



## Report of Materials and Equipment Acceptance Division

NYC Department of Buildings  
280 Broadway, New York, NY 10007  
Patricia Lancaster, FAIA, Commissioner  
(212) 566-5000, TTY: (212) 566-4769

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

### MEA 161-07-M

**Manufacturer:** W.R Grace & Co., 62 Whittemore Ave, Cambridge, MA 02140

**Trade Name(s):** W.R. Grace, Strux 90/40

**Product:** Fire-rated floor/ceiling assembly using Polypropylene Fiber

**Pertinent Code Section(s):** 27-323

**Prescribed Test(s):** RS 5-2 (ASTM E119)

**Laboratory:** Underwriters Laboratories, Inc.

**Test Report(s):** File R13667, Project 05NK22916 dated April 21, 2006.

**Description:** A polypropylene macro-synthetic fiber used as an alternate or in addition to welded wire fabric (temperature and shrinkage reinforcement) in 1, 1 ½ and 2 hour floor-ceiling D700, D800 and D900 series composite deck design assemblies. Strux 90/40 complies with ANSI/SDI C1.0 Standard for Composite Floor Deck code provisions for temperature and shrinkage reinforcement and is UL classified for use in D700, D800 and D900 series assemblies.

#### Notes:

- 1) In accordance with ANSI/SDI C1.0 Strux 90/40 must be dosed at a minimum additional rate of 4 lbs. per cubic yard of concrete if used as a replacement for temperature and shrinkage reinforcement.
- 2) In accordance with Grace – Strux 90/40 UL Fiber listing (CBXQ.R13667) maximum dosage rate for Strux 90/40 is 5 lbs per cubic yard of concrete for use in D700, D800 and D900 series assemblies.

**Terms and Conditions:** The above-described fire-rated floor/ceiling assembly using Strux 90/40 fiber is accepted under the following conditions:

1. Structural requirements shall comply with Subchapter 10, Reference Standard RS 10-3 and other applicable provisions of the New York City Building Code.
2. The acceptance of this assembly is limited to fire resistance only. Structural and other requirements shall be in accordance with pertinent Building Code, Laboratories' listing and manufacturer's requirements.
3. All shipments and deliveries of such equipment shall be provided with print marking on the equipment, suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and acceptable for use, as provided in Section 27-131 of the New York City Building Code.

NOTE: In accordance with Section 27-131(d), all materials tested and accepted for use shall be subject to periodic retesting as determined by the Commissioner; and any material which upon retesting is found not to comply with Code requirements or the requirements set forth in the approval of the Commissioner shall cease to be acceptable for the use intended. During the period for such retesting, the Commissioner may require the use of such material to be restricted or discontinued if necessary to secure safety.

Final Acceptance July 17, 2007

Examined By Siam Derphidar