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Page 1 of 2
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DIRECT VENT APPLIANCES AND EQUIPMENT
Requiring ULC S636 Certified Venting Systems

TO: GASFITTERS/INSTALLERS, NATURAL GAS UTILITIES, PROPANE DISTRIBUTORS, ACCREDITED MUNICIPALITIES AND AGENCIES

This bulletin has been jointly developed by Safety Services and the Gas Technical Council to inform designers, vendors, builders, contractors and owners of the minimum requirements to ensure safe and effective venting of gas appliances. Under the **Safety Codes Act** it is the responsibility of the owner, vendor, contractor, and user to ensure that the installation and operation of appliances comply with the *Act* and are in accordance with the **CSA-B149.1-2010 "Natural Gas and Propane Installation Code"**. This code applies to the installation of appliances, equipment, components, and accessories where gas is to be used for fuel purposes. In Alberta, under the *Safety Codes Act*, the inspection and approval of gas appliances and equipment shall comply with the requirements listed below.

The increased application of high efficiency furnaces and hot water tanks in construction has resulted in increased failures due to confusion with similar locations for combustion air and venting piping systems. The accidental installation of ABS/PVC piping on venting outlets that were intended for the combustion air piping is causing venting failures.

- **ULC S636 certified pipe and fittings are recommended on all piping arrangements including combustion air to ensure vent piping meets current requirements.**
- **Vent and combustion air locations on appliances should be separately identified.**
- ULC S636 certified pipe and fittings are required on all plastic venting arrangements.
- ULC S636 certified CPVC, PPE or PVC or systems are based on the exhaust temperature of the specific Appliance.
- ULC S636 certified PVC venting systems are suitable for flue gas temperatures identified by the manufacturer (typical maximums are 65° C).
- ULC S636 certified CPVC venting systems are suitable for flue gas temperatures identified by the manufacturer (typical maximums are 90° C).
- ULC S636 certified PPE venting systems are suitable for flue gas temperatures identified by the manufacturer (typical maximums are 110° C).

- Special consideration must be considered for proper glue, primer, and transition cement applications.
- No allowances are made for transitions back and forth across different venting systems other than appliance manufacturer supplied connections and terminations.

The purpose of this notice is to ensure that designers, vendors, builders, contractors and installers select the appropriate method of venting and use the applicable vent-sizing tables for any gas-fired appliance. The vent shall comply with the minimum Code requirements of the **Natural Gas and Propane Installation Code CSA-B149.1-2010**. The code is intended to establish essential requirements and states, that every gas-fired appliance shall be connected to either an effective *chimney* or a *vent*.