



**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)

**Allied Fasteners & Tool, Inc.
1130 North G. Street.
Lake Worth, FL 33460-2195**

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 the BCCO and accepted by the Building Code and Product Review Committee (BCPRC) 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 BCCO (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. BCPRC reserves the right to revoke this acceptance, if it is determined by BCCO 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 South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

DESCRIPTION: ALLIED A1000+Adhesive Anchoring System.

APPROVAL DOCUMENT: Drawing No.02-256, Sheets 1 of 1, titled "ALLIED A1000+ Adhesive Anchoring System," dated 01/16/02, prepared by Knezevich & Associates, Inc. signed and sealed by V. J. Knezevich PE., bearing the Miami-Dade County Product Control Approval stamp with the 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 NOA consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Candido F. Font PE.**



**NOA No: 02-0122.07
Expiration Date: January 4, 2004
Approval Date: February 28, 2002
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED
(For File ONLY. Not part of NOA)

A. DRAWINGS

1. See NOA 99-1028.05
Drawing No. **02-256**, Sheets 1 of 1, titled "Allied A1000+ Adhesive Anchoring System," dated 01/16/02, prepared by Knezevich & Associates, Inc. signed and sealed by V. J. Knezevich, P.E.

B. TESTS

1. See NOA 99-1028.05
2. Test report on Acceptance Criteria for Epoxy Anchors for Concrete Chemical Anchoring System, Model: "Epcon G5", prepared by Applied Research Laboratories, on 07/28/99, signed and sealed by C. A. Hamon, PE.
3. Test report on Acceptance Criteria for Epoxy Anchors for Concrete Chemical Anchoring System Model: "Epcon G5" (Rebar-Tension) prepared by Applied Research Laboratories, on 07/28/99, signed and sealed by C. A. Hamon, PE.

C. CALCULATION

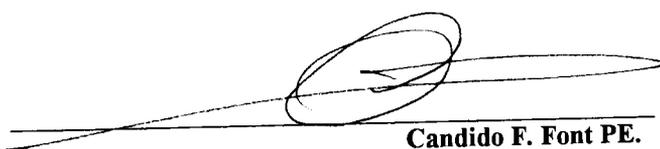
N/A

D. MATERIAL CERTIFICATIONS

N/A

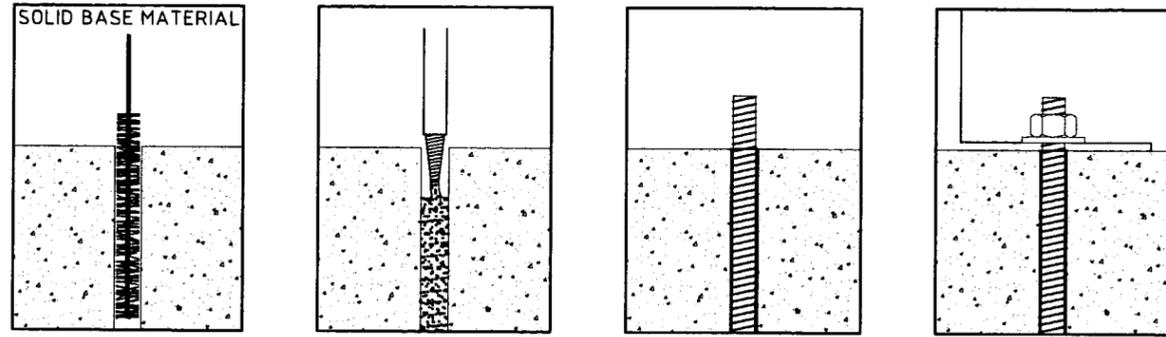
E. STATEMENTS

1. See NOA 99-1028.05
2. Code compliance letter issued by Knezevich & Associates, Inc. on 12/08/00, signed by V. J. Knezevich, PE.
3. Evaluation report by ICBO Evaluation Service, Inc. report No. ER-5308, reissued on April 1, 1999.
4. Private Labeling Agreement, prepared by ITW Ramset/Red Head and Allied Fastener & Tool, Inc., signed by Robert J. Harding and Robert R. Helcher.



Candido F. Font PE.
Sr. Product Control Examiner
NOA No 02-0122.07
Expiration Date: January 4, 2004
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**FIGURE 1
INSTALLATION STEPS**



1. DRILL PROPER SIZED HOLE. CLEAN OUT HOLE FROM BOTTOM WITH FORCED AIR. COMPLETE HOLE PREPARATION WITH USE OF A BRUSH AND REPEAT CLEANING WITH FORCED AIR (LEAVE NO DUST OR SLURRY).
2. WHEN STARTING NEW CARTRIDGE OR NOZZLE, DISPENSE AND DISCARD ENOUGH ADHESIVE UNTIL UNIFORM GRAY COLOR IS ACHIEVED. INSERT THE NOZZLE INTO THE BOTTOM OF THE HOLE AND FILL TO 1/2 THE HOLE DEPTH.
3. INSERT THE SELECTED ROD OR REBAR SLOWLY BY HAND INTO THE BOTTOM OF THE HOLE WITH A SLOW TWISTING MOTION. THIS INSURES THE ADHESIVE FILLS VOIDS AND CREVICES UNIFORMLY.
4. SEE TABLE 3 CURE TIME CHART FOR SETUP TIME. AFTER THE RECOMMENDED CURE TIME IS MET, INSTALL AND TIGHTEN FIXTURE INTO PLACE.

GENERAL NOTES:

1. THIS ADHESIVE ANCHORING SYSTEM IS DESIGNED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE (S.F.B.C.), 1994 EDITION FOR MIAMI-DADE COUNTY.
2. REFERENCE APPLIED RESEARCH LABORATORIES (A.R.L.) TEST REPORTS No. 29986 AND No. 29987.
3. ALLIED A1000+ ADHESIVE ANCHORING SYSTEM IS A TWO COMPONENT STRUCTURAL EPOXY ADHESIVE FOR STUD-TYPE THREADED RODS OR DEFORMED REINFORCING BARS (REBAR) INSTALLED IN MINIMUM 3,000 P.S.I. NORMAL-WEIGHT CONCRETE. THE COMPONENTS ARE AN EPOXY RESIN AND AN AMINE-BASED HARDENER WHICH SHALL BE MIXED TO A 1:1 RATIO BY VOLUME. THE ADHESIVE IS IDENTIFIED AS ALLIED A1000+. THE SYSTEM IS LIMITED TO ANCHORS THAT RESIST SHORT-TERM WIND-LOAD APPLICATIONS ONLY.
4. THIS ADHESIVE ANCHORING SYSTEM SHALL BE INSTALLED PER FIGURE 1.
5. THE STUD-TYPE THREADED RODS MAY RANGE FROM 5/8" THROUGH 1" IN DIAMETER, AND SHALL COMPLY WITH EITHER ASTM A193, GRADE B7 [Fu = 125,000 P.S.I., MINIMUM], ASTM A307 [Fu = 60,000 P.S.I., MINIMUM], OR ASTM F593, GRADE F593A (ALLOY TYPE 304) [Fu = 115,000 P.S.I., MINIMUM].
6. DEFORMED REINFORCEMENT BARS MAY RANGE FROM No. 4 TO No. 8. SHALL HAVE A MINIMUM SPECIFIED YIELD STRENGTH, OF 60 K.S.I. AND SHALL COMPLY WITH ASTM A 615, GRADE 60.
7. NORMAL-WEIGHT CONCRETE SHALL HAVE A MINIMUM 3,000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS. CONCRETE MATERIALS SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE. MANUAL OF CONCRETE PRACTICE, ACI301.
8. ALLOWABLE SHEAR AND TENSION LOADS ARE BASED ON THE ULTIMATE LOAD DIVIDED BY 4. REFER TO TABLES 1 & 2 FOR ALLOWABLE SHEAR & TENSION LOADS.
9. TABLE 1 AND TABLE 2 ALLOWABLE LOAD VALUES ARE VALID ONLY AT 70° F BASE MATERIAL TEMPERATURE AND SHALL BE REDUCED PER FIGURE 2 WHEN INSTALLED AT LOCATIONS WHERE THE BASE MATERIAL TEMPERATURE MAY EXCEED 70° F.
10. MINIMUM ANCHOR SPACINGS SPECIFIED IN TABLES 1 & 2 EQUAL 2 TIMES THE EMBED. DEPTH.
11. MINIMUM EDGE DISTANCES SPECIFIED IN TABLES 1 & 2 EQUAL 2 TIMES THE EMBEDMENT DEPTH FOR SHEAR AND 1 TIME THE EMBEDMENT DEPTH FOR TENSION.

REBAR ANCHORS INSTALLED IN MIN. 3000 P.S.I. CONCRETE @ 70° F BASE MATERIAL TEMP.

TABLE	REBAR SIZE	HOLE DIAMETER (INCHES)	MINIMUM EMBEDMENT DEPTH (INCHES)	MINIMUM ANCHOR SPACING (INCHES)	MINIMUM EDGE DIST. (INCHES)	ALLOWABLE LOAD * (POUNDS)
						TENSION
1	#4	5/8	4-1/2	9	4-1/2	3,465
	#5	3/4	5-5/8	11-1/4	5-5/8	5,151
	#6	7/8	6-3/4	13-1/2	6-3/4	6,756
	#7	1-1/8	7-7/8	15-3/4	7-7/8	9,784
	#8	1-1/4	9	18	9	12,439

* ALLOWABLE LOAD VALUES SHALL BE REDUCED PER FIGURE 2 FOR INSTALLATIONS WHERE BASE MATERIAL TEMPERATURE IS HIGHER THAN 70° F.

THREADED ROD ANCHORS INSTALLED IN MIN. 3000 P.S.I. CONCRETE @ 70° F BASE MATERIAL TEMPERATURE

TABLE	ANCHOR DIAMETER (INCHES)	HOLE DIAMETER (INCHES)	MINIMUM EMBEDMENT DEPTH (INCHES)	MINIMUM ANCHOR SPACING (INCHES)	MINIMUM EDGE DIST. (INCHES)		ALLOWABLE LOAD * (POUNDS)	
					TENSION	SHEAR	TENSION	SHEAR
2	5/8	3/4	5-5/8	11-1/4	5-5/8	11-1/4	4,880	5,122
	3/4	7/8	6-3/4	13-1/2	6-3/4	13-1/2	7,597	7,118
	1	1-1/8	9	18	9	18	11,187	11,641

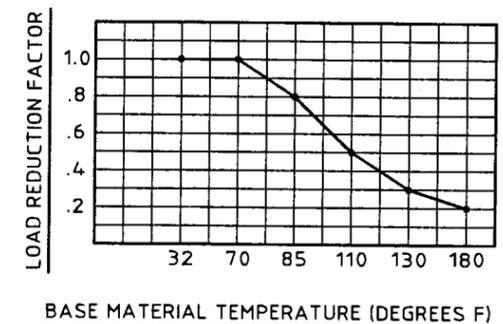
* ALLOWABLE LOAD VALUES SHALL BE REDUCED PER FIGURE 2 FOR INSTALLATIONS WHERE BASE MATERIAL TEMPERATURE IS HIGHER THAN 70° F.

CURE TIME CHART

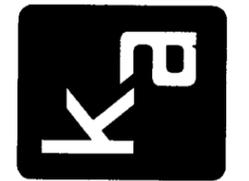
TABLE	MINIMUM CONCRETE TEMPERATURE (°F) ¹	MINIMUM WORKING TIME (MINUTES) ²	MINIMUM CURE TIME (HOURS) ³
3	65	45	24
	68	45	24
	≥ 90	34	24

1. ADHESIVES SHALL BE INSTALLED IN SUBSTRATES AT TEMPERATURES BETWEEN 65°F AND 125°F AT TIME OF INSTALLATION AND CURING OF THE EPOXY ADHESIVE
2. ANCHORS ARE TO BE UNDISTURBED DURING THE WORKING TIME.
3. CURE TIME REQUIRED PRIOR TO APPLICATION OF ALLOWABLE (DESIGN) TENSILE AND SHEAR LOADS.

FIGURE 2



APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE 02/28/02
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 02-0122.07



KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS • PRODUCT TESTING
1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
TEL: (954) 382-2800 • FAX: (954) 382-2889 • FLORIDA C.O.A. #3205
WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KAG@KNEZEVICH.COM
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**ALLIED A1000+
ADHESIVE ANCHORING SYSTEM**
ALLIED FASTENER & TOOL, INC.
1130 NORTH G. ST.
LAKE WORTH, FLORIDA 33460
TEL: (561) 585-2113 FAX: (561) 585-3715

V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No. PE 0010983

JAN 16 2002

revisions	description
no	date
date	01/16/02
scale	AS NOTED
drawn by	AV
design by	AS
checked by	VJK
drawing no.	02-256
sheet	1 of 1