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Ontario

**Building Materials Evaluation
Commission**

**Commission d'évaluation des
matériaux de construction**

BMEC AUTHORIZATION: 14-04-370

Quad Close Trap Seals: Models 2692-02, 2692-03, 2692-0350 and 2692-04

Date of Authorization: April 24, 2014
Date of Expiry¹: April 24, 2019

1. Applicant

Jay R. Smith Manufacturing Co.
2781 Gunter Park Drive East
Montgomery, Alabama
36109-1405 USA

Tel: 334 277-8520
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2. Manufacturing Facility

Jay R. Smith Manufacturing Co.
2781 Gunter Park Drive East
Montgomery, Alabama
36109-1405 USA

3. Authorization

The Quad Close Trap Seals: models 2692-02 (50 mm / 2 in.), 2692-03 (76 mm / 3 in.), 2692-0350 (90 mm / 3.5 in.), and 2692-04 (100 mm / 4 in.) (the "Quad Close Trap Seals") are floor drain barrier traps made of elastomer material designed to allow liquid to flow down the drain while preventing the migration of sewer gases and vermin from below the drain.

Three of the Quad Close Trap Seals models: 2692-02 (50 mm / 2 in.), 2692-03 (76 mm / 3 in.), and 2692-04 (100 mm / 4 in.) are designed to be installed in the drain body outlet, inside the throat of the strainer, or inside the pipe, while the model 2692-0350 (90 mm / 3.5 in.) is designed to be installed in an adjustable strainer.

¹ This Authorization expires on the date shown. It is the responsibility of Authorization holders to make a complete application considering the time for review and complexity of the new application.

Additional descriptive information is provided in documents supplied by the Applicant listed in Appendix A.

Reports and assessment provided by the Applicant demonstrate that if the Quad Close Trap Seals are manufactured, designed, constructed, installed, and maintained in accordance with the manufacturer's instructions and limitations, and the specific terms and conditions stated in this authorization, the use of the Quad Close Trap Seal shall be deemed to not be a contravention of Sentence 7.4.5.5.(1) of Division B of the Building Code.

All other requirements pertaining to the construction and installation are subject to the requirements of the Building Code, and subject to the following terms and conditions contained in 4 and 5 below:

4. Specific Terms and Conditions

1. This authorization is valid only for Jay R. Smith Manufacturing Co.'s Quad Close Trap Seals: models 2692-02, 2692-03, 2692-0350, and 2692-04;
2. The 50 mm (2 in.), 76 mm (3 in.), and 100 mm (4 in.) Quad Close Trap Seals 2692-02, 2692-03, and 2692-04 respectively, and shall only be used in cast iron, ABS, and PVC floor drains;
3. The 90 mm (3.5 in.) Quad Close Trap Seal, model 2692-0350 shall only be installed in conjunction with an ANSI/ASME A112.6.3. "Floor and Trench Drains" approved adjustable strainer;
4. The Quad Close Trap Seals shall come with a sticker, that shall be posted in a location where it will be readily available to the occupants for reference, and it shall include a minimum of the following information:
 - (a) Jay R. Smith Manufacturing Co., and
 - (b) "The Quad Close Trap Seal shall be inspected and cleaned annually";
5. The Quad Close Trap Seals shall have a minimum the following permanent and visible markings:
 - (c) Jay R. Smith Manufacturing Co.,
 - (d) ASSE 1072., and
 - (e) Model Number (2692-02, 2692-03, 2692-0350 or 2692-04);
6. The Quad Close Trap Seals shall not be installed where the discharge sewage or waste may damage or impair the fitting;
7. The Quad Close Trap Seals shall be installed such that the bottom of the fitting does not come in contact with the water in the trap seal; and
8. The Quad Close Trap Seals shall not be installed where the liquid discharge may reach or exceed a temperature of 60⁰ C (140⁰F).

5. General Conditions

1. The use of the Quad Close Trap Seals as described in Section 3. and the Specific Terms and Conditions set out in Section 4 must comply with:
 - (a) the *Building Code Act, 1992*, (the “Act”) as amended or re-enacted,
 - (b) except as specifically authorized herein, the Building Code as amended or remade, and
 - (c) all other applicable legislation.
2. A copy of this Authorization shall accompany each application for a building permit and shall be maintained on the site of the construction with the building permit.
3. The Applicant specified in Section 1. shall promptly notify the BMEC of:
 - (a) the failure of the Applicant to comply with any of the Specific Terms and Conditions set out in Section 4,
 - (b) the failure of the material, system or building design that is the subject matter of this Authorization to
 - (i) comply with any of the Specific Terms and Conditions set out in Section 4, or
 - (ii) provide a satisfactory level of performance in situ, or
 - (c) the occurrence of any of the events described in General Conditions 5.4.(a), (b), (e) or (f).
4. The BMEC may amend or revoke this Authorization at any time on its own initiative, or at the request of the Applicant specified in Section 1. Without restricting the foregoing, the BMEC may amend or revoke this Authorization where it determines that:
 - (a) any change has been made to:
 - (i) the name of the Applicant specified in Section 1,
 - (ii) the address or other contact name information of the Applicant specified in Section 1,
 - (iii) the ownership of the Applicant specified in Section 2,
 - (iv) the manufacturing facilities specified in Section 2,
 - (v) the material, system, or building design that is the subject matter of this Authorization, or
 - (vi) a test method relevant to this Authorization,
 - (b) the Applicant has failed to comply with any of the terms and conditions set out in this Authorization,
 - (c) in the opinion of the BMEC, the use of the material, system or building design authorized herein provides an unsatisfactory level of performance in situ,
 - (d) in the opinion of the BMEC, amendment or revocation of the Authorization is appropriate on the basis of potential danger to public health and safety,
 - (e) the *Act* or Building Code has been amended, re-enacted or remade in a manner relevant to this Authorization,
 - (f) this Authorization was issued on mistaken, false or incorrect information, or
 - (g) a revision of an editorial nature is appropriate.

Dated at Toronto this 24th day of April 2014

BUILDING MATERIALS EVALUATION COMMISSION

Edward Link, P.Eng
Chair, Building Materials Evaluation Commission

ENCLOSURES: APPENDIX A - SUPPORTING INFORMATION

Appendix A – Supporting Information

The following is a list of the documents that were submitted and reviewed, but were not limited to:

1. Standard, ASTM, “ASTM D543-06, Standard Practice for Evaluating the Resistance of Plastics to Chemical Reagents”;
2. Ontario’s 2012 Building Code, specific references, 3 pages;
3. Manufacturer’s Literature, Jay R. Smith Manufacturing Co., “Smith® Smith Fig. No. 2693 Quad Close: The Myths and Facts of Sewer gases and Drains”; undated, 2 pages;
4. Drawing, Jay R. Smith Manufacturing Co., “2” Trap Seal Drain Assembly”, sheet 70312 ASSM, drawn 3-10-14;
5. Drawing, Jay R. Smith Manufacturing Co., “3” Trap Seal Drain Assembly”, sheet 70313 ASSM, drawn 3-10-14;
6. Drawing, Jay R. Smith Manufacturing Co., “3.50” Trap Seal Drain Assembly”, sheet 70320 ASSM, drawn 3-10-14;
7. Drawing, Jay R. Smith Manufacturing Co., “4” Trap Seal Drain Assembly”, sheet 70314 ASSM, drawn 3-10-14;
8. Letter Report, Sereca Larden Muniak Consulting Inc., “BMEC Application A2013” The Quad Close Trap Seal”, dated February 25, 2014;
9. Letter Report, Sereca Larden Muniak Consulting Inc., “BMEC Application A2013” The Quad Close Trap Seal”, dated March 17, 2014;
10. Test Report, American Society of Sanitary Engineering Seal Program (ASSE), “ASSE Standard 1072: Barrier Type Floor Drain Trap Seal (certificate) Protection Devices”, Laboratory File Number 19502(12014), 05/04/12
11. Manufacturer’s Illustration, Jay R. Smith Manufacturing Co., “Fig. No. 2692-02, Quad Close Trap Seal Devise 2””, undated;
12. Drawing, Jay R. Smith Manufacturing Co., “2” Trap Seal”, sheet 70312 ASSM, drawn 1-8-08;

13. Drawing, Jay R. Smith Manufacturing Co., "3" Trap Seal", sheet 70313 ASSM, drawn 1-8-08;
14. Drawing, Jay R. Smith Manufacturing Co., "3.5" Trap Seal", sheet 70320, drawn 1-8-08;
15. Drawing, Jay R. Smith Manufacturing Co., "4" Trap Seal", sheet 70314 ASSM, drawn 1-8-08;
16. Test Report, American Society of Sanitary Engineering Seal (certificate) Program (ASSE), "ASSE Standard 1072: Barrier Type Floor Drain Trap Seal Protection Devices", Laboratory File Number 20346 (12016), 05/21/2012;
17. Manufacturer's Illustration, Jay R. Smith Manufacturing Co., "Fig. No. 2692-02, Quad Close Trap Seal Devise-2'", undated;
18. Test Report, American Society of Sanitary Engineering Seal (certificate) Program (ASSE), "ASSE Standard 1072: Barrier Type Floor Drain Trap Seal Protection Devices", Laboratory File Number 20616(12018), 08/07/12;
19. Drawing, Jay R. Smith Manufacturing Co., "3.5" Trap Seal", rev C, drawn 1-8-08;
20. Drawing, Jay R. Smith Manufacturing Co., "Trap Seal, Figure Number 2692", revised 2-9-10;
21. Drawing, Jay R. Smith Manufacturing Co., "Trap Seal: Installation Illustrations, Figure Number 2692 BS", revised 4-2-12;
22. Manufacturer's Illustration, Jay R. Smith Manufacturing Co., "Fig. No. 2692-035, Quad Close Trap Seal Devise-3.5'", undated;
23. Video, Sereca Larden Muniak Consulting Inc. "Quad Close Trap Seal: Demonstration Video" dated March 2014;
24. Test Results, QAI laboratories, "Test Report No. TJ0487-R2", dated April 24, 2012;
25. Test Report, American Society of Sanitary Engineering Seal (certificate) Program (ASSE), "ASSE Standard 1072: Barrier Type Floor Drain Trap Seal Protection Devices", Laboratory File Number 19502(12015)" dated 05/04/12;
26. Manufacturer's Illustration, Jay R. Smith Manufacturing Co., "Fig. No. 2692-04, Quad Close Trap Seal Devise-4'", undated;
27. Certification, American Society of Sanitary Engineering, "ASSE Standard Number: 1072 and Seal Number: 1435", date 05/13/2013;
28. Certification of Listing, IAPMO Research and Testing, Inc., "Floor Drain Trap Seal Protection Devices", dated April 2013;
29. Report, Sereca Larden Muniak Consulting Inc., "Engineering report for Quad Close Trap Seal: Model 2692-02, 2692-03, 2692-0350 & 2692-04", file number 7479, dated October 22, 2013;
30. Manufacturer's Literature, Smart Solutions, "Brant Trims Installation Time with Jay R. Smith Mfg. Co. Quad Close Trap Seal Device", Summer 2012;
31. Manufacturer's Literature, Smart Solutions, "Jay R. Smith Mfg. Co. Helps Olsen Plumbing Meet Tight Deadline", Summer 2011;
32. Manufacturer's Literature, Jay R. Smith Mfg. Co., "Quad Close Trap Seal Device", undated, 1 page;
33. Manufacturer's Literature, Jay R. Smith Mfg. Co., "Stink Stopper: Quad Close Trap Seal Device", undated, 2 pages; and
34. Manufacturer's Literature, Jay R. Smith Mfg. Co., "Engineering Communique: Volume 2-Issue 9", November 2012, 3 pages.