

International Accreditation Service, Inc.

CERTIFICATE OF ACCREDITATION

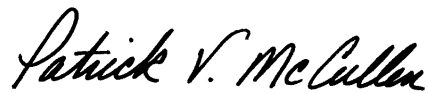
This is to signify that

SOUTHWEST RESEARCH INSTITUTE FIRE TECHNOLOGY DEPARTMENT

6220 CULEBRA ROAD, BUILDING 143
SAN ANTONIO, TEXAS 78238

Testing Laboratory TL-214

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 March 10, 2008, 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)

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 for current accreditation information, or contact IAS directly at (562) 699-0541. Print Date: 06/13/2008

International Accreditation Service, Inc.

SCOPE OF ACCREDITATION

Southwest Research Institute, Fire Technology Department TL-214

Southwest Research Institute
6220 Culebra Road, Building 143
San Antonio, Texas 78238

Marc L. Janssens, Ph.D.
Director
210-522-6655

FIELDS OF TESTING	ACCREDITED TEST METHODS
Fire testing of building assemblies	ASTM Standards E 119, E 1529, E 2226; ISO 834 Part 1 and Parts 4-9; NFPA Standards 251, 268, 285 and 415; UBC Standards 7-1 and 26-9; UL Standards 263, 555, 555C, 1040 and 1709; MIL-PRF-32161; British Standard BS 476, Parts 20-24; IMO Resolutions A.753(18) and A.754(18), IMO FTP Code Annex 1 Part 3
Fire testing of doors	ASTM Standard E 2074; NFPA Standard 252; UBC Standard 7-2; UL Standards 10B and 10C
Fire testing of windows	ASTM Standard E 2010; NFPA Standard 257; UBC Standard 7-4; UL Standard 9
Fire testing of floor and roof coverings	ASTM Standards D 2859, E 108, E 648 and E 970; CAN/ULC-S102.2; EN ISO 9239, Part 1; DOC FF-1-70; NFPA Standards 253 and 256; UBC Standard 15-2, UL Standard 790
Testing of fire stops	ASTM Standards E 814 and E 1725; UBC Standard 7-5; UL Standard 1479

March 10, 2008
Commencement Date


C. P. Ramani, P.E.
President

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FIELDS OF TESTING	ACCREDITED TEST METHODS
Fire testing of furniture and mattresses	ASTM Standards E 1474, E 1537, E 1590 and E 1822; UL Standard 214; CAL TB 106, 116, 117, 121, 129, 133, 603 and 604; IMO FTP Code Annex 1, Parts 8 and 9; 16 CFR Parts 1633 and 1634
Smoke & toxicity	ABD 0031, BSS 7238, BSS 7239, EPA TO-15, NES 711, NES 713 Issue 3, University of Pittsburg Test Protocol
Fire suppression	FM 2000 (Sections 4.7, 4.36 to 4.40 and 4.42), FM 2008 (Sections 4.8, 4.9 and 4.33 to 4.37), FM 4995 (Appendix A), FM 4996 (Appendix C), IMO MSC Circ. 848, IMO MSC Circular 913, MIL-F-24385F; NFPA 10 (Annex G), NFPA 11 (Annex D, G, and H), NFPA 18 (Sections 5.3.4 and 5.3.5), UL 162 (Sections 8 to 14), UL 199 (Sections 30, 31.2 and 57 to 62), UL 711 and UL 2335
Fire testing of interior finish	ASTM Standards E 84, E 1740 and E 2257; NFPA Standards 255, 265 and 286; UBC Standards 8-1, 8-2, 26-3 and 26-8; UL Standards 723, 1715, 1887 and 1975; IMO FTP Code Annex 1, Parts 2, 5 and 6; ISO 9705; EN 13823
Fire testing of aircraft compartment interiors	AITM 2.0007 A; FAR 23.853; FAR 25.853; IATM 3.0005

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FIELDS OF TESTING	ACCREDITED TEST METHODS
Flammability	ASTM Standards C 1166, D 568 and D 635; UBC Standard 26-7; UL Standard 94; NFPA 701
Small scale fire tests	ASTM Standards D 1929, D 2863, D 3675, D 3801, D 5865, E 136, E 162, E 662, E 800, E 1317, E 1321 and E 1354; ISO 871, 5659 Part 2, and 5660 Parts 1 and 2; NFPA Standards 258, 259 and 271; UBC Standards 26-1, 26-6, 26-7 and 31-1; IMO FTP Code Annex 1, Parts 1 and 7; EN ISO 1182, 1716 and 11925 Part 2; and SMP-800-C
Physical	ASTM Standards D 2247, D 2898, E 72, E 330, E 331 and G 153; UBC Standard 7-6; UL Standard 2085
Thermal transmission	UBC Standard 26-2
Plastic automobile fuel tanks	ECE R 34.01

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