



ICC Evaluation Service, Inc.
www.icc-es.org

Business/Regional Office ■ 5360 Workman Mill Road, Whittier, California 90601 ■ (562) 699-0543
Regional Office ■ 900 Montclair Road, Suite A, Birmingham, Alabama 35213 ■ (205) 599-9800
Regional Office ■ 4051 West Flossmoor Road, Country Club Hills, Illinois 60478 ■ (708) 799-2305

Legacy report on the 1997 *Uniform Building Code*™

DIVISION: 03—CONCRETE
Section: 03240—Fibrous Reinforcing

MULTIMESH SYNTHETIC FIBER FOR CONCRETE

NYCON, INC.
101 CROSS STREET
WESTERLY, RHODE ISLAND 02891

1.0 SUBJECT

MultiMesh Synthetic Fiber for Concrete.

2.0 DESCRIPTION

2.1 General:

MultiMesh Synthetic Fibers are monofilament nylon fibers that are 3/4 inch (19.1 mm) in length; the fibers are furnished in degradable paper bags weighing 3/4 pound (0.34 kg). The fibers are regarded as an admixture and used in controlling plastic shrinkage cracking of reinforced concrete and structural plain concrete. The fibers are also used to help care for shrinkage and thermal stresses in structural plain concrete slabs on grade.

2.2 Installation:

MultiMesh fibers are added to normal-weight concrete at the rate of 0.75 pound per cubic yard (0.44 kg/m³) of concrete. The fibers are added to the concrete during concrete batching or are added to mixed concrete. To ensure uniform distribution, the concrete (with the fibers) must be mixed for a minimum of four minutes prior to concrete placement.

2.3 Identification:

Each bag of fibers is labeled with the Nycon, Inc., name and address; the product name; the fiber length; the quantity of product; and the evaluation report number (ER-5460).

For concrete with fibers added at a concrete batching plant, a delivery ticket complying with Section 4.6 must be made available to the building inspector upon request.

3.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Concrete with Synthetic Fibers (AC32), dated April 1999.

4.0 FINDINGS

That the MultiMesh fibers described in this report comply with the 1997 *Uniform Building Code*™ (UBC), subject to the following conditions:

- 4.1 The fibers are not used as a replacement for any reinforcement required for structural purposes.
 - 4.1.1 The fibers may be used as an admixture to assist in controlling cracking due to plastic shrinkage in structural plain concrete slabs on grade.
 - 4.1.2 The fibers may be used to assist in controlling cracking due to shrinkage and thermal stresses in structural plain concrete slabs on grade.
- 4.2 Structural design of the concrete complies with the code.
- 4.3 Application and mixing comply with this report and the manufacturer's instructions.
- 4.4 Contraction or isolation joints are provided in accordance with Section 1922.3 of the UBC and Section 22.3 of ACI 318-95.
- 4.5 For reinforced concrete, structural reinforcement and shrinkage and temperature reinforcement required in Section 1907.12 of the UBC is provided.
- 4.6 Use of fibers is approved by the project engineer or architect, if there is one.
- 4.7 A delivery ticket, signed by the weight master, is available to the building official upon request. The delivery ticket must include, in addition to the items noted in Section 16.1 of ASTM C 94, the type and amount of fibers added to the concrete mix.

This report is subject to re-examination in two years.

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