



**BUILDING CODE COMPLIANCE OFFICE**  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
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**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**

**Illinois Tool Works Inc. /Division of Buildex**  
**1349 West Bryn Mawr Avenue**  
**Itasca ,IL 60143**

Your application for Notice of Acceptance (NOA) of:

**Lite Weight Concrete Fastener**

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.

**ACCEPTANCE NO.: 00-0628.01**  
**EXPIRES: 10/05/2003**

Raul Rodriguez  
Chief Product Control Division

**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: 10/05/2000**

**ROOFING ASSEMBLY APPROVAL**

**Category:** Roofing  
**Sub-Category:** Roofing Fasteners

**Approval Date:** October 05, 2000

**Materials:** Steel  
**Maximum Design Pressure** N/A.  
**Fire Classification:** N/A

**Expiration Date:** October 05, 2003

**SCOPE:**

This approves ITW Buildex "LITE WEIGHT CONCRETE FASTENING SYSTEM" for use with any approved roof assemblies listing ITW Buildex "LITE WEIGHT CONCRETE FASTENING SYSTEM" as an approved fastening system.

**APPROVED APPLICATIONS:**

**Decks:** Aggregate or Cellular lightweight insulating concrete (with current NOA).

**Application:** See specific Roof Assembly Product Control Approval Notice of Acceptance for fastener density and attachment patterns.

**Base Sheet:** See specific Roof Assembly Product Control Approval Notice of Acceptance

**TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:**

Product Name	Dimensions	Test Specification	Product Description
Lite Weight Concrete Fastener	1.09" x 1.13" head x 1.76" length fitted with 3" diameter plate.	PA 114 (E) PA 117 (A) PA 117 (B)	G-90 galvanized fastener for base sheet attachment to lightweight insulating concrete decks not less than 2" thick. Coated with gray corrosion resistant coating.

**TYPICAL PHYSICAL PROPERTIES:**

Withdrawal Resistance Performance (PA 117(A) - Static Load)		
Fastener	Deck Type <sup>1</sup>	Withdrawal Resistance Value Under Static Load Fully Cured (≥ 28 days)
Buildex Lite Weight Concrete Fastener	Aggregate Lightweight (min. 125 psi)	82 lbf
	Cellular Lightweight (min. 200 psi)	125 lbf
	Cellular Lightweight (min. 300 psi)	101 lbf
Withdrawal Resistance Performance (PA 117(A) - Pulsating Load)		
Buildex Lite Weight Concrete Fastener	Cellular Lightweight (min. 300 psi)	39 lbf

Minimum compressive strength values noted herein correspond to that of the specimens utilized during withdrawal resistance testing.



Frank Zuloaga, RRC  
 Roofing Product Control Examiner

Dynamic Pull Through Performance (3" Diameter Plate)		
Base Sheet Manufacturer	Base Sheet	Dynamic Pull Through Value (lbf) <sup>1</sup>
Honeywell	Black Armor Glass Fiber Base	152
Honeywell	Black Armor Vented Base	171
Honeywell	Black Armor Glass Fiber Felt	164
Honeywell	Black Armor Premium Glass Fiber	157
Celotex Corporation	Channel Vent GB	176
Celotex Corporation	Hydrostop	202
Celotex Corporation	Vaporbar GB	175
Celotex Corporation	Vaporbar	193
GAF Materials Corporation	GAFGlas #75	162
GAF Materials Corporation	GAFGlas #75M	178
GAF Materials Corporation	GAFGlas Ply 4	152
GAF Materials Corporation	Ruberoid 20	202
GS Roofing Products Company, Inc.	Flex-I-Base	169
GS Roofing Products Company, Inc.	Glasbase Base Sheet	136
Johns Manville	Glasbase	168
Johns Manville	Dynabase	194
Johns Manville	Ventsulation	152
Johns Manville	Perma Ply R	206
Johns Manville	Glasbase Plus	196
Johns Manville	Glasply Premier	242
Johns Manville	Perma Ply 28	182
Siplast	Parabase	143
Siplast	Parabase Plus	135
Tamko Roofing Products, Inc.	Vapor Chan	175
Tamko Roofing Products, Inc.	Glas-Base	187
Tremco	BURmastic Glass Ply	139
Tremco	BURmastic Composite Ply	250
U.S. Intec, Inc.	Ultra Base	138
U.S. Intec, Inc.	Permavemt	148

<sup>1</sup> Dynamic Pull-Through Values listed relate to 3" diameter plate bonded between listed base sheet and one ply of type IV in 25 lbs/sq of ASTM D 312, type III asphalt.

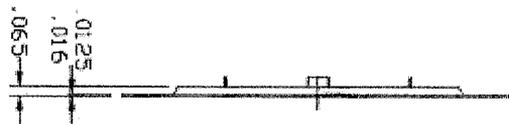
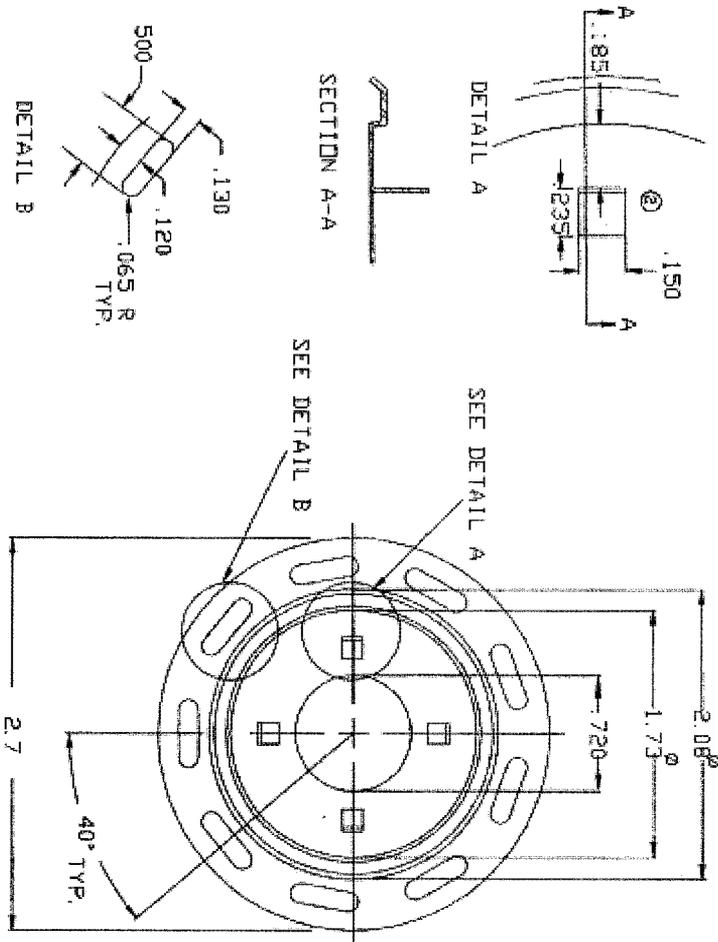
**EVIDENCE SUBMITTED:**

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corporation	FMRC 4454 (PA 114)	J.I. 1Y2A4.AM	Aug. 1995
The Center for Applied Engineering, Inc.	PA 114, Appendix E	25-7361	Aug. 1995
Trinity Engineering, Inc.	PA 117(A) & PA 117(B)	#4730.12.95-1	Dec. 1995

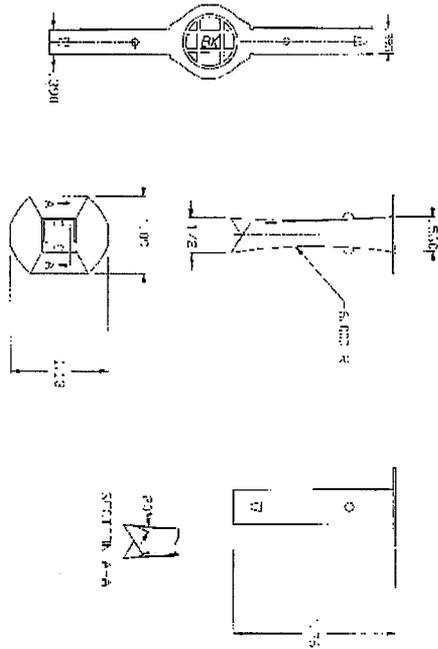


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### Detail "A"



### Detail "B"



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**GENERAL LIMITATIONS:**

1. Refer to Roof Assembly Product Control Notice of Acceptance for use, density and attachment patterns.
2. ITW Buildex, Lite Weight Concrete Fasteners shall not be used to attach insulation or single-ply membrane.
3. Fasteners shall be installed in strict compliance with manufacturer's installation instructions, and in compliance with the requirements set forth in Roofing Application Standard RAS 117.
4. Care shall be taken not to puncture or tear the base sheet during fastener installation.

**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 purposes.
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 times. The copies need not be resealed by the engineer.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Acceptance contains pages 1 through 6.

**END OF THIS ACCEPTANCE**

Frank Zuloaga, RRC  
Roofing Product Control Examiner