

**DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
Housing - Federal Housing Commissioner**

**Series and Series Number:**  
**MATERIALS RELEASE NO:** 1276c  
(Supersedes issue dated  
May 27, 2003)

**TO: DIRECTORS, SINGLE FAMILY HOCs  
DIRECTORS, MULTIFAMILY HUBs**

**ISSUE DATE**

May 11, 2007

**REVIEW DATE**

May 11, 2010

**SUBJECT:**

<b>1. Product</b>	PureFlow Cross-linked Polyethylene (PEX) Plumbing System Consisting of ViegaPEX, ViegaPEX Ultra, ViegaPEX Barrier, and FostaPEX Plastic Pipe and Fittings
<b>2. Name and address of Manufacturer</b>	Viega LLC 301 N. Main 9 <sup>th</sup> Floor Wichita, KS 67202

Data on the nonstandard product described herein have been reviewed by the Department of Housing and Urban Development (HUD) and determination has been made that it is considered suitable from a technical standpoint for the use indicated herein. This Release does not purport to establish a comparative quality or value rating for this product as compared to standard products normally used in the same manner.

This Materials Release cannot be used as an indication of endorsement or approval by HUD of the described product, and any statement or representation, however made, indicating such approval or endorsement by HUD is unauthorized. See Code 18, U.S.C. 709.

Any reproduction of this Release must be in its entirety.

**USE:** The Viega LLC PureFlow cross-linked polyethylene (PEX) plastic pipe and fittings system is intended for use in potable hot and cold water distribution systems up to a maximum continuous pressure of 160 psi at 73°F and 100 psi at 180°F. It may also be used in hydronic radiant heating systems.

**DESCRIPTION:**

The Viega LLC PureFlow PEX water distribution system shall be made from high density polyethylene having a minimum density of 59 lbs/ft<sup>3</sup>. The pipe shall have one standard dimension ratio (SDR9) and the fittings shall have a nominal size of 1/4" to 1-1/2". Only fittings recommended by Viega LLC are acceptable for use with this PEX system.

**REQUIREMENTS:**

The Viega LLC PureFlow PEX water distribution system shall comply with the following standards or more recent versions:

ASTM F 876-02	"Standard Specification for Cross-linked Polyethylene (PEX) Tubing"
ASTM F 877-02a	"Standard Specification for Cross-linked Polyethylene (PEX) Plastic Hot-and-Cold Water Distribution Systems"
ASTM F 1807-02a	"Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing"
ASTM F 2159-02	"Standard Specifications for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing."
ANSI/NSF 14-2003	"Standard for Plastic Piping System Components and Related Materials". The tubing and fittings shall comply with all of the performance requirements as outlined in NSF-14.
ANSI/NSF 61-02e	"Standard for Drinking Water Systems Components Health Effects"
IM-PLB-03/07	"Viega LLC PureFlow PEX Installation Guidelines"

**INSTALLATION:**

The Viega LLC PureFlow PEX plastic pipe and fitting system shall be installed according to the manufacturer's instructions described in the current revision of Viega LLC PureFlow PEX Installation Guidelines.

2. Only fittings approved by Viega LLC shall be used.
3. The PEX plastic pipe shall not be exposed to direct sun light for more than 60 days.
4. Keep the PureFlow Tubing (PEX) a minimum of 12" vertically and 6" horizontally from sources of high heat such as recessed light fixtures, gas flue vents, heating appliances, or electric motors.

5. PEX plastic pipe should not be anchored rigidly but allow 3/8" to 1/2" per yard of pipe for thermal expansion.

**MANUFACTURING PLANT LOCATIONS:**

The product covered under this MR will be produced at the following plants:

Viega LLC  
901 North Vanguard Street  
McPherson, KS 67460  
Gary Morgan  
1-877-843-4262 ext. 213

Viega GmbH & Co. KG  
An der Mühle 4  
D-99518 Großheringen  
Germany  
Fiona Heinrichs  
011 49 2722 61 1117

**CERTIFICATION:**

Viega LLC certifies that the PureFlow cross-linked polyethylene pipe and fittings and systems shall be produced in conformance to this MR, and are in compliance with a validation program at NSF International, Inc., in accordance with the Code of Federal Regulations, 24 CFR 200.935. NSF International, Inc. shall inspect the manufacturer's facility to assure that the quality control procedures are being followed. Four samples of this product shall be selected and tested each year to validate the manufacturer's conformance to the requirements of this MR. Each pipe and fittings certified as conforming to this MR, shall be labeled with the following information:

1. The NSF validation mark.
2. The manufacturer's name.
3. The manufacturer's conformance to this MR.
4. The fittings made from polysulfone resin shall be identified as PLS.
5. The fittings made from accudel resin shall be identified as PSO.

**WARRANTY:**

Viega LLC warrants the PureFlow cross-linked polyethylene pipe and fittings systems for ten years (10) under normal use, against defects in materials and workmanship. Should any defect or poor performance occur, Viega LLC will make a full cost allowance for the replacement of the defective product.

This warranty does not relieve the builder, in any way, of responsibility under the Builder's Warranty required by the National Housing Act or under any provisions applicable to any other housing program.

**MANUFACTURER'S RESPONSIBILITIES:**

Issuance of this Materials Release (MR) commits the manufacturer to fulfill, as a minimum, the following:

1. Produce, label and certify the material, product or system in strict accordance with the terms of this MR.
2. Provide necessary corrective action in a timely manner for all cases of justified complaint, poor performance or failure reported by HUD.
3. When requested, provide the FHA Standards, Office of Manufactured Housing Programs, HUD Headquarters, with a representative list of properties, in which the material, product or system has been used, including complete addresses or descriptions of locations and dates of installation.
4. Inform HUD in advance of changes in production facilities, methods, design of the product, company name, ownership or mailing address.

**EVALUATION:**

This MR shall be valid for a period of three years from the date of initial issuance or most recent renewal or revision, whichever is later. The holder of this MR shall apply for a renewal or revision 90 days prior to the Review Date printed on this MR. Submittals for renewal or revision shall be sent to:

U. S. Department of Housing and Urban Development  
FHA Standards, Office of Manufactured Housing Programs  
451 7<sup>th</sup> Street. SW, Room 9168  
Washington, DC 20410-8000

Appropriate user fee shall be sent to:

U. S. Department of Housing and Urban Development  
Miscellaneous Income – Technical Suitability of Products Fees  
Bank of America  
P. O. Box 1987862  
Atlanta, GA 30384-8762

The holder of this MR may apply for revision at any time prior to the Review Date. Minor revisions may be in the form of a supplement to the MR.

If the Department determines that a proposed renewal or supplement constitutes a revision, the appropriate User Fee for a revision will need to be submitted in accordance with Code of Federal Regulations 24 CFR 200.934, "User Fee System for the Technical Suitability of Products Program," and current User Fee Schedule.

**CANCELLATION:**

Failure to apply for a renewal or revision shall constitute a basis for cancellation of the MR. HUD will notify the manufacturer that the MR may be canceled when:

1. conditions under which the document was issued have changed so as to affect production of, or to compromise the integrity of the accepted material, product, or system,
2. the manufacturer has changed its organizational form without notifying HUD, or
3. the manufacturer has not complied with responsibilities it assumed as a condition of HUD's acceptance.

However, before cancellation, HUD will give the manufacturer a written notice of the specific reasons for cancellation, and the opportunity to present views on why the MR should not be canceled. No refund of fees will be made on a canceled document.

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 This Materials Release is issued solely for the captioned firm, and is not transferable to any person or successor entity.  
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