**Florida Supplement to the**

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

**FINAL VERSION**

**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) |

**(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]

 (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]

  (R5039, AS)

**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]

***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]

(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]

 (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]

***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]

 (R5044, AS)