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DIVISION: 06 00 00 – WOOD, PLASTICS AND COMPOSITES
Section: 06 50 00 – Structural Plastics
Section: 06 53 00 – Plastic Decking

REPORT HOLDER:
CMI Limited Company
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REPORT SUBJECT:
Lumberock® Artisan Deck Board
Lumberock® Classic Deck Board
Lumberock® Coastal Deck Board
Lumberock® Genesis Deck Board

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2024, 2021, 2018 *International Building Code*® (IBC)
- 2024, 2021, 2018 *International Residential Code*® (IRC)

NOTE: This report references the most recent Code edition cited. Section numbers in earlier versions of the codes may differ.

1.2 The Lumberock® deck boards have been evaluated for the following properties:

- Structural performance
- Durability
- Surface burning characteristics
- Decay resistance
- Termite resistance

1.3 Lumberock® deck boards are intended for use as a walking surface on exterior decks, balconies, porches, and walkways of IBC Type V-B construction and in dwellings regulated by the IRC. The deck boards may be used in buildings of Type III, IV, or V construction as described in Section 6.3 of this Report.

2.0 STATEMENT OF COMPLIANCE

The Lumberock® deck boards comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

2.1 2024 IBC and IRC Evaluation Reports: The Intertek CCRR is an *Evaluation Report* for approval of an alternate material, design, or method of construction in accordance with Section 104.2.3.6.1 of the 2024 IBC and Section R104.2.2.6.1 of the 2024 IRC.

3.0 DESCRIPTION

3.1 The Lumberock® deck boards are provided as a nominal 5/4 inch x 6 inch profile having square or grooved edges and as a nominal 2 inch x 6 inch profile with square edges. Lumberock® Artisan, Classic and Genesis deck boards have an embossed simulated wood-grain pattern on one side and are provided in ten colors: anchor gray, black, canyon tan, cedar redwood, chocolate-brown, forest green, gray, harbor wood, light gray, putty, weathered wood, and white. Lumberock® Coastal deck boards have an embossed simulated wood grain pattern on two sides and are provided in seven colors: Ashwood, Boardwalk, Driftwood, Lighthouse, Pewter, Riverstone, and Sandbar. See Figures 1 through 3 for deck board profiles.

4.0 PERFORMANCE CHARACTERISTICS

4.1 The deck boards are rated for a uniform live load as shown in Table 2.

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 indicated in Table 2. Deck boards used as stair treads shall be installed in a minimum two-span condition.

4.3 The deck boards have a flame spread index not greater than 200 when tested in accordance with ASTM E84.



4.4 The materials used in production of the deck boards are deemed equivalent to preservative treated or naturally durable wood for resistance to weathering effects, attack from termites and fungus decay.

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

5.0 INSTALLATION

The Lumberock® deck boards must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

When installed perpendicular to joists, the deck boards must span no more than the maximum span indicated in Table 2. The deck boards must have a minimum 1/8 in. gap between long edges. Board ends must join over a double joist. 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 that noted in Table 2.

The deck boards are attached with two minimum #10 x 2-1/2 in. corrosion resistant wood screws at each joist. Fasteners must be placed a minimum of 3/4 in. from edges and ends.

Maximum span, live load rating and allowable wind uplift are as described in Table 2.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 Compatibility of the supporting construction materials with all metal fasteners are subject to approval by the building official.

6.3 Installation is permitted in buildings of Type III, IV, or V construction in accordance with IBC Section 705.2.2. Where installation extends to within 5 feet of the line used to determine the fire separation distance, sprinkler protection shall be provided in accordance with IBC Section 705.2.3.1, Exception 3.

6.4 The deck boards are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Manufacturer's drawings and installation instructions.

7.2 Reports of testing and engineering evaluation demonstrating compliance with the performance requirements of ASTM D7032-21.

7.3 Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report.

8.0 IDENTIFICATION

The Lumberock® Artisan, Classic, Coastal and Genesis deck boards are identified with the manufacturer's name (CMI Limited Company), the product name, "ASTM D7032," the statement: "See CCRR-0551 for ratings," the Intertek Mark as shown below, the Intertek Control number, and the Code Compliance Research Report number (CCRR-0551).



9.0 OTHER CODES

This section is not applicable.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 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.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.





TABLE 1 – PROPERTIES EVALUATED

PROPERTY	APPLICABLE CODE SECTIONS ¹	
	IBC	IRC
Physical properties	2612	R507.2.2
Surface burning characteristics	2612.3	R507.2.2.2
Combustible projections	705.2	R302.1
Live loads	1607	R301.5
Wind loads	1609	R301.2.1
Anchorage	1604.8.3	R507.8 R507.9

¹Section numbers pertain to the most recent edition cited in Section 1.1 of this Report.

TABLE 2 – DECK BOARD RATINGS²

Lumberock® Deck Boards	Stair Tread Span ³ (in.)	Maximum Span (in.)	Allowable Live Load Capacity (psf) ¹	Allowable Wind Uplift Capacity (psf)
Artisan, Classic, and Genesis 5/4 x 6 deck boards	8	16	100	150
Artisan and Classic 2 x 6 deck boards	Not permitted	24	85	150
Coastal 5/4 x 6 deck boards	12	24	154	398
Coastal 2 x 6 deck boards	12	24	158	290

¹The maximum allowable loads indicated include applicable end use factors. No additional adjustments should be taken.

²See Section 5 for fastening requirements.

³Stair tread span is based on a continuous deck board over two or more equal spans (3 supports).

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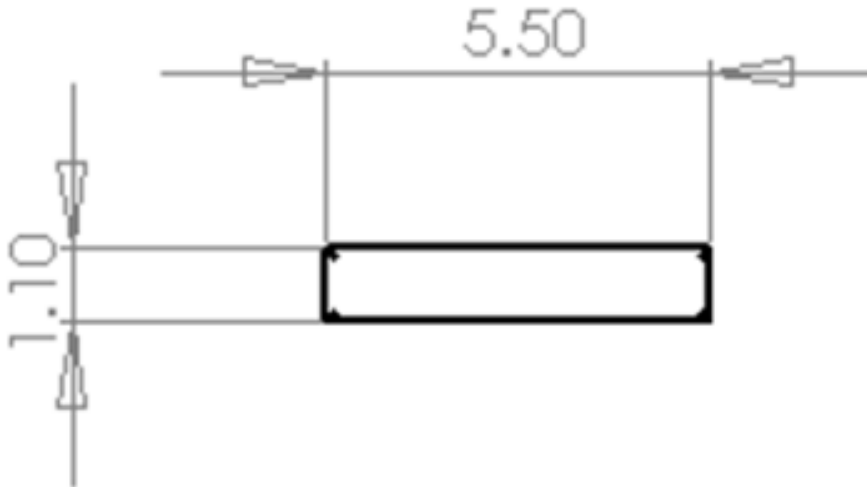


FIGURE 1 – ARTISAN, CLASSIC, GENESIS 5/4 X 6 DECK BOARD PROFILE



FIGURE 2 – COASTAL 5/4 X 6 DECK BOARD PROFILE

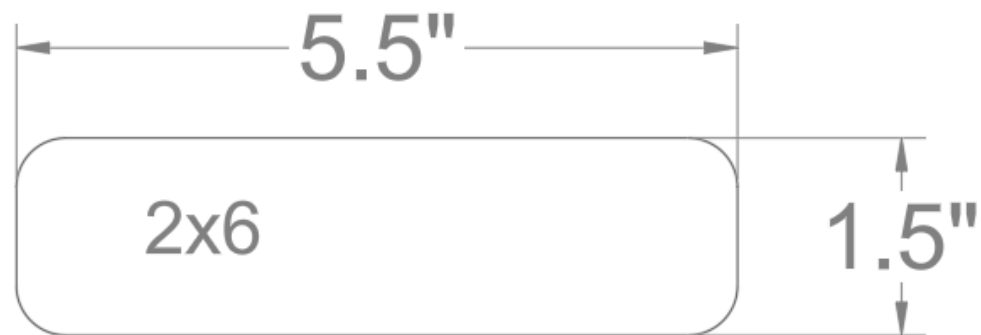


FIGURE 3 – ARTISAN, CLASSIC, COASTAL, 2 X 6 DECK BOARD PROFILE