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Page 1 of 4

### GAS FIRED APPLIANCES USED FOR HEATING BUILDINGS UNDER CONSTRUCTION

This bulletin has been jointly developed by Municipal Affairs and industry representatives to inform builders, contractors, renovators, gasfitters/sheet metal workers and owners of the requirements to ensure the installation and operation of gas heating appliances comply with the manufacturer's certified installation instructions and the CSA B149.1 Natural gas and propane installation code.

Gas fired appliances used to supply heat to buildings that are under construction or during renovations are required to be certified for that use. All gas fired appliances shall be installed and operated as per the requirements in the CSA B149.1 Natural gas and propane installation code and the appliance manufacturer's certified installation instructions.

As of May 1, 2017 the manufacturers of gas heating appliances supplied in Canada, known as residential style furnaces changed their certified installation instructions to restrict these furnaces from being used to heat buildings that are under construction or being renovated.

The ANSI Z21.47/CSA 2.3 Gas-fired central furnaces standard requires the manufacturer's installation instructions of these units to contain:

- A statement specifying whether the furnace is permitted to be used for heating of buildings or structures under construction.
- If the manufacturer allows such use, the instructions shall specify the conditions that are required for use. Installation must comply with all manufacturer's installation instructions.

Buildings would be considered under construction/renovation where dusty conditions exist such as those created from installing drywall or textured finishes. A furnace certified to ANSI Z21.47/CSA 2.3 that bears an indication that it is not to be used for heating buildings or structures under construction could be used once drywall, texture and priming of interior surfaces is complete, including clean-up that would be required to minimize dust and debris.

Heating of an area during construction/renovation such as a basement development would require an alternate heat source for those areas so that a furnace with restrictions is not used for construction during the renovation. There will need to be separation of the construction and occupied areas to ensure the furnace serving the completed portions of the home is not exposed to the construction conditions.

The compliance monitoring by the authority having jurisdiction for the gas installations may be completed prior to energizing the furnace or after the completion of the building. It is the owner's or owners representative's responsibility to secure documentation from contractors that the permanently installed gas furnace in the building was not used to supply heat during the construction/renovation of the building and the installation is in accordance with the

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Issue of this STANDATA is authorized by  
the Gas Administrator

*[Original Signed]*  
Sidney Manning



Alberta  
Government

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manufacturer's installation instructions. This documentation cannot be used to replace, bypass or exempt the requirements of the Safety Codes Act, permit regulation, related codes, or compliance monitoring by the authority having jurisdiction as applicable.

### Related B149.1 Code Clauses

#### 4.1.3

An **appliance, accessory, component, equipment**, or any other item shall be installed in accordance with the manufacturer's **certified** instructions and this Code.

#### 4.1.4

Where a conflict exists between the manufacturers **certified** installation instructions and this Code, the requirements of this Code shall prevail unless otherwise **approved**.

#### 4.2.1

An **appliance, accessory, component, equipment**, or material used in an installation shall be of a type and rating **approved** for the specific purpose for which it is employed.

#### 4.3.2

**Installers** shall instruct the user in the safe and correct operation of all **appliances** or **equipment** that they install.

The attached form may be utilized as an example of an activation form to ensure an unapproved furnace is not used for heat during construction.

## Residential Furnace Activation Form

Unit Address: \_\_\_\_\_ Permit #/Issuer: \_\_\_\_\_

Builder: \_\_\_\_\_ Furnace Installer: \_\_\_\_\_

Furnace - Make: \_\_\_\_\_ Model #: \_\_\_\_\_

Serial #: \_\_\_\_\_

I, \_\_\_\_\_ (print), as a representative of the builder, declare that this furnace was not activated at any time during construction and was protected from construction contamination until the construction was completed. (This applies only if furnace was not used until occupancy).

### Builder to Verify:

Line #	Date:	Initials:	Verification Items
1			Furnace was protected from construction dust or other debris
2			Gas OR Electrical to the furnace was disabled. Furnace has not been previously activated
3			Furnace is in its final location with a concrete pad or finished floor underneath
4			Return air ductwork is sealed and/or isolated from the furnace
5			Interior gypsum board installation is complete and primed and/or textured
6			House has been cleaned of all debris and drywall dust
7			Heating duct work has been professionally cleaned of dust and debris
8			All inspections required by the AHJ for activation of the HVAC system are complete

### Activating HVAC Contractor to Verify:

09			Interior gypsum board installation is complete and primed and/or textured
10			Furnace is in its final location with a concrete pad or finished floor underneath
11			Gas OR Electrical means of disablement to the furnace was in place
12			Furnace interior is clear of construction dust or debris
13			New minimum MERV 11 filter has been installed at time of activation.
14			Thermostat Installed - NO FIXED JUMPERS ALLOWED
15			Operating parameters have been verified to match values on the rating plate.
16			Commissioning procedures set out by manufacturer have been verified

### Home Owner or Builder Representative

Name (print) \_\_\_\_\_ Signature \_\_\_\_\_

### Activating Contractor:

Name \_\_\_\_\_ Journeyman #: \_\_\_\_\_

Signature: \_\_\_\_\_

