

# GEORGIA DEPARTMENT OF COMMUNITY AFFAIRS

## CODE AMENDMENT FORM

ITEM NO: \_\_\_\_\_ (DCA USE ONLY) PAGE \_\_\_\_\_ OF \_\_\_\_\_

CODE: IFGC SECTION: 503

PROPONENT: Larry Gill DATE: January 3, 2019

EMAIL: Larry.gill@ipexna.com

ADDRESS: 1425 North Service Road E, Unit 3, Oakville, Ontario Canada

TELEPHONE NUMBER: 1800-463-9572 FAX NUMBER: Prefer email

CHECK  Revise section to read as follows:  Add new section to read as follows:  
ONE:  Delete section and substitute the following:  Delete without substitution:

~~LINE THROUGH MATERIAL TO BE DELETED:~~ UNDERLINE MATERIAL TO BE ADDED

Approve  Approve as amended (DCA STAFF ONLY)  Disapprove  Withdrawn

DESCRIPTION:

Proposed changes to the plastic venting section of the Code.

### **~~503.4.1 Plastic Piping~~**

~~Plastic piping used for venting appliances listed for use with such venting materials shall be approved.~~

### **~~503.4.1.1 Plastic Vent Joints~~**

~~Plastic pipe and fittings used to vent appliances shall be installed in accordance with the appliance manufacturer's installation instructions. Where a primer is required, it shall be of a contrasting color.~~

### **~~503.4.2 Special Gas Vent~~**

~~Special gas vent shall be listed and installed in accordance with the special gas vent manufacturer's installation instructions.~~

503.4.1 Plastic Piping. Where plastic piping is used to vent an appliance, the appliance shall be listed for use with such venting materials and the appliance manufacturers' installation instructions shall identify the specific plastic piping material. The plastic pipe venting system shall be listed and labeled in accordance with ANSI/UL 1738, Venting Systems for Gas Burning Appliances, Categories II, III, and IV.

503.4.2 Plastic Vent Joints. Plastic pipe and fittings used to vent appliances shall be installed with the appliance manufacturers' installations instructions. Plastic pipe venting materials listed and labeled in accordance ANSI/UL 1738, Venting Systems for Gas Burning Appliances, Categories II, III, and IV shall be installed in accordance with the vent manufacturer's instructions. Where primer is required, it shall be of a contrasting color.

503.4.3 Special Gas Vents. Special gas vents shall be listed and labelled in accordance ANSI/UL 1738, Venting Systems for Gas Burning Appliances, Categories II, III, and IV and installed in accordance with the special gas vent manufacturers' installation instructions.

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**REASON/INTENT:**

The 2018 IFGC includes a reference to UL 1738 for venting materials as well as a reference for appliance manufacturers to specify ASTM and CSA plumbing products for this application. The proposal is intended to mandate UL 1738 as the only option for a certified vent system. UL 1738 is a standard specific for flue gas venting and contains numerous tests for products used in a venting application. The CSA and ASTM plumbing standards do not contain any provisions for flue gas venting. In fact these ASTM and CSA standards warn against using these plumbing products in a flue gas vent application. An information package on UL 1738 as well as IPEX System 1738 Installation instructions are attached to and form part of this Amendment Form.

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**FINANCIAL IMPACT OF PROPOSED AMENDMENT:**

The proposed change will increase the safety of a flue gas vent system by mandating a certified product for the application. It is expected that this may increase the cost of a vent system from the current products. The overall cost increase of a heating system installation including furnace and venting will be negligible. For example the average slab below grade vent installation for a condensing tankless water heater would use approximately 20 feet of 2" vent pipe. If the cost for 2" DWV PVC was assumed to be \$0.50/ft. and this cost was doubled as the result of using certified vent, the overall pipe cost would increase from \$10 to \$20. The cost implications is negligible in comparison to the overall cost of the heating appliance.

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DESCRIPTION:

Add to Section 101.2 Scope

101.2.3 Personnel Training. Personnel performing installation, operation, and maintenance work shall be properly trained in such functions, and the training shall be documented.

REASON/INTENT:

Requirements for training of personnel for installation of life safety systems is common in many Codes. Examples include ASME and the CSA B149 Gas Code. The training provides protection for building inhabitants and installers. Currently, the IFGC does not contain any requirements for personnel training or requirements for qualified agencies responsible for the personnel. This proposal is intended to introduce training requirements to the Code. This proposal is related to another proposal to mandate the use of a UL 1738 certified vent system. The UL 1738 standard mandates that vent manufacturers have installation instructions certified by the listing agency. This Code proposal, if approved, would mandate that training be provided to installation personnel. An information package on UL 1738 as well as IPEX System 1738 Installation instructions are attached to and form part of this Amendment Form.

There are recorded incidents of venting failures but the details of these failures are lacking. Potential causes include vent material or appliance failures as well as installation errors. This proposal is intended to remove some of the risk related to improper installation. In 2014, the Consumer Product Protection Association

reported 165 unintentional non-fire CO poisoning deaths; an increase of 11% from the average number of reported incidents between 2012–2014. Of these reported incidents, heating system fatalities represented the largest percentage at 39% or 65 deaths.

Informal undocumented training is currently being done for these systems. This proposal is intended to formalize this training to ensure proper installation for a system carrying carbon monoxide gas through a home.

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**FINANCIAL IMPACT OF PROPOSED AMENDMENT:**

The proposed change will increase the safety of a flue gas vent system by mandating training. The cost of training will be the responsibility of the vent manufacturer. The trainees will be required to attend at their own cost. It is anticipated that training will be approximately 1 and ½ hours. The overall cost increase of a heating system installation including furnace and venting will be negligible.

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## CODE AMENDMENT FORM

ITEM NO: \_\_\_\_\_ (DCA USE ONLY)

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Chapter 8 Referenced

CODE: IFGC

SECTION: Standards

PROPONENT: Jonathan Sargeant

DATE: January 4, 2019

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FAX NUMBER: (860) 704-6930

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UNDERLINE MATERIAL TO BE ADDED

Approve

Approve as amended

(DCA STAFF ONLY)

Disapprove

Withdrawn

### DESCRIPTION:

**LC 1/CSA 6.26—201318: Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST)**  
403.5.5

### REASON/INTENT:

To update the product standard for CSST to make it consistent with the installation requirements of the 2018 IFGC and IRC.

### FINANCIAL IMPACT OF PROPOSED AMENDMENT:

No impact. Standard Change only