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BMEC AUTHORIZATION: 16-02-378

ApolloPress® Fittings

Date of Authorization: May 26, 2016
Date of Revision: February 22, 2018 *update product name*
Date of Expiry¹: May 26, 2021

1. Applicant

Elkhart Products Corporation
A Division of Aalberts Industries
1-178 Pennsylvania Avenue
Concord, Ontario L4K 4B1

Tel: 574 264-3181
Web: Elkhartproducts.com

2. Manufacturing Facility

Elkhart Products Corporation
1255 Oak Street
Elkhart, Indiana,
USA 46155

Tel: 574 264-3181
Web: Elkhartproducts.com

3. Authorization

The ApolloPress® Fittings are copper fittings that incorporate an elastomeric seal with the fitting and may be used as an alternative to traditional copper soldering systems.

The ApolloPress® Fittings may be used with copper pipe sizes ½ in to 4 in. The ApolloPress® Fittings may be used in supply and drainage systems for above ground locations.

Reports and assessments provided by the Applicant demonstrate that if the ApolloPress® Fittings are manufactured, designed, constructed, tested, and installed in accordance with the manufacturer's instructions and limitations, and the specific terms and conditions stated in this authorization;

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 use of ApolloPress® Fittings shall be deemed to not be a contravention to the traditional practice of joining pipes in water distribution and drainage systems as required by Article 7.2.7.6. "Solder-Joint Water Fittings" and Article 7.3.2.6. "Mechanical Joints" of Division B of the Building Code.

All other requirements pertaining to the manufacture, design, construction, testing, and installation are subject to the requirements of the Building Code, and subject to the following terms and conditions contained below.

4. Specific Terms and Conditions

1. This Authorization is valid only for Elkhart Products Corporation's copper ApolloPress® Fittings;
2. This authorization is valid only for the copper ApolloPress® Fittings with sizes from ½ in to 4 in;
3. The copper ApolloPress® Fittings may be used in hot and cold water plumbing systems in above ground (not buried) applications only;
4. The copper ApolloPress® Fittings may be used in above ground drainage systems (not buried) applications only;
5. The copper ApolloPress® Fittings shall only be used with Type L or K copper pipe;
6. The copper ApolloPress® Fittings shall maintain listings with:
 - a. ASTM B42 Seamless Copper Pipe, Standard Sizes; and
 - b. NSF 61: Drinking Water System Components - Health Effects";
7. The copper ApolloPress® Fittings shall comply with the following standards:
 - a. ANSI/ASME B16.22: Standards of Pipes and Fittings
 - b. IAPMO PS 117-2012a^{e1} Press and Nail Connections
8. The copper ApolloPress® Fittings shall not be used in a plumbing system where the maximum pressure exceeds 1379 kPa (200 PSI) at 121°C (250 °F);
9. The copper ApolloPress® Fittings shall not be used in a fire protection system;
10. The copper ApolloPress® Fittings shall be installed in accordance with "APOLLOXPRESS®: Installation Guide & Pressing Instructions", per pages 49 thru 55 of the "APOLLOXPRESS®: Product Catalogue", version AXCAT 8/15; and
11. The elastomeric seal (EPDM O-ring) used with the copper ApolloPress® Fittings shall be Parco 5323-70 EPDM Seals.

5. General Conditions

1. The use of the Elkhart Products Corporation's 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 26th day of May 2016

BUILDING MATERIALS EVALUATION COMMISSION

Edward Link, P.Eng

CHAIR, BUILDING MATERIALS EVALUATION COMMISSION

attached – “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, Round Engineering Inc, "APOLLOXPRESS® Fittings", dated April 5, 2016;
2. Letter, Round Engineering Inc, "APOLLOXPRESS® Fittings", dated January 19, 2016;
3. Letter, Round Engineering Inc, "APOLLOXPRESS® Fittings", dated January 18, 2016;
4. Letter, Round Engineering Inc, "APOLLOXPRESS® Fittings", dated May 9, 2016;
5. Letter , TSSA, "ApolloXress", Service Request No. 986204, two pages, dated December 27, 2012
6. Letter, Conbraco Industries & Elkhart Products, "BMEC Application No. A 2015-06: APOLLOXPRESS®", dated March 10, 2016;
7. Letter, Conbraco Industries and Apollo Valves Canada, dated January 12, 2016;
8. Specification Sheets, ApolloXpress, "APOLLOXPRESS® Fittings Submittals", 61 pages;
9. Specification Sheets, APOLLOXPRESS®, "APOLLOXPRESS® Press Style, Copper, Brass, Bronze Fitting & Valves", ApolloXress Spec Sheet Rev B;
10. Specification Sheet, APOLLOXPRESS®, "Engineering Specifications", one page, dated June 2012;
11. Certification, Elkhart Products Corporation, "Design certification in Accordance with ASME B16.51, B16.22", including Attachment A and Attachment B, dated 29-Nov-12;
12. Specification Sheet, APOLLOXPRESS®, "APOLLOXPRESS® CRN Registration" dated 29-Nov-12;
13. Certificate, IAPMO, "Certificate of Listing: Copper Fitting (Press Type)", File No. 4861, Void After: December 2016;
14. Standard, IAPMO, "IAPMO PS 117-2012a^{e1} Press and Nail Connections", revised September 2012;
15. Certificate, HSB Global Standards, "CSA_B51-0 Annex F", expires June 2017;
16. Manufacturer's Literature, Parco, "5323-70 EPDM Seals", form 2858 1/14;
17. Manufacturer's Literature, ApolloXpress, "APOLLOXPRESS®: Product Catalog", version AXCAT 8/15
18. Policy, Elkhart Products Corporation, "Quality Policy", dated 3-1-16;
19. Report, Elkhart Products Corporation, "Work Instruction #EIP-04-041", 3 pages, approved on 3/10/2016;
20. Report, Parco, "ASTM 2000 M4CA710 A25 B35 EA14 G21 Z1 Z2 Z3 Z4 Z5", Report 9123A, report dated 06/02/11;
21. Presentation Slides, APOLLOXPRESS®, "Welcome: March 30, 2012", dated 01/14/2016; and
22. Standard, The American Society of Mechanical Engineers, "ASME B16.51-2011, Copper and Copper Alloy Press-Connect Pressure Fittings Standard", date of issuance January 31, 2011; and
23. Listing, NSF International, "NSF 61: Drinking Water System Components - Health Effects", dated January 27, 2011.