

International Accreditation Service

CERTIFICATE OF ACCREDITATION

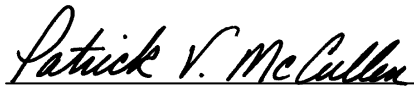
This is to signify that

EXOVA CANADA INC MISSISSAUGA LABORATORY

2395 SPEAKMAN DRIVE
MISSISSAUGA, ONTARIO L5K1B3
CANADA

Testing Laboratory TL-407
(Revised May 24, 2010)

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 January 4, 2010, for the test methods listed in the approved scope of accreditation.



Patrick V. McCullen
Vice President



ACCREDITED

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



C. P. Ramani, P.E.
President

Print Date: 06/29/2010

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation 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.

Page 1 of 9

IAS is a subsidiary of the
International Code Council®



International Accreditation Service

SCOPE OF ACCREDITATION

Exova Canada, Inc. Mississauga Laboratory TL-407

(Revised May 24, 2010)

Exova Canada Inc Mississauga Laboratory
2395 Speakman Drive
Mississauga, Ontario L5K1B3
Canada

Lisa Kane
Quality Manager
(905) 822-4111

FIELDS OF TESTING	ACCREDITED TEST METHODS
Physical testing	<p>Construction materials ASTM Standards D 1623, D 1761, D 2126, D 2842, D 4216, D 4226 (except ASTM Standards D 178 and D 374), D 6109 (except ASTM Standard D 5947), E 72 (only Section 11), E 73, E 196, E 455, E 529, E 564, E 894 (except for ASTM Standard E 488), E 935, E 985, E 2322, F 970 (except ASTM Standards F 1914 and F 387); CAN/CSA-S269.2, CSA S136, CSSBI S2, CSSBI S5, Test methods referenced in Section 3.0 of ICC-ES Acceptance Criteria AC323</p> <p>Concrete ASTM Standards C 67, C 297/C 297M (except ASTM Standards D 3039/D 3039M, C 792, D 2734, D 3171, D 5229/D 5229M and E 4)</p> <p>Floor coverings ASTM Standards C 1353 (except ASTM Standards C 97, C 127 and C 501), D 1056 (except ASTM Standards D 471 and D 575), F 137, F 386, F 1066 (except ASTM Standards F 925, F 1265, F 1304, F 1514, F 1914, F 2055, F 2199 and ANSI/ASQC Z1.4), F 1303, F 1344 (except ASTM Standards D 2240, D 3389, F 373, F 410, F 511, F 925,</p>

January 4, 2010
Commencement Date



C. P. Ramani
C. P. Ramani, P.E.
President



Print Date: 06/29/2010
This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation 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.

Page 2 of 9
IAS is a subsidiary of the
International Code Council®

International Accreditation Service

SCOPE OF ACCREDITATION

Exova Canada, Inc. Mississauga Laboratory TL-407

(Revised May 24, 2010)

FIELDS OF TESTING	ACCREDITED TEST METHODS
Physical testing (continued)	<p>Floor coverings F 1484, F 1514, F 2055, F 2199 and ANSI/ASQC Z1.4), F 1700 (except ASTM Standards F 373, F 925, F 1514, F 1515, F 1914, F 2055, F 2199 and ANSI/ASQC Z1.4), F 1913 (except ASTM Standards F 410, F 925, F 1514, F 1515, F 1914 and ANSI/ASQC Z1.4), Fed. Spec. L-F-001641</p> <p>Thermal insulation ASTM Standards C 165 (except for ASTM Standards E 4, E 177 and E 240), C 167, C 203, C 302, C 303, C 335 (except ASTM Standards C 177, ISO 8497 and C 250), C 356 (except ASTM Standard C 210), C 421, C 446, C 447 (except ASTM Standards C 177 and C 1621), C 550 and E 2098; Test methods referenced in Section 3.0 of ICC-ES Acceptance Criteria AC377</p> <p>Miscellaneous construction materials ASTM Standards C 272 (except ASTM Standard C 271), C 367, C 1201, D 1037 (except ASTM Standards C 273, D 143, D 905, D 2395, D 3043, D 3501 and E 4), E 661, E 1592, E 1677, E 2178 and E 2357; AAMA Standard 503 Metal Curtain Wall Section 1 the following tests only; Wind loads, Dead loads, Uniform structural loads, Air leakage, Water penetration, Water spray test without air pressure difference, AAMA Standard 508 (except AAMA Standard 501.1); APA S-2; CAN/CGSB-41.24; Test methods referenced in Sections 3.0 and 4.0 of ICC-ES Acceptance Criteria AC39 and AC174</p> <p>Plaster ASTM Standards C 473 (except ASTM Standards D 3285 and E 4), C 1396/C 1396M (except ASTM Standard E 119) and C 79/C 79M; CAN/CSA-A82.20.2-M</p>

January 4, 2010
 Commencement Date



C. P. Ramani
 C. P. Ramani, P.E.
 President



Print Date: 06/29/2010
 This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation 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.

Page 3 of 9
 IAS is a subsidiary of the International Code Council®.

International Accreditation Service

SCOPE OF ACCREDITATION

Exova Canada, Inc. Mississauga Laboratory TL-407

(Revised May 24, 2010)

FIELDS OF TESTING	ACCREDITED TEST METHODS
Physical testing (continued)	<p>Insulating and Safety glass ASTM Standards C 1036, E 2188 and E 2649 ; ANSI Z97-1 ; CAN/CGSB 12.1-M, 12.2-M, 12.3-M, 12.8-M, 12.11-M, 12.13-M, 12.20-M; CPSC16/CFR1201</p> <p>Plastics ASTM D 1621, D 1622, D 3045 and D 4495</p>
Environmental	ANSI/AMCA-210 and ANSI/ASHRAE 51, ASTM D 2247 (except ASTM Standards D 2616, D 1654, D 3363, D 610 and D 714)
Fenestration	ASTM Standards C 1401 (except ASTM Standards C 1087, C 1135, C 1248, C 1253, C 1265, C 1294, C 510, C 719, C 794, C 880, C 99, D 2203, E 1105, E 1886, E 783, AAMA 501.1 and AAMA 501.2) and E 987; AAMA 508 (except AAMA 501.1); NFRC 100 and NFRC 101 (except ASTM Standards C 177, C 1114, C 1371, E 903, E 1225, E 1530, E 1933 and E 1952); CSA P.10, CAN/ULC S741
Deck board composite materials	ASTM Standards D 6662 (except ASTM Standards D 6112, D 6341 and E 108), ASTM D 7031 (except ASTM Standards C 1308, D 1413, D 143, D 2017, D 2047, D 2394, D 2395, D 2481, D 3345, D 4060, D 4442, D 4761, D 5379, D 5764, E 108, F 1679, AWPA Standards E1 and E7), D 7032 (except ASTM Standards D 1413, D 198, D 2017, D 2047, D 2394, D 3345, D 4761, D 5764, E 108, F 1679, AWPA Standards E1 and E10), E 2353 (except ASTM Standard E 2025) and E 2358 (except ASTM Standard E 2025) and CSSBI 12M

January 4, 2010
 Commencement Date



C. P. Ramani
 C. P. Ramani, P.E.
 President



Print Date: 06/29/2010
 This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation 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.

Page 4 of 9
 IAS is a subsidiary of the
 International Code Council®

International Accreditation Service

SCOPE OF ACCREDITATION

Exova Canada, Inc. Mississauga Laboratory TL-407

(Revised May 24, 2010)

FIELDS OF TESTING	ACCREDITED TEST METHODS
Construction materials	CAN/CSA S16.1 and CSA A370
Fire and flammability	ASTM Standards D 1929, E 84 (except ASTM Standards D 4442, D 4444, E 160, E 286, E 69) and E 136; ISO 871
Thermal insulation	<p>ASTM Standards C 209 (except ASTM Standards C 177 and C 1114), C 534/C 534M (except ASTM Standards C 177, C 692, C 871, and C 1114), C 547 (except ASTM Standard C 177, UL 723, NFPA 255), C 578, C 591 (except ASTM Standards C 177, C 871, C 1114 and D 2856), C 1289 and C 1303, Test methods referenced in Section 3.0 of ICC-ES Acceptance Criteria AC02, AC12 Sections 3.0 and 4.0, AC263 Section 3.0</p> <p>Loose fill insulation ASTM Standards C 520, C 533 (except ASTM Standards C 177, C 1114 and C 1616), CAN/ULC-S706 (except CAN/ULC S773)</p> <p>Mineral fiber ASTM Standards C 553 (except ASTM Standards C 177 and C 1114), C 612 (except ASTM Standard C 177), C 653 (except ASTM Standards C 177 and C 1114), C 665 (except ASTM Standard C 177), C 687 (except ASTM Standards C 177 and C 1114), C 726 (except ASTM Standard C 177), C 764, C 1104/C 1104M and CAN/ULC S702 (except ASTM Standard C 177 and CAN/ULC S129), Test methods referenced in ICC-ES Acceptance Criteria AC187 Sections 3.0 and 4.0</p>

January 4, 2010
 Commencement Date



C. P. Ramani
 C. P. Ramani, P.E.
 President



Print Date: 06/29/2010
 This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation 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.

Page 5 of 9
 IAS is a subsidiary of the International Code Council®

International Accreditation Service

SCOPE OF ACCREDITATION

Exova Canada, Inc. Mississauga Laboratory TL-407

(Revised May 24, 2010)

FIELDS OF TESTING	ACCREDITED TEST METHODS
Thermal insulation (continued)	<p>Organic cellular CAN/ULC S701 (except ASTM Standard C 177)</p> <p>Thermal insulating materials ASTM Standards C 610 (except ASTM Standard C 177), C 656 (except ASTM Standard C 177), C 991 (except ASTM Standards C 177 and C 1258), C 1029 (except ASTM Standards C 177, C 236 and D 2856), C 1382 (except ASTM Standard C 1135), C 1511, C 1559, CAN/ULC S 705.2, S 710.1, S 710.2, S 711.1 (except ASTM Standards C 177 and E 514) and CAN/ULC S 711.2</p> <p>Thermal properties ASTM Standards C 411, C 518 (except ASTM Standards C 177, C 236, C 976 and C 1114, ISO 8301), C 1101/C 1101M, C 1199 (except ASTM Standards C 177, C 1114, C 236, C 976 and E 783, BS874 Part 3, Sections 3.1 and 3.2, ISO 8990, and ISO 12567), C 1363 (except ASTM Standards C 177, C 1114, C 236 and C 976, ISO 12567, ISO 8990), E 2568 (except ASTM Standards E 2486, E 119, E 2134, E 2485 and NFPA 285); CAN/ULC S 703 (except ASTM C 177, and CAN/ULC S 130), S 704 (except ASTM Standards C 177, C 1114 and D 3985), S 705.1 (except ASTM C 177 and D 2856), S 770, S 774 (except ASTM Standard E 741); MIL-I-2781F; NFRC 102, 200, 201, 300, 500 and 500UG; AAMA 1503; ANSI/ASHRAE Standard 55</p>

January 4, 2010
Commencement Date



C. P. Ramani
C. P. Ramani, P.E.
President



Print Date: 06/29/2010
This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation 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.

Page 6 of 9
IAS is a subsidiary of the
International Code Council®
INTERNATIONAL
CODE COUNCIL

International Accreditation Service

SCOPE OF ACCREDITATION

Exova Canada, Inc. Mississauga Laboratory TL-407

(Revised May 24, 2010)

FIELDS OF TESTING	ACCREDITED TEST METHODS
Roof covering and Water proof membrane	ASTM Standards C 836 (except ASTM Standards C 794, C 1250 and C 1522), C 1304, C 1305, C 1335, D 1970, D 4073, D 4434/D 4434M (except ASTM Standards D 2136, D 5602 and D 5635), D 4541, D 5147 (except ASTM Standards D 95, D 146, D 4977, and D 5636), and E 96/E 96M; CAN/CGSB 51.33-M (except ASTM Standard D 1709 and ISO 1923), CAN/CGSB 51.34-M (except ASTM Standard D 1709, Section 5.7 and ISO 1923), CAN/CGSB 37.54-M (except ASTM Standards G 53, D 1790 and D 2136), CAN/CGSB 37.58-M, CAN/CGSB 51.32 (except ASTM Standard D 828), CSGB 37-GP-52M (except ASTM Standard D 3041), 37-GP-54M (withdrawn), 37-GP-56M (except Sections 7.2.6 and 7.2.10); Test methods referenced in Section 4.0 of ICC-ES Acceptance Criteria AC07, AC38 Section 4.0, AC48 Section 4.0, AC71 Section 3.0, AC213 Section 4.0, AC310 Section 4.0, AC342 Section 3.0
Windows and doors	CGSB 82-GP-3M, 82-GP-4M, AAMA/WDMA/CSA 101/I.S.2/A440; ASTM Standards E 283 (except ASTM Standard E 783), E 330 (except ASTM Standard E 998), E 331, E 547 (except ASTM Standard E 631), E 997, E 1233 (except ASTM Standards E 998 and E 1986) and E 1424 (except ASTM Standard E 783), E 1017, E 2570 (except ASTM Standards E 2134, E 2485 and AATCC 127), F 588 (except glazing impact), F 842 (except glazing impact), F 1233 (except ASTM Standards E 998 and E 1886); CAN/CGSB-12.5-M, 82.1-M, 82.5-M, 82.6-M,

January 4, 2010
Commencement Date



C. P. Ramani
C. P. Ramani, P.E.
President



Print Date: 06/29/2010
This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation 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.

Page 7 of 9
IAS is a subsidiary of the
International Code Council®

International Accreditation Service

SCOPE OF ACCREDITATION

Exova Canada, Inc. Mississauga Laboratory TL-407

(Revised May 24, 2010)

FIELDS OF TESTING	ACCREDITED TEST METHODS
Windows and doors(continued)	CAN/CSA-A440.2 (except Section 5.2), JIS A 4706 (Wind Pressure Resistance -in accordance with JIS A 1515: Air Tightness -in accordance with JIS A 1516: Water Tightness - in accordance with JIS A 1517, JIS K 6785 and NAFS-1; NFRC 400; Test methods referenced in Section 4.0 of ICC-ES Acceptance Criteria AC168
Electrical and Electronic products	<p>Photovoltaic devices CAN/CSA-C61215:01, CEI/IEC 60904-1, 60904-3, 60904-5, 60904-7, 60904-9, 61215, 61646, IEC 60891, IEC 61721, IEC 61730-2 (except Sections 10.5, 10.8 and 11.11), UL 1703 (except Sections 31, 37, 38 and 39), ULC-ORD-C1703-01 (except Sections 5.14 and 5.21); Test methods referenced in Sections 3.0 and 4.0 of ICC-ES Acceptance Criteria AC365; ISO 9806-1 and 9806-2, SRCC Standard 100</p> <p>Appliances ASHRAE Standards 72 and 117, ASTM Standards A 90/A 90M, CAN/CSA C191, C742, C827, CAN/ULC-S110 (except Sections 4.6.3.2 and 4.6.3.3), CSA C439M.</p> <p>Environmental ASTM Standards E 546 (except ASTM Standard E 77), E 576 (except for ASTM Standard E 77), E 773, E 774 (except ASTM Standard E 1887), E 2189 and E 2190 (except ASTM Standard C 1265); CGSB 1-GP-71, Method 122.1 and 122.13.</p>

January 4, 2010
 Commencement Date



C. P. Ramani
 C. P. Ramani, P.E.
 President



Print Date: 06/29/2010
 This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation 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.

Page 8 of 9
 IAS is a subsidiary of the International Code Council®

International Accreditation Service

SCOPE OF ACCREDITATION

Exova Canada, Inc. Mississauga Laboratory TL-407

(Revised May 24, 2010)

FIELDS OF TESTING	ACCREDITED TEST METHODS
Electrical and Electronic products (continued)	Solar and Weathering ASTM Standards D 518, D 1149 (except Sections 7 to 14), D 1171 (except ASTM Standard D 4575), D 1499 (except ISO 4892-4), D 2565 (except ASTM Standards D 1293 and ISO 4892-2), D 4459, D 4587, D 4798 (except ASTM Standards D 1670 and D 36), E 408 (Method A), G 152 (except ISO 4892-4), G 153 (except ISO 4892-4), G 154 (except ISO 4892-4), G 155 (except ISO 4892-2, SAE J2412, SAE J2527, ISO 105 B04, ISO 105 B05, ISO 105 B06, ISO 1134), ISO 9806-1, ISO 9806-2, ISO 9806-3, NISSAN NES M0135, SAE J1885 (cancelled Jan 2008, Superseded by J2412), SAE J1960, J2412, J2527, SRCC 100, SRCC TM-1, Toyota TSH1585G, JIS D0205 Solar ASHRAE 93, CAN/CSA F378, CAN/CSA F379.1 and F379.2, MIL STD 810E (Method 505.3) and 810F (Method 505.4)

January 4, 2010
Commencement Date



C. P. Ramani
C. P. Ramani, P.E.
President



Print Date: 06/29/2010
This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation 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.

Page 9 of 9
IAS is a subsidiary of the
International Code Council®