CERTIFICATION Informs...
An INFORMATION Bulletin from CSA International

Ref No: I04-053 **Date: May 10, 2004**

PLUMBING PRODUCTS NO. 151

New Service available as of today

New products to certify?

Call us today!
1-800-463-6727

ANNOUNCING: Publication of T.I.L. No. MSE-43 – Non-Water Consuming Urinals

Class Nos.

6911-04	PLUMBING FIXTURES	Ceramic
6914-03	PLUMBING FIXTURES	Stainless Steel
6915-03	PLUMBING FIXTURES	Thermosetting Plastics
6915-04	PLUMBING FIXTURES	Thermoplastic

Who is affected?

Manufacturers of Plumbing Fixtures

What do you do?

1. Contact your CSA engineer or the listed Technical Contact for information concerning the changes and how they apply to you.
2. Complete the attached CSA application for evaluation of your products if you decide to proceed.
3. Return the application to your CSA engineer with appropriate supporting documentation* and samples (if needed)

*Technical information as well as company name, address, factory locations and CSA file number or master contract number (if assigned) when applying.

Introduction:

CSA International is pleased to announce the publication Technical Information Letter (T.I.L.) No. MSE-43 for Non-Water Consuming Urinals.

This T.I.L. covers technical requirements, which are not addressed in the CSA Standard B45-02 Edition. Manufacturers have requested a certification program for non-water consuming urinals. In response, CSA International is pleased to offer a program in accordance with the following certification requirements.

Need additional technical information?

Contact Charlie Caruana, C.E.T.
By phone (416) 747-4343, fax (416) 747-4149
or e-mail charlie.caruana@csa-international.org

Apply any time to have your products evaluated

Visit us at www.csa-international.org
Click on "Contact Us" for the online phone listing of our Offices and Partners

Visit us at www.shopcsa.ca to purchase a Standard

CSA INTERNATIONAL

® Registered trade-mark of Canadian Standards Association

TECHNICAL INFORMATION LETTER NO. MSE-43

CSA International

Product Group: Plumbing Date: May 10, 2004

Issued By: Charlie Caruana

Approved By: Susan McCarthy

EQUIPMENT: Plumbing Fixture – Non-Water Consuming Urinals

ITEM: Interim Certification Requirements - Plumbing Fixtures

STANDARD: CSA Standard B45 SERIES-02 - Plumbing Fixtures (Consists of B45.0, B45.1, B45.2, B45.3, B45.4, B45.5, B45.6, B45.7 and B45.9)

Background

This T.I.L. covers technical requirements that are not addressed in the CSA Standard B45-02 Edition. Manufacturers have requested a certification program to cover non-water consuming urinals. In response, CSA International is pleased to offer the following certification requirements.

Scope

This T.I.L. covers performance requirements for non-water consuming urinals.

Definitions

Non-Water Consuming Urinal: A plumbing fixture, which is designed to receive and convey only liquid waste through a trap seal into the gravity drainage system without the use of water for such function.

Trap: A fitting, device or integral fixture portion so designed and so constructed as to provide a liquid seal, which will prevent the back passage of sewer gas without materially affecting the flow of sewage or wastewater through it.

Requirements

1.1 The construction and materials of the non-water consuming urinal, shall meet the applicable requirements of CSA Standard B45 Series-02 – Plumbing Fixtures.

1.2 Non-water consuming urinals shall have an integral trap with a liquid seal and an outlet assembly for connection to the drainage system.

1.3 The outlet pipe size of the urinal shall be such that it can be connected to the 2” drain line.

1.4 There shall be no ridges or ledges in the bowl area that will retain any raw urine from passing through the trap.

Performance Tests

2.1 Resistance to Stoppage

There shall be no evidence of stoppage or clogging during the following test.

The fixture shall be installed on a test stand in accordance with manufacturer's instructions. Two unfiltered cigarettes shall be deposited into the urinal. Tap water shall be added to the unit at a flow rate of 0.5 l/min. The length of the cigarette butts shall be 38 ± 2.5 mm. Cigarette butts and water shall be alternately added to the urinal until a total of twenty cigarette butts and ten pints (4.73 l) of water have been added. The cigarette butts shall be removed from the urinal and the test shall be conducted five additional times. Subsequent tests shall be conducted alternating between unfiltered cigarettes and crumpled unfiltered cigarettes so that three tests are conducted using unfiltered cigarettes and three tests are conducted using crumpled unfiltered cigarettes.

2.2 Tightness test of Removable Trap

There shall be no pressure loss when the trap insert is installed and removed fifty times (using the extractor tool provided by the manufacturer) and, afterwards, the trap-way is subjected to an air pressure test of 10 kPa (1.45 psi).

This test shall be repeated for a total of five times.

2.3 Odor Evaluation Test

2.3.1 All functional and user tests shall be conducted in conjunction with the specific chemicals and/or cleaners recommended by the manufacturer. Laboratory personnel shall be selected at random to simulate the usage claimed by the manufacturer in their literature. The manufacture's standard consumer's use instructions shall be followed throughout the test.

2.3.2 The test unit shall be installed in accordance with the manufacturer's recommendation. The test area shall have a single entry door. During a test period of five (5) weeks, only personnel designated shall utilize the test sanitation unit. The personnel shall simulate the usage claimed by the manufacture in their literature. The manufacturer's standard consumer's use instructions shall be followed throughout the test.

2.3.3 The unit shall be in a convenient location, which shall permit personnel to utilize the test sanitation unit instead of conventional facilities.

2.3.4 The test unit shall be checked daily and the following items shall be recorded:

(a) Proper functioning of the unit;
(b) The maximum and minimum air temperature 30 cm from the unit;
(c) A log shall be maintained of the personnel using the urinal, noting the names of the users and the time of day the unit is used. An entry shall be placed in the log each time the unit is used.

The environmental temperature of the inside of the compartment housing the sanitation unit shall be maintained between 20 to 38 °C (68 to 100 °F) during the entire testing period.

2.3.5 The odor shall be evaluated before and after each use. This shall be one evaluation. A minimum of 50 usages and evaluations shall be taken during the test period.

Suggested format for reporting results of

Odor evaluation test on non-water consuming urinals

Instructions: Meet daily quota. A minimum total of 50 evaluations shall be conducted. Record evaluation by recording the appropriate number				
1 acceptable 2 barely acceptable 3 not acceptable				
Date	Time	Before	After	Evaluator
		1 2 3	1 2 3	
		1 2 3	1 2 3	
		1 2 3	1 2 3	

2.3.6 Only ordinary cleaning recommended by the manufacturer shall be done during the test period.

2.3.7 The unit, in conjunction with the manufacturer's recommended chemical, shall be evaluated at the end of the test period, by calculating the final number of scores in each classification category.

2.3.8 The pass criteria shall be when 95% of the readings fall within 1 or 2 in the above table.

2.4 Marking

The marking shall be permanent and legible. Markings shall be visible after installation.

If a label is used, it shall be a CSA Listed Type B label.

Manufacturer's name or trademark
CSA Mark

2.5 Instruction

Installation instructions shall be provided with each urinal. Such instruction shall include pre-installation preparation of the site and step-by-step installation.

Maintenance instructions shall be provided with each urinal. These instruction shall include at least cleaning methods, frequency of cleaning, Blueseal refill procedures and frequency rates, replacement of parts, recommended cleaning agents, trouble shooting of problems and other related information that will render the operation of the urinal effective.

Note: Provincial Regulation may require a permanent sign to be posted, in a conspicuous location, indicating the manufacturer's recommended maintenance procedure and frequency schedule. This schedule shall be posted in each room where the urinal is installed.