

Identification of document.

VARIANCE

Date of Issue.

December 5, 2008

Authority Under which the variance is being issued

Under the authority of the *Safety Codes Act*, Chapter S-1 Section 38(1).

Where the variance applies.

This Variance applies throughout the Province of Alberta

Details of Variance

**NPC 2005
Division A, Part 1
1.2.2.1. (1)**

Stainless Steel pipe and pipe fittings for use as an alternate material for potable water systems is acceptable for installation in Alberta as part of a plumbing system subject to the following:

TERMS AND CONDITIONS:

1. Stainless Steel Pipe and Fittings for Sanitary Drainage systems

- 1.1 Above-ground** soil, waste, and vent pipe shall be Type 304 or Type 316L and shall comply with ASME A112.3.1.
- 1.2 Underground** building drains and vents shall be Type 316L and shall comply with ASME A112.3.1.
- 1.3 Building sewer pipe** shall be Type 304 or Type 316L and shall comply with ASME A112.3.1.
- 1.4** Fittings shall be approved for installation with the piping material installed and shall comply with the respective pipe standards or Types 304 and 316L that conforms to ASME A112.3.1.

2. Stainless Steel Pipe and Fittings for Storm Drainage systems

- 2.1 Above-ground** drainage piping shall be Type 304 or Type 316L and shall comply with ASME A112.3.1.
- 2.2 Underground building** drainage piping shall be Type 316L and shall comply with ASME A112.3.1.
- 2.3 Building sewer pipe** shall be Type 316L and shall comply with ASME A112.3.1.
- 2.4** Fittings shall be approved for installation with the piping material installed and shall comply with the respective pipe standards or Type 316L that conforms to ASME A112.3.2.

**Alberta requirements
Administrative Items
Regulation
(AR16/2004)**

3. Design and Installation

- 3.1** All aspects of a stainless steel drainage system are complex and shall be designed by a professional engineer licensed to practice in the province of Alberta.
- 3.2** The stainless steel sanitary building drainage and venting, building sewers and storm water drainage systems shall be reviewed during installation by a professional engineer, so that an acceptable level of performance may be maintained for all installations.
- 3.3** The stainless steel piping shall be installed in accordance with the manufacturer's instructions and the requirements of the National Plumbing Code of Canada (NPC).

This Variance is based on the objective-based Code format linked to the objectives and functional statements and past performance in sewage treatment plants and applications in industrial sites for sanitary and storm drainage systems when designed in accordance with good engineering practice. In addition, this Variance was reviewed and accepted by the Safety Codes Plumbing Technical Council.

This variance does not make or imply any assurance or guarantee with respect to life expectancy, durability or performance of equipment or materials.

**Identification of person
Issuing the Variance**

[Original Signed]

Signature
Carey LaRose
Plumbing Technical Administrator
Certification No. S 000474

Employer of Administrator

Alberta Municipal Affairs
Plumbing & Gas Safety

Procedure for submission of a variance

A signed copy of the variance will be submitted to:

Safety Codes Council
1000, 10665 Jasper Avenue
Edmonton, Alberta T5J 3S9

Advisement of Offence

Non-Compliance with the instructions contained in this variance is an offence under the Safety Codes Act.