STANDARDS UPDATE NOTICE (SUN)
ISSUED: October 20, 2022

STANDARD INFORMATION

Standard: ULC S636
Standard ID: Standard for Type BH Gas Venting Systems [ULC S636:2008 Ed.3+R1]
Previous Standard ID: Standard for Type BH Gas Venting Systems [ULC S636:2008 Ed.3]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **October 19, 2023**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- New requirements for venting systems tests
- Revised requirements for seals
- New requirements for enclosures.

Specific details of new/revised requirements are found in table below.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.

STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		Additions to existing requirements are underlined and deletions are shown ~~lined out~~ below.
3	Info	**PERFORMANCE**
3.1	Info	**GENERAL**
3.1.1		Venting systems shall comply with the following conditions when tested in accordance with these requirements: A Safe temperatures to combustible construction shall be maintained; B No part shall attain a temperature in excess of its material temperature rating; C Required corrosion protective coatings or finishes shall not be damaged, and the effectiveness of the coating or finish shall not be impaired; D No part shall sustain distortion, cracking, or loosening of joints such as to impair the intended function of the system E Resistance to damage by wind, rain and handling shall be demonstrated; F The effectiveness of thermal insulation shall not be reduced; and G Sealing materials or tape at joints shall not be deteriorated.
3.1.2		***New clause added;*** Representative samples are to be selected and used for test purposes. If venting system sections are of uniform grade, thickness, and cross section, such as square or round, the samples are to be selected from the largest and the smallest sizes. Square or round sections, varying in grade and thickness with size, may also require samples in the intermediate size range. Rectangular sections are to be selected on the basis of grade, thickness, and size, as well as the largest ratio of width to depth produced by the manufacturer. Consideration is to be given to selecting sample shapes that will be the most vulnerable to damage under the conditions of test.
3.2	Info	**TEST NO. 1 – TEMPERATURE, STRUCTURE**
3.2.1	Info	**Test Installation**
3.2.1.7		A hot air or flue-gas generator such as illustrated in Figure 8 and Figure 9 is to be used to supply simulated flue gases to the system being tested. The generator is to be capable of producing gases at the test temperatures and pressures specified herein. Dilution air is to be introduced into the test assembly as necessary to maintain the specified test temperatures. For hot air or flue-gas generation, a premix type burner assembly capable of supplying a stoichiometric air-gas mixture is to be used. Combustion is to be complete within the horizontal straight length of the generator combustion chamber. The insulated generator outlet is to be connected directly to the inlet of the test venting system using the manufacturer's specified connector parts.

CLAUSE	VERDICT	COMMENT
3.2.1.9		Gaps or joints between firestops and combustible construction are to be sealed with plastic coated or film faced pressure sensitive tape lapping the joint by a minimum of 1 inch (25.4 mm) on each side. Joints between two or more factory-made parts, which in combination provide a firestop, are to be similarly taped. Gaps or joints between vent sections and firestops are not to be taped with the exception of an attic floor or exterior wall penetration.
3.2.1.11		Plywood used for the test enclosure for a vent is to be 9.5 mm thick. All joints and openings between spacers or supports and the test enclosure, and all joints and openings in the test enclosure walls, are to be sealed with plastic coated or film faced pressure sensitive tape lapping the joint by a minimum of 1 inch (25.4 mm) on each side.
3.2.1.14		Tests are to be conducted in a test structure arranged typically as shown in Figure 1. Vent pipe is to be tested on the basis of clearance to the enclosure. Such clearance is designated by the dimension "X" in Figure 1. The enclosing casing is to be of a square cross section for round and square pipe and of rectangular cross section for oval and rectangular pipe. The four sides of the enclosing casing are to be 9.5 mm plywood. The test enclosure material at each floor joist level is to be made of lumber with dimensions as specified in Figure 1, forming a box placed at zero clearance to the vent sections or to a manufacturer's support or firestop-spacer assembly. The test enclosure material at the roof-joist level is to be made of lumber with dimensions as specified in Figure 1 forming a box placed at the clearance specified in the installation instructions for enclosures or at the lesser clearance required to provide support means for a roof assembly. All wall and ceiling surfaces at the inlet to the venting system, and all plywood surfaces, are to be painted flat black on the side facing the test assembly.