MIAMI-DADE

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

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

Bekaert Corporation
2000 Isaac Shelby Drive
Shelbyville ,KY 40065

Your application for Notice of Acceptance (NOA) of:
Dramix Fibers
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.: 00-0613.01
EXPIRES: 09/07/2003

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: 09/07/2000

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. **SCOPE**
This approves Dramix RL45/50 BN steel fibers as an alternate to the requirements of 0.029 square inch steel reinforcement per lineal foot in nonstructural slabs placed directly on supporting soil as detailed in subsection 2404.4(b)1 of the South Florida Building Code. All other requirements in subsection 2404 (slab thickness, compaction, quality of soil, etc.) shall be observed. Where a concrete slab is supported by a foundation wall or continuous footing adequate steel reinforcing shall be designed by the engineer or architect of record. Eccentric foundations that depend on the concrete slab to balance the ecccentricity shall also have adequate steel reinforcing designed by the architect or engineer of record.

2. **PRODUCT DESCRIPTION**
Dramix RL45/50BN fibers are filaments of wire, deformed and cut to length, with hooked ends for use as secondary concrete reinforcement. They are available in 2" long x 0.041" diameter, that are furnished loose that dispense during mixing when added to a concrete mix. Their aspect ratio l/d must exceed 45.

3. **LIMITATIONS**
The use of these fibers shall be clearly indicated in the "approved drawings" and must be approved by the architect or engineer of record. Dramix RL45/50BN steel fibers may be used in lieu of the steel mesh for control of shrinkage cracking and is not intended to furnish structural strength or substitute steel reinforcing required to resist computed tensile stresses.

4. **INSTALLATION**
Dramix RL45/50BN steel fibers may be added to concrete at any point during the batching or mixing process at 132 lb/min. The load must be mixed at high speed for 5 minutes, or 70 revolutions, after the addition of Dramix steel fibers to ensure uniform distribution. The standard range of addition of Dramix steel fibers is 25 to 100 lbs./yd^3 of concrete. Dramix steel fibers dosage rate shall be not less than 42 lbs./yd^3 in order to comply with the requirements of section 2404.4(b)1 of the South Florida Building Code. The batch or load ticket shall indicate the amount of Dramix steel fibers added to the mix and shall be available to the inspector upon request.

5. **LABELING**
The bags of Dramix steel fiber shall be labeled with the manufacturer's name, city, state and the following statement: "Dade County Product Control Approved" or the manufacturer's logo and the Dade County logo.

6. **BUILDING PERMIT REQUIREMENTS**
6.1 Application for Building Permit shall be accompanied by copies of the following:
6.1.1 This Notice of Acceptance.
6.1.2 Any other document required by the Building Official or the SFBC in order to properly evaluate the installation of this product.

Candido Font, P.E., Sr. Product Control Examiner
Product Control Division

Bekaert Corporation.

ACCEPTANCE NO.: 00-0613.01

APPROVED : SEP 0 7 2000

EXPIRES : SEP 0 7 2003

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: "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 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 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 Acceptance contains pages 1, 2 and this last page 3.

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

END OF THIS ACCEPTANCE

Bekaert Corporation.

ACCEPT 'CE No.: **00-0613.01**

APPROVED : SEP 0 7 2000

EXPIRES : SEP 0 7 2003

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWING

N/A

B. TEST

	Laboratory Report	Test	Date	Signature
1	Twin City 030107	ASTM A820	05/25/2000	J. D. Lee, PE.
2	Twin City 030107	ASTM C1018	06/06/2000	J. D. Lee, PE.

C CALCULATION

N/A

D MATERIAL CERTIFICATION

1 Underwriters Laboratories, Inc., File No. R19307, test report project 99NK32729 of classification of fiber reinforcement per ASTM E119 NFPA No. 25, dated 06/16/2000, signed by J. A. Treadway.

E STATEMENTS

1 Conformance with ASTM A820, issued by Twin City Testing Laboratory, on 05/22/2000, signed and sealed by J. D. Lee, PE.

2 Code compliance letter issued by Bennett & Pless Incorporated on 06/05/2000, signed and sealed by E. M. Bennett, PE.

3 No financial interest letter issued by Bennett & Pless Incorporated on 06/05/2000, signed by E. M. Bennett, PE and notarized by S. Brownlee on 06/08/2000.

Candido Font, P.E. Sr. Product Control Examiner
Product Control Division