

# ICC-ES Evaluation Report

**ESR-2618**

Issued May 1, 2010

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**DIVISION: 09—FINISHES**  
**Section: 09270—Gypsum Board Accessories****REPORT HOLDER:****GRABBER CONSTRUCTION PRODUCTS INC.**  
20 WEST MAIN STREET COURT  
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[www.grabberman.com](http://www.grabberman.com)  
[mkahoe@grabberman.com](mailto:mkahoe@grabberman.com)**EVALUATION SUBJECT:****GRABBER NAILS FOR GYPSUM WALLBOARD  
INSTALLATION****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2006 *International Building Code*®
- 2006 *International Residential Code*®
- Other Codes (see Section 8.0)

**Property evaluated:**

Physical properties

**2.0 USES**

Grabber nails are used for the attachment of gypsum panel products to wood framing members.

**3.0 DESCRIPTION**

The nails comply with the material, ductility, withdrawal resistance and dimensional tolerances of ASTM C 514, Standard Specification for Nails for the Application of

Gypsum Wallboard. Nail descriptions and dimensions are provided in Table 1 of this report.

**4.0 INSTALLATION**

The nails described in this report are driven by a hand tool. See Table 2 of this report regarding application of the nails. Installation must comply with the applicable requirements in ASTM C 840 or GA216.

**5.0 CONDITIONS OF USE**

The Grabber 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 nails must conform to the descriptions in this report.
- 5.2** The nails must be installed in accordance with this report and the applicable codes.

**6.0 EVIDENCE SUBMITTED**

- 6.1** Data in accordance with ASTM C 514.
- 6.2** Quality documentation.

**7.0 IDENTIFICATION**

The nails are packaged in 12-pound (5.4 kg) “House Pack” boxes that come four to a master carton, and in 50-pound (22.5 kg) bulk boxes. The packaging is labeled with the Grabber name and address, nail size and the evaluation report number (ESR-2618).

**8.0 OTHER CODES**The products as described in Sections 1.0 through 7.0 also comply with the requirements of the 1997 *Uniform Building Code*™ (UBC).

TABLE 1—NAIL DESCRIPTIONS AND DIMENSIONS

NAIL I.D.	DESCRIPTION	LENGTH (inches)	WIRE DIAMETER (inch)	HEAD DIAMETER (inch)
DWCH138	Cupped head, phosphate etched wallboard nail	1 <sup>3</sup> / <sub>8</sub>	0.095	1 <sup>9</sup> / <sub>64</sub>
DWCH158	Cupped head, phosphate etched wallboard nail	1 <sup>5</sup> / <sub>8</sub>	0.095	1 <sup>9</sup> / <sub>64</sub>
DWCH178	Cupped head, phosphate etched wallboard nail	1 <sup>7</sup> / <sub>8</sub>	0.095	1 <sup>9</sup> / <sub>64</sub>
DWCH138G	Cupped head, phosphate etched wallboard nail	1 <sup>3</sup> / <sub>8</sub>	0.101	1 <sup>11</sup> / <sub>32</sub>
DWCH158G	Cupped head, phosphate etched wallboard nail	1 <sup>5</sup> / <sub>8</sub>	0.101	1 <sup>11</sup> / <sub>32</sub>
DWCH178G	Cupped head, phosphate etched wallboard nail	1 <sup>7</sup> / <sub>8</sub>	0.101	1 <sup>11</sup> / <sub>32</sub>
DWRS125G	Ring shank, galvanized nail	1 <sup>1</sup> / <sub>4</sub>	0.112	1 <sup>9</sup> / <sub>64</sub>
DWRS138G	Ring shank, galvanized nail	1 <sup>3</sup> / <sub>8</sub>	0.112	1 <sup>9</sup> / <sub>64</sub>
DWRS158G	Ring shank, galvanized nail	1 <sup>5</sup> / <sub>8</sub>	0.112	1 <sup>9</sup> / <sub>64</sub>
DWRS200G	Ring shank, galvanized nail	2	0.112	1 <sup>9</sup> / <sub>64</sub>
DWRS250G	Ring shank, galvanized nail	2 <sup>1</sup> / <sub>2</sub>	0.112	1 <sup>9</sup> / <sub>64</sub>
DWAT125	Ring shank, bright nail	1 <sup>1</sup> / <sub>4</sub>	0.112	1 <sup>9</sup> / <sub>64</sub>
DWAT138	Ring shank, bright nail	1 <sup>3</sup> / <sub>8</sub>	0.112	1 <sup>9</sup> / <sub>64</sub>
DWAT158	Ring shank, bright nail	1 <sup>5</sup> / <sub>8</sub>	0.112	1 <sup>9</sup> / <sub>64</sub>
DWAT200	Ring shank, bright nail	2	0.112	1 <sup>9</sup> / <sub>64</sub>
DWRS125B	Ring shank, blued nail	1 <sup>1</sup> / <sub>4</sub>	0.109	1 <sup>9</sup> / <sub>64</sub>
DWRS138B	Ring shank, blued nail	1 <sup>3</sup> / <sub>8</sub>	0.109	1 <sup>9</sup> / <sub>64</sub>
DWRS158B	Ring shank, blued nail	1 <sup>5</sup> / <sub>8</sub>	0.109	1 <sup>9</sup> / <sub>64</sub>
DWRS200B	Ring shank, blued nail	2	0.109	1 <sup>9</sup> / <sub>64</sub>

For SI: 1 inch = 25.4 mm.

TABLE 2—APPLICATION OF NAILS

NAIL LENGTH (inches)	UBC	IBC	IRC
1 <sup>1</sup> / <sub>4</sub>	Base-ply attachment of two-ply, <sup>3</sup> / <sub>8</sub> - or <sup>1</sup> / <sub>2</sub> -inch-thick gypsum wallboard noted in UBC Table 25-H	Single-ply or base-ply attachment of two-ply, <sup>3</sup> / <sub>8</sub> -inch-thick gypsum wallboard, per ASTM C 840 (IBC Table 2508.1)	Not permitted
1 <sup>3</sup> / <sub>8</sub>	As an alternative to 4d wallboard nails specified in UBC Table 7-B; base-ply attachment of two-ply, <sup>5</sup> / <sub>8</sub> -inch-thick gypsum wallboard noted in UBC Table 25-H	As an alternative to 4d wallboard nails specified in IBC Table 720.1(2); single-ply or base-ply attachment of two-ply, <sup>1</sup> / <sub>2</sub> -inch-thick gypsum wallboard, per ASTM C 840 (IBC Table 2508.1)	Not permitted
1 <sup>5</sup> / <sub>8</sub>	As an alternative to 5d wallboard nail specified in UBC Tables 7-B, 25-G and 25-I	As an alternative to 5d wallboard nail specified in IBC Tables 720.1(2) and 2306.4.5; face-ply attachment of two-ply, <sup>3</sup> / <sub>8</sub> -inch-thick gypsum wallboard per ASTM C 840 (IBC Table 2508.1)	Single-ply attachment of <sup>1</sup> / <sub>2</sub> -inch-thick gypsum board noted in IRC Table R702.3.5
1 <sup>7</sup> / <sub>8</sub>	As an alternative to 6d wallboard nail specified in UBC Tables 7-B, 25-G and 25-I	As an alternative to 6d wallboard nail specified in IBC Tables 720.1(2) and 2306.4.5; face-ply attachment of two-ply, <sup>1</sup> / <sub>2</sub> -inch-thick gypsum wallboard per ASTM C 840 (IBC Table 2508.1)	Single-ply attachment of <sup>5</sup> / <sub>8</sub> -inch-thick gypsum board noted in IRC Table R702.3.5
2	Face-ply attachment of two-ply, <sup>5</sup> / <sub>8</sub> -inch-thick gypsum wallboard noted in UBC Table 25-H	Same as for 1 <sup>7</sup> / <sub>8</sub> -inch-long nails	Same as for 1 <sup>7</sup> / <sub>8</sub> -inch-long nails
2 <sup>1</sup> / <sub>2</sub>	Same as for 2-inch-long nails	Face-ply attachment of two-ply, <sup>5</sup> / <sub>8</sub> -inch-thick gypsum wallboard per ASTM C 840 (IBC Table 2508.1)	Same as for 1 <sup>7</sup> / <sub>8</sub> -inch-long nails

For SI: 1 inch = 25.4 mm.