

International Accreditation Service

# CERTIFICATE OF ACCREDITATION

*This is to signify that*

## CSA INTERNATIONAL

178 REXDALE BOULEVARD  
TORONTO, ONTARIO M9W 1R3  
CANADA

Testing Laboratory TL-218

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ANS/ISO/IEC Standard 17025:2005, *General criteria for the competence of testing and calibration laboratories*, and has been accredited, commencing December 29, 2009, for the test methods listed in the approved scope of accreditation.

*Patrick V. McCullen*

Patrick V. McCullen  
Vice President

*C. P. Ramani*

C. P. Ramani, P.E.  
President

*(see attached scope of accreditation for fields of testing and accredited test methods)*

Print Date: 02/23/2010

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# International Accreditation Service

# SCOPE OF ACCREDITATION


CSA International TL-218

CSA International  
178 Rexdale Blvd.  
Toronto, Ontario M9W 1R3  
Canada

Walter Vance  
Manager Accreditation and Conformity Assessment  
(216) 524-4990

| FIELDS OF TESTING                            | ACCREDITED TEST METHODS   |
|--|---|
| Plumbing products                            | ANSI A112.21.1M, ANSI Z124.1,.2,.3,.4,.6,.9, ASME/ANSI A112.18.1, .19, .19.5, .19.6, ASME/ANSI A112.19.1, .3, .7, .8, ASME/ANSI A112.19.2,.4, ASSE 1001, 1002, 1005, 1011,1012, 1013, 1014, 1015, 1016, 1018, 1019, 1020, 1024, 1025, 1029, 1035, 1037, 1052, 1056; ASTM Standards D 2239, D 2241, D 2466, D 2564, D 2661, D 2665, D 2683, D 2737, D 2235, D 2846, D 3034, D 3035, D 3138, D 3261, D 3309, F 493, F 789, F 845, F 876, F 877, F 949, F 1281, F 1282; CSA Standards A60.1, .2, .3 CSA B45.0, .1, .2, .3, .4, .5, .6, .7, B45 Series Supplement No. 1, B64.0, .1.1, .1.2, B64.2, 2.1, 2.2, B64.3, .3, .5, .6, .7, .8, .10, B 64, 67, 70, 79, B66, B125, B127.1, .2, B137.0, .1, .3, B137.4, .4.1, B137.6, .7, .8, .9, .10, .11, .16, B181.1, .2, .3, B182.1, .2, .4, .6, B196.3, B272, B281, Z240.3.1 and .3.2; NSF 42, 53, 60 and 61 |
| Factory constructed buildings and structures | CSA Standards A93, C260.2, C22.2 148, Z240-RV Series, -MH Series, Z241 Series, Z240 RV Series and Z240.6.2  |

December 29, 2009  
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| FIELDS OF TESTING   | ACCREDITED TEST METHODS  |
|---------------------|--|
| Electrical products | ANSI/ISA S82.01, ANSI/ISA-S12.3, Part I, C300, CAN/CSA B44, B44.1/ ASME-A17.5, B355, B613, C22.2 0.3, 0.4, 0.5, 0.8, C22.2 3, 4, C22.2 5.1, 5.2, C22.2 8, 9.0, 14, 18, C22.2 13, 15, 24, 27, 31, 41, C22.2 16, 17, 33, C22.2 19, C22.2 21, 26, 36, 40, 67, C22.2 23, C22.2 23.1, 25, 30, C22.2 29, C22.2 34, C22.2 35, 38, 39, 44, 48, 49, C22.2 42, 46, 66, C22.2 43, C22.2 45, 47, 60, 72, 73, 83, C22.2 51, 52, 56, 58, 62, C22.2 55, 57, 65, 80, 111, 115, C22.2 59.1, 59.2, 59.3, C22.2 68, 71.2, 74, 77, C22.2 75, 79, 82, 84, 106, 116, C22.2 76, 86, 92, 93, 94, 102, 103, C22.2 85, 88, 89, 91, 98, 99, 100, C22.2 104, 105, C22.2 107.1, 107.2, 108, 109, 112, C22.2 110, C22.2 140.2, 140.3, 153, C22.2 114, C22.2 117, 119, 120, 132, C22.2 123, 124, 127, 131, 134, 135, C22.2 113, 125, 128, 133, C22.2 126, 129, 130.1, 130.2, 137, C22.2 136, 188, C22.2 138, 145, 144, 152, 157, 174, C22.2 139, 156, C22.2 141, 142, 143, 159, 164, 165, C22.2 151, 155, 158, C22.2 166, 177, 187, 217, 218.1, C22.2 178, 179, 180, C22.2 182.1, 182.2, 182.3, 182.4, 189, C22.2 184, 190, C22.2 186.1, 186.2, 186.3, 199, 22.2 192, 193, 197, C22.2 195, 205, 207, 221, 231, 950, C22.2 198, 198.2, 198.3, 210.2, 204, C22.2 201, 203, 203.1, 213, 218.2, C22.2, 208, 211.0, 211.1, 211.2, 211.3, C22.2 209, C22.2 214, 222, 232, 233, 239, 248.1, C22.2 224, 226, 247, 243, C22.2 225, 236, 1010.1, C22.2 227.1, 227.2, 227.3, C22.2 248.4, 912, C68.3, C747, C802, CSA C191.0, C191.1, C309, C390, C654, C744, E79-0,-2, -5, -6, -7, -11, -15, -18, E491, |

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# SCOPE OF ACCREDITATION

CSA International TL-218

| FIELDS OF TESTING                  | ACCREDITED TEST METHODS  |
|------------------------------------|--|
| Electrical products <i>(cont.)</i> | E691, E730-1, E730-2-1, E730-2-2, -2-3, -2-4, -2-5, -2-6, -2-7, E730-2-8, -2-9, -2-10, -2, -11, -2-12, E742, E1241-1-1, Notice 516, FM 3600, 3610, 3611, 3810, 6310, 6320; NFPA Standards 79 and 496; UL Standards 1, 3, 4, 5A, 44, 62, 83, 133, 209, 224, 5, 6, 183, 187, 347, 22, 48, 50, 65, 67, 73, 130, 197, 69, 207, 416, 141 150 234, 291 325, 399, 430, 464, 94, 355, 174, 303, 310, 353, 351, 360, 444, 452, 543, 486A, B, C, D, 372, 559, 412, 429, 465, 467, 484, 458, 467, 497A, 595, 674, 698, 466, 496, 498, 499, 506, 507, 508, 519, 471, 474, 551, 561, 621, 497, 497B, 493, 510 651, 651A, 719, 514A,B,C, 676, 541, 544, 547, 563, 603, 705, 710, 751, 542, 756, 964, 1577, 1676, 574, 1453, 773, 773A, 781, 783, 817, 863, 870, 732, 921, 1020, 746A, B, C, 879, 1030, 746D, E, 814, 854, 923, 977, 984, 763, 778, 813, 869A, 883, 894, 924, 797, 823, 844, 845, 877,884, 886, 887, 983, 1059, 1088, 1207, 834, 857, 867, 869, 891, 917, 998, 1635, 873, 1261, 1995, 913, 916, 969, 1002, 1010, 1037, 935, 1004, 1005, 1012, 1017, 1029, 987, 1008, 1236 1449, 1459, 1025, 1042, 1081, 1096, 1240, 1556, 1054, 1063, 1072, 1424, 1426, 1323, 1441, 1069, 1076, 1203, 1244, 1286, 1278, 1238, 1262, 1283, 1310, 1419, 1450, 1241, 1567, 1363, 1433, 1573, 1604, 1610, 1638, 1559, 1561, 1563, 1564, 1570, 1571, 1562, 1624, 1773, 1815, 1569, 1581, 1651, 1660, 1681, 1682, 1572, 1574, 1585, 1594, 1647, 1778, 1659, 1673, 1776, 1993, 2021, 2044, 1686, 1690, 1963, 1994, 3111-1, 1795 1812 1950, 2601.1 and 3101-1 |

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|-------------------|--|
| Fuel products     | B240.4.2, CAN/CGA 2.5, 2.8, 2.9, 3.8, 3.9, CAN/CGA 3.11, 3.16, 2.17, CAN/CGA-8.1-M86, -9.2-M88, CAN/CSA P.3, CAN/ULC-S629, -S610, CAN1-1.1, -1.4, CAN1-1.6, CAN1-1.9, -1.11, -1.15, -2.23, CAN1-1.10, -1.12, -1.16, -2.1, CAN1-2.15, -2.16, -2.17, -2.19, -2.20, -2.21, CAN1-2.27, -2.28, -3.1, -3.12, -4.4, CAN1-6.2, -6.4, -6.6, -6.9, -6.14, CAN1-8.3, -12.4, CAN3/CSA B140.9.3, CAN4-S605-77, CGA 1.14, 1.3, 2.24, 2.25, 3.2, 3.3, CGA 3.4, 4.8, 4.9, 5.1, 5.2, 6.12, 6.15, 7.3, CGA P.2, CSA B140, .0.1, .2.1, 2.2, .2.3, .3, .7.2, CSA B140 .4, .7.1, .14, CSA B140.8, .9.1, .10, .11, .12, B366.1, CSA B255, 336.2, B346, B51, CSA C22.2 22, CSA Z240.4.2, Z240.5, FM 3615, 3620, IES LM-10, -41, -46, -57, -59, UL 21, 79, 87, 441, 647, 726, UL 125, 132, 144, 495, 567, 729, 730 UL 180, 307A, 331, 343, 391, 404, 732, UL 296 727, UL 731, 733, UL 737, 896, 1482, UL 1238, ULC-S628, ULC S620-M1980, S627-M1983, ANSI Z21.1, ANSI Z21.5.1 - CAN/CGA 7.1, ANSI Z21.5.2 - CGA 7.2, ANSI Z21.10.1- CAN/CSA 4.1, ANSI Z21.10.3 - CAN/CSA 4.3, ANSI Z21.11.1, .2, ANSI Z21.12, ANSI Z21.13, .19, .20, .23, .42, .57, ANSI Z21.15 - CAN/CGA9.1, ANSI Z21.17 - CAN/CSA2.7, ANSI Z21.18 - CAN/CGA6.3, ANSI Z21.21 - CAN/CGA 6.5, ANSI Z21.24 - CAN/CGA 6.10, ANSI Z21.35 - CAN/CGA 6.8, ANSI Z21.40.1 - CAN/CGA 2.92, ANSI Z21.40.2 - CAN/CGA 2.91, ANSI Z21.40.4 - CAN/CGA 2.94, ANSI Z21.41 - CAN/CGA 6.9, ANSI Z21.47 - CAN/CGA 2.3, ANSI Z21.50 - CAN/CSA2.22, ANSI Z21.54 - CAN/CSA 8.4, ANSI Z21.56 - CAN/CSA 4.7, |

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| FIELDS OF TESTING            | ACCREDITED TEST METHODS  |
|------------------------------|--|
| Fuel products <i>(cont.)</i> | ANSI Z21.58 AN/CSA 2.32, ANSI Z21.87 - CAN/CSA 4.6, ANSI Z21.88 - CAN/CSA 2.33, ANSI Z83.4 - CAN/CSA 3.7, ANSI Z83.6, ANSI Z83.7 - CAN/CSA 2.14, ANSI Z83.8 - CAN/CSA 2.6, ANSI Z83.11 - CAN/CSA 1.8, ANSI Z83.16, ANSI/AGA NGV1 - CGA NGV1, IAS 1-94, 1-97, 2-79, 2-86, 2-89, 2-94, IAS 3-90-92, IAS 4-88, IAS 4-96, 5-90, 5-94, 8-93, 8-96, 9-96, IAS 12-90, 13-90 |
| Consumer products testing    | 16 CFR 1303 Lead in Paint/Surface Coatings in Toys and Children's Products<br>AOAC 974.02  |

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