



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

**BOARD OF MECHANICAL RULES**

Conference room 3, First Floor  
2501 Woodlake Circle  
Okemos, Michigan 48864

**AGENDA**

**May 15, 2013**

9:00 a.m.

1. Call to Order and Determination of Quorum K. Misiewicz
2. Approval of Agenda (Page 1) K. Misiewicz
3. Approval of Minutes February 5, 2013 (Page 2-6) K. Misiewicz
4. New Products (Pages 7-27) K. Kalakay  
a. TracPipe PS-II BCCM-12-011
5. New Business (Pages 28-29) K. Kalakay  
a. Specialty License Classification Modifications BCCM-13-001
6. Unfinished Business K. Misiewicz
7. Chiefs Report K. Kalakay
8. Public Comment
9. Next Meeting – August 14, 2013 K. Misiewicz
10. Adjournment

The meeting site and parking is accessible. Individuals attending the meeting are requested to refrain from using heavily scented personal care products in order to enhance accessibility for everyone. People with disabilities requiring additional services (such as materials in alternative format) in order to participate in the meeting should call Dawn Canfield at (517) 241-9325 at least 10 working days before the event.

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Conference Room 3  
2501 Woodlake Circle  
Okemos, Michigan 48864

**MINUTES**  
**February 5, 2013**  
9:00 a.m.

**MEMBERS PRESENT**

Mr. Kevin Carden  
Mr. Richard Dvorak  
Mr. Robert Fosburg  
Mr. Craig Howson  
Mr. Christopher Fuller  
Mr. Matthew Marsiglio  
Mr. Robert Logan  
Mr. Kenneth Misiewicz  
Mr. Gerald Philo  
Mr. Bruce Seiler  
Mr. Tony Sanfilippo  
Mr. Mark Riley

**MEMBERS ABSENT**

Ms. Catherine Gay  
Mr. Daniel Grafmiller  
Mr. Christopher Freeman

**DEPARTMENT PERSONNEL ATTENDING**

Mr. Keith Lambert, Deputy Director, Bureau of Construction Codes  
Mr. Kevin Kalakay, Chief, Mechanical Division  
Mr. Jon Paradine, Assistant Chief, Mechanical Division  
Ms. Dawn Canfield, Secretary, Mechanical Division  
Ms. Dianne Barnes, Department Analyst, Office Administrative Services

**OTHERS IN ATTENDANCE**

Mr. Lynn Briggs, Contractors Legislative Services  
Mr. Matt Moros, Vitega  
Mr. John Nicholas, Perceptive Solutions

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Mr. John Pattillo, Conquest Firespray  
Mr. Michael Hancz  
Mr. Richard, on behalf of Michael Hancz  
Mr. Stephen Wylie, Consumers Energy  
Mr. Keith Page, Hart & Cooley  
Mr. Henry Burke, Burke Agency

1. **CALL TO ORDER AND DETERMINATION OF QUORUM**

Chairman Misiewicz called the meeting to order at 9:00 a.m. A quorum was determined as 12 members were present.

- a. Introduction of new Board of Mechanical Rules members.
- b. Nomination and election of Vice Chair for the Board of Mechanical Rules. Motion was made by Board Member Riley to elect Robert Fosburg as Vice Chair. Board Member Fuller seconded the motion. **MOTION CARRIED**
- c. Nomination and election of Secretary for the Board of Mechanical Rules. Motion was made by Board Member Riley to elect Mark Riley as Secretary. Board Member Fosburg seconded the motion. **MOTION CARRIED**

2. **APPROVAL OF AGENDA**

A **MOTION** was made by Board Member Philo and Board Member Riley seconded the motion to approve the Agenda. **MOTION CARRIED.**

3. **APPROVAL OF MINUTES**

A **MOTION** was made by Board Member Logan and Board Member Fuller seconded the motion to approve the minutes of the August 15, 2012 meeting. **MOTION CARRIED.**

4. **GOOD MORAL CHARACTER APPEAL**

**Mr. Michael C. Hanz**, Mechanical Contractor Appeal, Document M-12-009, appeared before the Board requesting an appeal to the denial of the application for license examination. His application was denied based on a Good Moral Character review.

Mr. Richards, brother in law of Mr. Hancz spoke on his behalf. After a discussion with applicant, Board Member Fosburg made a **MOTION** to allow Mr. Hancz to sit for the Mechanical Contractor examination. Board Member Logan seconded the motion. **MOTION CARRIED.**

5. NEW PRODUCTS

a. Viega MegaPress ½” to 2”, #BCCM-12-004, presented an application requesting approval by the Board of Mechanical Rules for the use of MegaPress ½” to 2”. Chief Kalakay reviewed the product evaluation with the Board. Matt Moros appeared before the board to discuss the product.

After discussion and questions by the board, a MOTION was made by Board Member Logan, and Board Member Fosburg seconded the motion to approve staff's recommendation, with stipulations to forward the MegaPres G ½” to 2” to the Construction Code Commission for acceptability. **MOTION CARRIED.**

b. FlashShield CSST Gas Piping System, #BCCM-12-007, presented an application requesting approval by the Board of Mechanical Rules for the use of FlashShield CSST Gas Piping System. Chief Kalakay reviewed the product evaluation with the Board. Ed Glende appeared before the board to discuss the product.

After discussion and questions by the board, a MOTION was made by Board Member Fosburg, Board Member Howson seconded the motion to approve staff's recommendation to forward the FlashShield CSST Gas Piping System to the Construction Code Commission for acceptability. **MOTION CARRIED.**

c. Firespray BW11 Fire Rated Grease Duct, #BCCM-12-008, presented an application requesting approval by the Board of Mechanical Rules for the use of Firespray BW11 Fire Rated Grease Duct. Chief Kalakay reviewed the product evaluation with the Board. John Patillo and John Nicholas appeared before the board to discuss the product.

After discussion and questions by the board, a MOTION was made by Board Member Philo, and Board Member Fuller seconded the motion to rebut staff's recommendation to disapprove the Firespray BW11 Fire Rated Grease Duct. **MOTION DOES NOT CARRY WITH A ROLL CALL VOTE OF 3 YES AND 9 NO.**

**The detailed roll call vote information is attached.**

**BOARD OF MECHANICAL RULES  
 VOTE SHEET**

FireSpray BW11 Grease Duct  
 DATE OF MEETING: 2/5/13

MOTION MADE BY:	Philo
2ND MOTION:	Fuller
MOTION	Failed

	YES	NO	
HOWSON	X		
CARDEN		X	
DVORAK		X	
SANFILIPPO		X	
FOSBURG		X	
FULLER	X		
SEILER		X	
LOGAN		X	
MISJEWICZ		X	
PHILO	X		
RILEY		X	
MARSIGLIO		X	
FINAL COUNT	3	9	
<b>**MOTION DID NOT CARRY**</b>			

6. **CHIEFS REPORT**

Chief Kalakay provided information on the following issues:

- a. New Forbes was introduced to the Legislature in the last session.
- b. Rules Committee hearings will begin this month. Please bring comments or submit them in writing.
- c. Hearings for proposed fee increases for the Bureau will also be held this month

7. **UNFINISHED BUSINESS**

None

8. **NEW BUSINESS**

A **MOTION** was made by Board Member Logan and Board Member Dvorak seconded the motion to approve the 2013 meeting schedule. **MOTION CARRIED.**

9. **PUBLIC COMMENT**

None

10. **NEXT MEETING**

The next Board meeting will be held on May 15, 2013.

11. **ADJOURNMENT**

A **MOTION** was made by Board Member Logan and Board Member Philo seconded the motion to adjourn the meeting at 10:24 a.m. Standard Eastern Time. **MOTION CARRIED.**

APPROVED:

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Kenneth Misiewicz, Chairperson

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Date



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
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DIRECTOR

STEVE ARWOOD  
DIRECTOR

April 19, 2013

BCCM-12-011

TO: Members of the Board of Mechanical Rules  
FROM: Kevin Kalakay, Chief, Mechanical Division  
SUBJECT: Product Approval for Tracpipe PS II

The applicant has filed a petition application for approval of a product.

**APPLICANT REPRESENTATIVE:**

Mr. Robert Torbin

**APPLICANT:**

Omega Flex Inc.  
213 Court St. Suite 1001  
Middletown Connecticut, 06457

**AUTHORITY:**

MCL 125.1521 of 1972 PA 230.  
MCL 338.975 of 1984 PA 192

**PRODUCT:**

TracPipe PS-II is a corrugated stainless steel tubing product with a protective polyethylene sleeve and leak containment/ venting system for corrosion protection in underground installations and under and within concrete construction.

**APPLICATION:**

Tracpipe PS II CSST is intended for the distribution of fuel gas for residential, commercial and industrial applications. The outer sleeve and containment system permits the direct burial of the fuel gas line and provides protection against corrosion and a means of collecting and safely venting any escaping fuel gas...

**LISTINGS:**

IAPMO File # 4665 -10/2012  
IAPMO IGC 201-2004  
ICC-ES PMG-1052

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**LICENSING AND INSTALLATION REQUIREMENTS:**

Shall be installed only by State of Michigan licensed Mechanical contractors with the proper license classification to perform fuel gas piping installations. The manufacturer shall provide training on proper installation to all installing contractors.

**CONDITIONS OF USE AND INSTALLATION:**

1. All requirements of the Michigan Residential and the International Fuels Gas Code most current editions shall apply.
2. Installation shall be in accordance with the manufacturer's installation instructions.
3. Shall only be installed by a qualified person who has been trained through the TracPipe Gas Piping Installation Program
4. The ability of the system to withstand the superimposed loads shall be documented to the code official for each installation
5. Not approved for pressures above 5-PSI
6. This approval shall become void if the product no longer conforms to the current Michigan Mechanical, Michigan Residential codes.

**RECOMMENDATION:**

Staff recommends that the product be approved with the above conditions of use.

CC: Robert Torbin

**Petition Application for Approval of Material, Product or Method**  
 Michigan Department of Licensing and Regulatory Affairs  
 Bureau of Construction Codes  
 P.O. Box 30255, Lansing, MI 48909  
 www.michigan.gov/bcc

Agency Use Only

BCCM-12-011

**Application Fee: \$500.00**

Authority: 1972 PA 230  
 Completion: Mandatory  
 Penalty: Use of material, product or method will not be approved

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**PRODUCT INFORMATION**

**NATURE OF APPLICATION**

Material       Product       Method of Manufacture or Construction       Component

**CODE UNDER WHICH APPROVAL IS SOUGHT**

Building (140)       Electrical (115)       Mechanical (130)       Plumbing (98)

**NAME OF MATERIAL, PRODUCT OR METHOD OF MANUFACTURE (Limit To One Item Per Application)**

TracPipe PS-II Polyethylene-Sleeved Flexible Fuel Gas Piping System

**OTHER IDENTIFICATION (Model Number)**

Part Numbers: FGP-UGP-375; FGP-UGP-500; FGP-UGP-750; FGP-UGP-100; FGP-UGP-125; FGP-UGP-150; FGP-UGP-200

**DESCRIPTION (Use Additional Sheets If Necessary)**

Corrugated stainless steel tubing with protective polyethylene sleeve and leak containment/venting system for corrosion protection in underground installations and under and within concrete construction.

**INTENDED USE (Use Additional Sheets If Necessary)**

TracPipe PS-II is intended for the distribution of fuel gas for residential, commercial and industrial applications. The outer sleeve and containment system permits the direct burial of the fuel gas line and provides protection against corrosion and a means of collecting and safely venting any escaping fuel gas.

**DATA SUBMITTED**

<input type="checkbox"/> Letter	<b>Reports</b>	<input checked="" type="checkbox"/> Product Sample or Model
<input type="checkbox"/> Manual	<input checked="" type="checkbox"/> ICC - NES	<input checked="" type="checkbox"/> Prior Approvals by Other Agencies
<input type="checkbox"/> Standards	<input type="checkbox"/> BOCA - NES	<input type="checkbox"/> Recommendations by Model Code Bodies
<input checked="" type="checkbox"/> Installation Instructions	<input type="checkbox"/> ICBO	
<input checked="" type="checkbox"/> Display Catalog	<input type="checkbox"/> SBCC	
	<input type="checkbox"/> NRB	
	<input checked="" type="checkbox"/> Other	

Trans Info: 130 10152636-1 12/04/12  
 Chkn: 139238 Amt: \$500.00  
 TO: OMEGA FLEX INC

**LABORATORY TEST BY**

(Jacket) IAPMO Testing and Services - Ontario, CA and (CSST) CSA-International - Toronto, Ontario, CN

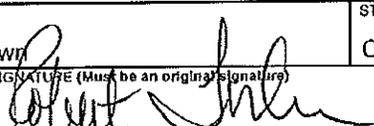
**PILOT SERVICE EXPERIENCE AND CONDITIONS (Use Additional Sheets If Necessary)**

TracPipe PS-II CSST is listed to a national consensus standard (ANSI LC-1) and is listed by ICC and CSA -International for fuel gas applications. PS-II is accepted and installed in all 50 states, and over 1 million feet have been installed since its introduction in 2004. There have been no known instances where PS-II has failed to function as intended.

**RESTRICTIONS FOR USE (Use Additional Sheets If Necessary)**

TracPipe PS-II is installed in accordance with the Omega Flex Design and Installation Guide and the requirements of the Michigan Residential Code/Fuel Gas Code for operating pressures up to 25-PSI. When required by local authority, the ability of the system to withstand the superimposed load shall be documented.

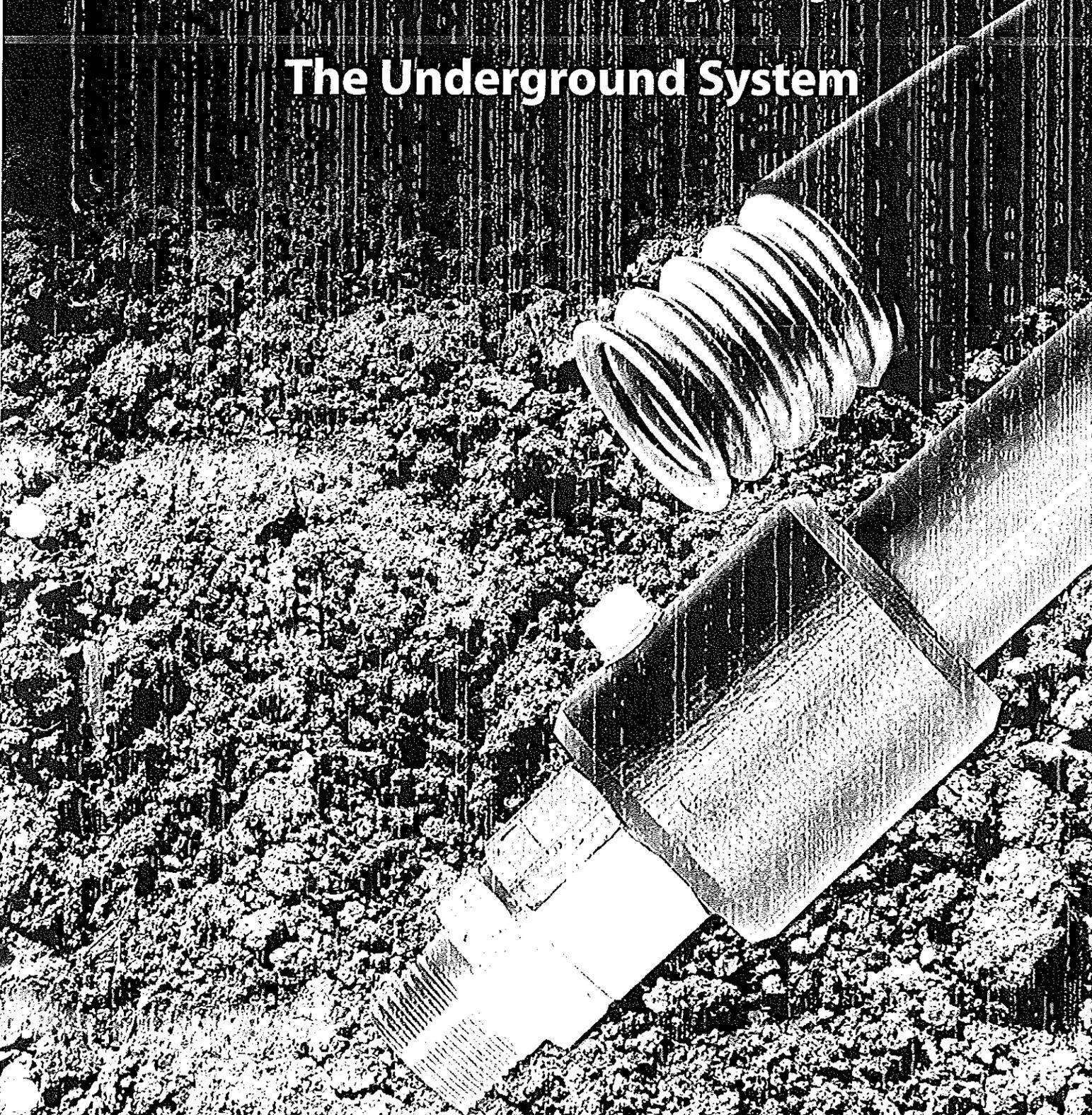
**APPLICANT (Note: All correspondence will be sent to this address)**

<b>NAME OF COMPANY</b>		<b>APPLICANT NAME</b>	
Omega Flex, Inc.		Robert Torbin	
<b>ADDRESS</b>			
213 Court Street Suite 1001			
<b>CITY</b>	<b>STATE</b>	<b>ZIP CODE</b>	<b>TELEPHONE NUMBER (include Area Code)</b>
Middletown	Connecticut	06457	(413) 388-2390
<b>APPLICANT SIGNATURE (Must be an original signature)</b>		<b>DATE</b>	<b>FAX NUMBER (include Area Code)</b>
		19 Nov 2012	(860) 704-6830

# **TracPipe PS-II**

*Polyethylene-Sleeved Flexible Gas Piping by OmegaFlex®*

## **The Underground System**

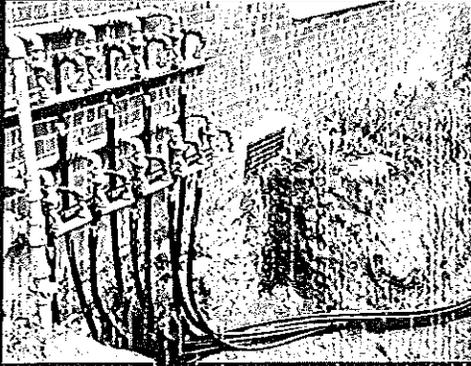


**OmegaFlex®**

# TracPipe PS-II

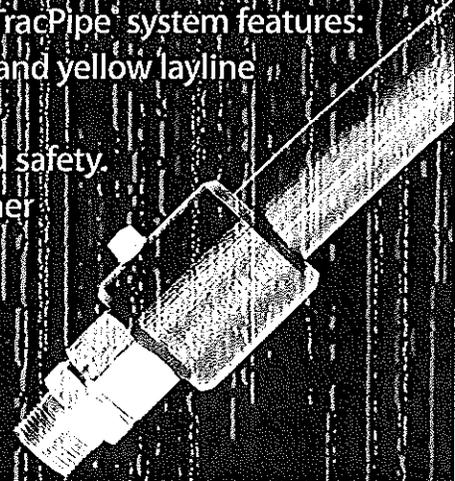
Polyethylene-Sleeved Flexible Gas Piping by OmegaFlex®

TracPipe PS-II listing #PMG 1052



## Product Capabilities:

- Popular TracPipe system features:
- Pre-sleeved with flexible black jacket and yellow layline for underground applications.
- Vented containment system for added safety.
- Installs in a fraction of the time for other underground piping materials.
- Extremely resistant to damage.
- Easy to handle.
- Quick attachment fittings.
- Supports/contains NPT connections.
- Installs in long lengths without joints.
- Use with couplings and extensions to minimize scrap.



## Product advantages over other materials:

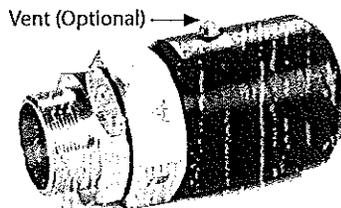
- Lower installed cost
- Shortened installation time
- Easy to handle
- Flexible
- Ease of connection
- Wide range of fittings

## Applications:

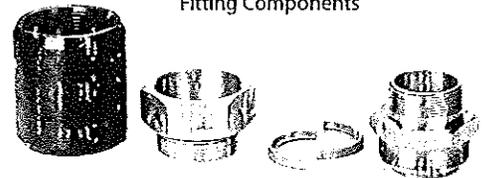
- Under Buildings/Slab
- Rooftops
- Exterior walls
- Pool Heaters
- School Labs
- Barbecues
- Island Ranges
- Gas lamps/torches
- Stadiums



## About TracPipe PS-II:



Fitting Components



PS-II fittings are constructed from patented AutoFlare® fittings with a plastic containment coupling and 1/4" NPT vent port. Fittings assemble without special tools.

### Tools Required for Assembly:

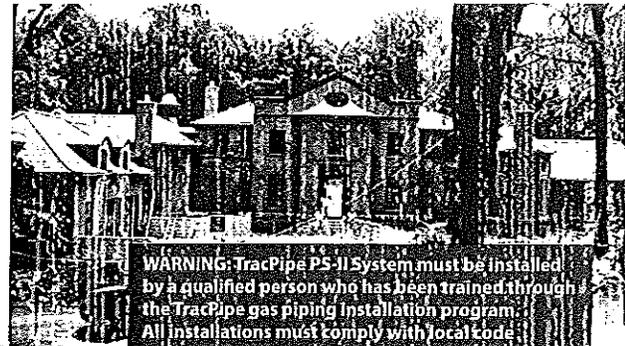
- Utility knife with sharp blade
- Appropriate size adjustable or monkey wrenches
- Tubing cutter:
  - For 3/8" to 1-1/4" Use: FGP-TC-151 Ridgid® Tubing Cutter with TracPipe cutting wheel (FGP-E-5272)
  - For 1-1/4" to 2" Use: FGP-TC-152 Ridgid® Tubing Cutter with TracPipe cutting wheel (FGP-E-5272)
- Reciprocating saw or hacksaw

TracPipe PS-II flexible gas piping is constructed from standard TracPipe stainless steel flexible gas pipe sleeved in a polyethylene sleeve that acts as a vented containment system.

TracPipe PS-II is supplied in standard lengths on reels or custom cut lengths. Product should be stored in an area that will not expose it to damage or outdoor elements.



A pre-sleeved, "one-step" gas installation system for underground, rooftop, or exterior wall applications. TracPipe® PS-II can be installed under buildings, slab, roads, driveways – it's perfect for gas installations in a variety of applications where speed, reliability, and safety are paramount.



**WARNING:** TracPipe PS-II System must be installed by a qualified person who has been trained through the TracPipe gas piping installation program. All installations must comply with local code requirements and the instructions contained in the TracPipe Design Guide and Installation Instructions.

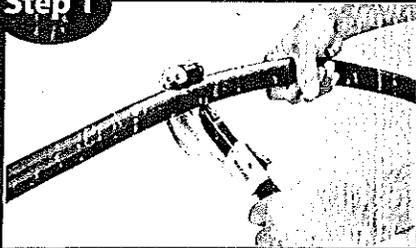
## Fitting Attachment Instructions:

### Strip Length Chart

Pipe Size	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Jacket Strip Length	1-1/2"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"
Fitting Torque Value	40 ft-lb	42 ft-lb	45 ft-lb	75 ft-lb	150 ft-lb	200 ft-lb	250 ft-lb
Max. Superimposed Loading psf*	9640	7254	5409	4203	3390	2901	2124

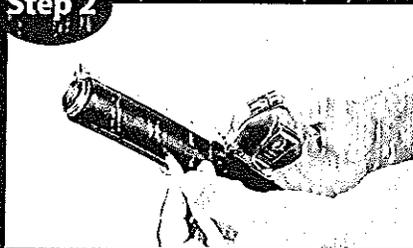
\*Notes: 1. Super-imposed loading includes all dead load and live load combinations. 2. Maximum buried depth of 36". 3. Soil Density: 120 pcf. 4. Factor of safety used.

### Step 1



Unroll pipe into trench or on the ground and cut to desired length – plus one foot. Cutting up to 1" can be done with a large tubing cutter. For 1-1/4"–2" sizes, a reciprocating saw is recommended.

### Step 2



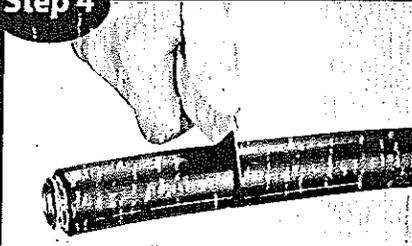
Mark the sleeve at specified length on the Strip Length Chart (above) – plus 2".

### Step 3



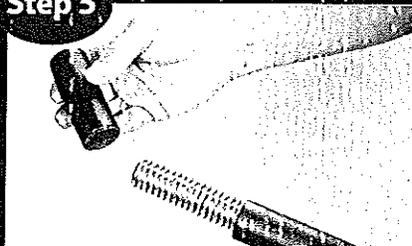
Using the appropriate tubing cutter with TracPipe #FGP-E-5272 Cutting Wheel, score the black sleeve approximately half of the way through. Use extreme care not to cut down to the stainless corrugated pipe. No more than two turns in on the cutter is sufficient. Inspect tube for scoring from the tubing cutter.

### Step 4



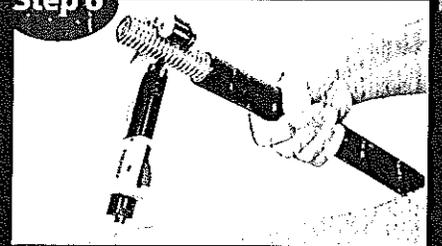
Carefully, finish cutting through the sleeve down to the stainless corrugated pipe using a sharp utility knife.

### Step 5



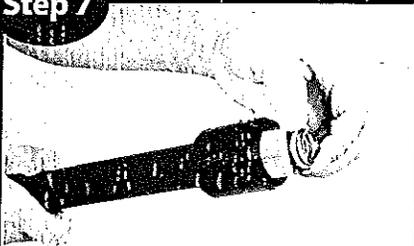
Using a twisting motion, remove the black sleeve and yellow jacket from the pipe. It may be necessary to cut sleeve longitudinally and peel off on larger sizes. Inspect stainless pipe for scoring from the tubing cutter.

### Step 6



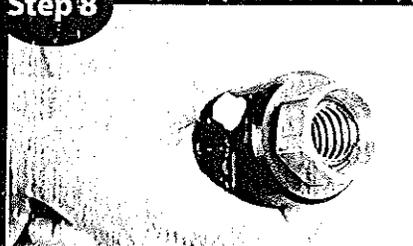
Using the tubing cutter, trim corrugated pipe to strip length specified on the Strip Length Chart shown above. Cut slowly in the root of the corrugation in the same manner you would cut copper tubing. Inspect end of pipe for a clean cut without tears in corrugation.

### Step 7



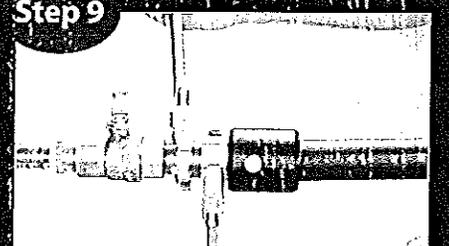
Remove adapter and split rings from fitting. Attach adapter to equipment. Slip coupling and nut over end of pipe all the way to expose first corrugations of pipe. Insert split rings into first corrugation as shown.

### Step 8



Holding the black coupling, slide fitting up to capture split rings into nut. Be sure split rings slip all the way to the base of the internal threads. Assembly is now ready to be attached to the adapter on the equipment.

### Step 9



Thread the nut onto adapter previously installed on the equipment. Using appropriate wrenches, hold adapter and tighten nut to proper torque specified. Do not overtighten or use any thread sealants on this connection. This is a metal-to-metal seat and will not seal if pipe dope or thread sealants are used. Sealants are to be used on the NPT connection to the equipment only!

**Note:** When installing coupling FGP-UGC-XXX, the same instructions apply except metallic parts of the fitting must be wrapped in a code approved manner (e.g. mastic used for wrapping metallic pipe).

# TUBING:

Part Number	Size	O.D. (Nom)	Jacket Strip Length	Weight /Foot	Reel Length	Weight /Reel	Dimensions L X W X H
FGP-UGP-375-250	3/8	.32	1-1/2	.23	250	57.5	20 X 20 X 12
FGP-UGP-500-250	1/2	.68	1-1/2	.33	250	82.5	24 X 24 X 14
FGP-UGP-500-100	1/2	.68	1-1/2	.33	100	33	20 X 12 X 10
FGP-UGP-750-250	3/4	1.32	1-3/4	.43	250	107.5	24 X 24 X 19
FGP-UGP-750-100	3/4	1.32	1-3/4	.43	100	43	24 X 14 X 10
FGP-UGP-100-250	1	1.60	2	.57	250	142.5	30 X 30 X 18
FGP-UGP-100-100	1	1.60	2	.57	100	57	24 X 14 X 10
FGP-UGP-125-150	1-1/4	1.96	2-1/4	.91	150	137	32 X 32 X 24
FGP-UGP-150-150	1-1/2	2.18	2-1/2	1.00	150	150.5	32 X 32 X 24
FGP-UGP-200-150	2	2.80	2-3/4	1.47	150	220	36 X 36 X 23

# FITTINGS:

Part Number	Style	Weight	L X W X H	U/M	Box Qty.
FGP-UGF-375	3/8" NPT Male	.45	1.4 X 1.5 X 1.5	Each	25
FGP-UGF-500	1/2" NPT Male	.150	1.4 X 1.75 X 1.75	Each	20
FGP-UGF-750	3/4" NPT Male	.65	1.45 X 2 X 2	Each	16
FGP-UGF-1000	1" NPT Male	.90	1.5 X 2.25 X 2.25	Each	9
FGP-UGF-1250	1-1/4" NPT Male	1.60	1.5 X 2.5 X 2.5	Each	9
FGP-UGF-1500	1-1/2" NPT Male	2.65	1.6 X 2.75 X 2.75	Each	9
FGP-UGF-2000	2" NPT Male	4.30	1.75 X 3.75 X 3.75	Each	5
FGP-UGC-375	3/8" T/P Coupling	.65	1.6 X 1.5 X 1.5	Each	25
FGP-UGC-500	1/2" T/P Coupling	1.70	1.6 X 1.75 X 1.75	Each	20
FGP-UGC-750	3/4" T/P Coupling	1.05	1.7 X 2 X 2	Each	16
FGP-UGC-1000	1" T/P Coupling	1.40	1.75 X 2.25 X 2.25	Each	9
FGP-UGC-1250	1-1/4" T/P Coupling	2.50	1.9 X 2.5 X 2.5	Each	9
FGP-UGC-1500	1-1/2" T/P Coupling	4.25	1.9 X 2.75 X 2.75	Each	8
FGP-UGC-2000	2" T/P Coupling	6.90	1.9 X 3.75 X 3.75	Each	5

# OmegaFlex®

Omega Flex, Inc.  
451 Creamery Way,  
Exton, PA 19341-2509  
1-800-671-8622 Fax 610-524-7282

[www.omegaflex.com](http://www.omegaflex.com)

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ISO 9001

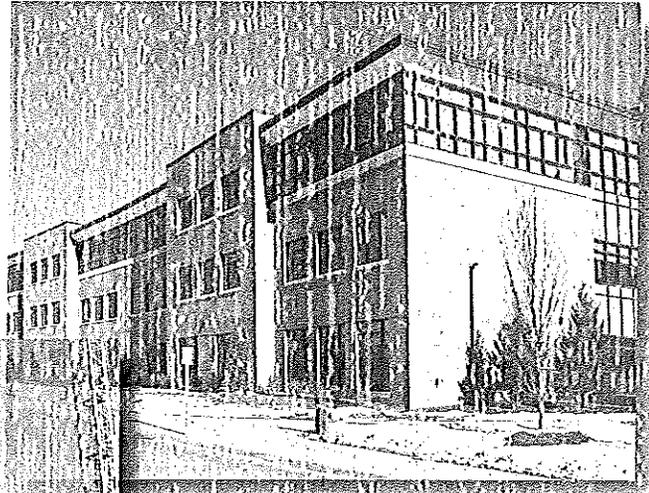
Authorized TracPipe® PS-II Representative:



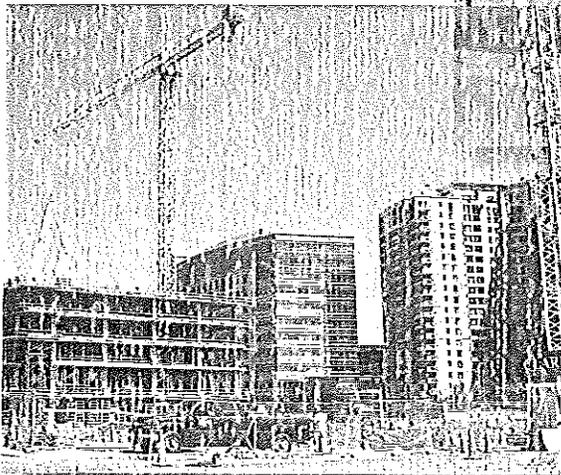
# FLEXIBLE GAS PIPING DESIGN GUIDE and INSTALLATION INSTRUCTIONS

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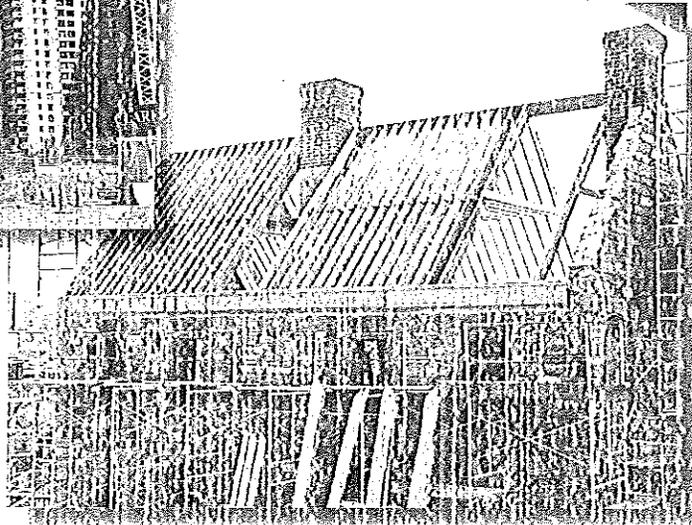
*September 2011*



**COMMERCIAL**



**INDUSTRIAL**



**RESIDENTIAL**

**TracPipe® CounterStrike®**  
Flexible Gas Piping by OmegaFlex.

## SECTION 4.9 – UNDERGROUND INSTALLATIONS

### 1. CODE REQUIREMENTS

When gas piping runs are located below grade in contact with earth or other material that could corrode the piping, codes require that the gas piping shall be protected against corrosion.

When piping is installed underground beneath buildings, codes require that the piping shall be encased in a conduit and be vented in accordance with the code. The conduit shall be designed to withstand the superimposed loads. **NO FITTINGS OR COUPLINGS ARE PERMITTED BENEATH BUILDINGS.**

### 2. MODEL CODES

**TracPipe® PS-II** (patented) installations conform to the underground fuel gas installation requirements of:

The National Fuel Gas Code NFPA 54 ✓

The International Fuel Gas Code ✓

The Uniform Plumbing Code UPC® ✓

## SECTION 4.9A – GUIDELINES FOR UNDERGROUND INSTALLATIONS

1. Lay **TracPipe® PS-II** in a trench. Install the gas piping with a substantially continuous bearing on the bottom of the trench, to the appropriate burial depth as defined in Table: 4-6 and shown in Figure: 4-24.

**WARNING:** **TracPipe® PS-II** systems must only be installed by a qualified person who has been trained through the **TracPipe® CounterStrike®** Gas Piping Installation Program. All installations must comply with local code requirements and the instructions contained in the **TracPipe® CounterStrike®** Design and Installation Guide.

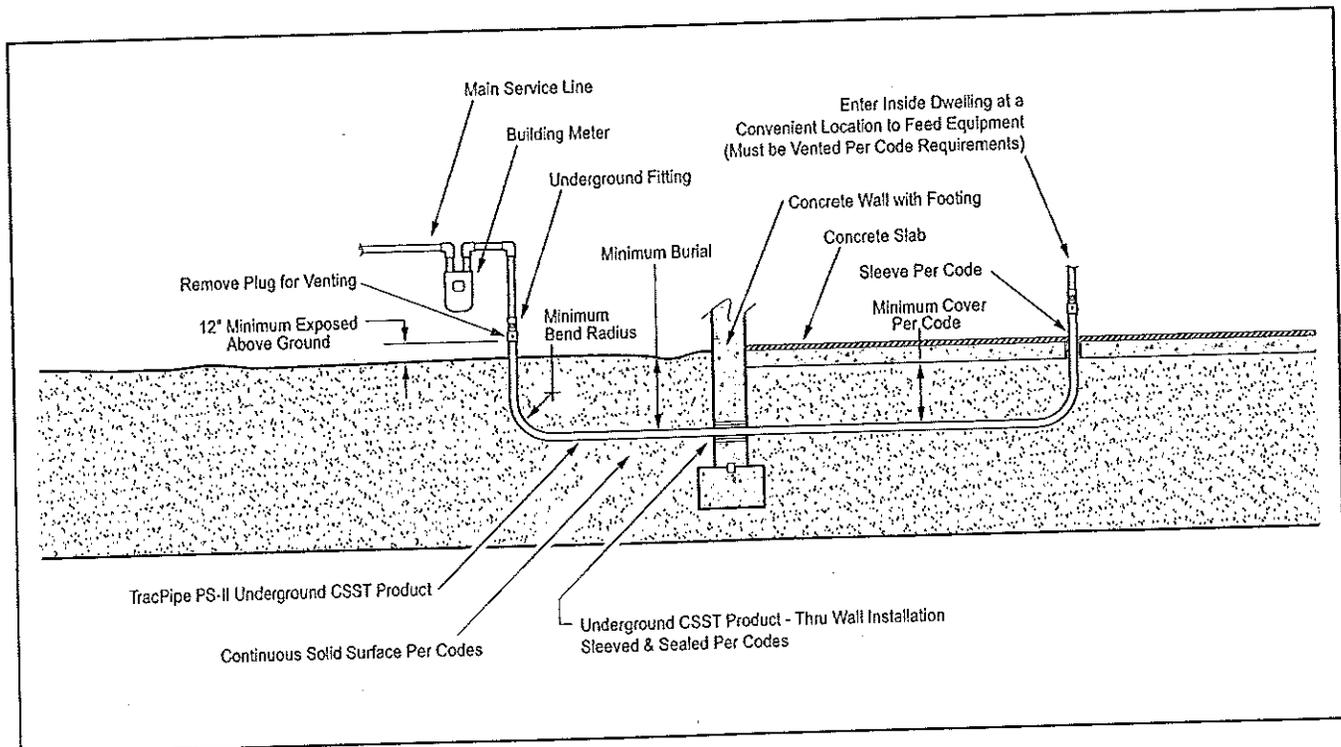


Figure: 4-24

Table: 4-6

Minimum cover requirements for TRACPIPE PS-II, Burial in inches (cover is defined as the shortest distance measured between a point on top surface of the outer sleeve and the top surface of finished grade, concrete or similar cover)	
<b>Location of buried TracPipe PS-II</b>	<b>Minimum cover for direct burial without concrete encasement</b>
All locations not specified below	18 inch
In trench below 2-in thick concrete or equivalent	12 inch
Under a building with interior slab	4 inch
Under minimum of 4-in. thick concrete exterior slab with no vehicular traffic and the slab extending not less than 6-in beyond the underground installation	4 inch
Under streets, highways, roads, alleys, driveways, and parking lots	24 inch
One and two family dwelling driveways and parking lots and used only for dwelling-related purposes	18 inch
In or under airport runways, including adjacent areas where trespassing prohibited	18 inch

Note: When encased in concrete, the concrete envelope shall not be less than 2 inches thick.

2. When transitioning **TracPipe PS-II** from below grade or under slab to above grade, use the recommended minimum bend radius as shown in Table: 4-7 below.

TABLE: 4-7

RECOMMENDED MINIMUM BENDING RADIUS FOR <b>TracPipe PS-II</b>	
Tubing Size	Minimum Bend Radius R
	PS-II
3/8 inch	6 inch
1/2 inch	6 inch
3/4 inch	8 inch
1 inch	10 inch
1-1/4 inch	12 inch
1-1/2 inch	16 inch
2 inch	18 inch

3. Recommended exposed clearance height (height to the **AutoFlare** fitting above grade) is 12 inches minimum when terminating at this point. For vertical runs up the outside of a building in traffic areas, protect the **TracPipe PS-II** as explained in Section 4.3B.

4. Avoid bending the above grade vertical portion of the **TracPipe PS-II** piping beyond the minimum bend radius in Table:

4-7. To make a tighter bend in order to line up for a wall penetration, use a rigid fitting such as a malleable iron elbow.

5. **TracPipe PS-II** is suitable for above ground installations and is resistant to U.V. exposure. Portions rising above grade should be rigidly supported by direct attachment to a wall or independent support, (e.g. metallic strut) or by connection to rigid downstream piping or fittings (e.g. at a meter or propane second stage regulator).

6. When installing **TracPipe PS-II** underground through a foundation wall, the space between the outer jacket and the building shall be sealed to prevent entry of gas or water.

7. **TracPipe PS-II** can penetrate directly through a concrete slab unless other requirements are established by local codes concerning slab penetrations and firestop requirements.

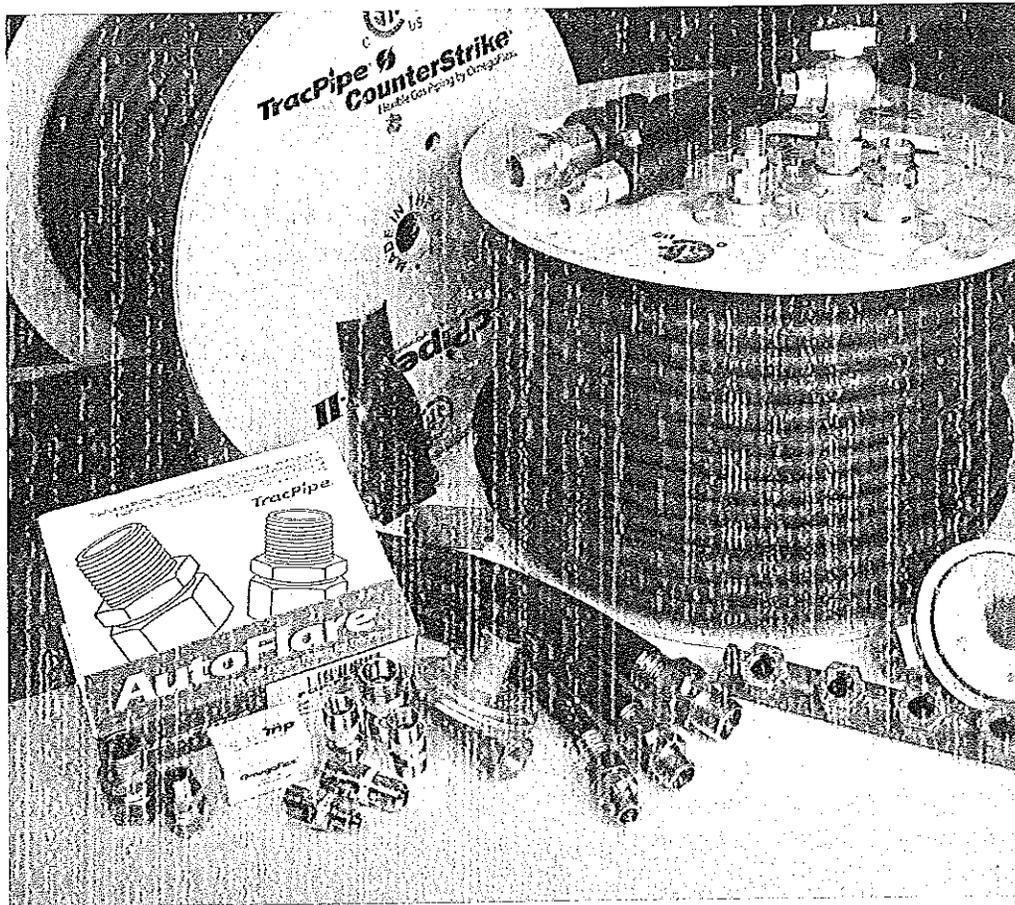
8. **TracPipe PS-II** can be transitioned to standard **CounterStrike**® piping above grade using **CounterStrike**® **AutoFlare**® fittings with a **TracPipe PS-II** Coupling P/N FGP-UGC-SIZE. Remove the black plastic vent coupling on the standard **CounterStrike**® side.

Alternatively use a malleable iron coupling for the transition.

9. **TracPipe® PS-II** must be transitioned above ground to standard **Counter-Strike®** when routing through plenums or through firestop penetrations. The black **TracPipe® PS-II** sleeve is not qualified for these locations.
10. Venting of **TracPipe® PS-II** shall be in

accordance with local codes to prevent the entrance of water, insects or foreign materials.

11. Typical underground installations for corrugated stainless steel tubing include, but are not limited to:
- Pool and spa heaters
  - School science laboratories
  - Gas service to outbuildings
  - Gas lamp posts and grills



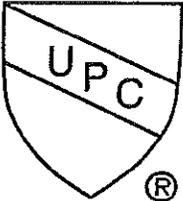
**TracPipe®**  **CounterStrike®**  
*Flexible Gas Piping by OmegaFlex.*

**OmegaFlex®**

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# IAPMO RESEARCH AND TESTING, INC.

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## CERTIFICATE OF LISTING

IAPMO Research and Testing, Inc. is a product certification body which tests and inspects samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

Effective Date: October 2012

Void After: October 2013

Product: Polyethylene Sleeved-Corrugated Stainless Steel Tubing For Use In Fuel Gas Piping Systems

File No. 4665

Issued To: Omega Flex Inc.  
451 Creamery Way  
Exton, PA 19341

Identification: Manufacturer's name or trademark and the UPC® certification mark which must be visible after installation.

Characteristics: Polyethylene Sleeved-Corrugated Stainless Steel tubing (PE-CSST) for use in fuel gas piping systems in underground and underground beneath building applications and are intended for use in normal installations when installed in compliance with Sections 1211.1.3 and 1211.1.6 of the Uniform Plumbing Code. To be installed in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code.

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

Products are in compliance with the following code(s):

Uniform Plumbing Code (UPC®)

  
Chairman, Product Certification Committee

  
CEO, The IAPMO Group

For the most accurate and updated information please visit <http://pld.iapmo.org/4665>

This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing.



# IAPMO RESEARCH AND TESTING, INC. CERTIFICATE OF LISTING

Page 2

Void After: October 2013

Product: Polyethylene Sleeved-Corrugated Stainless Steel Tubing  
For Use In Fuel Gas Piping Systems  
Issued To: Omega Flex Inc.

File No. 4665

Products are in compliance with the following standard(s):  
IGC 201-04

MODELS:

PRODUCT MEETS THE APPLICABLE REQUIREMENTS OF THE NATIONAL FUEL GAS CODE NFPA 54 INCLUDING 54:  
6.1.6.

<u>Tubing Model No.</u>	<u>Adapter Part #</u>	<u>Size</u>	<u>Type</u>
FGP-UGP-375	FGP-UGF-375	3/8"	Male
FGP-UGP-500	FGP-UGF-500	1/2"	Male
FGP-UGP-750	FGP-UGF-750	3/4"	Male
FGP-UGP-1000	FGP-UGF-1000	1"	Male
FGP-UGP-1250	FGP-UGF-1250	1-1/4"	Male
FGP-UGP-1500	FGP-UGF-1500	1-1/2"	Male
FGP-UGP-2000	FGP-UGP-2000	2"	Male
	FGP-UGTC-375	3/8"	Transition Coupling
	FGP-UGTC-500	1/2"	Transition Coupling
	FGP-UGTC-750	3/4"	Transition Coupling
	FGP-UGTC-1000	1"	Transition Coupling
	FGP-UGTC-1250	1-1/4"	Transition Coupling
	FGP-UGTC-1500	1-1/2"	Transition Coupling
	FGP-UGTC-2000	2"	Transition Coupling
	FGP-UGC-375	3/8"	Coupling
	FGP-UGC-500	1/2"	Coupling
	FGP-UGC-750	3/4"	Coupling
	FGP-UGC-1000	1"	Coupling
	FGP-UGC-1250	1-1/4"	Coupling
	FGP-UGC-1500	1-1/2"	Coupling

IAPMO RESEARCH AND TESTING, INC.  
CERTIFICATE OF LISTING

Page 3

Void After: October 2013

Product: Polyethylene Sleeved-Corrugated Stainless Steel Tubing  
For Use In Fuel Gas Piping Systems

File No. 4665

Issued To: Omega Flex Inc.

FGP-UGC-2000      2"      Coupling

**INTERNATIONAL ASSOCIATION OF PLUMBING  
AND MECHANICAL OFFICIALS**

**INTERIM GUIDE CRITERIA  
FOR**

**POLYETHYLENE SLEEVED-CORRUGATED STAINLESS  
STEEL TUBING FOR USE IN FUEL  
GAS PIPING SYSTEMS**

**IAPMO IGC 201-2004**

**1. PURPOSE**

- 1.1** The purpose of this standard is to establish a generally acceptable standard for Polyethylene Sleeved-Corrugated Stainless Steel tubing (PE-CSST) for use in fuel gas piping systems in underground and underground beneath building applications. It is intended to serve as a guide for producers, distributors, architects, code officials, contractors, installers and end users; to promote understanding regarding materials, manufacture and installation and to provide for identifying Polyethylene Sleeved-Corrugated Stainless Steel tubing (PE-CSST) that conform with this standard.
- 1.2** The provisions of this standard are not intended to prevent the use of any alternate material or method of construction, provided any such alternate meets the intent and requirements of this standard.

**2. SCOPE**

- 2.1** This standard applies to PE-CSST for use in fuel gas piping systems and included requirements for materials, construction, inspection, testing, marking and identification.
- 2.2** The Polyethylene Sleeved-Corrugated Stainless Steel tubing (PE-CSST) for use in fuel gas piping, covered by this standard, are intended for use in normal installations when installed in compliance with Sections 1211.1.3 and 1211.1.6 of the Uniform Plumbing Code.

**3. REFERENCED STANDARDS**

- 3.1** All standards referenced herein shall be the current edition of that standard as published in Table 14-1 of the Uniform Plumbing Code.

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ANSI/IAS LC 1	Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST) Fuel Gas
ASTM A 240	Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
ASTM B 16	Free-Cutting Brass Rod, Bar and Shapes for Use in Screw Machines
ASTM D 2000	Rubber Products in Automotive Applications
ASTM D 2239	Polyethylene Conduit
ASTM D 5593	Integrally Extruded Polyethylene Sleeve

#### 4. GENERAL REQUIREMENTS

- 4.1 **Corrugated Stainless Steel Tubing.** Corrugated stainless tubing shall comply with the requirements of ANSI/IAS LC 1.
- 4.2 **Polyethylene Sleeve.** Polyethylene sleeve shall be a minimum 0.0200" thickness and shall be tested in accordance with Section 5.2 and 5.3 of this standard.
- 4.3 **Containment Coupling/Vent Plug.** Containment coupling/vent plug shall be comply with the requirements in Section 1211.1.6 of the Uniform Plumbing Code and tested in accordance with Section 5.1 of this standard.
- 4.4 **O-Ring.** O-ring seals shall have a minimum tensile strength of 2030 psi and a hardness of 70 durometer in accordance with ASTM D 2000.
- 4.5 **Fittings.** Fittings shall be brass C36000 complying with ASTM B 16.
- 4.6 **Metal Insert.** The metal insert shall be manufactured from 300 series stainless steel complying with ASTM A 240.

#### 5. TESTING REQUIREMENTS

- 5.1 **Pressure Test.** Install the PE-CSST tubing, Containment Coupling and Containment Sleeve in accordance with the manufacturers instructions. The coupling and sleeve shall be subjected to an air pressure of 5 psi through the vent plug. The assembly shall be capable of holding the air pressure for a minimum of 30 minutes and shall show no signs of leakage.
- 5.2 **Electrical Inspection for Continuity.** A 6 foot length of PE-CSST tubing shall be inspected for continuity using a full-wave rectified, direct-current output detector set at a voltage computed by  $V \text{ (volts)} = 525 (t)^{1/2}$  where  $t$  is the coating thickness in mils ( $\mu\text{m}$ ), to check for holidays, pinholes, and discontinuities. In areas where surface configurations preclude the use of a dry detector, the coating shall be checked for continuity with a low-voltage wet-sponge detector. PE-CSST shall show no signs of holidays, pinholes, and discontinuities.

- 5.3 **Sleeve Thickness.** Randomly select 3 different locations two feet apart on a 6 foot sample of tubing to verify the minimum thickness of the PE coating on the CSST. The sample shall fail if the coating is not a minimum of 0.020" in all three tested locations.

## 6. MARKINGS AND IDENTIFICATION

- 6.1 All Polyethylene Sleeved-Corrugated Stainless Steel tubing (PE-CSST) shall be permanently and legibly marked with following information:
- a) Manufacturer's name or trademark; and
  - b) Any other required markings.

**Adopted: May 2004**

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

Effective Date: July 1, 2012

This listing is subject to re-examination in one year.

[www.icc-es-pmg.org](http://www.icc-es-pmg.org) | (800) 423-6587 | (562) 699-0543

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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 and 2009 *International Fuel Gas Code*® (IFGC)  
2012 and 2009 *International Residential Code*® (IRC)  
2012 and 2009 *IAPMO Uniform Plumbing Code*® (IAPMO UPC)\*  
2012 and 2009 *IAPMO Uniform Mechanical Code*® (IAPMO UMC)\*  
*\*Uniform Plumbing Code and Uniform Mechanical Code are copyrighted publications of the International Association of Plumbing and Mechanical Officials*

## 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 bi-annual surveillance inspections by CSA International (AA-659).

TABLE 1—POLYETHYLENE SLEEVE (CONDUIT) THICKNESS

Tubing Size (inches)	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	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



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
BUREAU OF CONSTRUCTION CODES  
IRVIN J. POKE  
DIRECTOR

STEVE ARWOOD  
DIRECTOR

April 17, 2013

BCCM-13-001

TO: Members of the Board of Mechanical Rules  
FROM: Kevin Kalakay, Chief, Mechanical Division  
SUBJECT: Mechanical Contractor Specialty License Modifications

**AUTHORITY:**

MCL 338.972 (q) of 1984 PA 192  
MCL 338.976 (3)  
R338.911 Rule 911 (3)

**BACKGROUND:**

Approximately in 1986 the Board of Mechanical Rules established six sub classifications of the specialty license. These sub classifications allowed an individual to take an exam and obtain a limited license for a specific type of work. Documentation however cannot be located to verify how the current sub classifications were established or to define them. Over the past twenty-seven years there have been many questions regarding the specialty license and the division receives calls on a daily basis regarding this issue. Since renewal notices for the 2013-2016 licenses will be sent out sometime in June 2013 and we are presently in the midst of a system software upgrade, now is the opportune time to implement modifications.

**FINDINGS:**

MCL338.972 Sec. 2(1) (q) states: Specialty License means a licensee granted pursuant to this act which allows the licensee to perform work within limits established by the board in 1 or more of the work classifications set forth in section MCL 338.976 6(3).

Rule 911 (3) states: The board shall establish limits for the issuance of a specialty license.

The present six "Specialty" licenses are as follows;

- 1) 10a Solar
- 2) 10b Solid fuel

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- 3) 10c LP tank and pipe
- 4) 10d Underground tank and pipe
- 5) 10e Gas piping
- 6) 10f Gas piping and venting

**RATIONALE:**

Over the past twenty-seven years there have been many questions regarding the specialty license and the division receives call on a daily basis regarding this issue. Since renewal notices for the 2013-2016 license will be mailed out sometime in June 2013 and we are presently in the midst of a system software upgrade, now is the opportune time to implement modifications.

**RECOMMENDATIONS:**

- 1) 10a Change “Solar” to “Solar Heating and Cooling” and add the definition: Solar Heating and Cooling is the installation of equipment and systems intended to utilize solar energy for space heating or cooling
- 2) 10b Change “Solid fuel” to “Solid Fuel Equipment & Vented Decorative Gas Appliances” and add the definition: Solid Fuel Equipment & Vented Decorative Gas Appliances is the installation of equipment that utilizes combusted solid fuel to produce heat or a vented fuel gas appliance wherein the primary function lies in the aesthetic effect of the flames.
- 3) Combine 10c (“L.P. Tank and pipe”) and 10d (“Underground tank and pipe”) to “LP Distribution Piping” and add the definition: LP Distribution Piping is limited to the installation of fuel gas piping from the outlet of the first stage regulator to the inlet of the second stage regulator.
- 4) 10e Change “Gas piping” to Fuel Gas Piping” and add the definition: Fuel Gas Piping is the installation of piping, valves and fittings from the outlet of the point of delivery to the inlet of the appliance used to convey natural gas, manufactured gas, liquefied petroleum gas or a mixture of these gases.
- 5) 10f Change “Gas piping and venting” to Fuel Gas Piping & Venting” and add the definition: Fuel Gas Piping & Venting is the installation of fuel gas piping and the installation of a continuous open passageway from the flue collar or draft hood of an appliance to the outside atmosphere for the purpose of removing flue or vent gases.

Staff recommends that the proposed sub classifications for the specialty license be approved with immediate effect.