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Gas-Fired Infra-Red Tube Heaters

Subject: Hose Connector Installation to Infra-Red Tube Heaters

This Standata has been jointly developed by Safety Services and the Gas Technical Council to inform designers, vendors, builders, contractors (Gasfitters and Sheet Metal Mechanics) and owners of recommended installation of **gas hose** when connecting an infra-red tube heater to gas piping or tubing. **It also alerts installers, service personnel and owners to potential problems in existing installations.**

Under the CSA B149.1-10 Natural Gas and Propane Installation Code, a **Type I gas hose**, certified to CSA CAN/CGA-8.1, shall be installed to connect an infra-red tube heater to piping or tubing provided the **gas hose** length does not exceed 36 ± 6 in (90 ± 15 cm).

The operation of Infra-red tube heaters can result in an expansion in length of the tube of up to 1 in (100 mm) for every 10 ft (3 m) of tube. The installation of the **gas hose** must be made to accommodate this expansion following the heater manufacturer's installation instructions and the CSA B149.1 Gas Installation Code.

Municipal Affairs, Safety Services strongly recommends that installers and/or owners inspect existing installations to ensure that occasional movement of the appliance has not developed cracks in flexible metal connectors. Faulty metal connectors must be replaced immediately with a certified **gas hose**.

The installation instructions and recommendations provided by the manufacturer must be followed. In the absence of clear instructions on this aspect of the installation, the following configuration is recommended.

**Government
of Alberta** ■

Issue of this STANDATA is authorized
by the Administrator

[Original signed]
Sidney Manning



SAFETY CODES COUNCIL

Certified gas hose is recommended to be installed as shown, in one plane, and without sharp bends, kinks or twists. The gas take off from the drop line must be parallel to the burner gas inlet connection.

