

CIC 200™ Stainless Steel ANKA Bolts



PRODUCT DESCRIPTION

CIC 200™ Stainless Steel ANKA Bolts are fully threaded, torque-controlled, wedge expansion anchors. They are suitable for applications in solid concrete or grout-filled concrete masonry. Produced in stainless steel to offer various levels of corrosion resistance depending on use.



ANCHOR SIZE RANGE

- 1/4" to 1" diameter

GENERAL APPLICATIONS AND USES

- Lighting standards and base plates
- Sills and support ledgers
- Retrofit projects and machinery anchorage
- Food and beverage facilities
- Water treatment plants and marine applications

FEATURES AND BENEFITS

- Fully threaded, medium duty all-purpose anchor
- Anchors can be installed through the fixture for hole spotting not required
- Chamfered impact section prevents damage to threads
- Clip design prevents spinning during installation
- Nominal drill bit diameter same as anchor diameter

APPROVALS AND LISTINGS

- Tested in accordance with ASTM E488 and AC01 criteria
- FM Global (Factory Mutual) – File No. J.I. OK3A9.AH
- Underwriters Laboratory (UL Listed) – File No. EX1289
- Federal GSA Specification
 - Meets the descriptive and proof load requirements of CID A-A-1923A, Type 4

MATERIAL SPECIFICATIONS

- Anchor Body:
 - Type 304Cu (1/4" – 3/4", lengths up to 7")
 - Type 304 (7/8" – 1", lengths over 7")
- Nut: Type 18-8 (300 Series) Stainless Steel
- Washer: Type 18-8 (300 Series) Stainless Steel
- Expansion Wedge: Type 304 Stainless Steel

SEE INTERIOR PAGES FOR

- Part Numbers and Anchor Sizes
- Min. Embed and Thread Length
- FM Approval or UL Listing
- Ultimate Load Capacities
- Installation Instructions



PART NUMBERS / ANCHOR SIZES / MIN. EMBED. THREAD LENGTHS / FM APPROVAL OR UL LISTING									
Part Number	Anchor Size	Min. Embed.	Thread Length	FM or UL	Part Number	Anchor Size	Min. Embed.	Thread Length	FM or UL
77900	1/4" x 1-3/4"	1-1/8"	3/4"	–	77912	5/8" x 5"	2-3/4"	3-1/2"	UL
77901	1/4" x 2-1/4"	1-1/8"	1-1/4"	–	77913	5/8" x 6"	2-3/4"	4-1/2"	FM/UL
77902	1/4" x 3-1/4"	1-1/8"	2-1/4"	–	77921	5/8" x 7"	2-3/4"	5-1/2"	UL
77917	3/8" x 2-1/4"	1-5/8"	1-1/4"	FM/UL	77922	5/8" x 8-1/2"	2-3/4"	7"	UL
77903	3/8" x 2-3/4"	1-5/8"	1-5/8"	FM/UL	77914	3/4" x 4-1/4"	3-3/8"	2-3/8"	UL
77918	3/8" x 3"	1-5/8"	1-7/8"	UL	77923	3/4" x 4-3/4"	3-3/8"	2-7/8"	UL
77919	3/8" x 3-1/2"	1-5/8"	2-3/8"	FM/UL	77915	3/4" x 5-1/2"	3-3/8"	3-5/8"	FM/UL
77904	3/8" x 3-3/4"	1-5/8"	2-5/8"	UL	77916	3/4" x 6-1/4"	3-3/8"	4-3/8"	UL
77905	3/8" x 5"	1-5/8"	3-1/8"	UL	77924	3/4" x 7"	3-3/8"	5-1/8"	UL
77906	1/2" x 2-3/4"	2-1/4"	1-3/8"	FM/UL	77925	3/4" x 8-1/2"	3-3/8"	6-5/8"	UL
77907	1/2" x 3-3/4"	2-1/4"	2-3/8"	FM/UL	77926	3/4" x 10"	3-3/8"	8-1/8"	UL
77908	1/2" x 4-1/2"	2-1/4"	3-1/8"	UL	77927	7/8" x 8"	3-7/8"	4-3/4"	UL
77909	1/2" x 5-1/2"	2-1/4"	4-1/8"	FM/UL	77928	1" x 6"	4-1/2"	2-3/8"	–
77920	1/2" x 7"	2-1/4"	5-5/8"	FM/UL	77929	1" x 9"	4-1/2"	5-3/8"	–
77910	5/8" x 3-1/2"	2-3/4"	2"	FM/UL	77930	1" x 12"	4-1/2"	8-3/8"	–
77911	5/8" x 4-1/2"	2-3/4"	3"	FM/UL		–	–	–	–

The published length is the overall length of the anchor. Allow for fixture thickness plus one anchor diameter for the nut and washer thickness when selecting a length.

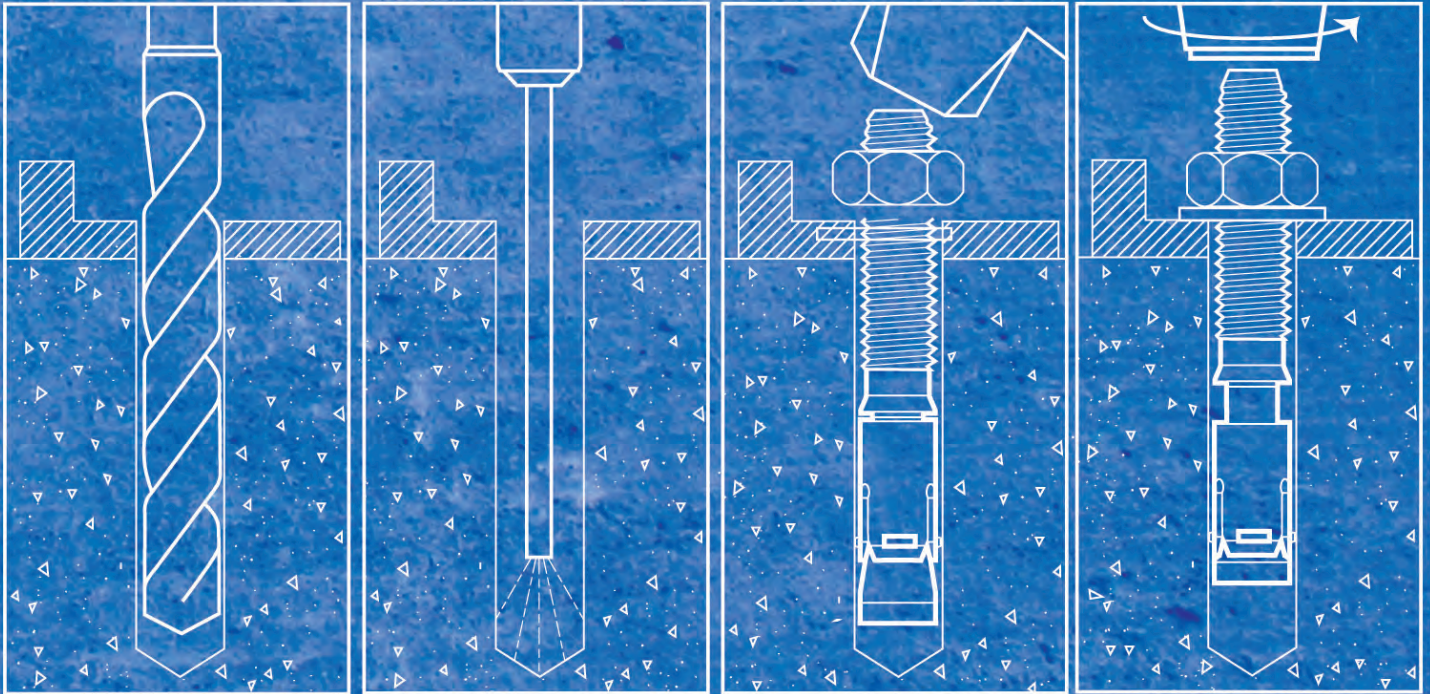
FM - Factory Mutual Approved
UL - Underwriters Laboratories Listed

Note: Bold italic font (on part number designation) indicates non-stock item. Please call for delivery.

ULTIMATE LOAD CAPACITIES FOR STAINLESS STEEL ANKA BOLTS IN NORMAL-WEIGHT CONCRETE ^{1, 2}								
Anchor Dia. (in.)	Min. Embedment Depth (in.)	Tightening Torque (ft/lb)	Minimum Concrete Compressive Strength (f 'c)					
			2000 psi		4000 psi		6000 psi	
			Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
1/4	1-1/8	8	1,240	1,580	1,440	1,620	1,740	1,620
	1-1/2	8	1,635	1,580	2,080	1,620	2,100	1,620
	2	8	1,900	1,580	2,080	1,620	2,100	1,620
3/8	1-5/8	28	1,920	3,560	3,040	3,760	3,040	3,760
	2	28	2,800	3,560	3,850	3,760	4,075	3,760
	3	28	4,100	3,560	4,200	3,760	4,200	3,760
1/2	2-1/4	60	3,440	6,540	5,560	6,800	6,540	6,800
	3	60	5,100	6,540	6,540	6,800	6,540	6,800
	4	60	5,700	6,540	6,540	6,800	6,540	6,800
5/8	2-3/4	90	6,240	9,280	8,300	11,900	8,860	11,900
	4	90	7,125	9,280	9,000	11,900	9,000	11,900
3/4	3-3/8	175	7,420	12,380	9,500	15,060	10,250	15,060
	5	175	10,640	12,380	10,640	15,060	10,640	15,060
7/8	3-7/8	250	7,600	17,960	12,300	24,160	12,500	24,160
	4-1/2	250	9,600	17,960	12,500	24,160	12,500	24,160
	5-3/4	250	10,640	17,960	12,500	24,160	12,500	24,160
1	4-1/2	300	8,740	26,420	13,820	31,100	17,125	31,100
	5-1/2	300	12,770	26,420	17,125	31,100	17,125	31,100
	6-1/2	300	16,605	26,420	17,125	31,000	17,125	31,100

1. Tabulated load values are for anchors installed in concrete. Concrete compressive strength must be at the specified minimum at the time of installation.
2. Ultimate load capacities must be reduced by a minimum safety factor of 4.0 or greater to determine allowable working load. Consideration of safety factors of 10 or higher may be necessary depending upon the application such as life safety or overhead.

INSTALLATION INSTRUCTIONS – STAINLESS STEEL ANKA BOLTS



1.) Using the proper drill bit size, drill a hole into the base material to the required depth. The tolerances of the drill bit used should meet the requirements of ANSI Standard B212.15.

2.) Remove dust and debris from the hole using a hand pump, compressed air or a vacuum to remove loose particles left from drilling.

3.) Position the supplied washer on the anchor and thread on the supplied nut. If installing through a fixture, drive the anchor through the fixture into the hole. Be sure the anchor is driven to the minimum required embedment depth,

4.) Tighten the anchor with a torque wrench by applying the required installation torque, T_{inst} .



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