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1.0 Subject

Passport Deck Boards

American Classic Deck Boards

2.0 Research Scope

2.1. Building Codes:

2012 International Building Code (IBC)

2012 International Residential Code (IRC)

2.2. Properties:

Structural Performance

Durability

Surface Burning

Decay Resistance

Termite Resistance

3.0 Description

3.1. General – *Passport* and *American Classic* deck boards are intended for use as a walking surface on exterior decks, balconies, porches, and walkways, including stairs.

3.2. Materials and Processes – *Passport* and *American Classic* deck boards are semi-capped co-extrusions of cellular Polyvinyl Chloride (PVC) with a Polyvinylidene Flouride (PVDF) capstock in the following colors: London Grey, Tuscan Red, Moroccan Cedar, Spanish Walnut, Desert Beige, Island Sand, and Harbor Grey.

3.3. Profiles – *Passport* deck boards have a solid or grooved cross-section with nominal dimensions of 1.0 inch thick by 5.50 inches wide. They are available with 0.175 inch wide x 0.400 inch deep slots cut into the longitudinal edges to accept hidden fasteners. See Figure 1 and Figure 2.

3.4. Walking Surface – *Passport* and *American Classic* deck boards use an embossed simulated wood-grain pattern surface.

4.0 Performance Characteristics

4.1. *Passport* and *American Classic* deck boards are rated for a uniform live load of 100 lb/ft^2 when installed on support framing spaced at 16 inches on center.

4.2. Deck boards used as stair treads are rated for the code-prescribed concentrated load equal to 300 lb when installed with a maximum span of 10 inches on center. Deck boards used as stair treads shall be installed in a minimum two-span condition.

4.3. *Passport* and *American Classic* solid deck boards have minimum wind uplift resistance rating of 100 lb/ft^2 when face-fastened with #8 x 2.5 inch deck screws to support framing spaced at 16 inches on center.

4.4. *Passport* and *American Classic* grooved deck boards have a minimum wind uplift resistance rating of 96 lb/ft^2 when installed on support framing spaced at 16 inches on center and fastened with one Grabber® *Deckmaster*™ *G5*™ hidden fastener at each joist using #8 (0.130 inch diameter) by 2.5 inch *Headcote*® stainless steel screws provided with the hidden fasteners.

4.5. Materials have a flame spread index not exceeding 200 when tested in accordance with ASTM E 84.

4.6. Materials used are deemed equivalent to preservative treated or naturally durable wood for resistance to weathering effects, attack from termites, and fungus decay.

4.7. Structural performance has been demonstrated for a temperature range from -20°F to 125°F.

5.0 Installation

Installation shall be in accordance with the manufacturer's installation instructions and this report. Where differences occur between this report and the manufacturer's installation instructions, this report shall govern.

5.1. Face-fastening of the solid *Passport* and *American Classic* deck boards shall be with #8 x 2.5 inch long deck screws. Two fasteners are required at every joist 0.75 inch from the side and at least 1.0 inch from the end of the board.

5.2. Grooved *Passport* and *American Classic* deck boards shall be fastened with two Grabber® *Deckmaster™ G5™* hidden fasteners at each joist, except for edge conditions where the *Deckmaster™ G5™*fastener is used on the interior edge and face-fastening as described in Section 5.1 is utilized on the exterior (perimeter) edge. *Deckmaster™ G5™*fasteners use a #8 (0.130 inch diameter) x 2.5 inch long *Headcote®* stainless steel screw provided with the *Deckmaster™ G5™* fasteners. Refer to the manufacturer's installation instructions.

6.0 Supporting Evidence

6.1. Manufacturer's drawings and installation instructions.

6.2. Reports of testing demonstrating compliance with ICC-ES AC174, Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails), approved January 2012.

6.3. Quality control manual in accordance with ICC-ES AC10, Acceptance Criteria for Quality Documentation, dated June 2014.

7.0 Conditions of Use

The *Passport* and *American Classic* deck board applications identified in this report are deemed to comply with the intent of the provisions of the referenced building codes subject to the following conditions:

7.1. *Passport* and *American Classic* deck boards identified in this report are limited to use in Type V-B (5B) construction in the IBC and dwellings regulated by the IRC.

7.2. Deck boards placed at an angle other than 90 degrees to the supporting joist will require support framing at a reduced spacing such that the span of the deck board does not exceed the span identified in Section 4.3.

7.3. The wind uplift resistance rating recognized in this report is based on attachment to treated Southern Pine framing (specific gravity, G=0.55). Installation on wood framing with a lesser specific gravity may result in a lower wind uplift rating.

7.4. Where required by the building official, engineering calculations and details shall be provided. The calculations shall verify that the anchorage complies with the building code for the type of framing and condition of the supporting construction.

7.5. Deck boards used as stair treads shall be a continuous deck board installed over a minimum two-span support with a maximum span of 10 inches on center. Grooved deck boards shall not be used for stair treads.

7.6. Compatibility of the supporting construction materials with all fasteners, metal post mount components, and other hardware components is subject to approval by the code official.

7.7. Only those types of fasteners and fastening methods described in this report have been evaluated for the installation of these deck boards; other methods of attachment are outside the scope of this report.

7.8. All products are manufactured in Milwaukee, Wisconsin by Gossen Corporation in accordance with the manufacturer's approved quality control system with inspections by Architectural Testing (IAS AA-676).

8.0 Identification

Passport and *American Classic* deck boards produced in accordance with this report shall be identified with labeling on the individual deck boards that includes the following information:

8.1. Name and/or trademark of the manufacturer;

8.2. The following statement: "See CCRR-0156 at www.ati-es.com for uses and performance levels."; and

8.3. The Architectural Testing Code Compliance Research Report mark and number (CCRR-0156).

9.0 Code Compliance Research Report Use

9.1. Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

9.2. Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product or manufacturer by Architectural Testing.

9.3. Reference to the Architectural Testing internet web site address at www.ati-es.com is recommended to ascertain the current version and status of this report.

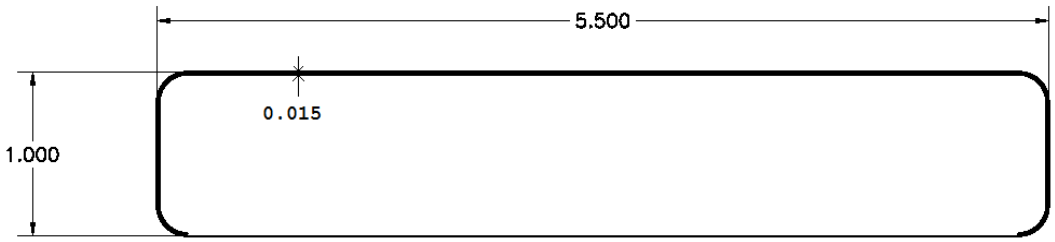

Figure 1 – *Passport* and *American Classic* Deck Board

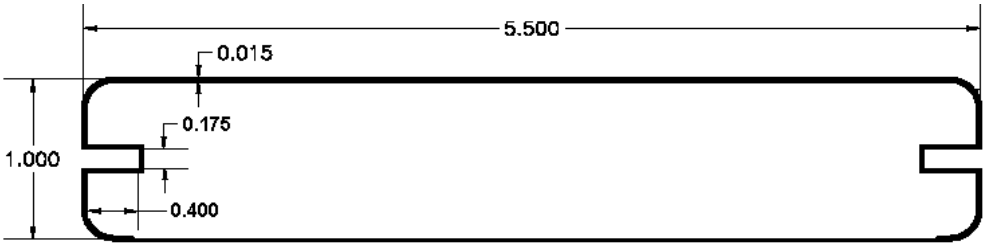

Figure 2 – *Passport* and *American Classic* Grooved Deck Board

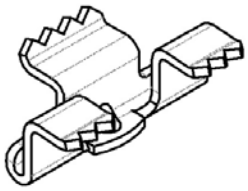

Figure 3 – Grabber® *Deckmaster™ G5™* Hidden Fastener