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**Building Materials Evaluation
Commission**

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

BMEC AUTHORIZATION: 18-02-383 Bruno's Backwater Trap, BRU-01

Date of Authorization: February 22, 2018

Date of Expiry¹: February 22, 2023

1. Applicant

Bruno's Plumbing and Heating Inc.
274 Richmond Road
Ottawa, Ontario
K1Z 6X2

Tel: 613 722 7464

Fax: 613 723 6133

Web: www.backwatertrap.com

2. Manufacturing Facility

L-D Tool and Die
a division of MADIX Engineering Inc.
139 Iber Road
Ottawa, Ontario
K2S 1E7

3. Authorization

The Bruno's Backwater Trap is a floor drain, having characteristics of a trap and a backwater valve, made of ABS (acrylonitrile-butadiene-styrene).

The Bruno's Backwater Trap, model number BRU-01, is approximately 440 mm high, 250 mm wide and 270 mm long.

The Bruno's Backwater Trap is designed to let water out to the sanitary line, but water, gas, or odor cannot come back in. The Bruno's Backwater Trap has a flapper valve that is usually in a closed position and only opens with the flow of water. There is an outer compartment that collects the water, either through the grille or the inlet connection. Once the water is high enough in the unit, it will move through the flapper valve that is usually in the closed position to the inner sealed compartment and then to the sanitary line.

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.

The Bruno's Backwater Trap also has a 50 mm (2") female connection that allows for a variety of fixtures to be connected to the unit. If none of these options are required, then the connection is capped.

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 Bruno's Backwater Trap is 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 Bruno's Backwater Trap is considered to be not in contravention of Article 7.1.4.2. "Floor Drains" of Division B of the Building Code.

All other requirements pertaining to the manufacturing, design, construction, installation and maintenance 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 Bruno's Plumbing and Heating Inc.'s Bruno's Backwater Trap, model number BRU-01.
2. The Bruno's Backwater Trap shall only be used as a floor drain.
3. The Bruno's Backwater Trap shall not be installed on a building drain.
4. The Bruno's Backwater Trap shall not be used as an interceptor.
5. The Bruno's Backwater Trap shall not accept waste from a sanitary sewer.
6. The Bruno's Backwater Trap shall only accept greywater, clear water, or fluid from a weeping tile.
7. The Bruno's Backwater Trap shall not accept fluid from a storm drain system.
8. The Bruno's Backwater Trap shall only be used in buildings whose application falls under Part 9 "Housing and Small Buildings" of Division B of the Building Code.
9. The Bruno's Backwater Trap, used in a non-residential occupancy, shall be installed as the final fixture upstream from all other fixtures, and the 50 mm (2") female connection shall be capped.
10. The Bruno's Backwater Trap, used in a residential occupancy, shall only be installed in a branch and shall not serve a sanitary fixture.

11. The Bruno's Backwater Trap shall be installed in a conditioned space, and not be installed in exterior locations or those locations in which freezing of the device could occur.
12. The Bruno's Backwater Trap shall be installed and maintained as per:
 - a. "Backwater Trap Installation Manual", rev 2017-11
 - b. "Optional Backwater Trap Extension Flange Info Sheet"
13. The Bruno's Backwater Trap shall maintain the following certifications:
 - a. CSA B79 "Commercial and residential drains and cleanouts"
 - b. ASME A112.14.1 "Backwater Valves"

5. General Conditions

1. The use of the Bruno's Backwater Trap 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 1,
 - (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 22nd day of February 2018

BUILDING MATERIALS EVALUATION COMMISSION

Leo Grellette
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. Letter Report, Abraham Murra Consulting, “2017-05 BMEC Application, Bruno’s Backwater Trap – Response to Follow-up Letter dated October 31, 2017”, dated November 10, 2017
2. Letter Report, Abraham Murra Consulting, “Subject: Item 5, BMEC Application, Certification and Analysis, Bruno’s Backwater Trap”, dated August 24, 2017
3. Manual, “Backwater Trap Installation Manual”
4. Manual, “Backwater Trap Installation Manual”, rev 2017-11
5. Certificate of Compliance, CSA Group, Certificate 2587184, dated January 19, 2015
6. Certification Record, CSA Group, File No 253459, dated January 19, 2015
7. Profile of Reports, CSA Group, File No 253459, dated January 19, 2015
8. Descriptive Report and Test Results, CSA Group, File No 253459, Edition 2 January 19, 2015
9. Shop Drawings, L-D Tool and Die, “Back Water Trap for Floor Drain Assembly”, 2 pages
10. Letter, City of Cornwall, “Re: Bruno’s Backwater Trap”, dated June 14, 2017
11. Email correspondence, City of Ottawa, “RE: Bruno Giammaria – Backwater Trap”, dated December 4, 2013