Miami-Dade County, Florida
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISON
PRODUCT CONTROL SECTION
11805 S.W. 26 Street-Room 208
Miami, Florida 33175-2474
T (786) 315-2590 Fax (786) 315-2599

Laboratory Certificate

MIAMI-DADE COUNTY APPROVED

This certifies that Intertek Testing Services Ltd., (Shanghai) located at Plant 7 No. 6958 Da Ye Road, Fengxian District, Shanghai 201206 China is an approved Testing Laboratory in accordance with Miami-Dade County Department of Regulatory and Economic Resources and Protocol TAS301-94, and is Certified to perform the following tests:

ASTM E1886	TAS 202
ASTM E1996	TAS 203
TAS 201	ASTM F588
	International Accreditation Service Certificate TL-394

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

Vinu J. Abraham, P.E.; Joseph A. Reed, P.E.

This Certification and Registration Approved: **June 18, 2015**
This Certification and Registration Expires : **June 18, 2020**

Certification No. : **15-0512.28**

Jaime D. Gascon, P.E.
Product Control Section Supervisor
Product Control Section

Americo Segura, M.S.
Quality Assurance Unit Supervisor
Product Control Section

The Miami-Dade County Department of Regulatory and Economic Resources reserves the right to remove this certification for non-compliance with rules and regulations as set by Protocol TAS301-94.

International Accreditation Service

CERTIFICATE OF ACCREDITATION

This is to signify that

INTERTEK TESTING SERVICES LTD., SHANGHAI

PLANT 7, NO. 6958 DA YE ROAD
FENGXIAN DISTRICT
SHANGHAI 201405
PEOPLE'S REPUBLIC OF CHINA

AND

1201 GUI QIAO ROAD
PUDONG DISTRICT
SHANGHAI 201206
PEOPLE'S REPUBLIC OF CHINA

Testing Laboratory TL-394
(Revised June 27, 2015)

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing July 28, 2014, for the test methods listed in the approved scope of accreditation.

Patrick V. McCullen
Vice President, Chief Technical Officer

C. P. Ramani, P.E.
President

ACCREDITED

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

Print Date: 7/1/2015

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) 364-8201.

11-04577

International Accreditation Service

SCOPE OF ACCREDITATION

Intertek Testing Services Ltd., Shanghai TL-394
(Revised June 27, 2015)

Intertek Testing Services Ltd., Shanghai
Plant 7, No. 6958 Da Ye Road
Fengxian District
Shanghai 201405
People's Republic of China

Stanley Zhou
Senior Manager
+86 21 61136116

1201 Gui Qiao Road
Pudong District
Shanghai 201206
People's Republic of China

FIELDS OF TESTING	ACCREDITED TEST METHODS
Roof and Floor Covering Systems	ASTM Standards C 67, C 666, C 794, C 1185, D 5, D 36, D 226 (Table 1 only), D 412, D 751, D 779, D 828, D 903, D 1037 (Sections 14, 15 and 21 only), D 1682, D 1970, D 2394, D 2395, D 2523, D 3462, D 4073, D 4442, D 4869, D 4977, F 1066, F 1303, F 1306, F 1344, F 1700, F 1859, F 1861, F 1913 and F 2169; Test methods referenced in Sections 3.3.1, 3.3.6, 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, 4.1 (except Section 4.1.3), 4.4, 4.5, 4.7, 4.8, 4.9 and 4.11 of ICC-ES Acceptance Criteria AC07, Section 4.0 (except Sections 4.6) of AC39; Sections 3.0 (except Section 3.1.2.6) and 4.0 (except Section 4.6) of AC48, Sections 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7 and 4.8 of AC148, AC160, AC165 Section 3.0 (except Moisture Content), AC166 (except Sections 4.4, 4.5, 4.8 and 4.10), Table 1 (except Cycling and Elongation) of AC188, Sections 3.8 and 4.0 of AC207 (except Section 4.8) EN 14904, EN 14877
Water-resistive Barriers	ASTM Standards D 779, D 5034 and E 2178; Test methods referenced in Sections 3.1, 3.3, 3.4, 4.0 and 5.2 of ICC-ES Acceptance Criteria AC38; AATCC 127
Environmental Testing	ASTM Standards B 117, D 2565, D 5894, E 96, G 26, G 53, G 154 and G 155
Masonry, Cement, Stone, Gypsum and Magnesium Panel Products	AS 2588; ASTM Standard C 1186; AS 2908.2; ASTM Standards C 473, C 1178 and C 1278, C 1396; Test methods referenced in Section 3.1 (except Section 3.1.9) of ICC-ES Acceptance Criteria AC386; AS/NZS 2588
Plastic and Composite Materials	ASTM Standards C 297, D 256, D 570, D 618, D 635, D 648, D 756, D 790, D 882, D 1204, D 1781, D 1784, D 2290, D 2999, D 4812, D 6110 and D 6272; Test methods referenced in Sections 4.1, 4.2, 4.4.2, 4.5 and 4.6 of ICC-ES Acceptance Criteria AC25, Sections 4.1, 4.2, 4.3, 4.4 (UV exposure only), 4.5, 4.6 and 4.7 of AC109
Deck board, Guardrail and Handrail Systems	ASTM Standards D 2915, D 4933, D 6109, and D 7032 (except Sections 4.8 and 4.9); Test methods referenced in Sections 3.0 (except Sections 3.9 and 3.10), 4.0, 5.1 and 5.2 of ICC-ES Acceptance Criteria AC174; Section 4.0 (except Section 4.2.8) of ICC-ES Acceptance Criteria AC273; EN 15534-1 and EN 15534-4 AS/NZS 1860.1 (except Formaldehyde emission and fungicide treatment)

June 27, 2015
Commencement Date

ACCREDITED

C. P. Ramani, P.E.
President

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) 364-8201.

International Accreditation Service

SCOPE OF ACCREDITATION

Intertek Testing Services Ltd., Shanghai TL-394
(Revised June 27, 2015)

FIELDS OF TESTING	ACCREDITED TEST METHODS
Building-integrated Photovoltaic (BIPV) Systems	Test methods referenced in Sections 3.0 (except Sections 3.1, 3.2 and 3.3) and 4.0 of ICC ES Acceptance Criteria AC365; UL Standard 1703
Safety Glazing	ANSI Standards Z97.1, Sections 4 (except Section 4.7.2) and 5, (except Section 5.4.1.1); ASTM Standard C 158 (excluding the Annex A 2); CPSC 16 CFR Part 1201; CAN CGSB-12.1, CAN CGSB-12.2 (except Light Transmittance), CAN CGSB-12.3 (except Light Transmittance); BS Standard 6206; EN Standards 12150 -1, -2, EN 14179 -1, -2 and EN 12600; AS/NZS Standard 2208; 1997 UBC Standard 24-2
Ceramic Tile	ANSI Standard A137.1 (except Bond Strength, Moisture Expansion, Crazing Resistance, Deep Abrasion, Thermal Expansion, Resistance to Freeze Thaw Cycling); EN 14411 (except Resistance to Deep Abrasion, Linear Thermal Expansion, Resistance to Crazing, Frost Resistance, Impact Resistance, Lead and Cadmium Release); ISO Standard 13006 (except Resistance to Deep Abrasion, Linear Thermal Expansion, Resistance to Crazing, Frost Resistance, Impact Resistance, Lead and Cadmium Release); GB/T Standard 3810
Structural- General	Test methods referenced in Section 4.0 of ICC ES Acceptance Criteria AC04 (except Section 4.2.7), Section 3.0 of AC151, AC175, Sections 3.0 and 4.0 of AC300 and AC 335 (Section 3.0); EN Standard 12825, Sections 4.1, 4.2, 4.3, 4.4 and 4.5; CAN/CGSB Standard 7.2; ANSI/SSFI SC 100-5; AS/NZS 2269, 2269.0, 2269.1, 2269.2(except Immunization and Preservative Treatment, and Formaldehyde Emissions) and 4063 (except Tension and Compression); Department of Commerce Standards PS-1 and PS-2; CISCA 2007; ASTM Standard E 72; AS 6669 (except Formaldehyde Emission); AS 2271 (except Formaldehyde Emission)
Doors, Windows, Curtain Walls and Skylights	ASTM Standards C 1199, C 1363, E 283, E 330, E 331, E 405, F 476, E 547, F 588 and F842; C1279, E783, E1105, E576, E546, E1233, E1886, E1996; AAMA 101 (Sections 5.3.1, 5.3.2, 5.3.3, 5.3.4, and 5.3.5), and 901, 501, 501.1, 501.2, 501.5; TAS 201, 202, 203; NAFS (AAMA 101/WDMA I.S.2/CSA A440) (Sections 5.3.1, 5.3.2, 5.3.3, 5.3.4, 5.3.5, and 5.3.6); NFRC Standard 102; WDMA Test Methods T.M.5, WDMA T.M.6, WDMA T.M.7, WDMA T.M.8, WDMA T.M.10 and T.M. 15; ANSI Standard A250.4; ANSI/WCMA A100.1;

June 27, 2015
Commencement Date

ACCREDITED

C. P. Ramani, P.E.
President

Print Date: 7/1/2015

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) 364-8201.

13 08807

International Accreditation Service

SCOPE OF ACCREDITATION

Intertek Testing Services Ltd., Shanghai TL-394
(Revised June 27, 2015)

FIELDS OF TESTING	ACCREDITED TEST METHODS
Doors, Windows Curtain Walls and Skylights (continued)	CSA A440.2/A440.3 (Sections 5.2 and 7); CAN/CSA Standard A440 Sections 10.1, 10.2, 10.3, 10.4, and 10.13 only) and CAN/CSA-Z600;CAN/CGSB 82.1-M89 (Section 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, and 6.10); ISO Standard 8990; European Standards EN 947, EN 948, EN 949, EN 950, EN 951, EN 952, EN 1026, EN 1027, EN 1191, EN 1192, EN 1627, EN 1628, EN 1629, EN 1630, EN 12046-1, EN 12046-2, EN 12207, EN 12208, EN 12110, EN 12211, EN 12400, EN 13049, EN 13115, EN 13241, 13561:2004+A1:2008, EN 13659:2004+A1:2008, EN 14351-1 (Sections 4.1, 4.2, 4.5, 4.7, 4.8, 4.11, 4.12, 4.14, 4.17, 4.21 and 4.23) and EN 14609 EN ISO 12567-1, EN ISO_12567-2; BS EN 13120, BS EN 16433, BS EN 16434, EN 13830, EN 12152, EN 12153, EN 12154, EN 12155, EN 12179, EN 13116, EN 14019; Australian Standards, 2047, 4420.0, 4420.1, 4420.2, 4420.3, 4420.4, 4420.5 and 4420.6, AS 4284; Chinese Standards, GB/T 15227, JGJ/T 132, JG/T 211, JGJ/T 324
Hardware Products	ANSI/BHMA A 156.22 and156.21
Fire Testing of Building Assemblies (except Horizontal Assemblies of exposed area more than 1.5m*1.5m)	ASTM Standards E 119, E 814 and E 2226; UL Standards UL 9, 10B, 10C and 72, 263; CAN/ULC-S 101 and S 104; NFPA Standards 251, 252 and 257; ISO Standards 834-1, 834-4, 834-8, 3008 and 3009; British Standards BS 476-20, 476-21 and 476-22; European Standards EN 1363-1, 1364-1, 1365-1, 1634-1 and 13501-2; Australian Standards AS1530.4, 1530.8.2 (except Decks and Sub-floor Spaces) and AS 1905.1; Singapore Standard SS 332; FTP Code Parts 3 and 4; UBC 7-1, ANSI A2.1; MS 1073, Part 2 and 3; ASTM E 84 (NFPA 255, UL 723, CAN/ULCS102, UBC Standard 8-1)
Foam Plastic Insulations	ASTM Standards C 578 (except Thermal Resistance and Oxygen Index), C 1029 (except Thermal Resistance), E 2568 (except Full-scale Multi-story Fire Test, Ignition Resistance); C 518, C 547 (except Thermal Conductivity, Hot surface performance and stress corrosion), C 612 (except Maximum use temperature, Odor Emission, Corrosiveness to steel, Stress Corrosion and Fungi Resistance), C 726, C 1289, C 591 (except Hot surface performance, Closed-cell content and Leachable Chloride) AC 12, AC 377 (except Potential Heat Content, Ignition and Supplemental Fire) CAN/ULC S705-1 (except Air Permeance, Initial and Long Term Thermal Resistance, Volatile Organic Emissions), S701 (except Limiting Oxygen Index)
Mechanical Fasteners	Test methods referenced in Sections 5 of ICC-ES Acceptance Criteria AC01 (except Section 5.6), Section 4 of AC70, Section 4 of AC106 (except Section 4.6), Sections 3, 4 and 5 of AC116, Section 4 of AC120, Sections 3 and 4 of AC193 for Un-cracked Concrete (except Reliability of Screw Anchors Against Brittle Failure, Torque, Seismic Tension and Shear Test) and Section 3 of AC259; and AC118, AC 233
Fire Testing of Roof Covering	ASTM Standard E 108; UL Standard UL 790; IEC 61730-2, Section 10.8

June 27, 2015
Commencement Date

ACCREDITED

C. P. Ramani, P.E.
President

Print Date: 7/1/2015

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) 364-8201.

13 03897

International Accreditation Service

SCOPE OF ACCREDITATION

Intertek Testing Services Ltd., Shanghai TL-394
(Revised June 27, 2015)

FIELDS OF TESTING	ACCREDITED TEST METHODS
Acoustic Testing	ASTM Standards E 90; E 413; E 492; C 423, E1332, E336; E2179 and E 989; ISO 354;140-3:1995/Amd 1:2004 (E); 10140-1; 10140-2; 10140-3; 10140-4; 10140-5; 717-1; 717-2; 10848; 3822;11654; AS 1191;1276
Handheld Extinguishers	AS/NZS 1841; AS/NZS 1841.1; AS/NZS 1841.5; AS/NZS 1850
Paint and Coating	AAMA 2603; AAMA 2604; AAMA 2605

June 27, 2015
Commencement Date

ACCREDITED

C. P. Ramani, P.E.
President

Print Date: 7/1/2015

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) 364-8201.