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ICC-ES Evaluation Report

ESR-4310

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Issued 04/2019

This report is subject to renewal 04/2020.

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

SECTION: 06 50 00—STRUCTURAL PLASTICS

DIVISION: 06 53 00—PLASTIC DECKING

REPORT HOLDER:

INTEPLAST GROUP CORPORATION

EVALUATION SUBJECT:

DÉCOR DECK



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



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A Subsidiary of the International Code Council®

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

Section: 06 50 00—Structural Plastics

Section: 06 53 00—Plastic Decking

REPORT HOLDER:

INTEPLAST GROUP CORPORATION

EVALUATION SUBJECT:

DÉCOR DECK

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015 and 2012 *International Building Code*® (IBC)
- 2015 and 2012 *International Residential Code*® (IRC)

Properties evaluated:

- Structural
- Durability
- Surface-burning characteristics

2.0 USES

The Décor Deck is used as deck boards for exterior balconies, porches, decks, stair treads and other exterior walking surfaces of Type V-B (IBC) construction and in structures constructed in accordance with the IRC.

3.0 DESCRIPTION

3.1 Décor Deck:

The Décor Deck is co-extruded material composed of cellular PVC (Polyvinyl Chloride). Except for the bottom surface, the other three surfaces are capped with a co-extruded styrene copolymer. The top surface has an embossed wood grain pattern with print and protection coating. The Décor Deck is available in Spanish Walnut, Moroccan Cedar, London Grey, and Tuscan Cherry colors. The Décor Deck has a 1-inch (25.4 mm) uniform thickness and a 5¹/₂-inch (140 mm) width.

3.2 Fasteners:

The fasteners must be corrosion resistant #7 wood screws complying with Appendix Table L3 of the 2015 and 2012 *ANSI/AWC National Design Specification*® (NDS) for Wood Construction. The screws must be a minimum of 2.25 inches (57 mm) long.

3.3 Durability:

When subjected to weathering, insect attack and other decaying elements, the Décor Deck is equivalent in

durability to preservative-treated or naturally durable lumber. Accordingly, the material is permitted to be used as an alternative to preservative-treated or naturally durable lumber on exterior decks, porches, balconies and stair treads, as applicable. The Décor Deck has been evaluated for use in ambient air temperatures between -20°F (-29°C) and 125°F (52°C).

3.4 Surface-burning Characteristics:

When tested in accordance with ASTM E84, the Décor Deck has a flame-spread index no greater than 200.

4.0 DESIGN AND INSTALLATION

4.1 Design:

The Décor Deck, when used as deck boards, has an allowable load capacity (ASD) of 100 psf (4.79 MPa) when subjected to gravity (positive) or wind (negative) loads. Allowable capacities have been adjusted for durability. No further increases are permitted.

If the specific gravity of the wood supports is less than 0.55, then the minimum embedment length of the fasteners installed into wood supports must be determined based on the withdrawal capacity in accordance with Section 12.2.2 of the NDS-15 (Section 11.2.2 of the NDS-12 for the 2012 IBC).

The Décor Deck, when used as stair treads, is sufficient to resist the code-prescribed concentrated load of 300 lbf (1.33kN).

4.2 Installation:

The Décor Deck must be installed perpendicular to wood supports with two fasteners per support. The fasteners must be installed a minimum of 1.5 inches (38.1 mm) from the ends and edges of the deck boards. Multiple wood supports must be used to provide adequate surface for fastener embedment.

The Décor Deck must be installed in a minimum two-span condition where the maximum span must be 16 inches (406 mm) on center when used as deck boards and 12 inches (305) on center when used as stair treads. Maximum span is measured center-to-center of the supporting construction.

The Décor Deck must be installed with a minimum ³/₁₆-inch gap (4.8 mm) between ends; except when the ambient temperature is above 75°F (24°C), a gap is not required. The deck boards must be installed with a minimum ¹/₄-inch gap (6.35 mm) between edges.

5.0 CONDITIONS OF USE

The Décor Deck described in this report complies with, or is a suitable alternative to what is specified in, those codes

listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The Décor Deck is limited to exterior use as deck boards for balconies, porches, decks and stair treads of Type-VB (IBC) construction and structures constructed in accordance with the IRC.
- 5.2 Installation must comply with this evaluation report, the manufacturer's published instructions and the applicable code. When the manufacturer's published installation instructions differ from this report, this report governs.
- 5.3 Since the Décor Deck does not contain wood or other cellulosic material, they have not been evaluated for termite and decay resistance, including Formosan termite attack.
- 5.4 The use of the Décor Deck as a component of a fire-resistance-rated assembly is outside the scope of this report.
- 5.5 The compatibility of the fasteners, metal post mount components and other metal hardware with the supporting construction, including chemically treated wood, is outside the scope of this report
- 5.6 Adjustment factors outlined in the AWC *National Design Specification*® (NDS) for Wood Construction, as applicable, and the applicable codes must not be applied to the allowable capacity and maximum spans of the Décor Deck.
- 5.7 Only those types of fasteners and fastening methods described in this report have been evaluated for the installation of the Décor Deck. Other methods of attachment are outside the scope of this report.
- 5.8 Décor Deck used as deck boards must be installed in the minimum of a two-span condition. Deck boards used as stair treads must be installed in a minimum of a two-span condition.
- 5.9 The Décor Deck must be directly fastened to supporting construction. Where required by the code official, engineering calculations and construction documents consistent with this report must be submitted for approval. The calculations must verify

that the supporting construction complies with the applicable building code requirements and is adequate to resist the loads imparted upon it from the products and systems discussed in this report. The documents must contain details of the attachment to the supporting structure consistent with the requirements of this report. The documents must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.

- 5.10 The Décor Deck is produced in Glendale, Wisconsin under an approved quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails) (AC174), dated January 2012 (editorially revised December 2014).

7.0 IDENTIFICATION

- 7.1 The Décor Deck must be identified by a label on the packaging bearing the Inteplast Group Corporation name and address, the product name, the date of manufacturing, the span rating for use as a deck board and stair tread, as applicable, and the evaluation report number (ESR-4310).
- 7.2 The report holder's contact information is the following:

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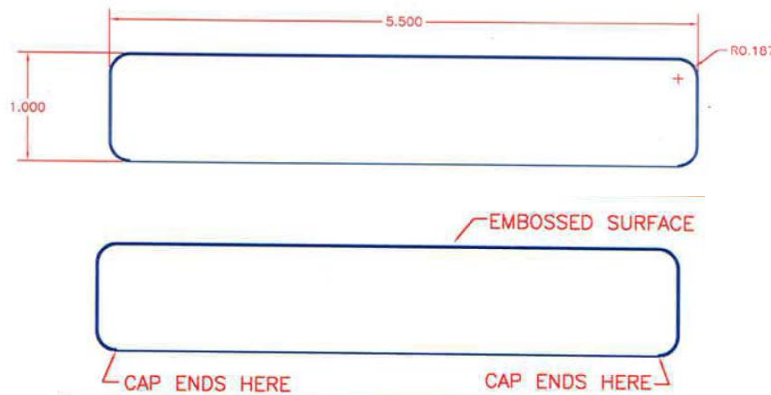


FIGURE 1—DÉCOR DECK