



IAPMO RESEARCH AND TESTING, INC.

A non-profit corporation

5001 East Philadelphia Street, Ontario, California 91761-2816
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This is to certify that

CRT Laboratories (Lab #0000037)

1680 N. MAIN STREET
ORANGE, CA 92867

is recognized by IAPMO Research and Testing, Inc. as an independent Testing Laboratory. IAPMO Research and Testing, Inc. agrees to accept reports prepared by the Laboratory in accordance with the policies and procedures agreed to by the laboratory in the Laboratory Recognition Agreement. The Laboratory has satisfactorily demonstrated its compliance to ISO/IEC 17025:2005 as referenced in clause 6.2 of ISO/IEC 17065:2012, and has been verified as capable of performing tests in the following categories:

Backflow Preventers | Cements, Solders & Joint Compounds | Electrical | Mfd. Housing/ R.V. Components | Metal Fixtures | Metal Pipe / Fittings | Pipe Wrap Tape/ Coatings | Plastic Cell Class Testing | Plastic Fixtures | Plastic Pipe/ Fittings | Pool/Spa Components / Fittings| Septic Systems | Shower Pan Liners | Valves/Faucets | Water Closets

IAPMO Research and Testing, Inc. will accept from the Laboratory only reports of testing conducted under the direct control and supervision of employees of the Laboratory.

This Laboratory Listing is valid beginning **3/31/2018** and expires after **3/31/2019**.

This listing is subject to the conditions set forth by IAPMO Research and Testing, Inc. Any alteration or falsification of this certification may constitute grounds for delisting of the Laboratory. Reproduction of this certification, in whole or in part, for advertising purposes without the expressed written permission of IAPMO Research and Testing, Inc. is strictly prohibited.


Russ Chaney
Chief Executive Officer




Jin Luo
Executive Vice President of
Laboratory Recognition



IAPMO RESEARCH AND TESTING, INC.
Laboratory Listing
APPENDIX "A"
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Certificate Appendix Page # 1

BACKFLOW PREVENTERS
ASME A112.14.1-2003 (R08)

CEMENTS/SOLDER/JOINT COMPOUNDS:
ASTM B 32-2008(sections 8.1, 8.1.1, 8.1.2, 8.2, 8.2.1, 8.2.2, 13.1, 13.1.1, 13.1.2, 13.1.3, 13.3.1, 13.3.2, 13.3.3, 13.3.4, 13.3.5), B813-2016, D2235-2004(R2011), D2564-2012, D2672-1996a (R2009), D2855-96 (R2010), D3122-1995 (R2009), D3212-2007, F656-2010

ELECTRICAL:
UL 651-1995

MANUFACTURED HOUSING/RV COMPONENTS:
IAPMO PS 42-2013, PS 54-2015 (Except Section 7.4), PS 94-2012, PS 95-2001, PS 64 - 2012ae1(except 4.1.1 and 6.4),CSA B272-93 (R008)

METAL FIXTURES:
ASME A112.6.4-2003 (R08), ASME A112.18.6-2009, ASME A 112.6.3-2016, ASME A112.6.7-2010 (Except Section 5.2 Specular Gloss), CSA B45.12-13/ IAPMO Z402-2013

METAL PIPE/FITTINGS:
ASME A112.18.6-2009, ASTM C 1173-2010e1 (except section 9.1.4), ASTM F 1807-2012 (except 5), ASTM F 2306-2011 (except section 7.8), ASME A112.18.2-2011/ CSA B125.2-11 (except sections: 5.2 & 5.4), IAPMO PS 120-2004 (except 4.1), ASTM C 1053-2000 (R2010), ASTM C 1460-2012, ASTM F 1948-2011.

PIPE WRAP TAPE/COATINGS:
IAPMO PS 37-1990 (except dielectric breakdown, High Humidity Insulation Resistance), AWWA C210-2007, AWWA C213-2007, IGC 189-2008 (Except section 4.1), ASTM F1743-08



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Certificate Appendix Page # 1

PLASTIC CELL CLASS TESTING:

Fingerprinting material using infrared and differential scanner

ASTM D 1248-1984, ASTM D 1784-2011, ASTM D3350-2014, ASTM D3965-2011, ASTM D4101-2014 (except section 13.1.7), ASTM C 564-14 (except 9.7)

PLASTIC FIXTURES:

ANSI Z124.5-2013, IAPMO PS 94-2012, PS 90-2012e1 (except 4.1.2), CSA B45.5-17/ANSI Z124-2017(except 5.10 and 5.12), ANSI Z124.8-2013 (except 5.4, 5.6, 5.7), ASME A112.6.4-2003(R08) , ASME A112.6.3-2001(R2007) , ASME A112.18.6-2017 (Except Toxicity), ASTM D5630-2013

PLASTIC PIPE/FITTINGS:

ASME A112.18.6-2009, ASTM D1527-1999(R2005), D 1785-2012, D2104-2003, D2239-2012, D2241-09, D2466-2006, D2467-2012, D2468-1996a, D2513-2012ae1, D2661-14(CSA, CAN/CSA-B181.1-M90), D2665-2014(CSA, CAN/CSA-B181.2-11), D2680-2001 (R09), D2729-11, D2737-2003, D2751-2005, D 2846-2009be1, D3034-2008(CSA, CAN/CSA-B182.2-M90), D3212-07, D3311-11, F405-2005, F409-2012, F437-09, F438-09, F439-09, F441-09, F442-2012, F628-2012e1 (Section 6.4.4), F667-2012, F794-2003 (R09), F810-2012, F876-2010e1, F 877-2011a, F 891-2010, F 949-2010, F 1412-2016, F 1673-2010, F 2158-2008;ASME A112.18.2-2011/ CSA B125.2-11(except sections: 5.2 & 5.4), A112.14.1-2003(R08) ,A112.6.4-2003 (R08),A112.6.3-2001(R2007), IAPMO Z1033-2013, PS 51-2013, PS 90-2012e1 (except 4.1.2), PS 94-2012, AWWA C900-1997 (pipe sizes through 8"), IAPMO IGC 120-1998a, IAPMO IGC 224-2009, ASTM F 1924-2012, NSF 14-2016a

POOL/SPA COMPONENTS/FITTINGS:

IAPMO Z1033-2013



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Certificate Appendix Page # 1

SEPTIC SYSTEMS:

IAPMO Z1000-2013, IAPMO IGC 219-2005, IAPMO IGC 262-13 (Except Section 4.4),
IAPMO PS 63-2005, IGC 276-2011 (Except section 6.1), IAPMO PS 52-2009e1

SHOWER PAN LINERS:

ANSI A118.10-R2011 (except M-4.1), ASTM D 4068-2009 (except 14.4), IAPMO PS 106-
2015e1, ANSI A118.12-14

VALVES/FAUCETS:

ASSE 1016-2011/ ASME A112.1016-2011/CSA B125.16-11 (Except sections 4.6, 4.7, 4.8
and 4.9), ASSE 1014-2005, ASME A112.18.1-2012/ CSA B125.1-12(except sections: 5.2,
4.9 Toxicity, 4.13), (CSA, CAN/CSA-B70-M91)

WATER CLOSETS:

ASME A112.3.4-2013/ CSA B45.13