

International Accreditation Service

# CERTIFICATE OF ACCREDITATION

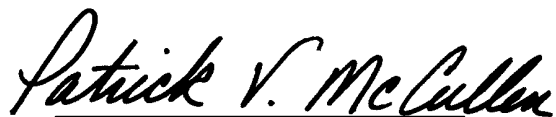
*This is to signify that*

## UNDERWRITERS LABORATORIES INC.

333 PFINGSTEN ROAD  
NORTHBROOK, ILLINOIS 60062-2096

Testing Laboratory TL-157  
(Revised April 24, 2009)

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 January 14, 2009, for the test methods listed in the approved scope of accreditation.



Patrick V. McCullen  
Vice President



C. P. Ramani, P.E.  
President

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

Print Date: 05/14/2009

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This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation, revocation, or expiration of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 699-0541.

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## SCOPE OF ACCREDITATION

Underwriters Laboratories, Inc. TL-157  
(Revised April 24, 2009)

Underwriters Laboratories, Inc.  
333 Pfingsten Road  
Northbrook, IL 60062

Rick A. Titus  
Associate Manager  
(847) 272-8800

FIELDS OF TESTING	ACCREDITED TEST METHODS
Factory-built chimneys and fireplace products	UL Standards 103, 127, 737, 907 and 959
Fire testing	UBC Standards 4-1, 7-1, 7-2, 7-3, 7-4, 7-5, 8-1, 8-2, 15-2, 26-2, 26-4, 26-6 and 26-7; ASTM Standards ASTM C 518, D 635, D 1929, E 84, E 108, E 119, E 814, E 2074 and E 2010; UL Standards 9, 10B, 72, 155, 263, 723, 790, 910, 1479, 1581, 1666, 1685, 1715 and 2079; BS Standard 476, Parts 20-24; BS/EN Standard 1363-1, Part 1; BS Standard 10294-1; CAN Standards S 104 and S 106; CSA Standards 22.2 No. 0.3; ISO Standards 834, 3008, 3009, 6944 and 10294; IEEE Standards 383 and 1202; IEC Standard 60332-1; ICEA Standard T-29-520; JIS Standard 3521; NFPA Standards 252, 257 and 262

January 14, 2009  
Commencement Date

  
C. P. Ramani, P.E.  
President

Print Date: 05/14/2009

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Sprinkler systems testing	UL Standards 193, 199, 260, 1626 and 1767; BSEN 12259-1, BSEN 12259-2 and BSEN 12259-3; California 12-7A-4
Gas appliances and fixtures	ANSI Standards Z21.1, Z21.1a, Z21.5.1, Z21.5.2, Z21.5.2a, Z21.5.2b, Z21.8, Z21.9, Z21.9a, Z21.9b, Z21.10.1 Z21.10.3, Z21.49a, Z21.50, Z21.50a, Z21.56, Z21.56a, Z21.60, Z21.60a, Z21.60b, Z21.61, Z21.64, Z21.64a, Z21.64b, Z21.66, Z21.66a, Z21.66b, Z21.67, Z21.67a, Z21.67b, Z21.68, Z21.68a, Z21.68b, Z21.71, Z83.3, Z83.3a, Z83.3b, Z83.6, Z83.6a, Z83.6b, Z83.7, Z83.7a, Z83.7b, Z83.8, Z83.8a, Z83.9, Z83.9a, Z83.10, Z83.11, Z83.12, Z83.13, Z83.13a, Z83.14, Z83.15 and Z83.15a; ANSI/UL Standards 144, 441, 525 and 641; and UL Standards 21 and 252
Metal products	ASTM Standards A 53, A 525 and A 681; UMC Standards 2-2 and 6-1
Oil-burning appliances and related products	UL Standards 17, 343, 352, 353 and 896; and ANSI/UL Standards 6, 726, 727, 729, 730 and 731

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Physical testing	UBC Standards 7-6, 7-8, 10-4, 23-5 and 26-1; 1997 UMC Standards 6-3 and 11-1; ASTM Standards D 312, D 450, D 2898 and D 3201; Test methods referenced in Section 3 of ICC-ES Acceptance Criteria AC 38 and Sections 3 through 5 of ICC-ES Acceptance Criteria AC174; Test methods referenced in ICC-ES Acceptance Criteria AC38 (Section 3.2 only) and ICC-ES Acceptance Criteria AC174 (Section 3.10 only)
Roof-covering systems	UL Standards 55a, 580, 1256 and 1897; ASTM Standards C 1371, C 1549, D 226, D 228, D 882, D 3161, D 3462 and D 4869; CCMC Standard 07102
Plastic pipe and pipe fittings	ANSI/NSF Standard 14
Thermal insulation	ASTM Standard C 303, C 578 (limited to ASTM Standards C 165, C 203, C 272, C 518, D 2126, D 2863 and E 96) and C 739

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FIELDS OF TESTING	ACCREDITED TEST METHODS
Miscellaneous products and systems	ASTM E 96 and E 136; UL Standards 33, 51, 125, 132, 157, 180, 181, 207, 303, 378, 391, 404, 412, 429, 465, 471, 536, 555, 555c, 555s, 559, 565, 710, 791, 793, 795, 834, 840, 842, 883, 900, 921, 984, 1046, 1096, 1206, 1240, 1332, 1482, 1556, 1727 and 60335-2-34; ANSI Standards Z124.1 and Z124.2; AMCA Standard 500-89; ASME Standards A112.18.1 and A112.19.8; ANSI/ASSE Standards 1012, 1013, 1014, 1015 and 1024; AWWA Standards C 110, C 151, C 510 and C 511; NSF Standard 61; and IBR Standard 1966; NFPA Standards 259 and 1936; Test methods referenced in Section 4 of ICC-ES Acceptance Criteria AC167 (Except 4.2, 4.3) and AC311
Wood	ASTM Standard D 3345
Battery testing	IEEE 1725, UL 2054, UL 1642, CTIA Certification Requirements for Battery System Compliance to IEEE 1725

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