

ICC-ES Evaluation Report**ESR-1482**

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 05 23—Wood, Plastic, and Composite Fastenings
Section: 06 05 23.13—Nails

REPORT HOLDER:

STANLEY FASTENING SYSTEMS, L.P.
125 CIRCUIT DRIVE
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EVALUATION SUBJECT:**STANLEY® BOSTITCH® GALVANIZED NAILS****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

Property evaluated:

Corrosion resistance

2.0 USES

The Stanley® BOSTITCH® 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 is 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 A 153, Class D.

3.0 DESCRIPTION

Stanley® BOSTITCH® galvanized nails are recognized in [ESR-1539](#) and [ESR-2122](#). 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.

4.0 INSTALLATION

Use of Stanley® BOSTITCH® galvanized nails is described in [ESR-1539](#) and [ESR-2122](#). The Stanley® BOSTITCH® galvanized nails are used in Exposure Conditions 1 through 4 with typical applications and recognition limitations as shown in Table 2 of this report. The Stanley® BOSTITCH® galvanized nails may be used in wood treated with water-borne alkaline copper quaternary (ACQ) preservatives with a maximum retention of 0.25 pcf (4.0 kg/m³) and preservatives with lesser corrosion effects.

5.0 CONDITIONS OF USE

The Stanley® BOSTITCH® 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, 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.

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.

7.0 IDENTIFICATION

The nails are packaged in cartons bearing labels that provide the manufacturer name and name of the product (Stanley Fastening Systems/BOSTITCH®); nail description (type, length, and shank diameter); the minimum specified bending yield strength; and the evaluation report number (ESR-1482). The nail cartons are also identified with Stanley Fastening Systems' part numbers and as described in either [ESR-1539](#) or [ESR-2122](#), and Table 1 of this report.

TABLE 1—STANLEY® BOSTITCH® GALVANIZED NAILS

PRODUCT NUMBER	DESCRIPTION (length x diameter, shank)	REFERENCE REPORT
0.092-inch diameter		
C6P90BDG	2x0.092, smooth	ESR-1539
C6R90BDG	2x0.092, ring	ESR-1539
C7P90BDG	2.19x0.092, smooth	ESR-1539
C7R90BDG	2-3/16x0.092, ring	ESR-1539
C8P90BDG	2.5x0.092, smooth	ESR-1539
C8R90BDG	2.5x0.092, ring	ESR-1539
0.099-inch diameter		
C6P99DG	2x0.099, smooth	ESR-1539
C6R99BCG	2x0.099, ring	ESR-1539
C7R99BCG	2.25x0.099, ring	ESR-1539
C8P99DG	2.5x0.099, smooth	ESR-1539
C8R99BCG	2.5x0.099, ring	ESR-1539
AC6DSP099GAL	2x0.099, screw	ESR-1539
AC7DSP099GAL	2.15x0.099, screw	ESR-1539
AC8DSP09972GAL	2.5x0.099, screw	ESR-1539
0.113-inch diameter		
S6DGAL-FH	2x0.113, smooth	ESR-1539
S6DR113GAL-FH	2x0.113, ring	ESR-1539
S6DGAL-2M	2x0.113, smooth	ESR-1539
S6DR113GAL	2x0.113, ring	ESR-1539
S8DGAL	2.375x0.113, smooth	ESR-1539
S8DRGAL	2.375x0.113, ring	ESR-1539
C8R113DG	2.375x0.113, ring	ESR-1539
AC6DGAL	2x0.113, smooth	ESR-1539
AC4DSPGAL-14M	1.5x0.113, screw	ESR-1539
0.120-inch diameter		
S8DGAL-FH	2.375x0.120, smooth	ESR-1539
S8DRGAL-FH	2.375x0.120, ring	ESR-1539
S10DGAL-FH	3x0.120, smooth	ESR-1539
S10DRGAL-FH	3x0.120, ring	ESR-1539
S12DGAL-FH	3.25x0.120, smooth	ESR-1539
S10DGAL	3x0.120, smooth	ESR-1539
S10DRGAL	3x0.120, ring	ESR-1539
S10DSGAL	3x0.120, screw	ESR-1539
S12DGAL	3.25x0.120, smooth	ESR-1539
S12DSGAL	3.25x0.120, screw	ESR-1539
C10P120DG	3x0.120, smooth	ESR-1539
C10S120DG	3x0.120, screw	ESR-1539
C12S120DG	3.25x0.120, screw	ESR-1539
AC12DSPGAL	3.25x0.120, screw	ESR-1539
0.131-inch diameter		
S16D131GAL-FH	3.5x0.131, smooth	ESR-1539
S8D131GAL-FH	2.5x0.131, smooth	ESR-1539
S10D131GAL-FH	3x0.131, smooth	ESR-1539
S12DR131GAL-FH	3.25x0.131, ring	ESR-1539
S12DS131FAL-FH	3.25x0.131, screw	ESR-1539
S10DSGAL-FH	3x0.131, screw	ESR-1539
S8D131GAL	2.5x0.131, smooth	ESR-1539
S8DR131GAL	2.5x0.131, ring	ESR-1539
S10D131GAL	3x0.131, smooth	ESR-1539
S10DR131GAL	3x0.131, ring	ESR-1539
S16D131GAL	3.5x0.131, smooth	ESR-1539
S16DS131GAL	3.5x0.131, screw	ESR-1539

TABLE 1—STANLEY® BOSTITCH® GALVANIZED NAILS (Continued)

PRODUCT NUMBER	DESCRIPTION (length x diameter, shank)	REFERENCE REPORT
C10P131DG	3x0.131, smooth	ESR-1539
C10S131DG	3x0.131, screw	ESR-1539
C16P131DG	3.5x0.131, smooth	ESR-1539
C20P131DG	4x0.131, smooth	ESR-1539
AC8D131GAL	2.5x0.131, smooth	ESR-1539
PT-MC13115GAL1M	1.5x0.131, smooth	ESR-2122
PT-MC13125GAL1M	2.5x0.131, smooth	ESR-2122
RH-MC13115GAL-S	1.5x0.131, smooth	ESR-2122
RH-MC13125GAL-S	2.5x0.131, smooth	ESR-2122
B15131G-MC	1.5x0.131, smooth	ESR-2122
B25131G-MC	2.5x0.131, smooth	ESR-2122
0.148-inch diameter		
PT-MC14815GAL1M	1.5x0.148, smooth	ESR-2122
PT-MC14825GAL1M	2.5x0.148, smooth	ESR-2122
RH-MC14815GAL-S	1.5x0.148, smooth	ESR-2122
RH-MC14825GAL-S	2.5x0.148, smooth	ESR-2122
B15148G-MC	1.5x0.148, smooth	ESR-2122
B25148G-MC	2.5x0.148, smooth	ESR-2122
0.162-inch diameter		
ACL16D162BDPG	3.5x0.162, smooth	ESR-1539
PT-MC16225GAL1M	2.5x0.162, smooth	ESR-2122
RH-MC16225GAL-S	2.5x0.162, smooth	ESR-2122
B25162G-MC	2.5x0.162, smooth	ESR-2122

**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.