

Miami-Dade County, Florida

Building Code Compliance Office

Suite 1603

140 West Flagler Street

Miami, Florida 33130-1563

(305) 375-2901

Fax (305) 375-2908

Laboratory Certificate



This certifies that Intertek Testing Services, N.A. Inc. located at 6225 Kenway Drive , Mississauga, Ontario Canada, L5T 2L3 is an approved Testing Laboratory in accordance with Miami-Dade County Building Code Compliance and Protocol TAS301-94, and is Certified to perform the following tests:

- | | |
|----------------------|--|
| AAMA 103 (Section 5) | ASTM E987 |
| AAMA 920 | ASTM E2068 |
| AAMA 925 | ASTM F588 |
| AAMA 1304 | ASTM F842 |
| ASTM E283 | TAS 201 |
| ASTM E330 | TAS 202 |
| ASTM 331 | TAS 203 |
| ASTM E547 | International Accreditation Service (IAS) TL-212 |
| | Standard Council of Canada Certificate No. 36 |

Results of the above mentioned test shall be properly submitted to the Miami-Dade County Building Code Compliance Office per TAS301-94, along with all other documentation required for the approval of products. Approved engineer(s) for this laboratory:

Frederick Curkeet, P.E.

This Certification and Registration Approved: July 15, 2009

This Certification and Registration Expires : July 15, 2014

Certification No. : 09-0325.05

Handwritten signature of Jaime D. Gascon in black ink.

Jaime D. Gascon, P.E.

Chief

Product Control Division

Handwritten signature of Americo Segura in black ink.

Americo Segura

BCC-Quality Assurance Supervisor

Product Control Division

The Miami-Dade County Building Code Compliance Office reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol TAS301-94.



Standards Council of Canada
Conseil canadien des normes

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 Ottawa, ON (Canada)
 K1P 6N7

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SCOPE OF ACCREDITATION

Intertek Testing Services NA Ltd.
ITS TORONTO LABORATORY
6225 Kenway Drive
Mississauga, ON
L5T 2L3

Accredited Laboratory No. 36
 (Conforms with requirements of CAN-P-4E (ISO/IEC 17025:2005))

CONTACT: Mr. Robert Fulton
 TEL: (905) 678-7820 ext. 4214
 FAX: (905) 678-7131
 EMAIL: robert.fulton@intertek.com

CLIENTS SERVED: All interested parties

FIELDS OF TESTING: Electrical/Electronic, Mechanical/Physical, Thermal & Fire Resistance

ISSUED ON: 2009-02-20

VALID TO: 2012-06-12

CONSTRUCTION

Building Constructions and Prefabricated Buildings

AAMA 501	Full Scale Dynamic Wind Test
ASTM E1105	Water Penetration of Windows and Doors, Field Test
ASTM E72	Conducting Strength Test of Panels for Building Construction Except for: Section 10 Tensile Load and Section 14 Racking Load
ASTM E783	Air Exfiltration for Doors/Windows, Field Test

Construction Materials

Fasteners and Hardware (See also METAL and ELAS Sections)

ASTM B117	Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM D1761	Mechanical Fasteners in Wood
ASTM E190	Method for Guided Bend Test for Ductility of Welds
CAN/CSA Z91	Safety Code for Window Cleaning Operations
CSA G30.18	Billet Steel Bars for Concrete Reinforcement
CSA S347	Method of Test for Evaluation of Truss Plates Used in Lumber Joints

Insulating Materials

ASTM C518	Standard Test Method for Steady-State thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
ASTM C578	Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation Except for: Clause 11.10 Oxygen Index
ASTM E605	Thickness-Density of Sprayed Fire Resistive Materials Applied to Structural Members
CAN/ULC S701	Standard for Thermal Insulation, Polystyrene Boards and Pipe Covering Except for: Clause 7.3.9 Limiting Oxygen Index

Miscellaneous Construction Materials

ASTM C473	Physical Testing of Gypsum Board
ASTM D3083	Specification for Flexible Poly (Vinyl Chloride) Plastic Sheeting for Pond, Canal and Reservoir Lining
ASTM D3776	Test Methods for Mass per Unit Area (Weight) of Woven Fabric
ASTM D413	Test Methods for Rubber Property-Adhesion to Substrate
ASTM D4437	Standard Practice for Determining the Integrity of Field Seams Used in Flexible Polymeric Sheet Geomembranes Only for: Peel and Shear Test
ASTM D5199	Standard test Method for Measuring the Nominal Thickness of Geosynthetics
ASTM D6108	Standard Test Method for Compressive Properties of Plastic Lumber and Shapes
ASTM D6109	Standard Test Method for Flexural Properties of Unreinforced and Reinforced Plastic Lumber
ASTM D6111	Standard Test Method for Bulk Density and Specific Gravity of Plastic Lumber and Shapes by Displacement
ASTM D638	Test Methods for Tensile Properties of Plastics
ASTM D6693	Standard test Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes
ASTM E96	

Standard test Methods for Water Vapor Transmission of Materials

Plumbing Products (See also ELAS, METAL and NONMETAL Sections)

ASTM B306	Specification for Copper Drainage Tube (DWV) Only for: Pressure and Rockwall Hardness
ASTM B88	Specification for Seamless Copper Water Pipe Only for: Tension and Rockwall Hardness
ASTM D2122	Determining Dimensions of Thermoplastic Pipe and Fittings
CAN/CSA B125	Plumbing Fittings Except for: Clause 4.6 Toxicity
CAN/CSA B45.0	Plumbing Fixtures
CAN/CSA B45.1	Vitreous China Plumbing Fixtures
CAN/CSA B45.2	Enameled Cast Iron Plumbing Fixtures
CAN/CSA B45.3	Porcelain–Enameled Steel Plumbing Fixtures
CAN/CSA B45.4	Stainless Steel Plumbing Fixtures
CAN/CSA B45.5	Plastic Plumbing Fixtures Except for: D2244 Colour fastness ASTM G21, G22 Fungi and Bacteria

Roof Coverings (See also ELAS Section)

ASTM D1790	Test Method for Brittleness Temperature of Plastic Film by Aging
ASTM D2523	Practice for Testing Load Strain Properties of Roofing Membranes
ASTM D412	Test Methods for Rubber Properties in Tension
ASTM D570	Test Method for Water Absorption of Plastics
ASTM D624	Test Method for Rubber Property–Tear Resistance
ASTM D92	Test Method for Flash and Fire Point by Cleveland Open Cup
CAN/CGSB 37.52	Roofing and Waterproofing Membrane, Sheet Applied, Elastomeric
CAN/CGSB 37.54	Polyvinyl Chloride Roofing and Waterproofing Membrane
CGSB 37–GP–56M	Standard for Membrane, Modified Bituminous, Prefabricated & Reinforced for Roofs Except for: Weathering Crack Bridging

Wall Coverings (See also FIBRE, WOOD and ELAS Sections)

CAN/CGSB 41.24	Sidings, Soffits and Facia, Aluminum Rigid Vinyl Siding Only for: Section 7.2.7 Surface Distortion
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CGSB 93.4

Sidings, Soffits and Fascia, Steel, Galvanized, Prefinished,
Residential

Windows and Doors (See also ELAS, METAL, NONMET and WOOD Sections)

ASTM C1363	Thermal Performance of Building Assemblies Hot Box Apparatus
ASTM C236	Test Method for Steady State Thermal Performance of Building Assemblies by Means of a Guarded Hot Box
ASTM E283	Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Difference Across the Specimen
ASTM E330	Structural Performance of Exterior Windows, Curtain Walls and Doors
ASTM E331	Test for Water Penetration
ASTM E547	Test for Water Penetration by Cyclic Static Pressure
ASTM E783	Air Exfiltration for Doors/Windows, Field Test
ASTM F1415	Hollow Metal Swinging Door Assemblies for Detention Facilities
ASTM F476	Test Methods for Security of Swing Door Assemblies
CAN/CGSB 63.14	Plastic Skylights
CAN/CGSB 82.1	Sliding Doors
CAN/CGSB 82.5	Insulated Steel Doors
CAN/CGSB 82.6	Doors, Mirrored Glass, Sliding or Foldable, Wardrobe
CAN/CSA 0132	Wood Flush Doors
CAN/CSA A440	Windows
CGSB 82-GP-3M	Doors, Aluminum, Combination Storm and Screen
CGSB 82-GP-4M	Doors, Steel, Combination Storm and Screen
CMHC 12510	Interim Standard for Moveable Insulating Devices for Windows

Pipelines

CAN/CSA B137.4	Polyethylene Piping System for Gas Services
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Prefabricated Assemblies and Kitchen, Office Sections:

Metallic Structures

CAN/CGSB 7.2	Adjustable Steel Columns
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ELECTRICAL PRODUCTS AND ELECTRONIC PRODUCTS

Testing of Individual electrical/electronic components as outlined in the national and international standards are excluded

CAN/CSA E335-2-21	Storage Water Heaters
CSA C22.2 No. 63	Household Refrigerators and Freezers Except for: Cl. 8.9: Defrost test Cl. 8.20: Defrost heater control tests Cl. 8.24: Strength tests – Pressure containing components Cl. 8.27: Glass strength test
CSA C22.2 No. 88	Construction and Test of Industrial Heating Equipment

Lighting and Fixtures

CAN/CSA C22.2 No. 207	Portable and Stationary Electric Signs and Displays
CSA C22.2 No. 12	Portable Luminaires
CSA C22.2 No. 250	Luminaires
CSA C22.2 No. 37	Christmas Tree and other Decorative lighting outfits
CSA C22.2 No. 598-1	Luminaires
CSA C22.2 No. 9	Luminaires Except for: Cl. 6.15.2 Kitchen Counter Alcove

Miscellaneous Electrical Appliances (Specify)

CAN/CSA C22.2 No. 218.1	Spas, Hot Tubs, and Associated Equipment
CAN/CSA C22.2 No. 1010.1	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use, Part 1 – General Requirements Except for: Clause 12: Protection against radiation including laser sources and ultrasonics
CAN/CSA C22.2 No. 60335.1	Safety of Household and Similar Electrical Appliances Except for: Cl. 24: Components Cl. 15: Moisture resistance IPX6 Cl. 32: Radiation toxicity and similar hazards
CAN/CSA C22.2 No. 60950-1	Safety of Information Technology Equipment Including Electrical Business Equipment Except for: Cl. 1.5: Components Cl. 6: Connection to the Telecommunication Network, Annex M, Annex K
CAN/CSA E60065	Safety Requirements for Mains Operated Electronic and Related Apparatus for Household and Similar Use Except for: Cl.6.2 Laser Radiation Cl. 6.4: Laser Radiation Annex B: Apparatus to be Connected to Telephone Network Cl. 12.1.2: Vibration test Cl. 24.14: Components
CAN/CSA E60335-2-2	Vacuum Cleaners and Water Suction Appliances Except for: Cl 21.101: Current-carrying hoses shall be resistant to crushing Cl 21.102: Current-carrying hoses shall be resistant to abrasion Cl 21.103: Current-carrying hoses shall be resistant to

	flexing
	Cl 21.104: Current-carrying hose shall be resistant to torsion
CSA C22.2 No. 1	Audio video and Similar Electronic Equipment Except for: Cl. 4.2.1 Laser Radiation 4.2.7 Laser Radiation 4.10.3.3 Across-The-Line Capacitors Cl. 6.12 Capacitor Discharge Test Cl. 6.14 Adhesives and Conducting Coating Securemat Cl. 6.15.2 Kitchen Counter Alcove Cl. 9.4: TV-related switches and relays Cl. 10: Across-the-line capacitors Cl. 12: Varistors Cl. 18: Discharge path resistors and isolating resistors Cl. 19: Apparatus connected to telecommunication network
CSA C22.2 No. 10	Electric Floor Surfacing and Cleaning Machines Except for: Cl. 6.9.3: Endurance
CSA C22.2 No. 113	Fans and Ventilators Except for: Cl. 6.7: Endurance Cl. 6.13: Speed control – Limited short circuit test Cl. 6.16: Hassock fan – Strength test
CSA C22.2 No. 122	Hand-Held Electrically Heated Tools Except for: Cl. 6.6: Performance of manually operated switches Cl. 6.7: Performance of thermally operated controls Cl. 6.10: Limited short circuit test for electronic components Cl. 6.12: Insulated liner investigation
CSA C22.2 No. 6	Electric Clocks

Motor Operated Electrical Appliances

CAN/CSA C22.2 No. 147	Motor Operated Gardening Appliances Except for: Cl 4.2.3.3: Foot Probe Test as per Clause 6.18 Cl 4.17: Hedge Trimmers Cl. 6.9: Performance of manually operated switches Cl. 6.14.6.3: Structural integrity test Cl. 6.14.6.4: Sudden impact test Cl. 6.14.6.5: Thrown object test Cl. 6.16: Speed control-limited short-circuit test Cl. 6.18.2: Foot Probe Test Cl. 7.6.3: Supplementary insulation test
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Washing Equipment

CAN/CSA C360	Test Method for Measuring Energy Consumption and Capacity of Automatic Household Clothes Washers
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ASTM B557	Method of Tension Testing Wrought and Cast Aluminum and Magnesium Alloy Products
ASTM E110	Indentation Hardness of Metallic Materials by Portable Hardness Testers
ASTM E18	Test Method for Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials Only for: B and C scales
ASTM E190	Method for Guided Bend Test for Ductility of Welds
ASTM E8	Test Methods of Tension Testing of Metallic Materials
CSA G30.18	Billet Steel Bars for Concrete Reinforcement Except for: Clause 6: Chemical composition
SAE J684	Trailer Couplings, Hitches and Safety Chains – Automotive Type

NON METALLIC MINERALS AND PRODUCTS

Energy Equipment: (Appliances)

Natural Gas Fired Appliances

Refer to minor sub-heading: *Propane Fired Appliances*

Oil Fired Appliances

B140.1	Vaporizing Type Oil Burners
B140.10–1974 (R1991)	Oil-Fired Warm Air Heating Appliances for Mobile Housing Recreational Vehicles
B140.12–1976 (R1991)	Oil-Fired Service Water Heaters and Swimming Pool Heaters
B140.2.1	Oil Burners Atomizing Type (up to 400,000 BTU/hr)
B140.3–1962 (R1991)	Oil Burning Stoves and Water Heaters
B140.4–1974 (R1991)	Oil-Fired Warm Air Furnaces
B140.7.1–1976 (R1991)	Oil-Fired Steam and Hot-Water Boilers for Residential Use
B140.7.2	Oil-fired Steam and Hot-Water Boilers for Commercial and Industrial Use
B140.8–1967 (R1991)	Portable Industrial Oil-Fired Heaters
B140.9.1	Portable Liquid fuelled Catalytic Appliances
B140.9.3	Portable Kerosine-Fired Heaters
B140.9.4	Portable Pressurized Type Liquid Petroleum Fuelled Lamps and Lanterns
B212–93	Seasonal Energy Utilization Efficiencies of Oil-Fired Furnaces and Boilers
CAN/CSA–B140.0–M87 (R1991)	General Requirements for Oil Burning Equipment
CAN/CSA–B140.11–M89	Oil/Gas-Fired Commercial/Industrial Pressure Washers and Steam Cleaners

Propane Fired Appliances

ANSI Z83.11	Ranges and Unit Broilers
ANSI Z83.12	Baking and Roasting Ovens
ANSI Z83.13	Deep Fat Fryers
ANSI Z83.15	Kettles, Steam Cookers & Steam Generators
CAN/CGA-1.11	Gas Counter Appliances
CAN/CGA-2.17	Gas-Fired Appliances for Use at High Altitudes
CAN/CGA-2.22	Vented Decorative Gas Appliances
CAN/CGA-2.26	Decorative Gas Appliances for Installation in Vented Fireplaces
CAN/CGA-2.29	Hand Held Torches
CAN/CGA-2.3	Gas-Fired Gravity and Forced Air Central Furnaces
CAN/CGA-2.5	Gas-Fired Gravity and Fan Type Wall Furnaces
CAN/CGA-2.6	Gas Unit Heaters
CAN/CGA-2.8	Gas-Fired Duct Furnaces
CAN1-11.1	Portable Type Gas Camp Lights
CAN1-11.2	Portable Type Gas Camp Stoves
CAN1-11.3	Portable Type Gas Camp Heaters
CAN1-11.4	Portable Type Gas Camp Refrigerators
CAN1-2.1	Gas-Fired Vented Room Heaters
CAN1-2.15	Gas-Fired Domestic Lighting Appliances
CAN1-2.16	Gas-Fired Infra-Red Heaters
CAN1-2.19	Gas-Fired Gravity and Fan Type Direct Vent Wall Furnaces
CAN1-2.20	Gas-Fired Brooders
CAN1-2.21	Gas-Fired Appliances for Outdoor Installation
CAN1-2.23	Gas-Fired Portable Infra-Red Heaters
CAN1-2.27	Combination Gas and Solid-Fuel Fired Furnaces
CAN1-4.1	Gas-Fired Automatic Storage Type Water Heaters with Inputs Less than 75,000 BTU
CAN1-4.3	Circulating Tank, Instantaneous and Large Automatic Storage Type Gas Water Heaters
CAN1-4.7	Gas-Fired Pool Heaters
CAN1-7.1	Domestic Gas Clothes Dryers
CGA-1.10	Gas Food Service Equipment
CGA-1.15	Gas Food Service Equipment
CGA-1.17	Commercial Outdoor Cooking Appliances, Carts and Trailers
CGA-1.3	Domestic Hot Plates and Laundry Stoves
CGA-1.4	Refrigerators Using Gas Fuel
CGA-1.8	Gas Food Service Equipment
CGA-1.9	Gas Food Service Equipment

CGA-2.14	Gas-Fired Unvented Construction Heaters (Unattended Type)
CGA-2.31	Manually Lighted, Domestic Gas Appliances for Installation in Solid-Fuel Burning Fireplaces
CGA-4.9	Gas-fired Steam and Hot Water Boilers
CGA-5.2	Gas-Fired Waterless Toilet
CGA-7.2	Commercial Gas Clothes Dryer
CGA-P.2	Testing Method for Measuring Annual Fuel Utilization Efficiencies of Residential Furnaces and Boilers
CGA-P.3	Testing Method for Measuring Annual Fuel Utilization Efficiencies of Gas-Fired Water Heaters
CGA-P.4	Testing Method for Measuring Annual Fuel Utilization Efficiencies of Vented Home Heating Equipment
CGA-P.5	Testing Method for Measuring Per-Cycle Energy Consumption and Energy Factor of Domestic Gas Clothes Dryers
CGA-P.7	Testing Method for Measuring Thermal Efficiency and Stand-by Loss of Gas-fired Commercial Water Heaters
CSA 1-3.7	Non-recirculating Gas Fired Industrial Air Heaters
CSA 2.33	Vented Gas Fireplace Heaters

Solid Fuel Fired Appliances

CAN/CSA B366.1	Solid Fuel Fired Appliances for Residential Use
CAN/ULC S610	Standard for Factory Built Fireplaces
CAN/ULC S627	Standard for Space Heaters for Use with Solid Fuels
CAN/ULC S632	Standard for Heat Shields
CSA Notice 49	Tubular Grates for Fireplaces
ULC S628	Standard for Fireplace Inserts
ULC S638	Standard for Glass Screens for Masonry Fireplaces

Venting Equipment for Products of Combustion

CAN/ULC S604M	Standard for Factory Built Type "A" Chimneys
CAN/ULC S605M	Standard for Gas Vents
CAN/ULC S609M	Standard for Low Temperature Type "L" Vents
CAN/ULC S629	Standard for 650°C Factory Built Chimneys
CAN/ULC S635M	Standard for Rigid Flexible Liners for Existing Masonry or Factory Built Chimney
CAN/ULC S639M	Standard for Steel Liners for Solid Fuel Burning Masonry Fireplaces
CAN/ULC S640M	Standard for Liners for Masonry Chimneys
CAN/ULC S641M	Standard for Factory Built Chimney Connections

Glass and Glass Products:

CAN/CGSB 12.1

Glass, Safety, Tempered or Laminated

Soil; Aggregates; Stone; Sand:

Stone

ASTM B1354	Strength of Individual Stone Anchorage in Dimension Stone
ASTM C170	Test Method for Compressive Strength of Dimension Stone
ASTM C241	Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic
ASTM C501	Abrasion Resistance of Ceramic Tile by Taber Abrasion
ASTM C880	Test Method for Flexural Strength of Dimension Stone
ASTM C97	Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone
ASTM C99	Test Method for Modulus of Rupture of Dimension Stone
CAN/CSA A82.2	Method of Sampling and Testing of Brick (Freeze-Thaw)

Notes:

CAN-P-4E (ISO/IEC 17025): General Requirements for the Competence of Testing and Calibration Laboratories (ISO/IEC 17025-2005)

P. Paladino, P. Eng., Director, Conformity Assessment

Date: 2009-02-20

Number of Scope Listings: 196

SCC 1003-15/59

Partner File #0

Partner: None

International Accreditation Service

SCOPE OF ACCREDITATION

Intertek Testing Services NA Ltd. TL-273
 (Revised January 22, 2009)

FIELDS OF TESTING	ACCREDITED TEST METHODS
Equipment	ANSI Standards Z21.1, Z21.5.1, Z21.5.2, Z21.10.1, Z21.10.3, Z21.11.1, Z21.11.2, Z21.12, Z21.13, Z21.42, Z21.44, Z21.47, Z21.48, Z21.49, Z21.50, Z21.56, Z21.58, Z21.60, Z21.76, Z21.84, Z21.86, Z21.88, Z83.4, Z83.6, Z83.7, Z83.8, Z83.9, Z83.11, Z83.17 and Z83.18; ASTM Standard E 1509; ANSI/BHMA Standards A156.2, A156.3 and A156.4; ANSI/ASME Standards A112.1.2, A112.18.1, A112.18.3, A112.19.3 and A112.19.6; ASSE Standards 1016 and 1025; ANSI/UL Standards 48, 50, 103, 127, 207, 224, 514A, 514B, 514C, 641, 726, 727, 729, 731, 732, 737, 746C, 884, 924, 1482, 1563, 1778 and 1995; UL Standards 391, 907 and 1777
Deckboard span rating and hand rail systems	Test methods referenced in ICC-ES Acceptance Criteria AC174 (Except Sections 3.10 and 4.7)

May 29, 2008
 Commencement Date

Print Date: 03/04/2009



C. P. Ramani, P.E.
 President

International Accreditation Service

CERTIFICATE OF ACCREDITATION

This is to signify that

INTERTEK TESTING SERVICES NA LTD.

6225 KENWAY DRIVE
MISSISSAUGA, ONTARIO L5T 2L3
CANADA

Testing Laboratory TL-273
(Revised January 22, 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 May 29, 2008, 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: 03/04/2009
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.

International Accreditation Service

SCOPE OF ACCREDITATION

Intertek Testing Services NA Ltd. IL-273
(Revised January 22, 2009)

Intertek Testing Services NA Ltd.
6225 Kenway Drive
Mississauga, Ontario L5T 2L3,
Canada

Rob Fulton
Quality Manager
(905) 678-7820

FIELDS OF TESTING	ACCREDITED TEST METHODS
Fire	ASTM Standard D 635
Physical/structural	ICC-ES Evaluation Guideline 114, ANSI Standards Z124.1, Z124.2, Z124.3 and Z124.6, ASTM Standards B 88, B 117, B 280, B 306, B 819, B 837, D 143, D 198, D 635, D 638, D 790, D 1761, D 2016, D 2394, D 4442, D 4444, D 6108, D 6109, D 6114, D 6112, D 6117, D 6341, E 8, E 96, E 283, E 330, E 331, E 547 and F 842; AAMA Standards 101/IS 2 and 501.1; ASME Standard A112.19.5; WDMA I.S. Standards 2, 3, 6, 7, 8 and 9; NAFS-1; Test methods referenced in Section 4 of ICC-ES Acceptance Criteria AC12 (Sections 4.5.11.5.3, 4.5.7, 4.5.14, 4.15.1, 4.15.2 only)

May 29, 2008
Commencement Date

Print Date: 03/04/2009



C. P. Ramani, P.E.
President

Page 2 of 3

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