

ICC-ES Evaluation Report


ESR-1482

Reissued August 2024

Subject to renewal August 2025

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<p>DIVISION: 06 00 00 — WOOD, PLASTICS AND COMPOSITES</p> <p>Section: 06 05 23 — Wood, Plastic, and Composite Fastenings</p> <p>Section: 06 05 23.13 — Nails</p>	<p>REPORT HOLDER: BOSTITCH FASTENING SYSTEMS</p> <p>ADDITIONAL LISTEE: DEWALT INDUSTRIAL TOOL CO.</p>	<p>EVALUATION SUBJECT: GALVANIZED NAILS</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2012, 2009, and 2006 [International Building Code® \(IBC\)](#)
- 2012, 2009, and 2006 [International Residential Code® \(IRC\)](#)

Property evaluated:

- Corrosion resistance

2.0 USES

Galvanized nails with a proprietary zinc coating identified as ThickCoat™ are used for wood-framed, wood-structural panel shear walls and diaphragms, general wood-to-wood framing, and connections where one or more of the members are wood. The nails may be used where the fastener is required to exhibit corrosion resistance to environmental or chemically treated wood corrosion. The galvanization is considered an alternative to hot-dip zinc-galvanized fasteners complying with ASTM A153, Class D.

3.0 DESCRIPTION

The structural properties of the galvanized nails are recognized in [ESR-1539](#). This evaluation report recognizes the use of a proprietary zinc coating applied to these nails. The zinc coating may be applied using either a proprietary zinc electro-galvanization process or a proprietary zinc mechanical galvanization process. The nails have a uniform yellow iridescent or clear chromate coating. See [Tables 1A](#) and [1B](#) for applicable product numbers.

4.0 INSTALLATION

General installation requirements for the galvanized nails are described in [ESR-1539](#). The ThickCoat™ galvanized nails may be used in Exposure Conditions 1 through 4 with typical applications and recognition limitations as shown in [Table 2](#). The galvanized nails may be used in wood treated with water-borne alkaline copper quaternary (ACQ) preservatives with a maximum retention of 0.25 pounds per cubic foot (pcf) (4.0 kg/m³) and preservatives with lesser corrosion effects.

5.0 CONDITIONS OF USE:

The galvanized nails as 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:

The fasteners must be installed in accordance with this evaluation report, the report holder'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.

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 August 2013).

7.0 IDENTIFICATION

7.1 Packages of galvanized nails are identified with the company name (BOSTITCH® or DeWALT®), the evaluation report number (ESR-1482), the part number as shown in [Table 1A](#) or [1B](#), and other identifiers described in [ESR-1539](#), as applicable.

7.2 The report holder's contact information is the following:

BOSTITCH FASTENING SYSTEMS
701 EAST JOPPA ROAD
TOWSON, MARYLAND 21286
(800) 556-6696
www.bostitch.com

7.3 The additional listee's contact information is the following:

DEWALT INDUSTRIAL TOOL CO.
701 EAST JOPPA ROAD
TOWSON, MARYLAND 21286
(800) 4-DeWALT
www.dewalt.com

TABLE 1A—BOSTITCH® GALVANIZED NAILS

PRODUCT NUMBER	DESCRIPTION (length x diameter, shank)
0.092-inch diameter	
C6P90BDG	2.00x0.092, smooth
C6R90BDG	2.00x0.092, ring
C7P90BDG	2.19x0.092, smooth
C7R90BDG	2.19x0.092, ring
C8P90BDG	2.50x0.092, smooth
C8R90BDG	2.50x0.092, ring
0.099-inch diameter	
C6P99DG	2.00x0.099, smooth
C6R99BCG	2.00x0.099, ring
C7R99BCG	2.25x0.099, ring
C8P99DG	2.50x0.099, smooth
C8R99BCG	2.50x0.099, ring
AC6DSP099GAL	2.00x0.099, screw
AC7DSP099GAL	2.15x0.099, screw
AC8DSP09972GAL	2.50x0.099, screw
0.113-inch diameter	
S6DGAL-FH	2.00x0.113, smooth
S6DR113GAL-FH	2.00x0.113, ring
S6DGAL-2M	2.00x0.113, smooth

PRODUCT NUMBER	DESCRIPTION (length x diameter, shank)
S6DR113GAL	2.00x0.113, ring
S8DGAL	2.375x0.113, smooth
S8DRGAL	2.375x0.113, ring
C8R113DG	2.375x0.113, ring
AC6DGAL	2.00x0.113, smooth
AC4DSPGAL-14M	1.50x0.113, screw
PT-8D113GFH2	2.375x0.113, smooth
PT-8DR113GFH2	2.375x0.113, ring
RH-S6DRHDG	2.00x0.113, ring
RH-S8D113HDG	2.375x0.113, smooth
RH-S8DR113HDG	2.375x0.113, ring
0.120-inch diameter	
S8DGAL-FH	2.375x0.120, smooth
S8DRGAL-FH	2.375x0.120, ring
S10DGAL-FH	3.00x0.120, smooth
S10DSGAL-FH	3.00x0.120, screw
S10DRGAL-FH	3.00x0.120, ring
S12DGAL-FH	3.25x0.120, smooth
S10DGAL	3.00x0.120, smooth
S10DRGAL	3.00x0.120, ring
S10DSGAL	3.00x0.120, screw
S12DGAL	3.25x0.120, smooth
S12DSGAL	3.25x0.120, screw
S12DSGAL-FH	3.25x0.120, screw
C10P120DG	3.00x0.120, smooth
C10S120DG	3.00x0.120, screw
C12P120DG	3.25x0.120, smooth
C12S120DG	3.25x0.120, screw
AC12DSPGAL	3.25x0.120, screw
PT-10D120GFH2	3.00x0.120, smooth
PT-10DR120GFH2	3.00x0.120, ring
RH-S10D120HDG	3.00x0.120, smooth
RH-S10DR120HDG	3.00x0.120, ring
0.131-inch diameter	
S16D131GAL-FH	3.5x0.131, smooth
S8D131GAL-FH	2.50x0.131, smooth
S10D131GAL-FH	3.00x0.131, smooth
S12D131GAL-FH	3.25x0.131, smooth
S12DR131GAL-FH	3.25x0.131, ring
S12DS131FAL-FH	3.25x0.131, screw
S8D131GAL	2.50x0.131, smooth
S8DR131GAL	2.50x0.131, ring
S10D131GAL	3.00x0.131, smooth
S10DR131GAL	3.00x0.131, ring
S16D131GAL	3.5x0.131, smooth
S16DS131GAL	3.5x0.131, screw
C10P131DG	3.00x0.131, smooth
C10S131DG	3.00x0.131, screw
C16P131DG	3.5x0.131, smooth
C20P131DG	4.00x0.131, smooth
AC8D131GAL	2.50x0.131, smooth
PT-MC13115G-1M	1.50x0.131, smooth
PT-MC13125G-1M	2.50x0.131, smooth

PRODUCT NUMBER	DESCRIPTION (length x diameter, shank)
RH-MC13115G-S	1.50x0.131, smooth
RH-MC13125G-S	2.50x0.131, smooth
B15131G-MC	1.50x0.131, smooth
B25131G-MC	2.50x0.131, smooth
PT-12D131GFH2	3.25x0.131, smooth
PT-16D131GFH2	3.50x0.131, smooth
RH-S8D131HDG	2.50x0.131, smooth
RH-S10D131HDG	3.00x0.131, smooth
RH-S10DR131HDG	3.00x0.131, ring
RH-S12D131HDG	3.25x0.131, smooth
RH-S16D131HDG	3.50x0.131, smooth
0.148-inch diameter	
PT-MC14815G-1M	1.50x0.148, smooth
PT-MC14825G-1M	2.50x0.148, smooth
PT-MC14825GAL	2.50x0.148, smooth
RH-MC14815G-S	1.50x0.148, smooth
RH-MC14825G-S	2.50x0.148, smooth
B15148G-MC	1.50x0.148, smooth
B25148G-MC	2.50x0.148, smooth
0.162-inch diameter	
ACL16D162BDPG	3.5x0.162, smooth
PT-MC16225GAL1M	2.50x0.162, smooth
RH-MC16225GAL-S	2.50x0.162, smooth
B25162G-MC	2.50x0.162, smooth

TABLE 1B—DEWALT® GALVANIZED NAILS

PRODUCT NUMBER	DESCRIPTION (length x diameter, shank)
DPTS8DR113G	2.375x0.113, ring
DPTS6DR113G	2.00x0.113, ring
DPTS10DR120G	3.00x0.120, ring
DPTS12D131G	3.25x0.131, smooth
DPT-8DR113GFH	2.375x0.113, ring
DPT-8D113GFH	2.375x0.113, smooth
DPT-10D120GFH	3.00x0.120, smooth
DPT-10DR120GFH	3.00x0.120, ring
DPT-12D131GFH	3.25x0.131, smooth
DMC13115HDG.5M	1.50x0.131, smooth
DMC14815HDG.5M	1.50x0.148, smooth
DMC14825HDG.5M	2.50x148, smooth
DMC16225HDG.5M	2.50x0.162, smooth

**TABLE 2—EXPOSURE CONDITIONS FOR FASTENERS
WITH INTENDED USE AND LIMITATIONS OF RECOGNITION**

EXPOSURE CONDITION	TYPICAL APPLICATIONS	RECOGNITION LIMITATIONS
Corrosion Resistance of Fasteners		
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, e.g., no saltwater exposure.
4	Coastal construction	No limitations 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.