



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

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Marksmen Manufacturing Corporation
259 Cortland Street
Lindenhurst, NY 11757

Your application for Notice of Acceptance (NOA) of:

Thunderstud Concrete Wedge Anchor

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Raul Rodriguez
Chief Product Control Division

ACCEPTANCE NO.: 01-0614.12
EXPIRES: 09/23/2006

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 12/06/2001

Marksman Manufacturing Corp.

ACCEPTANCE NO: 01-0614.12

APPROVED: DEC 06 2001

EXPIRES: SEP 23 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This approves concrete anchors as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County. For the locations where the actual loads as determined by SFBC Chapter 23, do not exceed the allowable load indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The **Thunderstud Concrete Wedge Anchor** shall be fabricated and used in strict compliance with the following documents: Drawing No TS104, titled "Thunderstud Wedge Anchor", prepared by Marksman Manufacturing Corporation, dated 10/19/01 sheet 1 of 1. The drawings bear the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 Allowable loads are for 2000, 4000 & 6000 psi compressive strength Concrete.

4. INSTALLATION

4.1 The concrete anchor shall be installed in strict compliance with the installation instructions published by Marksman Manufacturing Corporation.

5. LABELING

5.1 Each concrete anchors shall have a mark identifying the manufacturer and each box of anchors shall have a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT

6.1 Application for Building Permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings as identified in Section 2 of this Notice of Acceptance, clearly marked to show the hangers and angles selected for the proposed installation.

6.1.3 Any other document required by the Building Official or the SFBC in order to properly evaluate the installation of these products.



Candido Font, PE, Sr. Product Control Examiner
Product Control Division

Marksmen Manufacturing Corp.

ACCEPTANCE NO: 01-0614.12_

APPROVED: DEC 06 2001

EXPIRES: SEP 23 2006

NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.



Candido Font, PE, Sr. Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE

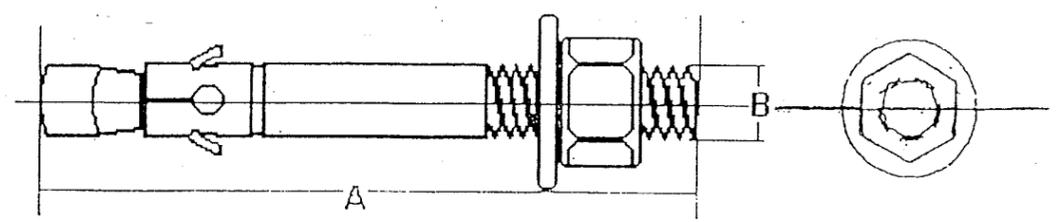
ANCHOR DIAMETER	EMBED DEPTH	2000 PSI		4000 PSI		6000 PSI		TORQUE FT-LB
		TENSION	SHEAR	TENSION	SHEAR	TENSION	SHEAR	
1/4	1 1/8	293	361	443	397	693	658	8
	1 3/4	427		645		693		
	2 3/4	427		687		708		
3/8	1 1/2	408	1000	909	1284	1025	1558	28
	3	807		1413		1333		
	5	1019		1582		1478		
1/2	2 1/4	1000	1855	1679	2344	2404	2472	60
	4	1584		2236		2548		
	6	1726		2544		3016		
5/8	2 3/4	1250	2064	1690	3232	2440	4093	90
	5	2214		2354		3450		
	7	2345		3066		3986		
3/4	3 1/4	1660	3126	2253	4263	4058	5741	175
	6	2521		3331		5273		
	8	2793		3331		5631		
7/8	3 7/8	2098	4563	3135	5059	4200	5995	250
	5 3/4	3016		3631		5851		
	8 3/4	3412		4073		6391		
1	4 1/2	2443	5904	4563	6901	6865	7227	300
	7 1/2	2973		6682		8740		
	10	3909		7623		9460		
1 1/4	5 1/2	4388	8069	5743	10672	8092	13892	450
	7	5274		6957		12092		
	10	6973		8697		15318		

General Notes:

- 1) Values shown are allowable loads which are ultimate loads divided by 4.
- 2) In order to achieve the allowable loads. A minimum edge distance of 5 times the diameter of the anchor and a minimum distance from anchor to anchor is 10 times the diameter.
- 3) Anchor installation shall be made in accordance with Marksmen Manufacturing Corp.'s published Installation instructions

THUNDERSTUD ZINC ALLOY WEDGE ANCHOR

THUNDERSTUD ZINC PLATED STEEL WEDGE ANCHOR



A = LENGTH B = DIAMETER

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE DEC 06 2001
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0614.12

[Signature] 10/22/01
FL PE #39810

No.	REVISIONS	DATE	APP	MATERIAL

MARKSMEN MANUFACTURING CORPORATION 259 CORTLAND STREET LINDENHURST, NY 11757	
DESCRIPTION:	THUNDERSTUD WEDGE ANCHOR
SHEET NO. 1/1	DATE 10/19/01 DRAWING NO. TS104