



## Code Compliance Research Report

## CCRR-0124

Subject to Renewal: 01/28/11  
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Page 1 of 3

**Gossen Corporation, Inc.**  
2030 West Bender Rd.  
Milwaukee, WI 53209  
800-558-8984

[www.gossencorp.com](http://www.gossencorp.com)

### 1.0 Subject

*WeatherReady™ 868 Deckboard*

*WeatherReady™ 868K Deckboard*

### 2.0 Research Scope

#### 2.1 Building Codes:

2009 International Building Code® (IBC)

2009 International Residential Code® (IRC)

#### 2.2 Properties Evaluated:

Structural Performance

Durability

Surface Burning

### 3.0 Description

3.1 General – *WeatherReady™ 868*, *WeatherReady™ 868K* deck boards 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.

3.2 The deck boards have a solid rectangular profile measuring 1 inch thick by 5½ inches wide. The edges are rounded with a  $\frac{3}{16}$  inch radius. *WeatherReady™* deck boards are embossed with a simulated wood grain on both wide faces. They are available with  $\frac{3}{16}$  inch wide x  $\frac{13}{32}$  inch deep slots cut into the longitudinal edges to accept hidden fasteners. Gossen Corporation grooved deck board is identified as the *WeatherReady™ 868K*. (See Figure 1)

3.3 All *WeatherReady™* deck boards are manufactured in sand, golden rod, or slate colors. An optional solar reflective coating can be applied to the boards which creates a matte finish. *WeatherReady™* deck boards that receive this four sided coating continue to be identified as sand, golden rod, and slate colors.

### 4.0 Performance Characteristics

4.1 *WeatherReady™* deck boards 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™* solid deck boards used as stair treads are rated for the code-prescribed concentrated load equal to 300 pounds when a continuous deck board is installed over a two-span support measuring a maximum of 10 inches on center. Grooved deck boards shall not be used for stair treads.

4.3 *WeatherReady™* solid deck boards have a minimum wind uplift resistance rating of 100 lb/ft<sup>2</sup> when face-screwed with #8 x 2½ inch deck screws to support framing spaced at 16 inches on center. *WeatherReady™* grooved deck boards have a minimum wind uplift resistance rating of 190 lb/ft<sup>2</sup> when installed on support framing spaced at 16 inches on center and fastened with one Tiger Claw® TC-G stainless steel hidden fastener at each joist using #7 ( $\frac{1}{8}$  inch diameter) by  $1\frac{5}{8}$  inch stainless steel screws provided with the fasteners.

4.4 *WeatherReady™* deck boards 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™* deck boards 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 -20°F to 135°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 deck boards shall be with #8 x 2½ inch deck screws. Two fasteners are required at every joist ¾ inch from the side and a maximum of 1 inch from the end of the board. Grooved deck boards shall be fastened with one Tiger Claw® TC-G hidden fastener at each joist using #7 (1/8 inch diameter) by 1½ inch stainless steel screws provided with the fasteners.

### **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 June 1, 2009.

6.3 Quality control manual in accordance with ICC-ES Acceptance Criteria for Quality Control Manuals, AC10, effective March 1, 2009.

### **7.0 Conditions of Use**

*WeatherReady™* 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 *WeatherReady™* deck boards are limited to use in Type V-B (5B) construction in the IBC and dwellings regulated in 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 4.1.

7.3 The wind uplift resistance rating recognized in this report is based on attachment to treated Southern Pine framing (average specific gravity = 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 fasteners with the supporting structure including chemically treated wood or in a saltwater environment is not within the scope of this report.

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 deck boards are manufactured in Cartersville, Georgia by the Gossen Corporation in accordance with the manufacturer's approved quality control system. Third party inspections are conducted by Architectural Testing, Inc. (ATI-AA 676).

### **8.0 Identification**

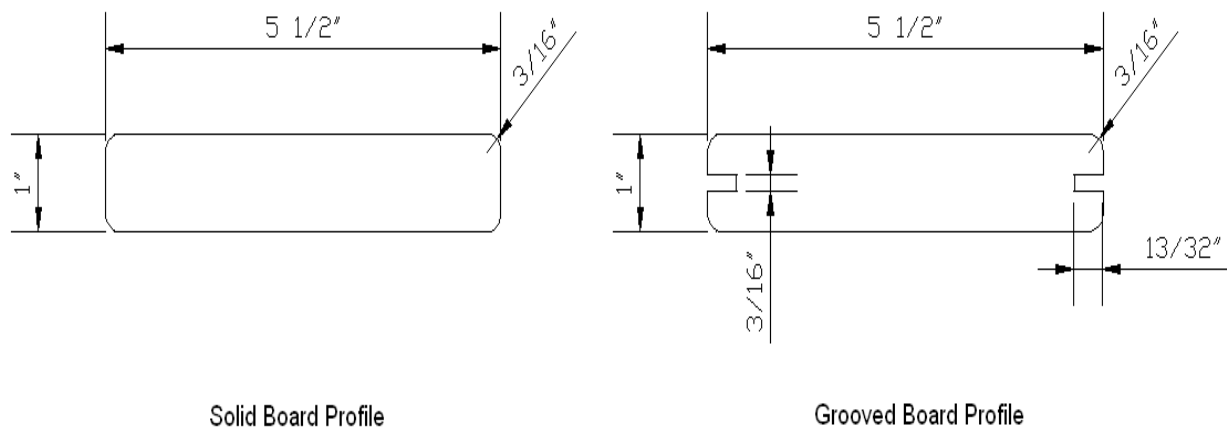
Deck boards produced in accordance with this report shall be identified with labeling on the individual deck boards that includes the following information: product name, manufacturer, the mark of the independent inspection agency ATI-AA 676, and the Code Compliance Research Report Number "CCRR-0124".

### **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™ deck board profiles**