



NYC Department of Buildings
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Report of Materials and Equipment Acceptance Division

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 162-05-M

Manufacturer: DuraSystems Barrier Inc., 199 Courtland Avenue, Vaughan, ON L4K 4T2.

Trade Name(s): Duraduct

Product: UL Listed, 2-hour fire rated. Stair pressurization duct system.

Pertinent Code Section(s): Reference Standard RS 5-18 and RS 13-1.

Prescribed Test(s): ISO-6944-1985, ASTM E-814/ULC-S115-95

Laboratory: Underwriters' Laboratories of Canada, 7 Underwriters Road, Toronto, ON Canada M1R 3B4

Test Report(s): ULC Application No. 7939, December 1, 1992. ULC Application No. 24495, dated September 17, 1998. ULC letter dated April 22, 2005 and UL letters dated October 3, 2005, and November 4, 2005.

Description – Duraduct V-15 is a UL listed, 2-hour fire rated duct system that appears in UL Guide HNLG, as Design V-15. The purpose of the system is to provide fresh air to internal stairwells or other areas of egress that could be subject to infiltration of smoke during a fire scenario.

The Duraduct V-15 duct system is comprised of individual duct sections that are bolted together, the duct support or hanger system and the fire stopping system used to maintain the fire rating of any slab or barrier that the duct penetrates.

The individual duct sections are available in a variety of shapes that include the different types of fittings that are common to the HVAC industry such as straight ducts, elbows, offsets, transitions, etc.

Each individual Duraduct section is comprised of a welded inner steel framework that is clad with a 3/8" thick fire resistant panel called Durasteel. To maintain pressure and air tightness, the Durasteel panels are sealed to the inner framework, over 30 gauge galvanized steel inner liner, with silicone sealant and are attached to the inner framework using self-drilling/tapping screws.

Individual duct sections are joined together by bolting together the integrated companion flanges using 3/8" diameter nuts and bolts. The duct sections are sealed together by applying a bead of silicone sealant to the mating faces of the companion flanges immediately prior to the joining of the duct sections.

The Duraduct V-15 system can be installed by any person that is trained and qualified to install HVAC ductwork.

Pursuant to "Promulgation of the Rules relating to Material and Equipment Application Procedures" dated November 5, 1992, the Bureau of Fire Prevention has no objections letter dated November 23, 2005, F.P. Index No. 0505017A, and January 9, 2006 with modifications.

Terms and Conditions: That the above units be accepted on condition that:

1. Installation, maintenance cleaning procedures and use shall comply with RS 13-1 of the Building Code and all applicable New York City codes, rules, regulations and maintenance requirements.
2. Maximum duct cross sectional area is 1 square meter with no dimension exceeding 2.0 meters.
3. Duct is only approved for pressurization situations such as stairwell pressurization that do not exceed to operate 10 inch of water positive pressure.
4. Duct shall only be installed without rigid restraints against where elongation force will exist.
5. Underwriters Laboratories' listing requirements and limitations shall be complied with.
6. Manufacturer's installation, maintenance procedures and limitations shall be complied with.
7. All supports for duct shall be 2-hour rated for fire resistance.
8. Air intake shall not be placed within 10 feet in any direction of any opening in the wall, or within 10 feet of a property line, and shall be at minimum of 20 feet above grade.

All shipments and deliveries of such equipment shall be provided with a metal tag suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance

January 17, 2006

Examined by

