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## 1.0 Subject

*WeatherReady Solid Deckboard 868*

## 2.0 Research Scope

### 2.1 Building Codes:

2006 International Building Code® (IBC)

2006 International Residential Code® (IRC)

### 2.2 Properties Evaluated:

Structural Performance

Durability

Surface Burning

## 3.0 Description

3.1 General – WeatherReady 868 deckboards are an extruded solid cellular poly vinyl chloride (PVC) product that is intended for use as a walking surface on exterior decks, balconies, porches, and walkways, including stairs.

3.2 WeatherReady 868 deckboards have a solid rectangular profile measuring 1 inch thick by 5½ inches wide. The edges are rounded with a 3/16 inch radius. The two wide faces are embossed with a simulated wood grain. See Figure 1.

3.3 WeatherReady 868 deckboards are manufactured in sand, golden rod, and slate colors.

## 4.0 Performance Characteristics

4.1 WeatherReady 868 deckboards are rated for a uniform live load of 100 lbs/ft<sup>2</sup> when installed on support framing spaced at a maximum of 16 inches on center.

4.2 WeatherReady 868 deckboards used as stair treads are rated for the code-prescribed concentrated load equal to 300 lb. when a continuous deck board is installed over a two span support measuring a maximum of 10 inches on center.

4.3 WeatherReady 868 deckboards have a minimum wind uplift resistance rating of 100 lb/ft<sup>2</sup> when installed on support framing spaced at 16 inches on center.

4.4 WeatherReady 868 deckboards have a flame spread index of 20 when tested according to ASTM E 84. The referenced criterion, AC174, requires a flame spread index not exceeding 200.

4.5 WeatherReady 868 deckboards are deemed equivalent to preservative-treated or naturally durable wood for resistance to weathering effects, attack from termites, and fungus decay.

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

## 5.0 Installation

5.1 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.

5.2 Face fastening of the WeatherReady 868 deckboards shall be with #8 x 2½ inch long deck screws. Two fasteners are required at every joist ¾" from the side and at least 1" from the end of the board.

## 6.0 Supporting Evidence

6.1 Manufacturer's drawings and installation instructions.

6.2 Reports of testing in accordance with ICC-ES AC174 "Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails)", effective March 1, 2007.

6.3 Quality control manual in accordance with ICC-ES Acceptance Criteria for Quality Control Manuals, AC10, effective March 1, 2007.



7.0 Conditions of Use

WeatherReady 868 deckboard 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 WeatherReady 868 deckboards are limited to use in Type V-B (5B) construction in the IBC and dwellings regulated in the IRC.

7.2 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.

7.3 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.

7.4 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.

7.5 Compatibility of fasteners with the supporting structure including chemically treated wood or in a saltwater environment is not within the scope of this report.

7.6 Only those types of fasteners and fastening method described in this report have been evaluated for the installation of WeatherReady 868 deckboards, other methods of attachment are outside the scope of this report.

7.7 All products are manufactured in Milwaukee, Wisconsin by the Gossen Corporation in accordance with the manufacturer's approved quality control system. Third party inspections are conducted by Architectural Testing, Inc. (ATI-AA676).

8.0 Identification

WeatherReady 868 deckboards produced in accordance with this report shall be identified with labeling on the individual deck boards that includes the following information: product name, manufacturer, the mark of the independent inspection agency ATI-AA676, and the Code Compliance Research Report Number "CCRR-0124".

9.0 Code Compliance Research Report Use

9.1 Approval for 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, Inc.

9.3 Reference to the Architectural Testing internet web site address at [www.archtest.com](http://www.archtest.com) is recommended to ascertain the current version and status of this report.

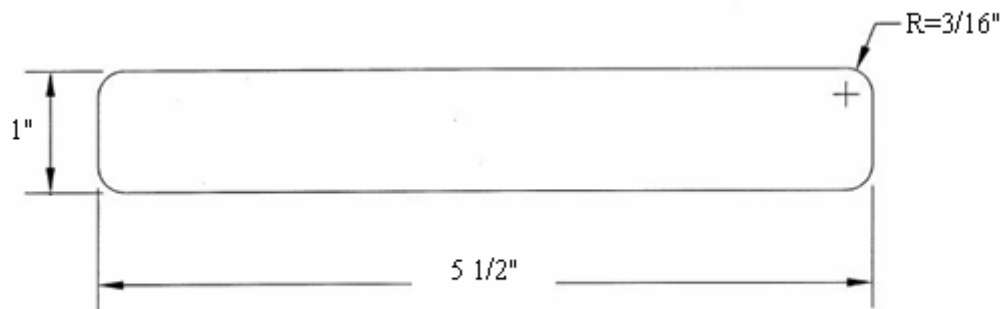


Figure 1 - WeatherReady 868 Deckboard Profile