



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Powers Fasteners, Inc.
2 Powers Square
New Rochelle, NY 10801

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Wedge-Bolt Anchor.

APPROVAL DOCUMENT: Drawing No. MD-0001, Sheets 1 of 1, titled "Wedge-Bolt Anchor" dated 02/03/00 with last revision on 03/03/03, prepared by Power Fasteners, Inc., signed and sealed by L. W. Mattis, PE, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance (NOA) number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Candido F. Font, P.E.**


4/18/3



NOA No. 00-0229.04
Expiration Date: May 1, 2006
Approval Date: May 1, 2003
Page 1

Powers Fasteners, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Drawing No. **MD-0001**, Sheets 1 of 1, titled "Wedge-Bolt Anchor" dated 02/03/00 with last revision on 03/03/03, prepared by Powers Fasteners, Inc., signed and sealed by L. W. Mattis, PE.

B. TESTS

	Laboratory	Test Report	Date	Signature
1.	CEL OR72-0324	ASTM E488	03/24/00	L. W. Mattis, PE.
2.	CEL OR72	ASTM E488	01/21/00	L. W. Mattis, PE.
3.	CEL OR72-0516	ASTM E488	05/16/00	L. W. Mattis, PE
4.	ARL 30353	PA 114	10/10/02	C. A. Hamon, PE

C. CALCULATION

None

D. MATERIAL CERTIFICATIONS

None

E. STATEMENTS

- 1 Code compliance letter issued by Cel Consulting on 03/26/03, signed and sealed by L. W. Mattis, PE.


Candido F. Font, P.E.
Senior, Product Control Division
NOA No. 00-0229.04
Expiration Date: May 1, 2006
Approval Date: May 1, 2003

The Wedge-Bolt anchor is a universal high strength carbon steel anchor designed for use in stone aggregate concrete. It is a versatile, high performance anchor that is ~~not~~ removable. It is available with a finished hex washer head in 1/4", 3/8", 1/2", 5/8" and 3/4" diameters. The Wedge-Bolt anchor is a one-piece unit formed from through hardened steel with a finished hex head formed with an integral washer, a dual lead thread, and a chamfered tip. The carbon steel version of the anchor is zinc-plated for corrosion resistance with a supplemental chromate finish in accordance with ASTM B 633.

The Wedge-Bolt anchor hole must be drilled using a special matched tolerance Wedge-Bit. To install the anchor, press the chamfered tip of the anchor through the fixture into the hole, and tighten it using a socket wrench or impact wrench. As the anchor is tightened into the hole, the reverse parabolic dual lead threads undercut the wall of the hole. The dual lead thread is formed with a high helix angle for fast entry and advancing. A specially designed relief thread formed in the body of the anchor allows easy tightening. For ease of identification after installation, the head of the anchor is stamped with both the diameter and length. Allowable tension and shear values are noted in the following tables.

WEDGE-BOLT ANCHOR

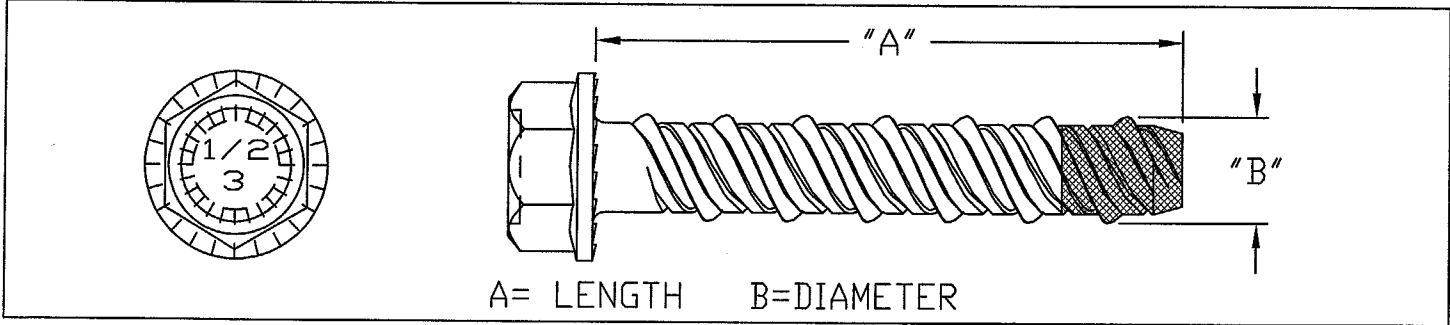


TABLE No. 1

WEDGE-BOLT ANCHOR – Allowable Loads.

Anchor Size (inches)	Embedment Depth (inches)	2000 psi Concrete		3000 psi Concrete		4000 psi Concrete		5000 psi Concrete		6000 psi Concrete	
		Tension (pounds)	Shear (pounds)	Tension (pounds)	Shear (pounds)	Tension (pounds)	Shear (pounds)	Tension (pounds)	Shear (pounds)	Tension (pounds)	Shear (pounds)
1/4	1	230	260	305	395	380	525	400	570	415	610
	1-1/2	440	645	515	670	590	695	605	685	620	675
	2	700	695	880	695	1,060	695	1,155	770	1,245	840
	2-1/2	1,055	770	1,140	770	1,225	770	1,270	845	1,315	915
3/8	1-1/2	535	900	600	1,015	665	1,130	715	1,485	760	1,835
	2	825	1,130	930	1,130	1,030	1,130	1,165	1,485	1,300	1,835
	2-1/2	1,115	1,130	1,255	1,130	1,390	1,130	1,615	1,485	1,835	1,835
	3	1,545	1,495	1,770	1,495	1,995	1,495	2,235	1,685	2,475	1,870
	3-1/2	1,975	1,715	2,290	1,790	2,600	1,860	2,855	1,885	3,110	1,905
1/2	2	740	1,510	865	1,685	985	1,855	1,090	2,055	1,195	2,250
	2-1/2	1,025	1,855	1,165	1,925	1,300	1,995	1,460	2,155	1,620	2,315
	3	1,360	1,925	1,655	2,055	1,950	2,185	2,150	2,250	2,345	2,315
	3-1/2	1,515	2,165	1,820	2,220	2,120	2,270	2,550	2,335	2,975	2,400
	4	1,905	2,165	2,610	2,220	3,315	2,270	3,315	2,335	3,315	2,400
5/8	2-1/2	855	1,950	1,020	2,390	1,180	2,830	1,455	3,120	1,725	3,405
	3	1,140	2,520	1,495	2,855	1,845	3,185	2,045	3,380	2,240	3,575
	4	2,070	3,435	2,630	3,645	3,190	3,850	3,385	3,915	3,580	3,980
	5	3,360	4,120	3,960	4,280	4,555	4,440	4,885	4,440	5,215	4,440
3/4	3	1,080	3,070	1,350	3,475	1,620	3,875	2,095	4,285	2,565	4,695
	4	1,800	3,905	2,420	4,805	3,035	5,705	3,270	5,705	3,505	5,705
	5	3,100	5,460	3,440	6,065	3,780	6,675	4,315	6,775	4,850	6,875
	6	4,395	7,010	4,460	7,325	4,520	7,640	5,355	7,845	6,190	8,045

- 1- Allowable Loads are based on Ultimate Load divided by a 4:1 safety factor.
2- Spacing and edge distance shall be in accordance with Table No. 2.
3- The allowable Loads may be increased 33 1/3% for short loading due to seismic or wind forces.

TABLE No. 2

WEDGE-BOLT ANCHOR – Allowable Spacing and Edge Distance.

	DISTANCE FOR FULL ANCHOR CAPACITY (Critical Distance) ¹	DISTANCE FOR REDUCED ANCHOR CAPACITY (Minimum Distance) ²	REDUCTION FACTOR ³
SPACING BETWEEN ANCHORS	12D	6D	0.50
EDGE DISTANCE – TENSION	6D	3D	0.50
EDGE DISTANCE – SHEAR	12D	3D	0.17

- 1- The listed values are the minimum distances required to obtain the load values listed in Table No. 1. D= Anchor Diameter. When adjacent anchors are different sizes or embedments, use largest value of D.
2- The listed values are the minimum distances at which the anchor can be set, when load values are adjusted appropriately.
3- Load values in the tables are multiplied by the reduction factor when anchors are installed at the minimum spacing listed. Use linear interpolation for spacing between critical and minimum distances. Multiple reduction factors for more than one spacing or edge distance shall be calculated separately and multiplied.

Approved as complying with the
Florida Building Code
Date 05/01/03
NOA# 00-0229.04
Miami Dade Product Control
Division
By [Signature]

REVISED VALUES ON TABLE No. 2.	3/3/03
ADDED 5/8" & 3/4" ALLOWABLE LOADS.	10/17/01
REVISION DESCRIPTION	DATE

[Signature]	TITLE WEDGE-BOLT ANCHOR		
	Powers Fasteners, Inc. 2 Powers Square New Rochelle, N.Y. 10801		
	DATE OF ISSUE: 2/3/2000	SHEET No. 1 OF 1	DRAWING No. MD-0001