

ICC-ES Evaluation Report

ESR-3326

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DIVISION: 06 00 00—WOOD, PLASTICS, AND COMPOSITES

Section: 06 05 23.13—Nails

REPORT HOLDER:

PASLODE, AN ILLINOIS TOOL WORKS COMPANY

EVALUATION SUBJECT:

PASLODE AND DUO-FAST GALVANIZED NAILS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2012, 2009, and 2006 *International Building Code*® (IBC)
- 2012, 2009, and 2006 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)†

†The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Property evaluated:

Corrosion resistance

2.0 USES

The Paslode and Duo-Fast galvanized nails with a proprietary zinc coating are used for wood-framing, general wood-to-wood framing, and connections where one or more of the members is wood. The nails may be used where the fastener is required to exhibit resistance to environmental corrosion or corrosion by chemically treated wood. The galvanization is considered an alternative to hot-dip zinc galvanization complying with ASTM A153, Class D.

3.0 DESCRIPTION

Paslode and Duo-Fast galvanized nails are recognized in [ESR-2126](#). This evaluation report recognizes the use of a proprietary mechanically deposited zinc (galvanized) coating complying with ASTM B695, Class 55, Type 1, applied to the Paslode and Duo-Fast nails. See Table 1 for descriptions of the galvanized nails.

4.0 DESIGN AND INSTALLATION

Structural applications for the Paslode and Duo-Fast galvanized nails are described in [ESR-2126](#). The Paslode and Duo-Fast galvanized nails may be used in wood treated with micronized copper and azole in accordance with [ESR-2240](#) with a maximum retention of 0.16 pcf (2.6 kg/m³) or preservatives with lesser corrosion effects.

The Paslode and Duo-Fast galvanized nails may also be used in wood treated with waterborne alkaline copper quaternary with a maximum retention of 0.40 pcf (6.4 kg/m³) or preservatives with lesser corrosion effects. The Paslode and Duo-Fast galvanized nails qualify for use under the Exposure Conditions listed in Table 2.

5.0 CONDITIONS OF USE

The Paslode and Duo-Fast galvanized nails described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** The fasteners must be installed in accordance with this evaluation report and [ESR-2126](#); the manufacturer's published installation instructions; and the applicable code. The instructions within this report govern if there are any conflicts between the manufacturer's published installation instructions and this report.
- 5.2** Use of the nails in contact with fire-retardant-treated wood is outside the scope of this report.
- 5.3** The structural performance of the nails is limited to that documented in [ESR-2126](#).
- 5.4** This report is limited to nails with a mechanically deposited zinc (galvanized) coating in accordance with ASTM B695, Class 55, Type 1.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Corrosion-resistant Fasteners and Evaluation of Corrosion Effect of Wood Treatment Chemicals (AC257), dated October 2009 (editorially revised May 2012).

7.0 IDENTIFICATION

- 7.1** The nails are identified by labels on the cartons bearing the manufacturer's brand name (Paslode or Duo-Fast), the product name, the nail length and diameter, and the evaluation report number (ESR-3326). The cartons are also identified as described in [ESR-2126](#).
- 7.2** The report holder's contact information is the following:

PASLODE, AN ILLINOIS TOOL WORKS COMPANY
888 FOREST EDGE DRIVE
VERNON HILLS, ILLINOIS 60061
(847) 634-1900
www.paslode.com

TABLE 1—PASLODE AND DUO-FAST MECHANICALLY GALVANIZED NAILS

PRODUCT NUMBER	LENGTH AND SHANK DIAMETER (inches)	REFERENCE REPORT
650197	1.5 x 0.131	ESR-2126
650014	1.5 x 0.148	ESR-2126
650106	2.5 x 0.148	ESR-2126
650198	2.5 x 0.162	ESR-2126

For **SI**: 1 inch = 25.4 mm.

TABLE 2—EXPOSURE CONDITIONS FOR PASLODE AND DUO-FAST MECHANICALLY GALVANIZED NAILS

EXPOSURE CONDITION	TYPICAL APPLICATIONS	RECOGNITION LIMITATIONS
1	Treated wood in dry use applications	Limited to use where equilibrium moisture content of the chemically treated wood meets the dry service conditions as described in the NDS.
2	Aboveground with coastal salt exposure	Limited to clean untreated wood and materials without known corrosion effects greater than that of clean untreated wood.
3	General construction	Limited to freshwater and chemically treated wood exposure, i.e., no saltwater exposure.
4	Coastal construction	No limitation on use with respect to moisture and chemically treated wood except that chemical wood treatment must have the same or lesser corrosion effects as qualification conditions.