29,040	46,970	50,390	46,970	58,990	46,970

7.0 Allowable Load Capacities Normal-weight concrete • factor of safety 4.0

Anchor Dia.	Embed. Depth	f'c = 2,000 psi		f'c = 4,000 psi		f'c = 6,000 psi	
		Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)	Tension (lbs)	Shear (lbs)
1/4"	1-1/4"	360	600	420	630	470	630
	2-3/4"	620	600	650	630	690	630
3/8"	1-3/4"	530	910	970	980	1,200	980
	4-5/8"	1,260	970	1,510	1,300	1,660	1,300
1/2"	2-1/8"	970	1,650	1,580	1,730	1,890	1,730
	6-1/4"	1,610	1,800	2,070	1,880	2,680	1,880
5/8"	2-5/8"	1,610	2,350	2,390	2,990	2,650	2,990
	7"	3,210	2,470	4,150	3,080	4,360	3,080
3/4"	3-3/4"	2,100	3,110	3,290	3,970	4,750	3,970
	7-7/8"	3,540	3,430	4,950	5,960	6,040	5,960
7/8"	4"	2,130	4,795	4,150	6,055	4,990	6,055
	8"	3,940	5,065	6,870	6,435	8,280	6,435
1"	5"	2,810	6,923	6,670	8,123	7,670	8,123
	9"	6,790	7,098	9,050	9,225	10,130	9,225
1-1/4"	5-5/8"	4,310	11,750	7,190	11,750	9,260	11,750
	10"	7,260	11,750	12,600	11,750	14,750	11,750

- Ultimate load capacities must be reduced by a minimum factor of safety of 4.0 to determine allowable loads.
- Safety factors of 10 or higher may be necessary depending on the application, such as life safety or overhead.
- Loads are shown at the minimum and the deepest tested embedment; values for anchors installed in uncracked concrete.
- Concrete compressive strength must be at the specified minimum at the time of installation.

Disclaimer: The above is a compilation of data from various industry standards. The Nutty Company, Inc. has made every effort to present the data accurately. However, The Nutty Company, Inc. cannot be held liable for any claim traceable to any errors, typographical or otherwise, contained herein.



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