

File: 16570-P03-V01

Variance No. **VAR-PS04.12**

Identification of document.

VARIANCE

Date of Issue.

January 25, 2012

Person to whom the variance is issued

Province Wide Application

Authority for Issuance

Safety Codes Act, Chapter S-1 section 38(1).

Application of variance

Private Sewage Systems, Peak Daily Wastewater Volume, Additional flow based on plumbing Fixture Unit (F.U.) load. Application throughout the Province of Alberta

Details of Variance

This is a variance to the Alberta Private Sewage Systems Standard of Practice 2009, Article 2.2.2.2 and Table 2.2.2.2.A. Specifically in Table 2.2.2.2.A, the column titled "Additional capacity required" is varied. This column currently requires the addition of 50 litres per day to the peak daily flow when the combined total fixture unit (F.U.) load exceeds 20. This table set out that the volume added to the peak daily wastewater flow is 50 litres (11 Imperial gallons) for each fixture unit above 20 fixture units. This variance allows the designer to use the criteria below to determine the volume of wastewater that must be added to the initial peak flow estimate due to additional fixture unit loading. Column 3 of Table 2.2.2.2.A is varied as show below.

Table 2.2.2.2.A.			
Residential Peak and Mean Volumes of Wastewater Per Day			
Facility	Peak expected daily wastewater volume	Additional capacity required based on plumbing F.U. total	Mean daily wastewater volume
Single-family dwelling and duplex	<ul style="list-style-type: none"> • 2 bedrooms or less: 2 people per bedroom X 340L (75 Imp.gal.) per person • 3 bedrooms or more: 1.5 persons per bedroom X 340L (75 Imp.gal.) per person 	Add 50 L (11 Imp. gal.) for each fixture unit ¹ exceeding: <ul style="list-style-type: none"> - 25 in a 2 or 3 bedroom residence or occupancy unit - 28 in a 4 bedroom residence or occupancy unit - 31 in a 5 bedroom residence or occupancy unit - 33 in a 6 bedroom residence or occupancy unit - Add 3 F.U. per bedroom to determine starting point F.U. load over 6 bedrooms 	<ul style="list-style-type: none"> • 228L (50 Imp. gal.) per person
Residential Occupancy other than single family dwelling or duplex	<ul style="list-style-type: none"> • 340 L (75 Imp. gal.) X 2 persons per bedroom 		228L (50 Imp. gal.) per person

Do not include the fixture unit load of a floor drain load unless it will receive

wastewater from another plumbing fixture or water using appliance.

This variance does not make or imply any assurance or guarantee with respect to life expectancy, durability or performance using this alternate design choice.

Person
issuing the
Variance

[Original Signed]

Alf Durnie
Administrator/Chief Inspector, Private Sewage Systems
SCO Certification No. S000493

Employer of
person issuing
variance

Alberta Municipal Affairs
Public Safety Division, Safety Services, Codes and Standards

Submission of
variance

A signed copy of this variance is submitted to:
Safety Codes Council, Suite 1000, 10665 Jasper Avenue, Edmonton, Alberta T5J 3S9

Advisement of
Offence

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