



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ATLAS WEATHERING SERVICES GROUP
SOUTH FLORIDA TEST SERVICE
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MECHANICAL

Valid To: May 31, 2012

Certificate Number: 0717.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of tests:

Weathering in a Sub-Tropical Environment: Direct and under glass exposures at fixed or variable angle using standard panel racks, special mounting racks; black boxes; automotive interior large component/assembly cabinets; outdoor accelerated exposures using solar tracking racks with and without wetting; special fixtures designed to meet specific client needs, complete climatological data acquisition and reporting.

Evaluations: Visual inspection for all property changes detectable to the unaided eye or under magnification. Instrumental determination of loss of adhesion, chalking, instrumental color, color change, gloss, thickness, transmittance, whiteness index, yellowness index.

On the following products or materials: adhesives & sealants, agricultural & forest products, automotive products (including whole cars), aviation & aerospace materials, building materials (most applications & substrates), coatings, composites, geosynthetics, dyes, glass, inks, leather, packaging, photodegradables, plastics, rubber, textiles, windows & doors, wood & wood products.

REFERENCE STANDARDS APPLICABLE TO OUTDOOR WEATHERING AND EVALUATIONS

AAMA (American Architectural Manufacturers Association)

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|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| AAMA 2603, 6.1, 6.2, 6.4 & 6.8 | Voluntary Specification, Performance Requirements and Test Procedures For Pigmented Organic Coatings on Aluminum Extrusions and Panels |
| AAMA 2604, 7.1, 7.2, 7.4 & 7.9 | Voluntary Specification, Performance Requirements and Test Procedures For High Performance Organic Coatings on Aluminum Extrusions and Panels |
| AAMA 2605, 7.1, 7.2, 7.4 & 7.9 | Voluntary Specification, Performance Requirements and Test Procedures For Superior Performing Organic Coatings on Aluminum Extrusions and Panels |

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AATCC (American Association of Textile Chemists & Colorists)

- AATCC – 001 Gray Scale for Color Change
AATCC – 111 Weather Resistance (Options A and B) Exposure (Section 10) Colorfastness
(Section 11.1.3 only)

ASTM (American Society for Testing and Materials)

- ASTM D523 Specular Gloss
ASTM D610 Evaluating Degree of Rusting on Painted Steel Surfaces
ASTM D660 Evaluating Degree Checking of Exterior Paints
ASTM D661 Evaluating Degree Cracking of Exterior Paints
ASTM D662 Evaluating Degree Erosion of Exterior Paints
ASTM D714 Evaluating Degree Blistering of Paints
ASTM D772 Evaluating Degree Flaking (Scaling) of Exterior Paints
ASTM D1006 Conducting Exterior Exposure Tests of Paints on Wood
ASTM D1014 Conducting Exterior Exposure Tests of Paints on Steel
ASTM D1435 Outdoor Weathering of Plastics
ASTM D1654 Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments
ASTM D1729 Visual Evaluation of Color Difference of Opaque Materials
ASTM D2244 Calculation of Color Difference from Instrumentally Measured Color Coordinates
ASTM D2616 Evaluation of Visual Color Difference of Opaque Materials
ASTM D3274 Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation
ASTM D3359 Measuring Adhesion by Tape Test
ASTM D3679 Standard Specifications for Rigid Poly (Vinyl Chloride) (PVC) Siding
(Section 6.10, 6.11, and 6.13)
ASTM D4141 Conducting Accelerated Outdoor Exposure Tests of Coatings (Proc. A, C)
ASTM D4214 Evaluating Degree of Chalking of Exterior Paint Films
ASTM D4726 Standard Specifications for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profile
Extrusions Used for Assembled Windows and Doors (Section 7.1 only)
ASTM D6675 Accelerated Outdoor Cosmetic Corrosion Testing of Organic Coatings on Automotive
Sheet Metal
ASTM D6864 Standard Specification for Color and Appearance Retention of Solid Colored Plastic
Siding Products
ASTM D7091 Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings
Applied to Ferrous Metals and Nonmagnetic, Nonconductive Coating to Non-Ferrous
Metals
ASTM D7251 Standard Specification for Color and Appearance Retention of Variegated Color
Plastic Siding Products

ASTM (American Society for Testing and Materials) continued

ASTM D7254	Standard Specification for Polypropylene (PP) Siding
ASTM E308	Practice for Computing the Colors of Objects by Using the CIE System
ASTM E313	Indexes of Whiteness and Yellowness of Near-White Opaque Materials
ASTM E1331	Reflectance Factor and Color by Spectrophotometry Using Hemispherical Geometry
ASTM E1348	Color by Spectrophotometry Using Hemispherical Geometry
ASTM E1349	Reflectance Factor by Spectrophotometry Using Bi-directional Geometry
ASTM E1596-99	Standard Test Methods for Solar Radiation Weathering of Photovoltaic Modules
ASTM E1799-08	Standard Practice for Visual Inspections of Photovoltaic Modules
ASTM G7	Atmospheric Environmental Exposure Testing of Nonmetallic Materials
ASTM G24	Conducting Exposures to Daylight Filtered Through Glass
ASTM G147	Conditioning and Handling of Nonmetallic Materials for Natural and Artificial Weathering Tests
ASTM G179	Standard Specification for Metal Black Panel and White Panel Temperature Devices for Natural Weathering Tests

CLP (Chrysler Laboratory Procedures)

LP 463 KB 19 01 Outdoor Exposure Trim Materials

DIN (Deutsches Institut für Normung)

DIN 6174	Colorimetric Evaluation of Color Difference of Surface Colors According to the CIE Lab Formula
DIN 53209	Designation of Degree of Blistering of Paint Coatings
DIN 67530	Refractometers as a Means for Gloss Assessment of Plane Surfaces of Paint Coatings and Plastics

FLTM (Ford Laboratory Test Methods)

BI (Paints and Solvents, Physical Test Method):

BI 160-01	Florida Outdoor Exposure
BI 110-01	Measurement of the Gloss of Paint Panels

GM (General Motors Engineering Standards - Procedures)

GMW 3417	Natural Weathering Exposure Tests for Interior Trims/Materials
GM 9071P	Tape Adhesion Test for Paint Finishes
GM 9163P & GMW 14873	Outdoor Weathering of Automotive Exterior Materials
GM 9327P	Exterior Weatherability of Integrally Colored Plastics
GM 9538P	Weathering Exposure Tests for Interior Trims

ISO (International Standards Organization)

ISO 105 A02	Color Fastness to Artificial Light
ISO 105 B01	Color Fastness to Light; Daylight
ISO 105 B03	Color Fastness to Weathering: Outdoor Exposure
ISO 877	Plastics-Methods of Exposure to Direct Weathering, to Weathering Under Glass-Filtered Daylight, and to Intensified Weathering by Daylight Using Fresnel Reflector (Methods A, B)
ISO 2810	Paint and Varnishes - Notes for Guidance on the Conduct of Natural Weathering Tests
ISO 2813	Measurement of Specular Gloss of Non-Metallic Paint Films
ISO 4628	Paints and Varnishes-Evaluation of Degradation of Paint Coatings-Degradation of Intensity, Quality and Size of Common Types of Defect

SAE (Society of Automotive Engineers)

SAE J576	Plastic Materials for Use in Optical Parts Such as Lenses and Reflectors of Motor Vehicle Lighting Devices. Optical and Chromaticity Measurements (Sections 4.4 and 5.2.2) Conducted at Atlas (DSET).
SAE J1545	Instrumental Color Difference Measurement for Exterior Finishes, Textiles, and Colored Trim (A)
SAE J1767	Instrumental Color Difference Measurement of Colorfastness of Automotive Interior Trim Materials
SAE J1976	Outdoor Weathering of Exterior Materials

VSI (Vinyl Siding Institute)

VSI Outdoor Weathering Practice

Temperature Measurements

(-10 to +200) °C Thermocouple Temperature Measurements.



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

ATLAS WEATHERING SERVICES GROUP

Miami, FL

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 23rd day of April 2010.



A handwritten signature in black ink, reading "Peter Abaya".

President & CEO
For the Accreditation Council
Certificate Number: 717.02
Valid to May 31, 2012

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.