

International Accreditation Service

# CERTIFICATE OF ACCREDITATION

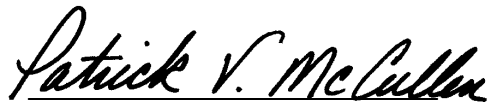
*This is to signify that*

## INTERTEK TESTING SERVICES SHENZHEN LTD., GUANGZHOU BRANCH

BLOCK E, NO.7-2 GUANG DONG SOFTWARE SCIENCE PARK  
CAIPIN ROAD, GUANGZHOU SCIENCE CITY  
GETDD, GUANGZHOU  
PEOPLE'S REPUBLIC OF CHINA

Testing Laboratory TL-395  
(Revised January 13, 2011)

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 November 1, 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: 01/31/2011

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# SCOPE OF ACCREDITATION

Intertek Testing Services Shenzhen Ltd., Guangzhou Branch TL-395  
(Revised January 13, 2011)

Intertek Testing Services Shenzhen Ltd., Guangzhou Branch  
Block E, No.7-2 Guang Dong Software Science Park  
Caipin Road, Guangzhou Science City  
GETDD, Guangzhou  
People's Republic of China

Mr. Baud Qiu  
Operation Manager  
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FIELDS OF TESTING	ACCREDITED TEST METHODS
Roof covering systems	ASTM Standards C 67, C 666, C 794, D 226 (Table 1 Physical requirements only), D 903, D 1037 (Sections 14, 15 and 21 only), D 1970, D 2394, D 2523, D 3462, D 3746, D 434 (except Standard G155), D 4869, D 5602, D 5635 and F1306; ICC-ES Acceptance Criteria AC07 Sections 3.3.1, 3.3.9, 3.3.10, 3.3.11, 3.3.12, 3.4.2, 3.4.6, 3.4.7, 3.4.8, 3.4.14, 3.4.15, 3.4.16, 3.4.17, 4.4, 4.5, 4.7, 4.8, 4.9 and 4.11; AC39 Sections 4.0 (except Sections 4.3, 4.6 and 4.14); AC75 Section 4.0 (except Sections 4.1 and 4.4); AC48 Sections 3.0 (except Section 3.1.2.6) and 4.0 (except Section 4.6); AC148 Sections 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7 and 4.8; AC160 Section 4.0, AC165 Tables 1 and 2, AC166 Sections 3.0 and 4.0 (except 4.4; 4.5; 4.8; 4.10), AC 180 Sections 3.0 and 4.0, AC188 Table 1 (except cycling and elongation); AC207 Sections 3.8 and 4.0 (except Sections 4.5 and 4.8)
Wall, Siding and cladding systems	ASTM Standards C 297, E 330; ICC-ES Acceptance Criteria AC25 Sections 4.1, 4.2, 4.5, and 4.6; AC 37 Section 3.0 (except 3.1.2; 3.3), AC38 Sections 3.1, 3.3, 4.0 and 5.2; AC90 Sections 3.1 (except Section E84), 3.3 and 4.1

November 1, 2010  
Commencement Date



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Environmental testing	ASTM Standards B 117, E 96, G 53 and G 154
Fiber-cement, gypsum and magnesium panel products	ASTM Standards C 473, C 1178 (except fire tests), C 1185, C 1186 (except fire tests), C 1278 (except fire tests), C 1396 (except fire tests), ICC-ES Acceptance Criteria AC386 Section 3.1 (except Sections 3.1.9 and 3.1.11)
Fabrics, paper, rubber and textiles	AATCC 127; ASTM Standards D 412, D 751, D 779, D 828, D 1682, D 2136 and D 5034
Plastic and composite materials	ASTM Standards D 256, D 570, D 618, D 648, D 756, D 790, D 882, D 1004, D 1204, D 1781, D 1784, D 2299, D 2990 and D 3045
Deckboard, guardrail and handrail systems	ASTM Standards D 2915, D 4933 and D 7032 Sections 4 (except flexural, biodeterioration and Fire tests), 5 (except flexural performance) and 6; ICC-ES Acceptance Criteria AC109 Sections 4.1, 4.2, 4.4 (UV exposure only), 4.5, 4.6 and 4.7; AC174 Sections 3.0 (except Sections 3.4, 3.9 and 3.10), 4.0, 5.1 and 5.2; AC273 Section 4.0 (except Section 4.2.8)
Building-integrated photovoltaic (BIPV) systems	ICC ES Acceptance Criteria AC365 Sections 3.0 (except Sections 3.1, 3.2 and 3.3) and 4.0 (except Section 4.1); UL1073 (Impact resistance, Temperature Cycling and Humidity only)
Safety glazing	ANSI Z97.1 Sections 4 (except Sections 4.7.2 and 5.3.2.1) and 5 (except Section 5.3.1); British Standards BS 6206; CAN CGSB-12.1, CPSC 16 CFR Part 1201 (except simulated weathering); European Standards EN 12150-1 and EN12600; AS/NZS 2208; EN 12150-1; EN 12150-2; EN 14179-1; EN 14179-2

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Plumbing	ASME Standards A112.18.1 and A112.19.2; CSA Standards B45.1 and B125.1; Water Sense Specification for Showerheads
Flooring	ASTM Standards F 1033, F1066, F 1344, F 1700, F 1859, F 1861, F 1913 and F 2169
Insulation	ICC-ES Acceptance Criteria AC02 Section 3.0 (except 3.3; 3.3.2; 3.5 and 3.6.1), AC12 Sections 3.0 and 4.0 (except 3.1,3.2;3.3, 3.4.1,3.4.2,3.6, 4.1, 4.2, 4.3, 4.4, 4.5.1, 4.5.10, 4.5.11, 4.5.13, 4.5.2, 4.5.3, 4.5.4, 4.5.5, 4.5.6 and thermal conductivity, hot surface performance, oxygen index, ASTM Standard C 871); AC220 Section 3.0 (except 3.1, 3.2 and 3.4); ASTM C1029 (except fire test)
Structural	ASTM Standard E 72; ICC-ES Acceptance Criteria AC120 Section 4.0, AC151 Section 3.0 (except 3.1.1 and 3.1.2); AC161 Sections 3.0 and 4.0, AC175 Section 3.0 (except 3.1.1, 3.1.2, 3.1.3, 3.1.4, 3.1 and 3.2.2); AC300 Section 3.0 and 4.0, AC335 Section 3.0
Wood	ASTM Standards D 2395, D 4442 and D 5892
ENERGY STAR Program Requirements	<p><b>Appliances:</b></p> <p><b>Residential Refrigerators:</b> 10 CFR 430, Subpart B, Appendix A1</p> <p><b>Residential Freezers:</b> 10 CFR 430, Subpart B, Appendix B1</p>

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ENERGY STAR Program Requirements (continued)	<p><b>Water Coolers:</b> ENERGY STAR Test Method for Water Coolers, ENERGY STAR Program Requirements Product Specification for Water Coolers, Page 6.</p> <p><b>Room Air Conditioners:</b> 10 CFR 430, Subpart B, Appendix F; ASHRAE 16, Method of Testing for Rating Room Air Conditioners; AHAM RAC-1, Room Air Conditioners</p> <p><b>Vending Machines:</b> ASHRAE Standard 32.1, Methods of Testing for Rating Vending Machines for Bottled, Canned, and Other Sealed Beverages</p> <p><b>Plumbing:</b> Water Heater 10CFR Part 430, Subpart B Appendix E, ANSI Z21.10.1/CSA 4.1-2009; ANSI Z21.10.3a-2007/CSA 4.3a-2007; ANSI Z21.10.3b/ CSA 4.3b-2008</p> <p><b>Home Electronics:</b></p> <p><b>Audio/Video:</b> ENERGY STAR Test Method for Audio/Video, ENERGY STAR Program Requirements Product Specification for Audio/Video, Page 13</p>

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ENERGY STAR Program Requirements (continued)	<p><b>Battery Chargers:</b> ENERGY STAR Test Method, ENERGY STAR Program Requirements for Battery Charging Systems, Page 12</p> <p><b>External Power Adapters:</b> Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies</p> <p><b>Set-top Boxes &amp; Cable Boxes:</b> ENERGY STAR Test Method for Set-top Boxes (Testing Products for ENERGY STAR); ENERGY STAR Program for Set-top Boxes, Section 4, Page 11; Energy Star Program Requirement for Cable, Satellite, and Telecom Service Providers</p> <p><b>Televisions:</b> ENERGY STAR Test Method for Televisions, ENERGY STAR Program Requirements for Televisions IEC 62087, Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment CEA-2037, Determination of Television Average Power Consumption IEC 62301, Household Electrical Appliances – Measurement of Standby Power. CEA: Procedure for DAM Testing</p>

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ENERGY STAR Program Requirements (continued)	<p><b>Telephony:</b> ENERGY STAR Program Requirements for Telephony Eligibility Criteria; IEC 62301</p> <p><b>Digital-to-Analog Converter Boxes (DTAs):</b> ENERGY STAR Program Requirements for Digital-to-Analog Converter Boxes (DTAs); Section 6 of CEA-2022, Digital STB Active Power Consumption Measurement; Annex A of CEA-2013-A, Digital STB Background Power Consumption</p> <p><b>Office Equipment:</b></p> <p><b>Computers:</b> ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, Page 22; EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal AC-D and DC-DC Power Supplies; IEC 62301, Household Electrical Appliances - Measurement of Standby Power</p> <p><b>Computers:</b> ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, Page 22; EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal AC-D and DC-DC Power Supplies; IEC 62301, Household Electrical Appliances - Measurement of Standby Power</p>

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ENERGY STAR Program Requirements (continued)	<p><b>Displays:</b> ENERGY STAR Test Method for Displays, ENERGY STAR Program Requirements Product Specification for Displays, Page 11; VESA FPDM Standard ; IEC 62301, Household Electrical Appliances – Measurement of Standby Power; IEC 62087, Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment</p> <p><b>Imaging Equipment:</b> ENERGY STAR Imaging Equipment Test Method, ENERGY STAR Program Requirements, Product Specification for Imaging Equipment, Page 20; IEC 62301: Household Electrical Appliances – Measurement of Standby Power; EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal AC-DC and DC-DC Power Supplies; Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies</p>

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ENERGY STAR Program Requirements (continued)	<p><b><u>HVAC Products:</u></b>  <b>Dehumidifiers:</b>                      ANSI/AHAM DH-1; CAN/CSA-C749</p> <p><b>Heat Pumps, Air-Source:</b>                      ANSI/AHRI 210/240, Performance Rating of Unitary Air-Conditioning &amp; Air-Source Heat Pump Equipment;                      ARI Standard 210/240, Operating Condition A: 95°F outdoor air temperature, 80°F dry bulb/67°F wet bulb indoor coil air entering conditions</p> <p><b>Central Air Conditioning:</b>                      ANSI/AHRI 210/240, Performance Rating of Unitary Air-Conditioning &amp; Air-Source Heat Pump Equipment;                      ARI Standard 210/240, Operating Condition A: 95°F outdoor air temperature, 80°F dry bulb/67°F wet bulb indoor coil air entering conditions</p> <p><b><u>Commercial Food Service Equipment:</u></b>  <b>Commercial Refrigerators &amp; Freezers:</b>                      ANSI/ASHRAE Standard 72; ANSI/AHAM HRF-1</p> <p><b>Commercial Ice Machines:</b>                      ARI Standard 810, Performance Rating of Automatic Commercial Ice Makers</p>

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