**Florida Supplement to the**

**2010 TEST PROTOCOLS FOR HIGH-VELOCITY HURRICANE ZONES**

**POST-GLITCH CORRECTION VERSION**

**TESTING APPLICATION STANDARD (TAS) No. 105-11**

**TEST PROCEDURE FOR FIELD WITHDRAWAL RESISTANCE TESTING**

***Revise Section 6 to read as follows:***

6.1.2 Hydraulic or mechanical dynamometers shall be operated by a screw or pump handle or shall be automatically rising at 2 in. (50 mm) + 0.1 in. per minute for steel and wood decks and 1/2 in. (12.5 mm) + 0.1 in. per minute for concrete, gypsum and cementitious wood fiber decks.

6.3 ~~Hydraulic~~ ~~d~~Dynamometers (“pull-testers”) shall be calibrated within three (3) months prior to conducting the test procedures outlined in this TAS. Facsimiles of the calibration shall be kept with the tester for examination by the authority having jurisdiction, upon request. A copy of the calibration certificate shall be attached to each test report. Calibration shall be in compliance with ASTM E 74, Grade B.

**(Mod S6145 / AS)**

**TESTING APPLICATION STANDARD (TAS) No. 110-2000**

**TESTING REQUIREMENTS FOR PHYSICAL PROPERTIES OF ROOF**

**MEMBRANES, INSULATION, COATINGS AND OTHER ROOFING COMPONENTS**

***Revise Section 15 to read as follows:***

**15. Metal Panel Roof Assemblies:**

15.1 All structural and nonstructural metal panel roof assemblies, and the roofing components therein, shall be tested in compliance with the following requirements, as applicable.

***Note: The first part of the requirements remain unchanged.***

|  |  |  |
| --- | --- | --- |
| **Product** | **Test** | **Test Standard** |
| Structural and Non-  Structural Metal Panel  Roof Assembly | Standard  Requirements | TAS 125 |
| Structural and Non-  Structural Metal Panel  Roof Assembly | Fire  Resistance | E 108  (min. Class “B”) |
| Structural and Non-  Structural Metal Panel  Continuous Roof  Assembly | Accelerated  Weathering | G ~~23~~ 152 or G ~~26~~ 155  (2000 hours) |
| Structural or Non-  Structural Metal  Panels | Salt Spray | B 117  (1000 hours) |
| Insulated Metal Panels | Thermal Value | C 518 (report) |

**(Mod R5035 / AS)**

**TESTING APPLICATION STANDARD (TAS) 114**

**TEST PROCEDURES FOR ROOF SYSTEM ASSEMBLIES**

**IN THE HIGH-VELOCITY HURRICANE ZONE JURISDICTION**

***Revise Section 2 to read as follows:***

**2. Referenced Documents:**

2.1 – 2.6 [No change]

2.7          ASTM Standards:

A 90       Standard Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles

A 641     Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire

B 117     Standard Test Method for Salt Spray (Fog) Testing

D 638     Standard Test Method for Tensile Properties of Plastics

D 751     Standard Test Methods for Coated Fabrics

D 1781   Standard Test Method for Climbing Drum Peel for Adhesives

E 70        Standard Test Method for pH of Aqueous Solutions With the Glass Electrode

E 108      Standard Test Methods for Fire Tests of Roof Coverings

E 380      Excerpts from the Standard Practice for Use of the International System of Units (SI) (the Modernized Metric System)

G ~~23~~152Standard Practice for Operating Open Flame Carbon Arc Light~~-Exposure~~ Apparatus ~~(Carbon-Arc Type) With and Without Water~~ for Exposure of Nonmetallic Materials

G ~~26~~155Standard Practice for Operating Xenon Arc Light~~-Exposure~~ Apparatus ~~(Xenon- Arc Type) With and Without Water~~ for Exposure of Nonmetallic Materials

G ~~53~~154Standard Practice for Operating Fluorescent Light~~- and Water-Exposure~~ Apparatus ~~(Fluorescent UV-Condensation Type)~~ for UV Exposure of Nonmetallic Materials

G 85 Standard Practices for Modified Salt Spray (Fog) Testing

2.8 – 2.11 [No change]

**(Mod R5037 / AS)**

***Revise Section 8 to read as follows:***

**8. Performance Requirements and Tests:**

8.1 – 8.6 [No change]

8.7          Accelerated weathering:

8.7.1      Accelerated weathering testing shall be in strict compliance with ASTM G ~~23~~152 or G ~~26~~155.

8.8 -8.9 [No change]

**(Mod R5039 / AS)**

**TESTING APPLICATION STANDARD (TAS) 124-11**

**TEST PROCEDURE FOR FIELD UPLIFT RESISTANCE OF EXISTING**

**MEMBRANE ROOF SYSTEMS AND IN SITU TESTING FOR REROOF AND NEW**

**CONSTRUCTION APPLICATIONS**

***Revise Section 11 to read as follows:***

**TESTING APPLICATION STANDARD (TAS) 124-11  
BELL CHAMBER TEST RESULTS**

**TEST INFORMATION:**

Number of Tests:                                                     n = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
(see Section 7.1 of TAS 124)  
(note the locations of all tests on  
“Building Information” Detail #2, attached)   
   
Maximum Uplift Pressure:                                      Pmax =  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_psf   
(as noted on the roof system manufacturer’s Product Approval)

Date of test:  \_\_\_\_\_\_\_\_\_\_\_\_

Air temperature:  \_\_\_\_\_\_\_\_\_\_\_\_

Roof surface temperature:  \_\_\_\_\_\_\_\_\_\_\_\_

Wind velocity during test:  \_\_\_\_\_\_\_\_\_\_\_\_

**(Mod S6147 / AS)**

**TESTING APPLICATION STANDARD (TAS) 124-11  
BONDED PULL TEST RESULTS**

TEST INFORMATION:

Number of Tests:                                                      n = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
(see Section 7.1 of TAS 124)  
(note the locations of all tests on  
“Building Information” Detail #2, attached)   
    
Maximum Uplift Pressure:                                       Pmax =  \_\_\_\_\_\_\_\_\_\_\_\_psf   
(as noted on the roof system manufacturer’s  
Product Approval)

Date of test:  \_\_\_\_\_\_\_\_\_\_\_\_

Air temperature:  \_\_\_\_\_\_\_\_\_\_\_\_

Roof surface temperature:  \_\_\_\_\_\_\_\_\_\_\_\_

Wind velocity during test:  \_\_\_\_\_\_\_\_\_\_\_\_

**TESTING APPLICATION STANDARD (TAS) No. 131-95**

**STANDARD REQUIREMENTS FOR THERMOPLASTIC OLEFIN**

**ELASTOMER BASED SHEET USED IN SINGLE-PLY ROOF MEMBRANE**

***Revise Section 2 to read as follows:***

**2.            Referenced Documents:**

2.1          ASTM Standards

D 412     Test Method for Rubber Properties in Tension

D 471     Test Method for Rubber Property - Effect of Liquids

D 573     Test method for Rubber-Deterioration in an Air Oven

D 624     Test Method for Rubber Property - Tear Resistance

D 751     Method of Testing Coated Fabrics

D 816     Methods of Testing Rubber Cements

D 1149   Test Method for Rubber Deterioration - Surface Ozone Cracking in a Chamber (Flat Specimens)

D 1204   Test Method for Linear Dimensional Changes of Non-rigid Thermoplastic Sheeting or Film at Elevated Temperature

D 2137   Test Method for Rubber Property - Brittleness Point of Flexible Polymers and Coated Fabrics

G ~~26~~155Standard Practice for Operating Xenon Arc Light~~-Exposure~~ Apparatus for Exposure of Nonmetallic Materials

G ~~53~~154Standard Practice for Operating Fluorescent Light Apparatus for UV-Condensation (QUV) Exposure of Nonmetallic Materials

D 1822   Tensile Impact Testing

E 96        Water Vapor Permeability, Method BW

E 380      Excerpts from Use of the International System of Units (SI) (The Modernized Metric System)

2.2 – 2.3 [No change]

**(Mod R5040 / AS)**

***Revise Section 10 to read as follows:***

**10. Test Methods:**

10.1 – 10.16 [No change]

10.17     Weather Resistance - Practice G ~~26~~155

10.17.1 – 10.172 [No change]

10.18     Weather Resistance - Practice G ~~53~~154

10.18.1 [No change]

10.19 [No change]

**(Mod R5040 / AS)**

**TESTING APPLICATION STANDARD (TAS) No. 138-95**

**STANDARD REQUIREMENTS FOR ALUMINUM PIGMENTED EMULSIFIED**

**ASPHALT USED AS A PROTECTIVE COATING FOR ROOFING**

***Revise Section 2 to read as follows:***

**2.            Referenced Documents:**

2.1          ASTM Standards

B 209     Specification for Aluminum and Aluminum-Alloy Sheet and Plate

D 16       Terminology Relating to Paint, Varnish, Lacquer and Related Products

D 562     Standard Test Method for Consistency of Paints Using the Stormer Viscometer

D 1079   Definitions of Terms Relating to Roofing, Waterproofing, and Bituminous Materials

D 2824   Specification for Aluminum-Pigmented Asphalt Roof Coatings

D 2939   Standard Test Method of Testing Emulsified Bitumens Used as Protective Coatings

D 4798   Standard Test Method for Accelerated Weathering Test Conditions and Procedures for Bituminous Materials (Xenon - ARC Method)

D 4799   Standard Test Method for Accelerated Weathering Test Conditions and Procedures for Bituminous Materials (Fluorescent UV and Condensation Method)

E 380      Excerpts from Standard Practice for Use of the International System of Units (SI) (the Modernized Metric System)

G ~~26~~155Standard ~~Test Method for~~ Practice for Operating Xenon Arc Light ~~- Exposure~~ Apparatus ~~(Xenon - ARC Type) With and Without Water~~ for Exposure of Non-metallic Materials

G ~~53~~154Standard ~~Test Method~~ Practice for Operating Fluorescent Light~~- and Water-Exposure~~ Apparatus ~~(Fluorescent UV-Condensation Type)~~ for UV Exposure of Nonmetallic Materials

2.2 – 2.3 [No change]

***Revise Section 8 to read as follows:***

**8. Test Methods:**

8.1 - 8.3 [No change]

8.4          Accelerated Weathering - Test Method G ~~53~~154 or G ~~26~~155 (Test Method A)

8.4.1 – 8.4.6 [No change]

***Revise Section 9 to read as follows:***

**9. Apparatus:**

9.1 – 9.2 [No change]

9.3          Procedure, G ~~53~~154, Section 9.

9.4 – 9.5 [No change]

**(Mod R5042 / AS)**

**TESTING APPLICATION STANDARD (TAS) 143-95**

**STANDARD REQUIREMENTS FOR WHITE ELASTOMERIC ROOF COATINGS USED**

**FOR COATING BUILT-UP ROOFS AND METAL ROOFING SYSTEMS**

***Revise Section 2 to read as follows:***

**2.            Referenced Documents:**

2.1          ASTM Standards

C 661     Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer

C 794     Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants

D 412     Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers - Tension

D 471     Test Method for Rubber-Effects of Liquids

D 562     Standard Test Method for Consistency of Paints Using the Stormer Viscometer

D 1079   Standard Definitions of Terms Relating to Roofing, Waterproofing, and Bituminous Materials

D 2196   Standard Test Methods for Rheological Properties of Non-Newtonian Material by Rotational (Brookfield) Viscometer

D 2697   Test Methods for Volume Nonvolatile Matter in Clear or Pigmented Coatings

D 2824   Standard Specification for Aluminum-Pigmented Asphalt Roof Coatings

E 96        Standard Test Methods for Water Vapor Transmission of Materials

E 380      Excerpts from Standard Practice for Use of the International System of Units (SI) (the Modernized Metric System)

G 21       Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi

G ~~26~~155Standard Practice for Operating Xenon Arc Light~~-Exposure~~ Apparatus ~~(Xenon-Arc Type) With and Without Water~~ for Exposure of Nonmetallic Materials

2.2 – 2.3 [No change]

**(Mod R5044 / AS)**

***Revise Section 7 to read as follows:***

**7. Test Methods:**

7.1 – 7.10 [No change]

7.11        *Accelerated Weathering* - Test Method G ~~26~~155, except as noted below.

7.11.1 – 7.11.4 [No change]

7.12 – 7.13 [No change]

**(Mod R5044 / AS)**

**TESTING APPLICATION STANDARD (TAS) 203-94**

**CRITERIA FOR TESTING PRODUCTS SUBJECT TO**

**CYCLIC WIND PRESSURE LOADING**

***Revise Section 6 to read as follows:***

**6.5** Assemblies shall be tested with no resultant failure or distress and shall have a recovery of at least 90% over maximum deflection. ~~Test Temperature. The test shall be conducted at a test temperature range of 59 to 95 degrees F (15 to 35 degrees C).~~

**6.6 Test Temperature**. The test shall be conducted at a test temperature range of 59 to 95 degrees F (15 to 35 degrees C).

**(Mod S6148 / AS)**