

International Accreditation Service, Inc.

CERTIFICATE OF ACCREDITATION

This is to signify that

CSA INTERNATIONAL

178 REXDALE BOULEVARD
TORONTO, ONTARIO M9W 1R3
CANADA

Testing Laboratory TL-218

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 November 2, 2007, for the test methods listed in the approved scope of accreditation.

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



Patrick V. McCullen
Vice President



C. P. Ramani, P.E.
President

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SCOPE OF ACCREDITATION

Testing Laboratory TL-218

CSA International
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3 Canada

Daniel Barbini
Manager of Accreditation
(416) 747-2515

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, ASSE 1014, 1015, 1016, 1018, 1019, 1020, ASSE 1024, 1025, 1029, 1035, 1037, ASSE 1052, 1056, ASTM D2239, D2241, D2466, D2564, ASTM D2661, D2665, D2683, D2737, ASTM D2235, D2846, D3034 D3035, ASTM D3138 D3261, D3309, ASTM F493, F789, F845, F876, ASTM F877, F949, F1281, F1282, CSA A60.1, .2, .3 CSA B45.0, .1, .2, .3, .4, .5, .6, .7, CSA B45 Series Supplement No. 1, CSA B64.0, .1.1, .1.2, CSA B64.2, 2.1, 2.2, CSA B64.3, .3, .5, .6, .7, .8, .10, CSA B 64, 67, 70, 79, CSA B66, CSA B125, B127.1, .2, B137.0, .1, .3, CSA B137.4, .4.1, CSA B137.6, .7, .8, .9, .10, .11, .16, CSA B181.1, .2, .3, B182.1, .2, .4, .6, CSA B196.3, B272, B281, CSA Z240.3.1, .3.2; NSF 42, 53, 60 and 61
Factory Constructed Buildings and Structures	CSA A93, C260.2, CSA C22.2 148, CSA Z240-RV Series, -MH Series, CSA Z241 Series, Z240 RV Series, CSA Z240.6.2

November 2, 2007
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Electrical Products	ANSI/ISA S82.01, ANSI/ISA-S12.3, Part I, C300, CAN/CSA B44, CAN/CSA B44.1/ ASME-A17.5, CAN/CSA B355, B613, CSA C22.2 0.3, 0.4, 0.5, 0.8 CSA C22.2 3, 4, CSA C22.2 5.1, 5.2, CSA C22.2 8, 9.0, 14, 18, CSA C22.2 13, 15, 24, 27, 31, 41, CSA C22.2 16, 17, 33, CSA C22.2 19, CSA C22.2 21, 26, 36, 40, 67, CSA C22.2 23, CSA C22.2 23.1, 25, 30, CSA C22.2 29, CSA C22.2 34, CSA C22.2 35, 38, 39, 44, 48, 49, CSA C22.2 42, 46, 66, CSA C22.2 43, CSA C22.2 45, 47, 60, 72, 73, 83, CSA C22.2 51, 52, 56, 58, 62, CSA C22.2 55, 57, 65, 80, 111, 115, CSA C22.2 59.1, 59.2, 59.3, CSA C22.2 68, 71.2, 74, 77, CSA C22.2 75, 79, 82, 84, 106, 116, CSA C22.2 76, 86, 92, 93, 94, 102, 103, CSA C22.2 85, 88, 89, 91, 98, 99, 100, CSA C22.2 104, 105, CSA C22.2 107.1, 107.2, 108, 109, 112, CSA C22.2 110, CSA C22.2 140.2, 140.3, 153, C22.2 114, CSA C22.2 117, 119, 120, 132, CSA C22.2 123, 124, 127, 131, 134, 135, CSA C22.2 113, 125, 128, 133, CSA C22.2 126, 129, 130.1, 130.2, 137, CSA C22.2 136, 188, CSA C22.2 138, 145, 144, 152, 157, 174, CSA C22.2 139, 156, CSA C22.2 141, 142, 143, 159, 164, 165, CSA C22.2 151, 155, 158, CSA C22.2 166, 177, 187, 217, 218.1, CSA C22.2 178, 179, 180, CSA C22.2 182.1, 182.2, 182.3, 182.4, 189, CSA C22.2 184, 190, CSA C22.2 186.1, 186.2, 186.3, 199, CSA C22.2 192, 193, 197, CSA C22.2 195, 205, 207, 221, 231, 950, CSA C22.2 198, 198.2, 198.3, 210.2, 204, CSA C22.2 201, 203, 203.1, 213, 218.2, CSA C22.2, 208, 211.0, 211.1, 211.2, 211.3, CSA C22.2 209, CSA C22.2 214, 222, 232, 233, 239, 248.1, CSA C22.2 224, 226, 247, 243, CSA C22.2 225, 236, 1010.1, CSA C22.2 227.1, 227.2, 227.3, CSA C22.2 248.4, 912, CSA C68.3, C747, C802, CSA C191.0, CSA C191.1, C309, C390, C654, C744,

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Testing Laboratory TL-218

FIELDS OF TESTING	ACCREDITED TEST METHODS
Electrical Products (continued)	CSA E79-0,-2, -5, -6, -7, -11, -15, -18, CSA E491, E691, CSA E730-1, E730-2-1, CSA E730-2-2, -2-3, -2-4, -2-5, -2-6, -2-7, CSA E730-2-8, -2-9, -2-10, -2, -11, -2-12, CSA E742, CSA E1241-1-1, CSA Notice 516, FM 3600, 3610, 3611, 3810, 6310, 6320, NFPA 79, NFPA 496, UL 1, 3, 4, 5A, 44, 62, 83, 133, 209, 224, UL 5, 6, 183, 187, 347, UL 22, 48, 50, 65, 67, 73, 130, 197, UL 69, 207, 416, UL 141 150 234, 291 325, 399, 430, 464, UL 94 355, UL 174, UL 303, 310, 353, UL 351, UL 360, 444, 452, 543, 486A, B, C, D, UL 372, 559, UL 412, 429, 465, 467, 484, UL 458, 467, 497A, 595, 674, 698, UL 466, 496, 498, 499, 506, 507, 508, 519, UL 471, 474, 551, 561, 621, UL 497, 497B, 493, 510 651, 651A, 719, UL 514A,B,C, 676, UL 541, 544, 547, 563, 603, 705, 710, 751, UL 542, 756, 964, 1577, 1676, UL 574, 1453, UL, 773, 773A, 781, 783, 817, 863, 870, UL 732, 921, 1020, UL 746A, B, C, 879, 1030, UL 746D,E, 814, 854, 923, 977, 984, UL 763, 778, 813, 869A, 883, 894, 924, UL 797, 823, 844, 845, 877,884, 886, 887, UL 983, 1059, 1088, 1207, UL 834, UL 857, 867, 869, 891, 917, 998, UL 1635, UL 873, 1261, 1995, UL 913, 916, 969, 1002, 1010, 1037, UL 935, 1004, 1005, 1012, 1017, 1029, UL 987 1008, 1236 1449, 1459, UL 1025, 1042, 1081, 1096, 1240, 1556, UL 1054, UL 1063, 1072, 1424, 1426, 1323, 1441, UL 1069, 1076, 1203, 1244, 1286, 1278, UL 1238, 1262, 1283, 1310, 1419, 1450, UL 1241 1567, UL 1363, 1433, 1573, 1604, 1610, 1638, UL 1559, 1561, 1563, 1564, 1570, 1571, UL 1562, 1624, 1773, 1815, UL 1569, 1581, 1651, 1660, 1681, 1682, UL 1572, 1574, 1585, 1594, 1647, 1778, UL 1659, 1673, 1776, 1993, 2021, 2044, UL 1686, 1690, 1963, 1994, 3111-1, UL 1795 1812 1950, UL 2601.1, 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, ANSI Z21.58 - CAN/CGA1.6, ANSI Z21.60 - CAN/CGA2.26, ANSI Z21.71, ANSI Z21.66 - CAN1-6.14, ANSI Z21.77 - CAN/CGA6.23, ANSI Z21.78 - CAN/CGA6.20, ANSI Z21.86 - CAN/CSA 2.32, ANSI Z21.87 - CAN/CSA 4.6, ANSI Z21.88 - CAN/CSA 2.33,

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Fuel products (continued)	ANSI Z83.4 - CAN/CSA 3.7, ANSI Z83.6, ANSI Z83.7 - CAN/CGA2.14, ANSI Z83.8 - CAN/CGA 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

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