

**ICC-ES PMG Listing****PMG-1052**

Effective Date: July 1, 2011

*This listing is subject to re-examination in one year.***www.icc-es.org/pmg | (800) 423-6587 | (562) 699-0543***A Subsidiary of the International Code Council®*CSI: DIVISION: 23 00 00—MECHANICAL  
Section: 23 11 00—Facility Fuel Piping

## Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: TracPipe® PS-II Polyethylene-Sleeved Flexible Fuel Gas Piping System  
(For use underground and underground beneath buildings)Listee: OmegaFlex® Inc.  
451 Creamery Way  
Exton, Pennsylvania 19341-2509  
[www.omegaflex.com](http://www.omegaflex.com)

## Compliance with the following codes:

2012, 2009 *International Fuel Gas Code*® (IFGC)  
2012, 2009 *International Residential Code*® (IRC)  
2009 IAPMO *Uniform Plumbing Code* (IAPMO UPC)  
2009 IAPMO *Uniform Mechanical Code* (IAPMO UMC)

## Compliance with the following standards:

ANSI LC 1/CSA 6.26 Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST)  
NFPA 54, National Fuel Gas Code  
LC1023 PMG Listing Criteria for Polyethylene Sleeved Corrugated Stainless Steel Tubing  
Code sections addressing Tubing Underground and Underground beneath Buildings  
PMG-1046 OmegaFlex® Inc. TracPipe® Flexible Fuel Gas Piping System

## Identification:

Tubing: Each 2 feet (610 mm) of tube bears the OmegaFlex® Inc. name, part number, rated pressure [5 psi (34 kPa)], equivalent hydraulic diameter (EHD), the words "Fuel Gas", the name of the third-party inspection agency [CSA International (AA-659)] and the ICC-ES PMG listing mark. The ICC-ES PMG listing number (PMG-1052) is optional.

Components: Fittings, termination outlets and distribution manifolds are stamped with the OmegaFlex® Inc. logo, the part number and the date stamp.

Installation:

TracPipe® PS-II installation must be in accordance with the TracPipe® Flexible Gas Piping Design Guide and Installation Instructions, IFGC Section 404, IRC Section 2415, UMC Section 1309 and IAPMO UPC Section 1211, as applicable. The system installation consists of CSST distribution lines installed between the gas meter and fuel gas appliances. As a portion of this system, the TracPipe® PS-II is installed underground or underground beneath buildings. Based on submitted calculations, burial depth for TracPipe® PS-II is equivalent to that allowed for schedule 80 PVC. Otherwise installation must be in accordance with PMG-1046.

Models: The TracPipe® PS-II Polyethylene-Sleeved Flexible Fuel Gas Piping System consists of two parts: (1) The Corrugated Stainless Steel tubing is recognized as conforming with ANSI LC-1 and the codes in PMG-1046; and (2) a vented Polyethylene sleeve. The system is a fuel-gas piping system for natural or propane gas, intended for installation with fuel gas pressures not exceeding 5 psi (34 kPa); this portion of the system is installed underground or underground beneath buildings. Other system components are described in PMG-1046.

The system consists of corrugated stainless steel tubes (CSSTs) and mechanical fittings designed for use only with the OmegaFlex® Inc. CSSTs. Components utilize a metal-to-metal seal, and include mechanical fittings, distribution manifolds, shutoff valves, termination outlet devices, pressure regulators and protection devices.

The CSST is composed of concentric, annular rings of Type 304 or Type 321 stainless steel with a black polyethylene sleeve (conduit) for underground use. See Table 1 for thickness of black polyethylene sleeve (conduit).

Conditions of listing:

1. Installation complies with this listing; the manufacturer’s published installation instructions and the applicable code. If there is a conflict between the installation instructions and this listing, this listing governs.
2. The product must be used only with natural gas or propane at operating pressures not exceeding 5 psi (34 kPa). Pressure regulators are required when fuel supply pressures exceed 1/2 psi (3.4 kPa).
3. The system must be pressure-tested after installation in accordance with the applicable code.
4. The CSST piping system must not be used as a grounding electrode for an electrical system.
5. Installation of the tubing is not permitted within ducts.
6. Tubing sections underground beneath a building damaged during installation must be replaced in their entirety.
7. Splices, fittings and joints are prohibited underground beneath buildings.
8. The vent must be protected from the entry of water and insects.
9. The design of the piping (tubing) to withstand superimposed loads must be submitted to the code official for each installation when used underground or underground beneath buildings and is beyond the scope of this listing.
10. The TracPipe® PS-II Polyethylene-Sleeved Flexible Fuel Gas Piping System is manufactured by OmegaFlex® Inc. in Exton, Pennsylvania under a quality control program with annual surveillance inspections by CSA International (AA-659).

**TABLE 1—POLYETHYLENE SLEEVE (CONDUIT) THICKNESS**

Tubing Size (inches)	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Nominal Minor Thickness (inches)	0.080	0.120	0.120	0.125	0.150	0.160	0.170

TABLE 2—PART NUMBER LISTING

Part Number <sup>2</sup>	Size (inches) <sup>1</sup>	Description
FGP-UGP-375-xxx	$\frac{3}{8}$ "	PS- II Tubing
FGP-UGP-500-xxx	$\frac{1}{2}$ "	PS- II Tubing
FGP-UGP-750-xxx	$\frac{3}{4}$ "	PS- II Tubing
FGP-UGP-100-xxx	1"	PS- II Tubing
FGP-UGP-125-xxx	$1\frac{1}{4}$ "	PS- II Tubing
FGP-UGP-150-xxx	$1\frac{1}{2}$ "	PS- II Tubing
FGP-UGP-200-xxx	2"	PS- II Tubing
FGP-UGF-375	$\frac{3}{8}$ "	$\frac{3}{8}$ " NPT Male Fittings
FGP-UGF-500	$\frac{1}{2}$ "	$\frac{1}{2}$ " NPT Male Fittings
FGP-UGF-750	$\frac{3}{4}$ "	$\frac{3}{4}$ " NPT Male Fittings
FGP-UGF-1000	1"	1" NPT Male Fittings
FGP-UGF-1250	$1\frac{1}{4}$ "	$1\frac{1}{4}$ " NPT Male Fittings
FGP-UGF-1500	$1\frac{1}{2}$ "	$1\frac{1}{2}$ " NPT Male Fittings
FGP-UGF-2000	2"	2" NPT Male Fittings
FPG-UGC-375	$\frac{3}{8}$ "	$\frac{3}{8}$ " T/P Coupling
FPG-UGC-500	$\frac{1}{2}$ "	$\frac{1}{2}$ " T/P Coupling
FPG-UGC-750	$\frac{3}{4}$ "	$\frac{3}{4}$ " T/P Coupling
FPG-UGC-1000	1"	1" T/P Coupling
FPG-UGC-1250	$1\frac{1}{4}$ "	$1\frac{1}{4}$ " T/P Coupling
FPG-UGC-1500	$1\frac{1}{2}$ "	$1\frac{1}{2}$ " T/P Coupling
FPG-UGC-2000	2"	2" T/P Coupling
FGP-UGTC-375	$\frac{3}{8}$ "	PS- II Transition Coupling Assy
FGP-UGTC-500	$\frac{1}{2}$ "	PS- II Transition Coupling Assy
FGP-UGP-750-xxx	$\frac{3}{4}$ "	PS- II Transition Coupling Assy
FGP-UGP-100-xxx	1"	PS- II Transition Coupling Assy
FGP-UGP-125-xxx	$1\frac{1}{4}$ "	PS- II Transition Coupling Assy
FGP-UGP-150-xxx	$1\frac{1}{2}$ "	PS- II Transition Coupling Assy
FGP-UGP-200-xxx	2"	PS- II Transition Coupling Assy

<sup>1</sup>SI units: 1 inch = 25.4 mm<sup>2</sup>xxx = length of tubing in feet