

Inspection and Technical Services

Gas Equipment Bulletin: Job Fabricated Support(s) for Non-Residential Appliances/Equipment

ITS 21-018

CSA B149.1- 2015 - Natural gas and propane installation code

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.

Topic

Non-residential gas fired appliances/equipment are to be installed in accordance with the manufacturer's certified instructions and the CSA B149 Code requirements. The purpose of this bulletin is to provide information for consideration to one of the requirements to installation of appliances and equipment - **load distributing base supports**.

Important Information

Usually, load distributing base supports are supplied by the manufacture of the appliance or equipment. If the supports are not supplied by the manufacture, job fabricated base supports are allowed and it is a requirement that:

- The design to be by P. Eng. to provide a sufficient number of strategically placed supports and have a load capacity to prevent damage to the building structure, appliance, equipment piping or any combination.
- Structural supports consist of material that will not be affected by the appliance or equipment's operation including heat generation, vibration, exhaust, condensation etc.
- External conditions that may weaken supports such as weather, temperature difference, corrosive environment, snow loads, insects etc. are accounted for.

In addition, when selecting location, it is important to consider distances from wall, buildings, fences, parking lots, roof edges, building air openings, exhausts, property lines, anticipated snow levels, flammable vapors, combustible dusts or fibers etc. in accordance to current codes, standards and manufacturer's instruction.