Designation: F1667 - 17

Standard Specification for Driven Fasteners: Nails, Spikes, and Staples¹

This standard is issued under the fixed designation F1667; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense. The Commercial and Government Entity (Cage) Code for ASTM: 81346.

1. Scope*

1.1 This specification covers nails, spikes, staples, and other driven fasteners, as listed in Table 1.

Note 1—Fastener ductility information is presented in Table 2 and dimensional information in Tables 3–65.

- 1.2 Fasteners described in this specification are driven by hand tool, power tool, or mechanical device in single or multiple strikes and are positioned by hand, tool, or machine.
- 1.3 The values stated in inch-pound units are to be regarded as standard. No other units of measurement are included in this standard.
- 1.4 Fasteners in this specification are sold in bulk (loose) form and are collated for loading into the magazine of an application tool. Other than as covered in Section 9, Workmanship, cohering materials (including, but not limited to, plastic, adhesive bond, paper tape, plastic strip, plastic carrier, wire, etc.) and relative orientation of collated fasteners are not within the scope of this standard.
- 1.5 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.
- 1.6 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards:²

A153/A153M Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware

A510/A510M Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel, and Alloy Steel

A641/A641M Specification for Zinc–Coated (Galvanized) Carbon Steel Wire

B695 Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel

C514 Specification for Nails for the Application of Gypsum Board³

F547 Terminology of Nails for Use with Wood and Wood-Base Materials

F592 Terminology of Collated and Cohered Fasteners and Their Application Tools (Withdrawn 2017)⁴

F680 Test Methods for Nails

F1575 Test Method for Determining Bending Yield Moment of Nails

3. Terminology

3.1 *Definitions*—The definitions used in this specification are those of common commercial acceptance and usage and also appear in Terminologies F547 and F592.

4. Classification

4.1 The fasteners and their Table 1 classification are identified as follows:

¹ This specification is under the jurisdiction of ASTM Committee F16 on Fasteners and is the direct responsibility of Subcommittee F16.05 on Driven and Other Fasteners.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Additional material and dimensional tolerance for nails used in Gypsumboard are addressed in C514.

⁴ The last approved version of this historical standard is referenced on www.astm.org.

TABLE 1 Classification and Identification Index

| - IADEL | Classification and | | |
|----------------|---|--------------------------|----------|
| Туре | Style | Style Identification | Table |
| I—Nails (NL) 1 | . Brads | BR | 3 |
| 2 | | BL | 4 |
| 3 | . Box A | BXA | 5 |
| | Box B | BXB | 6 |
| 4 | | BM | 7 |
| | . Casing . Cooler | CN CL | 8 9 |
| | . Sinker | SK | 10 |
| | . Corker | CK | 11 |
| 9. | | CMA | 12 |
| | Common | | |
| | Copper | CMC | 13 |
| | Common | | |
| | Steel | CMS | 14 |
| | Common | CMD | 15 |
| | Power-tool Driven | CMP | 15 |
| | Common | | |
| 10 | | CTS/CTM | 16 |
| 11 | | DH | 17 |
| | (Duplex) | | |
| 12 | . Finish | FH | 18 |
| 13 | 3 | FL | 19 |
| 14 | | LHF | 20 |
| | Lath | LHH | 21 |
| 15 16 | , | MR/MRH PL | 22 23 |
| 17 | | GWS | 23 24 |
| 17 | Gypsum wallboard | GWM | 25 |
| 18 | | RFA | 26 |
| | Roofing | | |
| | Steel | RFS | 27 |
| | Roofing | | |
| | Copper-Clad | RFC | 28 |
| | Roofing | DEL | 00 |
| | Umbrella | RFL | 29 |
| | Head Roofing | | |
| | Steel | RFR | 30 |
| | Reinforced | 11111 | 00 |
| | Roofing | | |
| | Cap Nail | MRH/PRH | 31 |
| | Hand Driven | | |
| | Roofing | | |
| | Cap Nail | MRP/PRP | 32 |
| | Power-Tool Driven Roofing | | |
| | Washered | RFNS/RFND | 33 |
| | Aluminum | 111 110/111 110 | 00 |
| | Roofing | | |
| | Washered | RFE | 34 |
| | Steel | | |
| | Roofing | | _ |
| 19 | • | SHAD/SHAS | 35 |
| 00 | Steel Shingle | SHSS/SHSR SDF/SDC/SDK | 36 37 |
| 20 21 | • | SLA/SLC/SLS | 37 38 |
| 22 | • | RH | 39 |
| 23 | | UL | 40 |
| 24 | - · · · · · · · · · · · · · · · · · · · | SB | 41 |
| 25 | . Masonry drive | MD | 42 |
| 26 | . Escutcheon | ES | 43 |
| 27 | | GR | 44 |
| 28 | | PFRS | 45 |
| | Ring Shank | DODO | 40 |
| | Roof Sheathing Ring Shank | RSRS | 46 |
| 29 | | MHS/MHR | 47 |
| 23 | Hardware | ATT TO/TVIT IT I | 71 |
| | Nails | | |
| II—Cut nails 1 | . Common | CM | 48 |
| (CN) | | | |
| | . Basket | BK | 49 |
| 3 | . Clout | CL | 50 |

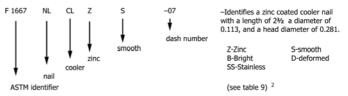
TABLE 1 Continued

| Type | | Style | Style Identification | Table |
|--------------------|----|------------------|----------------------|-------|
| III—Spikes (SP) | 1. | Common | СМ | 51 |
| | 2. | Gutter | GRF/GRO | 52 |
| | 3. | Round | RDC/RDF | 53 |
| IV—Staples (ST) | 1. | Fence | FN | 54 |
| | 2. | Poultry netting | PN | 55 |
| | 3. | Flat top crown | FC | 56 |
| | | Flat top crown | FCC | 57 |
| | 4. | Round or V crown | RC | 58 |
| | 5. | Preformed | PC | 59 |
| | 6. | Electrical | RE | 60 |
| | 7. | Preformed hoop | PH | 61 |
| | 8. | Сар | STC | 62 |

TABLE 2 Bend Angles for Fasteners Using the Test Methods F680 Bend Test

| | Fastener Material | Bend Angle, ° |
|----|---|------------------|
| 1. | Steel wire: (low-carbon, medium-low carbon, medium-carbon) (unhardened) | 180 |
| 2. | Stainless steel wire | 180 |
| 3. | Hardened steel fasteners | 20 |
| 4. | Sheet steel for cut nails, Type II, and cut spikes, Type III | 90 |
| 5. | Copper (min 98 %) | 180 |
| 6. | Copper clad wire (min 20 %) | 180 |
| 7. | Aluminum alloy wire | 90 |
| 8. | Brass wire | 180 |

Note 2—The identification of fasteners, classified by style and type (alpha indicators) followed by a dash number (numerical code) based on Tables 3–62, identifies dimensions specifically and establishes a PIN (part identifying number) system when preceded by the F1667 ASTM designator of this specification. For example:



4.2 The trade designation, *S*, pennyweight, used in commercial practice is referenced in Tables 3–47 wherever it applies.

5. Ordering Information

- 5.1 Orders for driven fasteners under this specification shall include the following information:
 - 5.1.1 Quantity or weight;
- 5.1.2 Part identifying number (PIN) or product description (see 4.1 and appropriate table);
- 5.1.3 Special material requirements, if specified, including coatings or finishes;
 - 5.1.4 ASTM designation;
 - 5.1.5 Packaging requirements;
- 5.1.6 A producer's or supplier's certification that the material and the finished fastener are in compliance with this specification, furnished only when specified in the purchase order;
 - 5.1.7 Supplementary requirements, if any; and
- 5.1.8 Any additions agreed upon between the purchaser and the supplier.



B

6. Material Requirements

- 6.1 Steel wire used in the manufacture of driven fasteners shall be of low carbon, medium-low carbon, or medium-high carbon.
- 6.2 Stainless steel wire used in the manufacture of driven fasteners shall be of Types 302, 304, 305, or 316.
- 6.3 Carbon steel wire for the manufacture of hardened steel nails shall be suitable for heat treatment to a minimum hardness of 37 HRC.
- 6.4 Sheet steel used in the manufacture of cut nails (Type II) and cut spikes (Type III) shall be a medium-carbon sheet steel.
- 6.5 Copper used in the manufacture of driven fasteners shall contain a minimum of 98 % pure copper.
- 6.6 Copper-clad steel wire used in the manufacture of driven fasteners shall contain not less than 20 % copper by weight. The average thickness of copper on the steel wire shall be not less than 10 % of the radius of the clad wire; the minimum thickness of copper on the steel wire shall be not less than 8 % of the radius of the clad wire.
- 6.7 Aluminum alloy wire used in the manufacture of fasteners shall conform to Alloy 2024, 5056, 6061, or 6110 and have a minimum ultimate tensile strength of 60 000 psi.

Note 3—Smooth shank nails are sometimes chemically treated to remove grease, oil, and foreign matter and to roughen the surface microscopically. Mechanically deformed nails are sometimes cleaned to remove grease and foreign matter.

6.8 Brass wire used in the manufacture of fasteners shall be of good commercial quality suitable for the purpose.

7. Physical Properties

- 7.1 Ductility—The fasteners shall be sufficiently ductile to withstand cold bending without fracture, as specified in Table 2 for various materials used in the manufacture of fasteners utilizing the conventional bend test described in Test Methods F680. Mandrel diameter used in this test shall not exceed nail/wire diameter. The cold bend test shall not apply to unhardened nails with deformed shanks.
- 7.2 Tensile Strength—Finished driven fasteners are not normally subject to tension testing. However, the wire or sheet used to manufacture the fastener is tested as required for control in the production process during manufacture.
- 7.3 Number per pound—Number per pound figures are not requirements. Number per pound varies (1) as actual dimensions vary within tolerance ranges, (2) between bright and coated nails, and (3) with zinc coating thickness for galvanized nails. No tolerances have been established for these figures. They are for reference only and shall not be used as product acceptance/rejection criteria.

8. Dimensions and Tolerances

- 8.1 Nominal dimensions of nails and spikes shall be as shown in Tables 3–53. The following dimensional designations shall apply:
- S = trade designation (reference in penny weight),

L = length, in.,

H = head diameter or width, in.,

D = shank diameter, in.,

= head separation, in. (Table 17), and

No./lb = approximate count per pound.

- 8.1.1 The lengths, *L*, of nails and spikes with flat heads or parallel shoulders under the head shall be measured from under the head or shoulder to the tip of the point. All other nails and spikes shall be measured overall.
- 8.1.2 The diameter, D, of smooth shank nails and spikes shall be measured away from the gripper marks. The diameter, D, of deformed shank nails shall be measured before deformation, or when available, the smooth section of the shank away from any gripper marks. All diameter dimensions shall be taken prior to the application of or after the removal of any coatings or finish.
- 8.2 Tolerances on Nominal Dimensions for Nails and Spikes:
- 8.2.1 Length tolerances shall be $\pm \frac{1}{32}$ in. for lengths up to and including 1 in.; $\pm \frac{1}{16}$ in. for lengths over 1 in., up to and including $2\frac{1}{2}$ in.; $\pm \frac{3}{32}$ for lengths over $2\frac{1}{2}$ in., up to and including 7 in.; and $\pm \frac{1}{8}$ in. for all lengths over 7 in.
- 8.2.2 Shank diameter tolerances shall be ± 0.002 in. for diameters smaller than 0.076 in. and ± 0.004 in. for diameters 0.076 in. and larger.
 - 8.2.3 Head Diameter Tolerances:
- 8.2.3.1 Hand Driven—Tolerances on concentric round head diameters shall be $\pm 10\,\%$ of the nominal head diameter (individual measurement). The difference in diameter across the long axis shall not exceed that across the short axis by more than $10\,\%$. A fillet shall be provided under the head if not otherwise specified.
- 8.2.3.2 *Power-Tool Driven*—Tolerances on head diameters of power-tool driven nails shall comply with the nail manufacturer's specifications and shall be suitable for use in the make and model of the tool specified.
- 8.3 Nominal dimensions of staples shall be as shown in Tables 54–60, and the following dimensional designations shall apply:
 - 8.3.1 Hand Tool-Driven Nominal Dimensions:

L = leg length, inside, in.,

D = round leg diameter, in.,

C = crown width, inside, in., and

No./lb = approximate count per pound.

8.3.2 Power Tool–Driven Nominal Dimensions:

D = round leg diameter, in.,

L = leg length, outside, in.,

T = leg thickness, in. (see Tables 56 and 57),

W = leg width, in. (see Tables 56 and 57),

C = crown width, outside, in., and

G = steel wire gage.

- 8.4 Tolerances on Nominal Dimensions for Staples:
- 8.4.1 Leg length, L, tolerances shall be $+\frac{1}{32}$, $-\frac{1}{64}$ in. for both hand tool–driven and power tool–driven staples.

- 8.4.2 Diameter tolerances for hand tool–driven round staples shall be ± 0.002 in. for diameters smaller than 0.076 in. and ± 0.004 in. for diameters 0.076 in. and larger.
- 8.4.3 Thickness and width tolerances on power-tool driven staples shall comply with the manufacturer's specification and shall be suitable for use in the make and model tool specified (see Tables 56 and 57).
- 8.4.4 Crown width tolerances are $\pm 1/32$ in. unless otherwise specified.
- 8.5 Nominal Dimensions for Cut Nails, Type II—Unless otherwise specified, cut nails shall be sheared from medium carbon sheet steel and shall have a wedge-shaped shank with a sheared square point end narrower than the upset head end. The designation *T* in Tables 49–50 refers to sheet thickness in finished product. Other designations shall be the same as those for nails in 8.1.
- 8.6 When gage is used for a nominal diameter dimension in the application of this specification, it shall be in accordance with the decimal equivalents as shown in Specification A510/A510M, unless otherwise specified.

9. Workmanship

9.1 Fasteners covered by this specification shall be true to shape, well-finished, free from imperfections, clean, and free of corrosion. Power-tool driven collated items shall be uniform and aligned properly in their assembled form for use in power tools.

10. Protective Coatings and Finishes

- 10.1 Zinc Coating:
- 10.1.1 Driven fasteners required to be zinc coated shall be cut and formed from hot-dip, hard-wiped, galvanized steel wire, electrodeposited (electrogalvanized) steel wire, or zinc flake/chromate dispersion-coated steel wire; or they shall be cut from uncoated (bright) steel wire and shall be hot-dip galvanized, electrodeposited zinc coated, mechanically deposited zinc coated, or zinc flake/chromate dispersion coated after forming.
- 10.1.2 Hot-dip galvanized or electrogalvanized steel wire for the manufacture of fasteners shall have a coating weight in accordance with Specification A641/A641M, Supplementary Requirements, Class 1.
- 10.1.3 Hot-dip galvanized steel fasteners coated after forming shall have a coating weight in accordance with Specification A153/A153M, Class D, when a heavier coating for exterior use is specified. If not otherwise specified, the coating weight shall be in accordance with Specification A641/A641M, Supplementary Requirements, Class 1.
- 10.1.4 Mechanically deposited zinc coatings applied to fasteners after forming shall have a thickness in accordance with Specification B695, Class 40, unless otherwise specified.
 - 10.2 Other Coatings and Finishes (When Specified):

- 10.2.1 Chemical etching shall remove the polish of fabrication and roughen the surface microscopically.
- 10.2.2 Blued nails shall be heated to form a thin, colored oxide on the surface.
- 10.2.3 Miscellaneous finishes and coatings, such as polymer coatings, tin plating, liquor, brass plating, copper plating, phosphate coating, or oil coating shall be applied.

Note 4—Polymer coatings are often used to assist in the driving of power-tool driven fasteners.

- 10.3 Altered Shapes and Deformations:
- 10.3.1 Mechanically formed or deformed nail shanks shall have barbs, flutes, threads, or angular serrations formed onto the wire from which the nail is manufactured. Mechanically deformed shanks shall have vertical or helical flutes or screwtype or annular (ring)-type deformations rolled onto the shank. Symmetrical helical shank deformations shall be obtained by twisting square wire. The deformations shall pass entirely around the shank body, resulting in expanded ridges and depressions. Interruptions in shank deformation to facilitate attachment of materials for collating nails is permitted.
- 10.3.2 Mechanically formed or deformed nail heads shall be round or T-headed; or they shall be altered round for suitable use in a given make and model of power-tool.
- 10.3.3 Staples manufactured for intended use in power tools shall comply with the tool manufacturer's specification or Type IV, Style 3 (Table 56 or Table 57).

11. Certification

11.1 When specified in the purchase order, a producer's or supplier's certification shall be furnished to the purchaser, indicating that the fasteners are in compliance with this specification and the purchase order.

12. Packaging and Package Marking

- 12.1 Unless otherwise specified, fasteners shall be in substantial commercial containers of the type, size, and kind commonly used for the purpose, so constructed as to preserve the contents in good condition and to ensure acceptance and safe delivery by common or other carriers to the point of delivery. In addition, the containers shall be so made that the contents can be removed partially without destroying the container's ability to serve as a receptacle for the remainder of the contents.
- 12.2 When specified, individual packages and shipping containers shall be marked with the part-identifying number, style (see Table 1), fastener length, diameter (or gage, as applicable) material (other than carbon steel), coating/finish, for nails-shank style (smooth, ring, screw, etc.), for staples –crown width, the name of the manufacturer or distributor, country of origin, and the quantity or net weight.

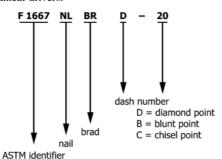
13. Keywords

13.1 diameter; driven fasteners; head; length; nails; point; spikes; staples



TABLE 3 Type I, Style 1—Brads^A

Note 1—Steel wire, brad head, diamond point, round smooth shank, bright finish. When specified, brads shall have a modified brad head with a blunt or chiseled point for use with mechanical drivers.



 Identifies a brad nail with a length of 1½, a diameter of 0.099, and a diamond point.

| 1111 | \blacksquare |
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| | |

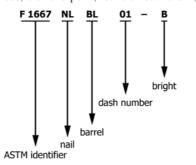
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| Dash No. | L | D | S | No./lb | Dash No. | L | D | S | No./lb |
|----------|------|-------|----|--------|----------|------|-------|-----|--------|
| 01 | 3/8 | 0.035 | | 9520 | 21 | 13/4 | 0.062 | | 670 |
| 02 | 1/2 | 0.035 | | 7060 | 22 | 13/4 | 0.080 | | 400 |
| 03 | 1/2 | 0.048 | | 3990 | 23 | 13/4 | 0.099 | 5d | 270 |
| 04 | 5/8 | 0.035 | | 5680 | 24 | 2 | 0.062 | | 580 |
| 05 | 5/8 | 0.048 | | 3200 | 25 | 2 | 0.080 | | 350 |
| 06 | 3/4 | 0.035 | | 4800 | 26 | 2 | 0.113 | 6d | 180 |
| 07 | 3/4 | 0.048 | | 2620 | 27 | 21/4 | 0.080 | | 320 |
| 08 | 3/4 | 0.062 | | 1550 | 28 | 21/4 | 0.113 | 7d | 160 |
| 09 | 7/8 | 0.035 | | 4220 | 29 | 21/2 | 0.080 | | 290 |
| 10 | 7/8 | 0.048 | | 2220 | 30 | 21/2 | 0.131 | 8d | 110 |
| 11 | 7/8 | 0.062 | | 1280 | 31 | 23/4 | 0.131 | 9d | 97 |
| 12 | 1 | 0.054 | | 1500 | 32 | 3 | 0.148 | 10d | 70 |
| 13 | 1 | 0.062 | | 1120 | 33 | 31/4 | 0.148 | 12d | 65 |
| 14 | 1 | 0.072 | | 904 | 34 | 31/2 | 0.162 | 16d | 50 |
| 15 | 11/4 | 0.054 | | 1210 | 35 | 4 | 0.192 | 20d | 31 |
| 16 | 11/4 | 0.062 | | 940 | 36 | 41/2 | 0.207 | 30d | 24 |
| 17 | 11/4 | 0.080 | 3d | 560 | 37 | 5 | 0.225 | 40d | 18 |
| 18 | 11/2 | 0.054 | | 1040 | 38 | 51/2 | 0.244 | 50d | 14 |
| 19 | 11/2 | 0.080 | | 470 | 39 | 6 | 0.262 | 60d | 11 |
| 20 | 11/2 | 0.099 | 4d | 320 | | | | | |

^AAll dimensions are given in inches.

TABLE 4 Type I, Style 2—Barrel Nails^A

Note 1—Carbon steel wire, flat head, diamond point, round smooth shank, bright, zinc coated or other coating as specified.



 Identifies a barrel nail with a length of %, a diameter of 0.067, a head diameter of 0.148, and a bright finish.
 B = bright

Z= Zinc

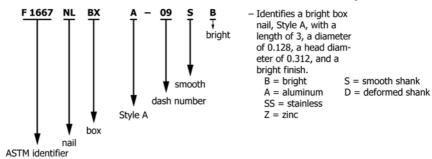
| Dash No. | L | D | Н | No./lb | Dash No. | L | D | Н | No./lb |
|----------|-----|-------|-------|--------|----------|------|-------|-------|--------|
| 01 | 5/8 | 0.067 | 0.148 | 1.550 | 05 | 11/8 | 0.076 | 0.177 | 670 |
| 02 | 3/4 | 0.067 | 0.148 | 1.300 | 06 | 11/4 | 0.080 | 0.188 | 540 |
| 03 | 7/8 | 0.076 | 0.177 | 850 | 07 | 13/8 | 0.092 | 0.219 | 380 |
| 04 | 1 | 0.076 | 0.177 | 750 | 08 | 11/2 | 0.092 | 0.219 | 350 |

^AAll dimensions are given in inches.



TABLE 5 Type I, Style 3A—Box Nails^A

Note 1—Carbon steel, stainless steel or aluminium wire, flat head, diamond point, round, deformed or smooth shank, bright, zinc coated or other coating as specified. When specified, box nails shall have an altered or T-head with a diamond, blunt, or chisel point for use with power tools.





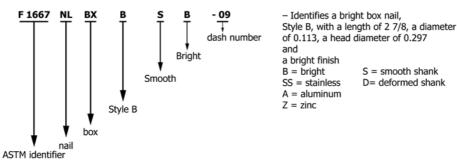


| | F 1667 NLBXA | | | | | | | | | | |
|----------|--------------|------|-------|-------|--------|----------|-----|------|-------|-------|--------|
| Dash No. | S | L | D | Н | No./lb | Dash No. | S | L | D | Н | No./lb |
| 01 | 2d | 1 | 0.067 | 0.188 | 940 | 08 | 9d | 23/4 | 0.113 | 0.297 | 120 |
| 02 | 3d | 11/4 | 0.076 | 0.219 | 590 | 09 | 10d | 3 | 0.128 | 0.312 | 90 |
| 03 | 4d | 11/2 | 0.080 | 0.219 | 450 | 10 | 12d | 31/4 | 0.128 | 0.312 | 83 |
| 04 | 5d | 13/4 | 0.080 | 0.219 | 390 | 11 | 16d | 31/2 | 0.135 | 0.344 | 69 |
| 05 | 6d | 2 | 0.099 | 0.266 | 220 | 12 | 20d | 4 | 0.148 | 0.375 | 50 |
| 06 | 7d | 21/4 | 0.099 | 0.266 | 200 | 13 | 30d | 41/2 | 0.148 | 0.375 | 45 |
| 07 | 8d | 21/2 | 0.113 | 0.297 | 140 | 14 | 40d | 5 | 0.162 | 0.406 | 34 |

^AAll dimensions are given in inches.

TABLE 6 Type I, Style 3B—Box Nails^A

Note 1—Carbon steel, stainless steel or aluminum wire, flat head, diamond point, round, deformed or smooth shank, bright, zinc coated or other coating as specified.



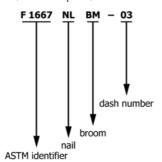


| | F 1667 NLBXB | | | | | | | | | | |
|----------|--------------|--------------|-------|-------|--------|----------|-----|--------------|-------|-------|--------|
| Dash No. | S | L | D | Н | No./lb | Dash No. | S | L | D | Н | No./lb |
| 01 | 2d | 1 | 0.058 | 0.172 | 1250 | 06 | 7d | 21/8 | 0.086 | 0.250 | 280 |
| 02 | 3d | 11/ 8 | 0.062 | 0.188 | 980 | 07 | 8d | 2³/8 | 0.099 | 0.266 | 190 |
| 03 | 4d | 1³/ 8 | 0.067 | 0.203 | 680 | 08 | 9d | 2 5/8 | 0.099 | 0.266 | 170 |
| 04 | 5d | 1 5/8 | 0.072 | 0.219 | 510 | 09 | 10d | 27/8 | 0.113 | 0.297 | 120 |
| 05 | 6d | 17/8 | 0.086 | 0.250 | 315 | | | | | | |

^AAll dimensions are given in inches.

TABLE 7 Type I, Style 4—Broom Nails^A

Note 1—Steel wire, flat or star head, diamond point, round smooth shank, bright finish, as specified.



 Identifies a broom nail with a length of ¾, a diameter of 0.072, and a head diameter of 0.203.

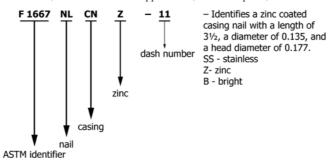


| Dash No. | L | D | Н | No./lb |
|----------|-----|-------|-------|--------|
| 01 | 5/8 | 0.072 | 0.203 | 1480 |
| 02 | 5/8 | 0.080 | 0.219 | 990 |
| 03 | 3/4 | 0.072 | 0.203 | 1170 |
| 04 | 3/4 | 0.080 | 0.219 | 840 |

^AAll dimensions are given in inches.

TABLE 8 Type I, Style 5—Casing Nails^A

Note 1—Carbon steel or stainless steel wire, flat countersunk cupped head, diamond point, round smooth shank, bright or zinc coated.



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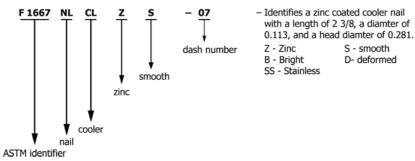
| Dash No. | S | L | D | Н | No./lb | Dash No. | S | L | D | Н | No./lb |
|----------|----|------|-------|-------|--------|----------|-----|------|-------|-------|--------|
| 01 | 2d | 1 | 0.067 | 0.099 | 1090 | 07 | 8d | 21/2 | 0.113 | 0.155 | 150 |
| 02 | 3d | 11/4 | 0.076 | 0.113 | 650 | 08 | 9d | 23/4 | 0.113 | 0.155 | 135 |
| 03 | 4d | 11/2 | 0.080 | 0.120 | 490 | 09 | 10d | 3 | 0.128 | 0.170 | 95 |
| 04 | 5d | 13/4 | 0.080 | 0.120 | 415 | 10 | 12d | 31/4 | 0.128 | 0.170 | 90 |
| 05 | 6d | 2 | 0.099 | 0.142 | 245 | 11 | 16d | 31/2 | 0.135 | 0.177 | 75 |
| 06 | 7d | 21/4 | 0.099 | 0.142 | 215 | | | | | | |

^AAll dimensions are given in inches.



TABLE 9 Type I, Style 6—Cooler Nails^A

Note 1—Carbon steel or stainless steel wire, flat head, diamond point, round smooth or deformed shank, bright or zinc or other coating as specified. When specified, coolers shall have an altered or T-head for use with mechanical drivers.



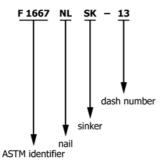


| Dash No. | S | L | D | Н | No./lb | Dash No. | S | L | D | Н | No./lb |
|----------|----|--------------|-------|-------|--------|----------|-----|--------------|-------|-------|--------|
| 01 | 2d | 1 | 0.062 | 0.172 | 1110 | 06 | 7d | 21/8 | 0.099 | 0.266 | 210 |
| 02 | 3d | 11/ 8 | 0.067 | 0.188 | 840 | 07 | 8d | 2³/ 8 | 0.113 | 0.281 | 140 |
| 03 | 4d | 1 3/8 | 0.080 | 0.219 | 490 | 08 | 9d | 25/8 | 0.113 | 0.281 | 130 |
| 04 | 5d | 15/8 | 0.086 | 0.234 | 370 | 09 | 10d | 27/8 | 0.120 | 0.297 | 100 |
| 05 | 6d | 17/8 | 0.092 | 0.250 | 280 | | | | | | |

^AAll dimensions are given in inches.

TABLE 10 Type I, Style 7—Sinker Nails^A

Note 1—Steel wire, flat countersunk head, diamond point, round smooth shank, bright or other coating as specified. When specified, sinkers shall have an altered or T-head for use with power tools.



 Identifies a sinker nail with a length of 5³/₄, a diameter of 0.244, a head diameter of 0.500, and a bright finish



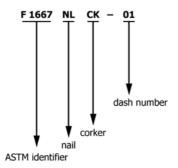
| Dash No. | S | L | D | Н | No./lb | Dash No. | S | L | D | Н | No./lb |
|----------|-----|------|-------|-------|--------|----------|-----|------|-------|-------|--------|
| 01 | 3d | 11/8 | 0.067 | 0.172 | 940 | 08 | 12d | 31/8 | 0.135 | 0.312 | 81 |
| 02 | 4d | 1³/s | 0.080 | 0.203 | 530 | 09 | 16d | 31/4 | 0.148 | 0.344 | 64 |
| 03 | 5d | 15/8 | 0.086 | 0.219 | 390 | 10 | 20d | 33/4 | 0.177 | 0.375 | 40 |
| 04 | 6d | 17/8 | 0.092 | 0.234 | 290 | 11 | 30d | 41/4 | 0.192 | 0.406 | 30 |
| 05 | 7d | 21/8 | 0.099 | 0.250 | 220 | 12 | 40d | 43/4 | 0.207 | 0.438 | 23 |
| 06 | 8d | 23/8 | 0.113 | 0.266 | 150 | 13 | 60d | 53/4 | 0.244 | 0.500 | 14 |
| 07 | 10d | 27/8 | 0.120 | 0.281 | 110 | | | | | | |

 $^{^{}A}$ All dimensions are given in inches.



TABLE 11 Type I, Style 8—Corker Nails^A

Note 1—Steel wire, flat countersunk head, diamond point, round smooth shank, or other coating as specified. When specified, corkers shall have an altered or T-head for use with mechanical drivers.



 Identifies a corker nail with a length of 1, a diameter of 0.062, and a head diameter of 0.156.

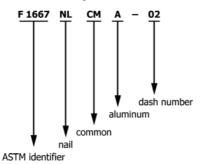


| Dash No. | S | L | D | Н | No./lb | Dash No. | S | L | D | Н | No./lb |
|----------|----|------|-------|-------|--------|----------|-----|------|-------|-------|--------|
| 01 | 2d | 1 | 0.062 | 0.156 | 1220 | 09 | 10d | 27/8 | 0.135 | 0.312 | 89 |
| 02 | 3d | 11/4 | 0.072 | 0.188 | 720 | 10 | 12d | 31/8 | 0.135 | 0.312 | 81 |
| 03 | 4d | 11/2 | 0.086 | 0.219 | 420 | 11 | 16d | 33/8 | 0.148 | 0.344 | 62 |
| 04 | 5d | 15/8 | 0.086 | 0.219 | 320 | 12 | 20d | 37/8 | 0.177 | 0.375 | 38 |
| 05 | 6d | 17/8 | 0.099 | 0.250 | 250 | 13 | 30d | 43/8 | 0.192 | 0.406 | 29 |
| 06 | 7d | 21/8 | 0.099 | 0.250 | 220 | 14 | 40d | 47/8 | 0.207 | 0.438 | 22 |
| 07 | 8d | 23/8 | 0.120 | 0.281 | 130 | 15 | 50d | 53/8 | 0.226 | 0.469 | 17 |
| 08 | 9d | 25/8 | 0.120 | 0.281 | 120 | 16 | 60d | 57/8 | 0.244 | 0.500 | 13 |

^AAll dimensions are given in inches.

TABLE 12 Type I, Style 9—Aluminum Common Nails^A

Note 1—Aluminum alloy wire, flat head, diamond point, round smooth shank, or, when specified, square barbed shank.



 Identifies a aluminum common nail with a length of 2, a diameter of 0.120, and a head diameter of 0.266.

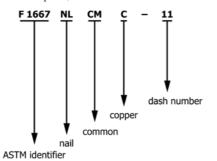


| | | | | | F 1667 | NLCMA | | | | | |
|----------|----|------|-------|-------|--------|----------|-----|------|-------|-------|--------|
| Dash No. | S | L | D | Н | No./lb | Dash No. | S | L | D | Н | No./lb |
| 01 | 4d | 11/2 | 0.099 | 0.250 | 830 | 04 | 10d | 3 | 0.162 | 0.312 | 170 |
| 02 | 6d | 2 | 0.120 | 0.266 | 430 | 05 | 16d | 31/2 | 0.177 | 0.344 | 120 |
| 03 | 8d | 21/2 | 0.148 | 0.281 | 220 | 06 | 20d | 4 | 0.199 | 0.406 | 78 |

^AAll dimensions are given in inches.

TABLE 13 Type I, Style 9—Copper Common Nails^A

Note 1—Copper wire, flat head, diamond point, round smooth shank.



 Identifies a copper common nail with a length of 2, a diameter of 0.134, and a head diameter of 0.281.

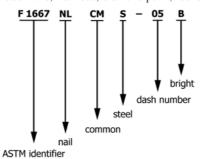


| | | | | F 1667 | NLCMC | | | | |
|----------|------|-------|-------|--------|----------|------|-------|-------|--------|
| Dash No. | L | D | Н | No./lb | Dash No. | L | D | н | No./lb |
| 01 | 5/8 | 0.065 | 0.156 | 1380 | 10 | 2 | 0.120 | 0.266 | 130 |
| 02 | 3/4 | 0.065 | 0.156 | 1160 | 11 | 2 | 0.134 | 0.281 | |
| 03 | 3/4 | 0.072 | 0.172 | 960 | 12 | 21/2 | 0.134 | 0.281 | 86 |
| 04 | 7/8 | 0.072 | 0.172 | 810 | 13 | 3 | 0.148 | 0.312 | 56 |
| 05 | 1 | 0.072 | 0.172 | 700 | 14 | 31/2 | 0.165 | 0.344 | 40 |
| 06 | 11/4 | 0.083 | 0.203 | 420 | 15 | 4 | 0.203 | 0.406 | 23 |
| 07 | 11/2 | 0.109 | 0.250 | 210 | 16 | 41/2 | 0.220 | 0.438 | 18 |
| 08 | 13/4 | 0.109 | 0.250 | 180 | 17 | 5 | 0.238 | 0.469 | 14 |
| 09 | 13/4 | 0.120 | 0.266 | 140 | 18 | 6 | 0.284 | 0.531 | 8 |

^AAll dimensions are given in inches.

TABLE 14 Type I, Style 9—Steel Common Nails^A

Note 1—Carbon steel or stainless steel wire, flat head, diamond point, round smooth shank, bright, zinc coated or other coating as specified.



Identifies a steel common nail with a length of 2, a diameter of 0.113, a head diameter of 0.266, and a bright finish.
 B = bright
 Z = zinc coated

S = steel SS = stainless



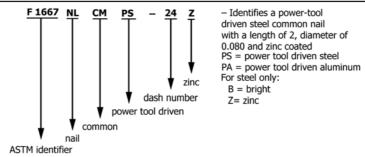
| | | | | | F 1667 | NLCMS | | | | | |
|----------|----|------|-------|-------|--------|----------|-----|------|-------|-------|--------|
| Dash No. | S | L | D | Н | No./lb | Dash No. | S | L | D | Н | No./lb |
| 01 | 2d | 1 | 0.072 | 0.172 | 850 | 09 | 10d | 3 | 0.148 | 0.312 | 66 |
| 02 | 3d | 11/4 | 0.080 | 0.203 | 540 | 10 | 12d | 31/4 | 0.148 | 0.312 | 61 |
| 03 | 4d | 11/2 | 0.099 | 0.250 | 290 | 11 | 16d | 31/2 | 0.162 | 0.344 | 47 |
| 04 | 5d | 13/4 | 0.099 | 0.250 | 250 | 12 | 20d | 4 | 0.192 | 0.406 | 30 |
| 05 | 6d | 2 | 0.113 | 0.266 | 170 | 13 | 30d | 41/2 | 0.207 | 0.438 | 23 |
| 06 | 7d | 21/4 | 0.113 | 0.266 | 150 | 14 | 40d | 5 | 0.226 | 0.469 | 17 |
| 07 | 8d | 21/2 | 0.131 | 0.281 | 100 | 15 | 50d | 51/2 | 0.244 | 0.500 | 14 |
| 08 | 9d | 23/4 | 0.131 | 0.281 | 92 | 16 | 60d | 6 | 0.262 | 0.531 | 11 |

^AAll dimensions are given in inches.



TABLE 15 Type I, Style 9—Power-tool Driven Common Nails^A

Note 1—Aluminum alloy wire, stainless steel or carbon steel wire, (bright, zinc coated or other coating as specified), round, altered or T-head, diamond or chisel point, round smooth or deformed shank, as specified. Primarily intended for use with power-tools.





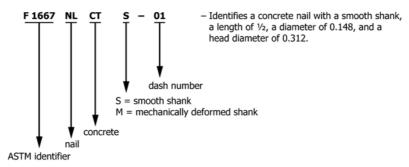
| | | | | | | | | F1667 | 7 NLCMM | | | | | | | | |
|----------|--------------|-------|------|--------------|-------|----------|--------------|-------|---------|--------------|-------|------|------|-------|------|------|-------|
| Dash No. | L | D | Dash | L | D | Dash No. | L | D | Dash | L | D | Dash | L | D | Dash | L | D |
| | | | No. | | | | | | No. | | | No. | | | No. | | |
| 01 | 11/4 | 0.080 | 15 | 13/4 | 0.086 | 29 | 2 | 0.148 | 43 | 13/4 | 0.120 | 57 | 23/8 | 0.113 | 71 | 3 | 0.131 |
| 02 | 11/4 | 0.086 | 16 | 13/4 | 0.092 | 30 | 21/4 | 0.092 | 44 | 1 7/8 | 0.120 | 58 | 23/8 | 0.120 | 72 | 3 | 0.148 |
| 03 | 11/4 | 0.092 | 17 | 13/4 | 0.099 | 31 | 21/4 | 0.099 | 45 | 1 7/8 | 0.131 | 59 | 23/8 | 0.131 | 73 | 31/4 | 0.120 |
| 04 | 11/4 | 0.099 | 18 | 13/4 | 0.113 | 32 | 21/4 | 0.113 | 46 | 1 7/8 | 0.148 | 60 | 23/8 | 0.148 | 74 | 31/4 | 0.131 |
| 05 | 11/2 | 0.080 | 19 | 17/8 | 0.080 | 33 | 21/2 | 0.092 | 47 | 2 | 0.120 | 61 | 21/2 | 0.120 | 75 | 31/4 | 0.148 |
| 06 | 11/2 | 0.086 | 20 | 1 7/8 | 0.086 | 34 | 21/2 | 0.099 | 48 | 2 | 0.131 | 62 | 21/2 | 0.148 | 76 | 31/2 | 0.135 |
| 07 | 11/2 | 0.092 | 21 | 1 7/8 | 0.092 | 35 | 21/2 | 0.113 | 49 | 21/8 | 0.099 | 63 | 21/2 | 0.162 | 77 | 31/2 | 0.148 |
| 08 | 11/2 | 0.099 | 22 | 1 7/8 | 0.099 | 36 | 21/2 | 0.131 | 50 | 21/8 | 0.113 | 64 | 25/8 | 0.148 | 78 | 31/2 | 0.162 |
| 09 | 11/2 | 0.113 | 23 | 1 7/8 | 0.113 | 37 | 31/2 | 0.131 | 51 | 21/8 | 0.120 | 65 | 23/4 | 0.120 | 79 | 4 | 0.148 |
| 10 | 1 5⁄8 | 0.080 | 24 | 2 | 0.080 | 38 | 11/2 | 0.120 | 52 | 21/8 | 0.131 | 66 | 23/4 | 0.131 | 80 | 4 | 0.162 |
| 11 | 1 5/8 | 0.086 | 25 | 2 | 0.086 | 39 | 11/2 | 0.131 | 53 | 21/8 | 0.148 | 67 | 23/4 | 0.148 | 81 | 41/2 | 0.148 |
| 12 | 1 5⁄8 | 0.092 | 26 | 2 | 0.092 | 40 | 11/2 | 0.148 | 54 | 21/4 | 0.120 | 68 | 27/8 | 0.120 | 82 | 41/2 | 0.162 |
| 13 | 1 5⁄8 | 0.099 | 27 | 2 | 0.099 | 41 | 11/2 | 0.162 | 55 | 21/4 | 0.131 | 69 | 3 | 0.120 | | | |
| 14 | 13/4 | 0.080 | 28 | 2 | 0.113 | 42 | 1 5/8 | 0.113 | 56 | 21/4 | 0.148 | 70 | 3 | 0.128 | | | |

^A All dimensions given in inches.



TABLE 16 Type I, Style 10—Concrete Nails^A

Note 1—Hardened steel, flat countersunk head, diamond point, smooth or mechanically deformed shank formed from round or square stock, as specified, bright finish.





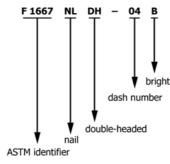
| | | F 1667 NLCTS | | |
|----------|-----|--------------|-------|--------|
| Dash No. | L | D | Н | No./lb |
| 01 | 1/2 | 0.148 | 0.312 | 450 |
| 02 | 5/8 | 0.148 | 0.312 | 350 |
| 03 | 3/4 | 0.148 | 0.312 | 290 |
| 04 | 7/8 | 0.148 | 0.312 | 250 |
| 05 | 1 | 0.148 | 0.312 | 210 |

| | | | | F 1667 | NLCTM | | | | |
|----------|------|-------|-------|--------|----------|------|-------|-------|--------|
| Dash No. | L | D | Н | No./lb | Dash No. | L | D | Н | No./lb |
| 01 | 3/4 | 0.181 | 0.284 | 240 | 05 | 2 | 0.181 | 0.284 | 93 |
| 02 | 1 | 0.181 | 0.284 | 204 | 06 | 21/2 | 0.181 | 0.284 | 68 |
| 03 | 11/2 | 0.181 | 0.284 | 116 | 07 | 23/4 | 0.181 | 0.284 | 60 |
| 04 | 13/4 | 0.181 | 0.284 | 112 | 08 | 3 | 0.181 | 0.284 | 52 |

^AAll dimensions are given in inches.

TABLE 17 Type I, Style 11—Double-Headed Nails (Duplex)^A

Note 1—Steel wire, flat heads, diamond point, round smooth shank, bright finish or zinc coated.



 Identifies a double-headed nail with a length of 3, a diamter of 0.162, a distance between heads of 3/8, and a bright finish B=bright Z = zinc

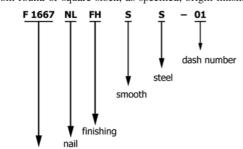
L*

| Dash No. | S | L | D | В | No./lb | Dash No. | S | L | D | В | No./lb |
|----------|----------|--|----------------|------------|-----------|----------|------------|---------|----------------|------------|----------|
| 01 02 | 6d 8d | 1 ³ / ₄ 2 ¹ / ₄ | 0.113 0.131 | 1/4 1/4 | 160 90 | 04 05 | 16d 20d | 3 3½ | 0.162 0.192 | 3/8 3/8 | 45 28 |
| 03 | 10d | 23/4 | 0.148 | 5/16 | 59 | 06 | 30d | 4 | 0.207 | 7/16 | 22 |

^AAll dimensions are given in inches.

TABLE 18 Type I, Style 12—Finish Nails^A

Note 1—Steel, stainless or aluminum wire, brad head, altered or clipped T-head for use with mechanical drivers, diamond or chisel point, smooth or deformed shank formed from round or square stock, as specified, bright finished.



 Identifies a steel finishing nail with a length of 1, a diameter of 0.058, and a head diameter of

0.086, and a smooth shank. S - Smooth S - Steel

D - Deformed SS - Stainless

A - Aluminum

0----

ASTM identifier

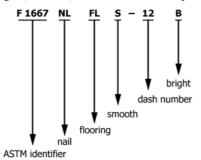
| \sim | | | | | | | | | | | _ |
|--------|-----|---|---|---|---|---|---|---|---|---|---|
| | 111 | _ | _ | • | • | • | • | • | • | _ | |
| | | | | | | | | | | | |

| Dash No. | S | L | D | Н | No./Ib | Dash No. | S | L | D | Н | No./lb |
|----------|----|------|-------|-------|--------|----------|-----|------|-------|-------|--------|
| 01 | 2d | 1 | 0.058 | 0.086 | 1.470 | 07 | 8d | 21/2 | 0.099 | 0.142 | 190 |
| 02 | 3d | 11/4 | 0.067 | 0.099 | 880 | 08 | 9d | 23/4 | 0.099 | 0.142 | 180 |
| 03 | 4d | 11/2 | 0.072 | 0.106 | 630 | 09 | 10d | 3 | 0.113 | 0.155 | 120 |
| 04 | 5d | 13/4 | 0.072 | 0.106 | 530 | 10 | 12d | 31/4 | 0.113 | 0.155 | 110 |
| 05 | 6d | 2 | 0.092 | 0.135 | 290 | 11 | 16d | 31/2 | 0.120 | 0.162 | 93 |
| 06 | 7d | 21/4 | 0.092 | 0.135 | 250 | 12 | 20d | 4 | 0.135 | 0.177 | 65 |

^AAll dimensions are given in inches.

TABLE 19 Type I, Style 13—Flooring Nails^A

Note 1—Hardened steel or carbon steel wire, casing head or flat-cupped countersunk head, diamond or blunt point, round, smooth or mechanically deformed shank, dark (hardened), bright (steel wire) or cement coated, as specified.



 Identifies a flooring nail with a length of 3½, a diameter of 0.148, a head diameter of 0.281, and a bright finish.

S = smooth

D = deformed

B = bright

C = cement coated

D = dark (hardened)

Smooth =

= Deformed



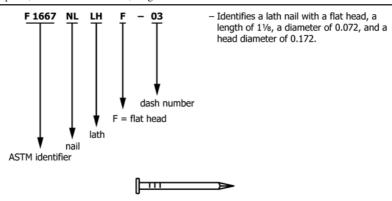


| Dash No. | S | L | D | Н | No./lb | Dash No. | S | L | D | Н | No./lb |
|----------|----|------|-------|-------|--------|----------|-----|------|-------|-------|--------|
| 01 | 2d | 1 | 0.072 | 0.141 | 840 | 07 | 7d | 21/4 | 0.113 | 0.203 | 160 |
| 02 | 3d | 11/4 | 0.072 | 0.141 | 700 | 08 | 8d | 21/2 | 0.135 | 0.177 | 100 |
| 03 | 4d | 11/2 | 0.080 | 0.156 | 430 | 09 | 8d | 21/2 | 0.113 | 0.203 | 110 |
| 04 | 4d | 11/2 | 0.092 | 0.156 | 370 | 10 | 10d | 3 | 0.135 | 0.250 | 82 |
| 05 | 5d | 13/4 | 0.092 | 0.156 | 310 | 11 | 12d | 31/4 | 0.135 | 0.250 | 75 |
| 06 | 6d | 2 | 0.113 | 0.203 | 180 | 12 | 16d | 31/2 | 0.148 | 0.281 | 58 |

^AAll dimensions are given in inches.

TABLE 20 Type I, Style 14—Lath Nails^A

Note 1—Steel wire, flat head, diamond point, round smooth shank, bright or blued finish.

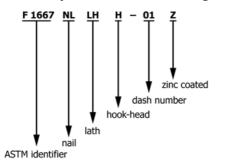


| | | F1 | 667 NLLHF | | |
|----------|----|------|-----------|-------|---------|
| Dash No. | S | L | D | Н | No./lb. |
| 01 | 2d | 1 | 0.058 | 0.141 | 1.280 |
| 02 | 3d | 11/8 | 0.062 | 0.156 | 980 |
| 03 | 3d | 11/8 | 0.072 | 0.172 | 760 |
| 04 | 4d | 1½ | 0.080 | 0.218 | 442 |

^AAll dimensions are given in inches.

TABLE 21 Type I, Style 14—Lath Nails^A

Note 1—Steel wire, flat hook-head, diamond point, round smooth shank, bright, blued, or zinc coated as specified.



Identifies a lath nail with a hook-head of 0.438, a length of 1½, and zinc coated.
 B = bright
 Z = zinc coated
 F = blued

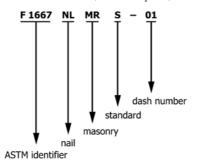


| | | F 1667 NLLHH | | |
|----------|------|--------------|-------|--------|
| Dash No. | L | D | Н | No./lb |
| 01 | 11/8 | 0.106 | 0.438 | 280 |

^AAll dimensions are given in inches.

TABLE 22 Type I, Style 15—Masonry Nails^A

Note 1—Hardened steel, flat or flat countersunk head, diamond point, mechanically deformed shank, bright finish.



 Identifies a standard masonry nail with a length of ½, a diameter 0.148, and a head diameter of 0.312.

S = standard H = heavy



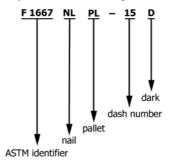
| | | | | F 1667 | NLMR | | | | |
|----------|------|-------|-------|--------|----------|------|-------|-------|--------|
| Dash No. | L | D | Н | No./Ib | Dash No. | L | D | Н | No./Ib |
| 01 | 1/2 | 0.148 | 0.312 | 340 | 09 | 21/2 | 0.148 | 0.312 | 76 |
| 02 | 3/4 | 0.148 | 0.312 | 280 | 10 | 33/4 | 0.148 | 0.312 | 70 |
| 03 | 1 | 0.148 | 0.312 | 170 | 11 | 3 | 0.148 | 0.312 | 67 |
| 04 | 11/4 | 0.148 | 0.312 | 140 | 12 | 31/4 | 0.148 | 0.312 | 60 |
| 05 | 11/2 | 0.148 | 0.312 | 130 | 13 | 31/2 | 0.162 | 0.344 | 48 |
| 06 | 13/4 | 0.148 | 0.312 | 110 | 14 | 33/4 | 0.162 | 0.344 | 45 |
| 07 | 2 | 0.148 | 0.312 | 98 | 15 | 4 | 0.177 | 0.375 | 35 |
| 08 | 21/4 | 0.148 | 0.312 | 84 | | | | | |
| | | | | F 1667 | NLMRH | | | | |
| Dash No. | L | D | Н | No./lb | Dash No. | L | D | Н | No./lb |
| 01 | 1 | 0.250 | 0.562 | 63 | 05 | 2 | 0.250 | 0.562 | 34 |
| 02 | 11/4 | 0.250 | 0.562 | 47 | 06 | 21/2 | 0.250 | 0.562 | 27 |
| 03 | 11/2 | 0.250 | 0.562 | 43 | 07 | 31/2 | 0.250 | 0.562 | 19 |
| 04 | 13/4 | 0.250 | 0.562 | 39 | 08 | 3 | 0.250 | 0.562 | 24 |

^AAll dimensions are given in inches.



TABLE 23 Type I, Style 16—Pallet Nails^A

Note 1—Hardened steel or steel wire (for mechanical drivers); flat head, altered or T-Head (for mechanical drivers); diamond, blunt chisel or blunt point; round, mechanically deformed shank; bright finish (steel wire); or dark (hardened), as specified.



Identifies a pallet nail with a length of 4, a diameter of 0.177, a head diameter of 0.438, and dark (hardened).
 B = bright
 D = dark (hardened)

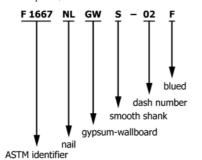


| Dash No. | L | D | Н | No. /Lb | Dash No. | L | D | Н | No. Lb |
|----------|------|-------|-------|---------|----------|------|-------|-------|--------|
| 01 | 11/2 | 0.120 | 0.281 | 190 | 31 | 13/4 | 0.099 | 0.255 | 262 |
| 02 | 15/8 | 0.120 | 0.281 | 170 | 32 | 13/4 | 0.099 | 0.280 | 262 |
| 03 | 2 | 0.120 | 0.281 | 140 | 33 | 2 | 0.084 | 0.200 | 318 |
| 04 | 21/4 | 0.120 | 0.281 | 130 | 34 | 2 | 0.086 | 0.235 | 304 |
| 05 | 21/2 | 0.120 | 0.281 | 120 | 35 | 2 | 0.090 | 0.245 | 277 |
| 06 | 21/2 | 0.135 | 0.312 | 93 | 36 | 2 | 0.099 | 0.255 | 229 |
| 07 | 3 | 0.120 | 0.281 | 98 | 37 | 2 | 0.099 | 0.280 | 229 |
| 08 | 3 | 0.135 | 0.312 | 79 | 38 | 2 | 0.105 | 0.270 | 204 |
| 09 | 3 | 0.148 | 0.312 | 66 | 39 | 2 | 0.113 | 0.280 | 176 |
| 10 | 31/4 | 0.135 | 0.312 | 73 | 40 | 21/4 | 0.084 | 0.200 | 283 |
| 11 | 31/4 | 0.148 | 0.312 | 61 | 41 | 21/4 | 0.086 | 0.235 | 270 |
| 12 | 31/2 | 0.148 | 0.312 | 57 | 42 | 21/4 | 0.099 | 0.255 | 204 |
| 13 | 31/2 | 0.162 | 0.375 | 47 | 43 | 21/4 | 0.099 | 0.280 | 204 |
| 14 | 31/2 | 0.177 | 0.438 | 38 | 44 | 21/4 | 0.105 | 0.270 | 181 |
| 15 | 4 | 0.177 | 0.438 | 35 | 45 | 21/4 | 0.113 | 0.280 | 156 |
| 16 | 4 | 0.177 | 0.375 | 35 | 46 | 21/2 | 0.095 | 0.260 | 199 |
| 17 | 5 | 0.177 | 0.375 | 27 | 47 | 21/2 | 0.099 | 0.255 | 183 |
| 18 | 6 | 0.177 | 0.375 | 23 | 48 | 21/2 | 0.099 | 0.280 | 183 |
| 19 | 7 | 0.207 | 0.500 | 15 | 49 | 21/2 | 0.113 | 0.280 | 141 |
| 20 | 8 | 0.207 | 0.500 | 13 | 50 | 21/2 | 0.113 | 0.290 | 141 |
| 21 | 11/4 | 0.080 | 0.215 | 561 | 51 | 21/2 | 0.120 | 0.290 | 125 |
| 22 | 11/4 | 0.099 | 0.255 | 367 | 52 | 21/2 | 0.131 | 0.280 | 105 |
| 23 | 11/4 | 0.099 | 0.280 | 367 | 53 | 23/4 | 0.113 | 0.290 | 128 |
| 24 | 11/2 | 0.080 | 0.215 | 468 | 54 | 23/4 | 0.120 | 0.285 | 113 |
| 25 | 11/2 | 0.099 | 0.255 | 305 | 55 | 3 | 0.113 | 0.280 | 117 |
| 26 | 11/2 | 0.099 | 0.280 | 305 | 56 | 31/4 | 0.120 | 0.290 | 96 |
| 27 | 15/8 | 0.105 | 0.270 | 251 | 57 | 31/4 | 0.131 | 0.280 | 81 |
| 28 | 13/4 | 0.084 | 0.200 | 364 | 58 | 31/2 | 0.131 | 0.280 | 75 |
| 29 | 13/4 | 0.086 | 0.235 | 347 | 59 | 4 | 0.120 | 0.280 | 78 |
| 30 | 13/4 | 0.090 | 0.245 | 317 | 60 | 4 | 0.131 | 0.280 | 65 |

All dimensions are given in inches.

TABLE 24 Type I, Style 17—Gypsum-Wallboard, Gypsumboard, and Drywall Nails^A

Note 1-Steel wire, flat head, diamond point, round smooth or deformed shank, bright or blued finish.



- Identifies a gypsumwallboard nail with a smooth shank, a length of 11/8, a diameter of 0.092, a head diameter of 0.375, and blued

S = smooth shank M = deformed shank

B = bright F = blued

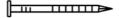


| | | F 1667 NLGWS | | |
|----------|------|--------------|-------|--------|
| Dash No. | L | D | Н | No./lb |
| 01 | 11/8 | 0.092 | 0.297 | 470 |
| 02 | 11/8 | 0.092 | 0.375 | 450 |
| 03 | 11/4 | 0.092 | 0.297 | 420 |
| 04 | 11/4 | 0.106 | 0.375 | 310 |
| 05 | 13/4 | 0.092 | 0.375 | 290 |

^AAll dimensions are given in inches.

TABLE 25 Type I, Style 17—Gypsum-Wallboard, Gypsumboard, and Drywall Nails^A

Note 1—Steel wire, flat slightly countersunk head, long diamond point, round mechanically deformed shank, bright or blued finish.



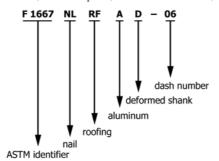
| | | F 1667 NLGWM | | |
|----------|-------------------|--------------|-------|--------|
| Dash No. | L | D | Н | No./lb |
| 01 | 11//8 | 0.099 | 0.250 | 380 |
| 02 | 11/4 | 0.099 | 0.250 | 340 |
| 03 | 1 ³ /8 | 0.099 | 0.250 | 320 |
| 04 | 11/2 | 0.099 | 0.250 | 290 |
| 05 | 15/8 | 0.099 | 0.250 | 270 |

^AAll dimensions are given in inches.



TABLE 26 Type I, Style 18—Aluminium Roofing Nails^A

Note 1—Aluminum alloy wire, flat head, diamond point, round smooth shank, or, deformed shank.



- Identifies an aluminum roofing nail with deformed shank, a length of 1 and a diamter of 0.120, a head diamter of 0.438
a smooth round shank.
S = Smooth shank
D = Deformed shank

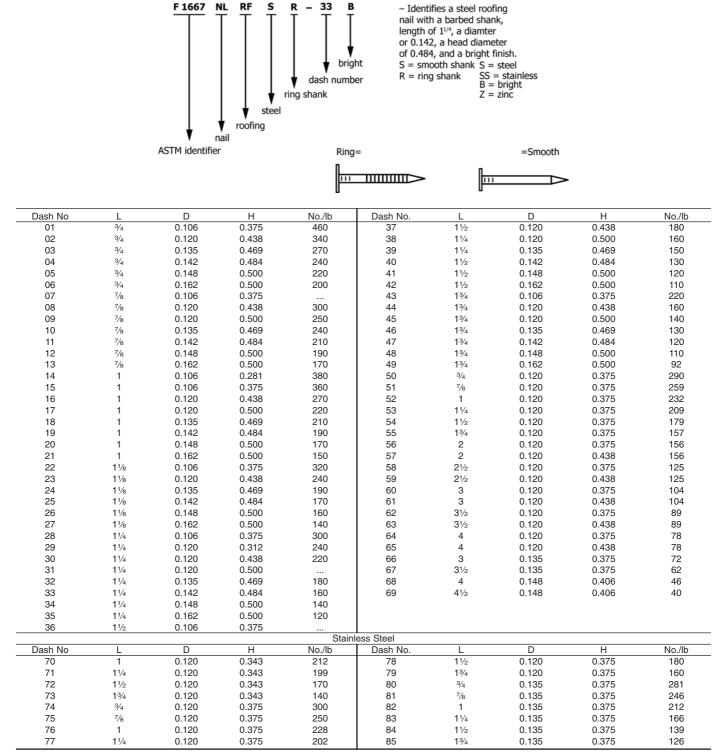


| | | | | F1667 | NLRFA | | | | |
|----------|------|-------|-------|--------|----------|------|-------|-------|----------|
| Dash No. | L | D | Н | No./lb | Dash No. | L | D | Н | No./ lb. |
| 01 | 3/4 | 0.120 | 0.438 | 940 | 11 | 11/2 | 0.135 | 0.438 | 420 |
| 02 | 3/4 | 0.135 | 0.438 | 750 | 12 | 13/4 | 0.135 | 0.438 | 370 |
| 03 | 7/8 | 0.120 | 0.438 | 830 | 13 | 2 | 0.135 | 0.438 | 340 |
| 04 | 7/8 | 0.135 | 0.438 | 660 | 14 | 21/2 | 0.145 | 0.438 | 230 |
| 05 | 1 | 0.120 | 0.438 | 700 | 15 | 11/4 | 0.148 | 0.438 | 440 |
| 06 | 1 | 0.135 | 0.438 | 600 | 16 | 11/2 | 0.148 | 0.438 | 360 |
| 07 | 1 | 0.135 | 0.438 | 580 | 17 | 13/4 | 0.148 | 0.438 | 330 |
| 08 | 11/4 | 0.120 | 0.438 | 620 | 18 | 2 | 0.148 | 0.438 | 290 |
| 09 | 11/4 | 0.135 | 0.438 | 490 | 19 | 21/2 | 0.148 | 0.438 | 230 |
| 10 | 11/2 | 0.120 | 0.438 | 520 | | | | | |



TABLE 27 Type I, Style 18—Steel Roofing Nails^A

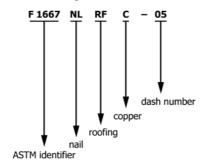
Note 1—Carbon steel or stainless steel wire; flat head; diamond point; round, smooth or ring shank; bright or zinc coated, as specified, for hand driving or for use with power tools.



^A All dimension are given in inches.

TABLE 28 Type I, Style 18—Copper-Clad Roofing Nails^A

Note 1—Copper-clad wire, flat head, diamond point, round smooth shank.



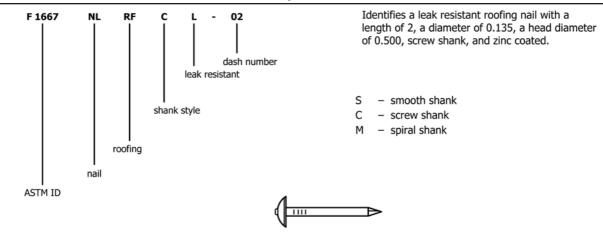
 Identifies a copper roofing nail with a length of 2, a diameter of 0.120, and a head diameter of 0.375.

| | | | | | F 1667 | NLRFC | | | | | |
|----------|----|------|-------|-------|--------|----------|----|------|-------|-------|--------|
| Dash No. | S | L | D | Н | No./lb | Dash No. | S | L | D | Н | No./lb |
| 01 | 2d | 1 | 0.120 | 0.375 | 280 | 04 | 5d | 13/4 | 0.120 | 0.375 | 160 |
| 02 | 3d | 11/4 | 0.120 | 0.375 | 220 | 05 | 6d | 2 | 0.120 | 0.375 | 140 |
| 03 | 4d | 11/2 | 0.120 | 0.375 | 190 | 06 | 7d | 21/4 | 0.120 | 0.375 | 130 |

^AAll dimensions are given in inches.

TABLE 29 Type I, Style 18—Umbrella Head Roofing Nails^A

Note 1—Carbon steel wire; leak-resistant umbrella head; diamond point; round smooth or deformed shank; zinc coated.



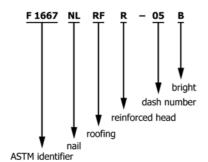
| Dash. No. | L | D | Н | No./Lb |
|-----------|------|-------|-------|--------|
| 1 | 13/4 | 0.135 | 0.500 | 110 |
| 2 | 2 | 0.135 | 0.500 | 98 |
| 3 | 2 | 0.135 | 0.750 | 73 |
| 4 | 2 | 0.148 | 0.750 | 62 |
| 5 | 2 | 0.148 | 0.813 | 60 |
| 6 | 21/2 | 0.135 | 0.750 | 64 |
| 7 | 21/2 | 0.148 | 0.750 | 53 |
| 8 | 21/2 | 0.148 | 0.813 | 53 |
| 9 | 3 | 0.148 | 0.813 | 47 |

^AAll dimensions are given in inches.



TABLE 30 Type I, Style 18—Steel Reinforced Head Roofing Nails^A

Note 1—Carbon steel wire, flat reinforced head, needle or diamond point, round smooth shank, bright or zinc coated, as specified. (For prepared felt roofing.)



 Identifies a reinforced head roofing nail with a length of 1, a diameter of 0.106, and a head diameter of 0.625, and a bright finish.
 B = bright Z = zinc coated

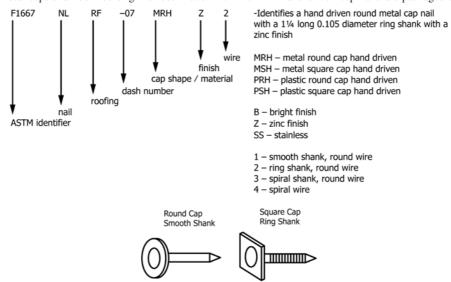


| | | | | F 1667 | NLRFR | | | | |
|----------|-----------------|-------|-------|--------|----------|------|-------|-------|--------|
| Dash No. | L | D | Н | No./lb | Dash No. | L | D | Н | No./lb |
| 01 | 3/4 | 0.106 | 0.625 | 190 | 06 | 1 | 0.120 | 0.625 | 150 |
| 02 | 3/4 | 0.120 | 0.625 | 170 | 07 | 11/8 | 0.106 | 0.625 | 170 |
| 03 | ⁷ /8 | 0.106 | 0.625 | 180 | 08 | 11/8 | 0.120 | 0.625 | 140 |
| 04 | 7/8 | 0.120 | 0.625 | 160 | 09 | 11/4 | 0.106 | 0.625 | 160 |
| 05 | 1 | 0.106 | 0.625 | 170 | 10 | 11/4 | 0.106 | 0.625 | 140 |

^AAll dimensions are given in inches.

TABLE 31 Type I, Style 18—Cap Nail-Hand Driven Roofing Nails^A

Note 1—Hand-driven cap nails shall have a 1 in. diameter round plastic or steel cap with a cap diameter tolerance of \pm 0.063 in., or a flat or domed square steel cap with an edge dimension 1 ± 0.063 in. Minimum thickness of the outside edge of plastic caps shall be 0.035 in. Minimum thickness of metal caps shall be 0.030 in. † Nails are steel or stainless steel; with a diamond point; smooth or deformed shanks from round or spiral wire; and bright or zinc finish. Nails with metal caps shall both be bright or both have zinc finish. All hand-driven cap nails are packaged as integral nail-cap units.



| | F | 1667 NLRFHD | | |
|----------|------------|-------------|-------|----------------|
| | | | No/Lt | o ^B |
| Dash No. | L | D | Steel | Plastic |
| | | Hand Driven | | |
| 01 | 1/2 | 0.105 | 130 | _ |
| 02 | 5/8 | 0.105 | 120 | _ |
| 03 | 3/4 | 0.105 | 115 | 362 |
| 04 | 7/8 | 0.105 | 110 | 339 |
| 05 | 1 | 0.105 | 110 | 323 |
| 06 | 1 ½ | 0.105 | 110 | _ |
| 07 | 11/4 | 0.105 | 100 | 269 |
| 08 | | not used | | |
| 09 | | not used | | |
| 10 | | not used | | |
| 11 | | not used | | |
| 12 | 3 | 0.106 | 70 | 118 |
| 13 | 3 | 0.120 | 50 | 70 |
| 14 | 11/2 | 0.105 | 96 | 219 |
| 15 | 1½ | 0.120 | 85 | 175 |
| 16 | 13/4 | 0.105 | 94 | 195 |
| 17 | 13/4 | 0.120 | 80 | 152 |
| 18 | 2 | 0.105 | 90 | 169 |
| 19 | 2 | 0.120 | 74 | 131 |
| 20 | 21/2 | 0.105 | 80 | 138 |
| 21 | 21/2 | 0.120 | 61 | 95 |
| 22 | 31/2 | 0.148 | 53 | _ |
| 23 | 4 | 0.148 | 32 | _ |
| 24 | 5 | 0.162 | 25 | _ |
| 25 | 6 | 0.162 | 20 | _ |
| 26 | 8 | 0.162 | 13 | _ |

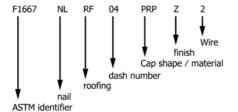
^AAll dimensions are given in inches.

^BDashes (—) indicate that the fastener size is not a standard size.

TABLE 32 Type I, Style 18—Cap Nail Power-Tool Driven Roofing Nails^A

Note 1—Power-tool driven cap nails have a 1 in. diameter plastic or steel cap with a cap diameter tolerance of \pm 0.063 in. Minimum thickness of the outside edge of plastic caps is 0.035 in. Minimum thickness of metal caps is 0.010 in. Nails are steel or stainless steel; with a diamond point; smooth or deformed shanks from round or spiral wire; and bright or zinc finish. Nails with metal caps shall both be bright or both have zinc finish. With power-tool driven cap nails, nails and caps may be packaged together or separately. Regardless of packaging, nails and caps are separately loaded into application tools with the nail being driven through the cap at point of application.

The nails used in the power driven cap nail systems are not considered roofing nails until they are combined with the cap.



-Identifies a power-tool driven round plastic cap nail with a $\bf 1$ in. long, 0.083 diameter zinc finish ring shank

B = bright finish MRP = Metal Round Cap Power Driven Z = zinc finish MSP = Metal Square Cap Power Driven

Z = zinc finish SS = stainless MSP = Metal Square Cap Power Driven PRP = Plastic Round Cap Power Driven PSP = Plastic Square Cap Power Driven

1-Smooth shank, round wire

2-Ring shank, round wire

3-Spiral shank, round wire

4-Spiral wire



F1667 NLRFPD

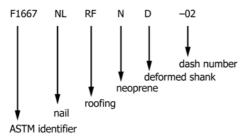
| | | OO7 ITELIA I D | | |
|----------|------|----------------|-------|----------------|
| | | | No/Lt | o ^B |
| Dash No. | L | D | Steel | Plastic |
| | | Power Driven | | |
| 01 | 3/4 | 0.120 | 185 | 268 |
| 02 | 7/8 | 0.083 | 200 | 400 |
| 03 | 7/8 | 0.120 | 168 | 240 |
| 04 | 1 | 0.083 | 196 | 355 |
| 05 | 1 | 0.120 | 154 | 215 |
| 06 | 11/4 | 0.080 | _ | 320 |
| 07 | 11/4 | 0.083 | 190 | 310 |
| 08 | 11/4 | 0.120 | 140 | 190 |
| 09 | 11/2 | 0.080 | _ | 290 |
| 10 | 11/2 | 0.083 | 183 | 280 |
| 11 | 11/2 | 0.120 | 126 | 165 |
| 12 | 13/4 | 0.083 | 176 | 265 |
| 13 | 13/4 | 0.120 | 106 | 140 |
| 14 | 2 | 0.083 | 170 | 250 |
| 15 | 2 | 0.091 | _ | 230 |
| 16 | 2 | 0.120 | 82 | 114 |

^AAll dimensions are given in inches.

 $^{^{\}it B}$ Dashes (—) indicate that the fastener size is not a standard size.

TABLE 33 Type I, Style 18—Washered-Aluminum Roofing Nails^A

Note 1—Aluminum alloy wire, flat head with neoprene washer (for aluminum roofing sheet), diamond point, round, smooth, or mechanically deformed shank, as specified.



-Identifies an aluminum roofing nail with a neoprene washer, a length of 2, a diameter of 0.135 and a head diameter of 0.438

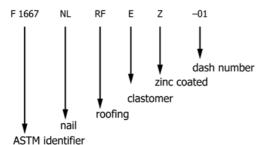
Smooth = = Deformed



| | F1667 NLRFNS | | | | | F1667 NLRFND | | | | | | |
|----------|--------------|-------|-------|---------|----------|--------------|-------|-------|---------|--|--|--|
| Dash No. | L | D | Н | No./lb. | Dash No. | L | D | Н | No./lb. | | | |
| 01 | 13/4 | 0.135 | 0.438 | 320 | 01 | 13/4 | 0.145 | 0.438 | 290 | | | |
| 02 | 2 | 0.135 | 0.438 | 280 | 02 | 2 | 0.145 | 0.438 | 260 | | | |
| 03 | 21/4 | 0.135 | 0.438 | 240 | 03 | 21/4 | 0.145 | 0.438 | 230 | | | |
| 04 | 21/2 | 0.135 | 0.438 | 210 | 04 | 21/2 | 0.145 | 0.438 | 210 | | | |

^AAll dimensions are given in inches.

TABLE 34 Type I, Style 18-Washered-Steel Roofing Nails



-Identifies zinc coated, ring shank roofing nail with a elastomer washer, a length of 1¾, a diameter of 0.135 and a head diameter of 0.438

Z - zinc coated

SS – Stainless

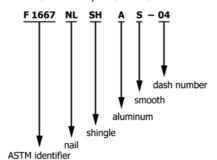
S - smooth shank



| F1667 NLRFE | | | | | | | | | | |
|-------------|------|-------|-------|---------|----------|------|-------|-------|--------|--|
| Dash No. | L | D | Н | No./lb. | Dash No. | L | D | Н | No./lb | |
| 01 | 11/2 | 0.135 | 0.375 | 118 | 09 | 2 | 0.135 | 0.438 | 99 | |
| 02 | 13/4 | 0.135 | 0.375 | 107 | 10 | 21/2 | 0.135 | 0.438 | 80 | |
| 03 | 2 | 0.135 | 0.375 | 96 | 11 | 3 | 0.135 | 0.438 | 77 | |
| 04 | 21/4 | 0.135 | 0.375 | 91 | 12 | 31/2 | 0.148 | 0.375 | 50 | |
| 05 | 21/2 | 0.135 | 0.375 | 80 | 13 | 4 | 0.148 | 0.406 | 45 | |
| 06 | 3 | 0.135 | 0.375 | 66 | 14 | 41/2 | 0.148 | 0.406 | 39 | |
| 07 | 11/2 | 0.135 | 0.438 | 129 | 15 | 41/2 | 0.148 | 0.438 | 39 | |
| 08 | 13/4 | 0.135 | 0.438 | 109 | | | | | | |

TABLE 35 Type I, Style 19—Shingle Nails^A

Note 1-Aluminum Alloy wire, flat head, diamond point, round, smooth or mechanically deformed shank, as specified.



- Identifies an aluminum shingle nail, smooth shank, with a length of 1¼, a diameter of 0.113, and a head diameter of 0.312. D = deformed shank S = smooth shank

Deformed Shank =

= Smooth Shank

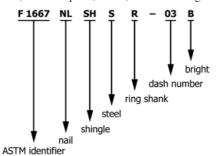


| | | F 1667 NLSHAD | | | F 1667 NLSHAS | | | | | | |
|----------|------|---------------|-------|--------|---------------|------|-------|-------|--------|--|--|
| Dash No. | L | D | Н | No./lb | Dash No. | L | D | Н | No./lb | | |
| 01 | 11/4 | 0.101 | 0.191 | 1060 | 01 | 7/8 | 0.099 | 0.281 | 1310 | | |
| 02 | 11/2 | 0.101 | 0.191 | 860 | 02 | 11/4 | 0.080 | 0.219 | 1480 | | |
| 03 | 13/4 | 0.105 | 0.191 | 720 | 03 | 11/4 | 0.099 | 0.281 | 1010 | | |
| 04 | 2 | 0.105 | 0.191 | 610 | 04 | 11/4 | 0.113 | 0.312 | 780 | | |
| 05 | 21/4 | 0.113 | 0.200 | 180 | 05 | 11/2 | 0.113 | 0.312 | 660 | | |
| 06 | 21/2 | 0.113 | 0.200 | 130 | 06 | 13/4 | 0.113 | 0.312 | 610 | | |

^AAll dimensions are given in inches.

TABLE 36 Type I, Style 19—Steel Shingle Nails^A

Note 1—Carbon steel wire, flat head, diamond point, round, smooth or ring shank, bright or zinc coated, as specified.



- Identifies a steel shingle nail with a ring shank, a length of 1¾, a diameter of 0.113, a head diameter of 0.406, and bright finish.
 - S = smooth shank
 - R = ring shank
 - B = bright
 - Z = zinc coated

= Ring

Smooth =



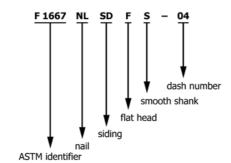


| | | F 1667 | NLSHSS | | | | | F 1667 NLSHNSI | 3 | |
|----------|------|--------------|--------|-------|--------|----------|------|----------------|-------|--------|
| Dash No. | S | L | D | Н | No./lb | Dash No. | L | D | Н | No./Ib |
| 01 | 3d | 11/4 | 0.092 | 0.250 | 410 | 01 | 11/4 | 0.113 | 0.406 | 250 |
| 02 | 3.5d | 13/ 8 | 0.099 | 0.281 | 310 | 02 | 11/2 | 0.113 | 0.406 | 210 |
| 03 | 4d | 11/2 | 0.106 | 0.281 | 260 | 03 | 13/4 | 0.113 | 0.406 | 180 |
| | | | | | | 04 | 2 | 0.113 | 0.406 | 162 |

^AAll dimensions are given in inches.

TABLE 37 Type I, Style 20—Siding Nails^A

Note 1—Aluminum alloy wire, flat head (insulated), casing or countersunk head (wood), as specified, diamond point, round smooth shank or, when specified, square-barbed shank.



 Identifies an aluminum siding nail with a smooth shank, a flat head, a length of 2½, a diameter of 0.135, a head diameter of 0.219.

S = smooth shank Q = barbed shank

F = flat head C = casing head

K = countersunk head

Flat Head = = Countersunk Head

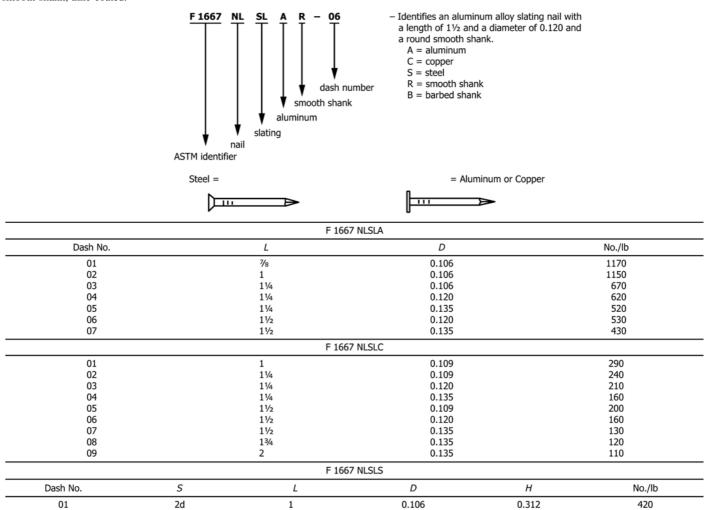
| | | F 1667 NLSDF | | |
|--------------|------|--------------|--------------|--------|
| Dash No. | L | D | Н | No./lb |
| 01 | 11/2 | 0.113 | 0.219 | 700 |
| 02 | 11/2 | 0.113 | 0.312 | 660 |
| 03 | 2 | 0.113 | 0.219 | 490 |
| 04 | 21/2 | 0.135 | 0.219 | 290 |
| F 1667 NLSDC | | | F 1667 NLSDK | |

| | | F 1667 | 7 NLSDC | | | | | F 1667 | NLSDK | | |
|----------|----|--------|---------|-------|--------|----------|----|--------|-------|-------|--------|
| Dash No. | 5 | L | D | Н | No./lb | Dash No. | S | L | D | Н | No./lb |
| 01 | 6d | 17/8 | 0.106 | 0.141 | 600 | 01 | 6d | 17/8 | 0.106 | 0.266 | 600 |
| 02 | 7d | 21/8 | 0.113 | 0.141 | 470 | 02 | 7d | 21/8 | 0.113 | 0.266 | 470 |
| 03 | 8d | 23/8 | 0.128 | 0.156 | 320 | 03 | 8d | 23/8 | 0.128 | 0.297 | 320 |
| 04 | 9d | 25/8 | 0.148 | 0.189 | 200 | 04 | 9d | 25/8 | 0.148 | 0.312 | 200 |

^AAll dimensions are given in inches.

TABLE 38 Type I, Style 21—Slating Nails^A

Note 1—Aluminum alloy, copper or steel wire as specified. Aluminum and copper nails shall have a flat head (0.312 to 0.375–in. diameter), diamond point, and round smooth shank or, when specified, square-barbed shank. Steel nails shall have a flat, slightly countersunk head, diamond point, round smooth shank, zinc coated.



0.128

0.128

0.135

0.148

0.375

0.375

0.406

0.438

220

190

140

100

11/4

11/2

13/4

2

3d

4d

5d

6d

02

03

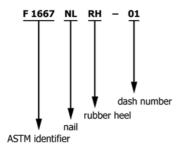
04

05

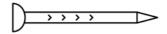
^AAll dimensions are given in inches.

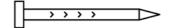
TABLE 39 Type I, Style 22—Rubber Heel Nails^A

Note 1—Steel wire, flat or countersunk head, as specified, needle point, round smooth shank, bright finish.



 Identifies a rubber heel nail with a length of 5/s, a diameter of 0.080, and a head diameter of 0.154.



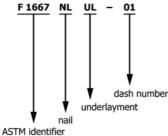


| Dash No. | L | D | Н | Dash No. | L | D | Н |
|----------|-----|-------|-------|----------|----|-------|-------|
| 01 | 5/8 | 0.080 | 0.154 | 04 | 1 | 0.080 | 0.154 |
| 02 | 3/4 | 0.080 | 0.154 | 05 | 1½ | 0.080 | 0.154 |
| 03 | 7/8 | 0.080 | 0.154 | 06 | 1½ | 0.080 | 0.154 |

^AAll dimensions are given in inches.

TABLE 40 Type I, Style 23—Underlayment Nails^A

Note 1—Steel wire, flat or flat, slightly countersunk head, diamond point, round, mechanically deformed shank, bright finish.



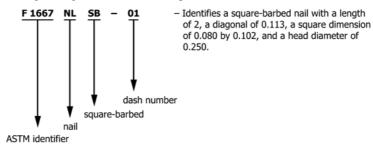
 Identifies an underlayment nail with a length of 1, a diameter of 0.080, and a head diameter of 0.188.

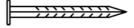
| Dash No. | L | D | Н | No./lb | Dash No. | L | D | Н | S | No./lb |
|----------|------|-------|-------|--------|----------|------|-------|-------|----|--------|
| 01 | 1 | 0.080 | 0.188 | | 07 | 11/2 | 0.099 | 0.250 | | 330 |
| 02 | 11/4 | 0.080 | 0.188 | 600 | 08 | 15/8 | 0.099 | 0.250 | | 300 |
| 03 | 11/4 | 0.099 | 0.250 | 400 | 09 | 13/4 | 0.099 | 0.250 | | 280 |
| 04 | 13/8 | 0.080 | 0.188 | 540 | 10 | 17/8 | 0.106 | 0.266 | 6d | 170 |
| 05 | 13/8 | 0.099 | 0.250 | 360 | 11 | 21/8 | 0.109 | 0.266 | 7d | 170 |
| 06 | 11/2 | 0.080 | 0.188 | 500 | 12 | 23/8 | 0.113 | 0.297 | 8d | 140 |

^AAll dimensions are given in inches.

TABLE 41 Type I, Style 24—Barbed Nails^A

Note 1—Steel wire, flat head, diamond point, square barbed shank, bright finish.



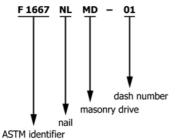


| Dash No. | S | Style | L | Diagonal | Square Dimension | Н | No./lb |
|----------|-----|--------|------|----------|----------------------|-------|--------|
| 01 | 6d | common | 2 | 0.113 | 0.080×0.102 | 0.250 | 200 |
| 02 | 8d | common | 21/2 | 0.131 | 0.092×0.120 | 0.266 | 120 |
| 03 | 10d | common | 3 | 0.148 | 0.105×0.135 | 0.281 | 84 |
| 04 | 16d | common | 31/2 | 0.162 | 0.113×0.149 | 0.312 | 59 |
| 05 | 20d | common | 4 | 0.192 | 0.135×0.170 | 0.375 | 39 |
| 06 | 6d | box | 2 | 0.099 | 0.072×0.089 | 0.250 | 260 |
| 07 | 8d | box | 21/2 | 0.113 | 0.080×0.102 | 0.266 | 150 |
| 08 | 6d | finish | 2 | 0.092 | 0.062×0.083 | 0.124 | 320 |
| 09 | 8d | finish | 21/2 | 0.099 | 0.072×0.089 | 0.131 | 230 |
| 10 | | truss | 11/2 | 0.131 | 0.092×0.120 | 0.281 | 190 |

^AAll dimensions are given in inches.

TABLE 42 Type I, Style 25—Masonry Drive Nails^A

Note 1—Hardened steel, flat head, cone pilot point, round, high pitch, multiple-start threaded shank, bright finish. When specified, masonry drive nails shall be proof lead tested.



 Identifies a masonry drive nail with a length of ³/₄ and a thread diameter of 0.125.

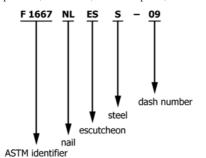


| Dash No. | S | L | Thread Diameter | Dash No. | S | L | Thread Diameter |
|----------|------|-----------------------------|-----------------|----------|------|----|-----------------|
| 01 | 3/32 | ³ / ₄ | 0.125 | 4 | 3/16 | 1½ | 0.215 |
| 02 | 1/8 | ³ / ₄ | 0.156 | 5 | 1/4 | 1½ | 0.258 |
| 03 | 5/32 | 1 | 0.188 | 6 | 5/16 | 2 | 0.330 |

^AAll dimensions are given in inches.

TABLE 43 Type I, Style 26—Escutcheon Nails^A

Note 1—Steel or brass wire, as specified, oval head, diamond point, round smooth shank.



- Identifies a steel escutcheon nail with a length of 1/2 and a diameter of 0.072. S = steel B = brass

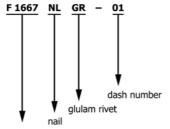


| Dash No. | L | D | Dash No. | L | D | Dash No. | L | D |
|----------|-----|-------|----------|------|-------|----------|---|-------|
| 01 | 1/4 | 0.035 | 14 | 3/4 | 0.072 | 27 | 2 | 0.080 |
| 02 | 1/4 | 0.048 | 15 | 3/4 | 0.080 | 28 | 2 | 0.092 |
| 03 | 1/4 | 0.062 | 16 | 3/4 | 0.092 | | | |
| 04 | 1/4 | 0.072 | 17 | 1 | 0.048 | | | |
| 05 | 1/4 | 0.080 | 18 | 1 | 0.062 | | | |
| 06 | 1/2 | 0.035 | 19 | 1 | 0.072 | | | |
| 07 | 1/2 | 0.048 | 20 | 1 | 0.080 | | | |
| 08 | 1/2 | 0.062 | 21 | 1 | 0.092 | | | |
| 09 | 1/2 | 0.072 | 22 | 11/4 | 0.062 | | | |
| 10 | 1/2 | 0.080 | 23 | 11/4 | 0.080 | | | |
| 11 | 1/2 | 0.092 | 24 | 11/4 | 0.092 | | | |
| 12 | 3/4 | 0.048 | 25 | 11/2 | 0.080 | | | |
| 13 | 3/4 | 0.062 | 26 | 11/2 | 0.092 | l | | |

^AAll dimensions are given in inches.

TABLE 44 Type I, Style 27—Glulam Rivet^A

Note 1—Hardened steel, flat countersunk head, diamond point, smooth shank, zinc coated, as specified.



- Identifies a glulam rivet with a length of 11/2, a diameter width of 0.250, a diameter thickness of 0.125, a head width of 0.345, and a head thickness of 0.220.

ASTM identifier



| | | " | | | | |
|----------|------|-----------------------------|--------------------------------|-------------------|----------------------------|--------|
| Dash No. | L | $D_{width}{}^{\mathcal{B}}$ | $D_{\mathrm{thickness}}{}^{B}$ | $H_{width}{}^{B}$ | $H_{\text{thickness}}^{B}$ | No./lb |
| 01 | 11/2 | 0.250 | 0.125 | 0.345 | 0.220 | 59 |
| 02 | 21/2 | 0.250 | 0.125 | 0.345 | 0.220 | 34 |
| 03 | 31/2 | 0.250 | 0.125 | 0.345 | 0.220 | 24 |

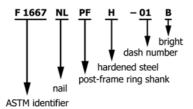
^AAll dimensions are given in inches.

^BTolerances: $D_{\rm w} = \pm 0.010$, $D_{\rm t} = \pm 0.005$, $H_{\rm w} = \pm 0.010$, and $H_{\rm t} = \pm 0.010$.



TABLE 45 Type I, Style 28—Post-Frame Ring-Shank Nails^A

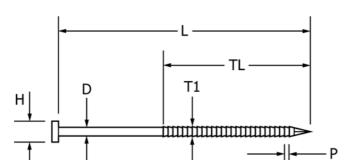
Note 1—Carbon steel, hardened carbon steel or stainless steel, flat head, diamond point, round, ring shank, bright or zinc-coated as specified. Nails shall comply with the supplementary requirements of S1 and Table S1.1or Table S1.2.



- Identifies a hardened steel ring shank post-frame nail with a diameter of 0.135, bright

> H = hardenedSS = stainless

B = bright Z = Zinc



| Dark Na | , | - | | T1–D | T1–D | TL | В | Б | Da at Diamata B |
|----------|------|-------|-------|------|------|-------|-----------|-----------|----------------------------|
| Dash No. | L | D | Н | max | min | min | P_{max} | P_{min} | Root Diameter ^B |
| 01 | 3 | 0.135 | 0.313 | .010 | .005 | 21/4 | .077 | .050 | 0.128 |
| 02 | 3 | 0.148 | 0.313 | .010 | .005 | 21/4 | .077 | .050 | 0.140 |
| 03 | 3 | 0.177 | 0.375 | .010 | .005 | 21/4 | .077 | .050 | 0.169 |
| 04 | 31/2 | 0.135 | 0.313 | .010 | .005 | 21/4 | .077 | .050 | 0.128 |
| 05 | 31/2 | 0.148 | 0.313 | .010 | .005 | 21/4 | .077 | .050 | 0.140 |
| 06 | 31/2 | 0.177 | 0.375 | .010 | .005 | 21/4 | .077 | .050 | 0.169 |
| 07 | 31/2 | 0.200 | 0.469 | .010 | .005 | 21/4 | .077 | .050 | 0.193 |
| 80 | 4 | 0.148 | 0.313 | .010 | .005 | 21/4 | .077 | .050 | 0.140 |
| 09 | 4 | 0.177 | 0.375 | .010 | .005 | 21/4 | .077 | .050 | 0.169 |
| 10 | 4 | 0.200 | 0.469 | .010 | .005 | 2.1/4 | .077 | .050 | 0.193 |
| 11 | 4 | 0.207 | 0.469 | .010 | .005 | 21/4 | .077 | .050 | 0.199 |
| 12 | 41/2 | 0.148 | 0.313 | .010 | .005 | 3 | .077 | .050 | 0.140 |
| 13 | 41/2 | 0.177 | 0.375 | .010 | .005 | 3 | .077 | .050 | 0.169 |
| 14 | 41/2 | 0.200 | 0.469 | .010 | .005 | 3 | .077 | .050 | 0.193 |
| 15 | 41/2 | 0.207 | 0.469 | .010 | .005 | 3 | .077 | .050 | 0.199 |
| 16 | 5 | 0.177 | 0.375 | .010 | .005 | 3 | .077 | .050 | 0.169 |
| 17 | 5 | 0.200 | 0.469 | .010 | .005 | 3 | .077 | .050 | 0.193 |
| 18 | 5 | 0.207 | 0.469 | .010 | .005 | 3 | .077 | .050 | 0.199 |
| 19 | 6 | 0.177 | 0.375 | .010 | .005 | 3 | .077 | .050 | 0.169 |
| 20 | 6 | 0.200 | 0.469 | .010 | .005 | 3 | .077 | .050 | 0.193 |
| 21 | 6 | 0.207 | 0.469 | .010 | .005 | 3 | .077 | .050 | 0.199 |
| 22 | 8 | 0.177 | 0.375 | .010 | .005 | 3 | .077 | .050 | 0.169 |
| 23 | 8 | 0.200 | 0.469 | .010 | .005 | 3 | .077 | .050 | 0.193 |
| 24 | 8 | 0.207 | 0.469 | .010 | .005 | 3 | .077 | .050 | 0.199 |

L length, in.,

Н head diameter, in.,

TL length of threaded shank, in.,

max maximum acceptable value (not subject to tolerances), minimum acceptable value (not subject to tolerances), min

D shank diameter, in., T1 crest diameter, in., and

Р pitch, or spacing of threads, in.

^AAll dimensions are given in inches.

^B Root diameter is a calculated value and is not specified as a dimension to be measured.



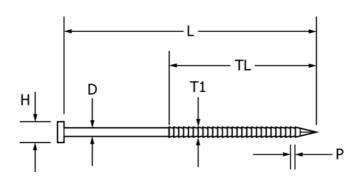
TABLE 46 Type I, Style 28—Roof Sheathing Ring Shank Nails A,B,C

Note 1-Flat head, diamond point, round, mechanically deformed shank, carbon steel (bright or zinc-coated) or stainless steel as specified.



-Identifies a deformed shank roof sheathing ring shank nail with a length of 2-3/8, shank diameter of 0.113, head diameter of 0.281, and bright finish

B = bright Z = zinc coated



| D 1 N | , | - | ., | T1-D | T1-D | TL^D | Б. | |
|----------|------|-------|-------|------|------|--------|------------------|-----------|
| Dash No. | L | D | Н | max | min | min | P_{max} | P_{min} |
| 01 | 23/8 | 0.113 | 0.281 | .012 | .005 | 11/2 | .077 | .050 |
| 02 | 21/2 | 0.120 | 0.281 | .012 | .005 | 11/2 | .077 | .050 |
| 03 | 21/2 | 0.131 | 0.281 | .012 | .005 | 11/2 | .077 | .050 |
| 04 | 3 | 0.120 | 0.281 | .012 | .005 | 11/2 | .077 | .050 |
| 05 | 3 | 0.131 | 0.281 | .012 | .005 | 11/2 | .077 | .050 |

L = length, in.,

H = head diameter, in.,

TL = length of threaded shank, in.,

max
 maximum acceptable value (not subject to tolerances),
 min
 minimum acceptable value (not subject to tolerances),

D = shank diameter, in.,
T1 = crest diameter, in., and

T1 = crest diameter, in., and P = pitch, or spacing of threads, in.

^A All dimensions are given in inches.

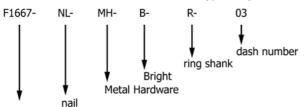
^B Nails shall comply with the supplementary requirements of S1 and Table S1.1.

C Nails identified as "F1667 NLRSRS" must meet all applicable requirements of F1667 for the specified roof sheathing ring shank nail.

^D Individual rings shall be approximately frustums, circular in transverse cross section, axially symmetric, and formed on the nail axis such that the minor diameter is closer to the nail point and the major diameter is closer to the nail head. The thread shall be continuous over the minimum thread length, TL_{min}.



TABLE 47 Type I, Style 29 — Metal Hardware Nails A,B,C



-Identifies a bright ring shank nail with a length of 2% a diameter of 0.131 and a head of 0.281 inches

SS - Stainless

B - bright

Z – zinc

S - Smooth shank

R – Ring shank



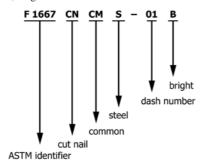
| Dash No. | L | D | Н | |
|----------|------|-------|-------|--|
| 01 | 11/4 | 0.131 | 0.281 | |
| 02 | 11/2 | 0.131 | 0.281 | |
| 03 | 21/4 | 0.131 | 0.281 | |
| 04 | 23/8 | 0.131 | 0.281 | |
| 05 | 21/2 | 0.131 | 0.281 | |
| 06 | 11/4 | 0.148 | 0.281 | |
| 07 | 11/2 | 0.148 | 0.281 | |
| 08 | 21/2 | 0.148 | 0.281 | |
| 09 | 3 | 0.148 | 0.281 | |
| 10 | 31/2 | 0.148 | 0.281 | |
| 11 | 21/2 | 0.162 | 0.281 | |
| 12 | 3 | 0.162 | 0.281 | |
| 13 | 31/2 | 0.162 | 0.281 | |

^AAll dimensions are given in inches.

ASTM Identifier

TABLE 48 Type II, Style 1—Common Cut Nails^A

Note 1—Steel or copper, flat head, bright finish.



 Identifies a common steel, cut nail with a length of 1, bright finish.

C = copper

S = steel

B = bright Z = zinc coated



| Dash No. | S | L | Dash No. | S | L | Dash No. | S | L |
|----------|-------|------|----------|-----|------|----------|-----|------|
| 01 | 2d | 1 | 07 | 7d | 21/4 | 13 | 20d | 4 |
| 02 | 3d | 11/4 | 08 | 8d | 21/2 | 14 | 30d | 41/2 |
| 03 | 31/2d | 13/8 | 09 | 9d | 23/4 | 15 | 40d | 5 |
| 04 | 4d | 11/2 | 10 | 10d | 3 | 16 | 50d | 51/2 |
| 05 | 5d | 13/4 | 11 | 12d | 31/4 | 17 | 60d | 6 |
| 06 | 6d | 2 | 12 | 16d | 31/2 | | | |

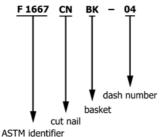
^AAll dimensions are given in inches.

^BNails shall comply with the supplementary requirements of S1 and Table S1.1

Nail heads thickness measured at the rim of the head shall be 0.040 - 0.070 inches and does not include any raised lettering.

TABLE 49 Type II, Style 2—Basket Cut Nails^A

Note 1-Steel, flat head, bright finish.



 Identifies a basket cut nail with a length of 1, a thickness of 0.058, and a head diameter of 0.220.

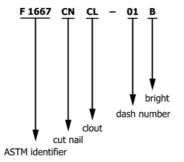


| Dash No. | L | Т | Н | No./lb |
|----------|-----|-------|-------|--------|
| 01 | 5/8 | 0.049 | 0.180 | 2080 |
| 02 | 3/4 | 0.049 | 0.180 | 1500 |
| 03 | 7/8 | 0.058 | 0.203 | 1060 |
| 04 | 1 | 0.058 | 0.220 | 930 |

^AAll dimensions are given in inches.

TABLE 50 Type II, Style 3—Clout Cut Nails^A

Note 1—Steel, flat head, bright finish, blued or zinc coated, as specified (see 5).



- Identifies a clout, cut nail with a length of ¾, a thickness of 0.065, and a head diameter of 0.220, bright finish.
 - B = bright F = blued Z = zinc coated



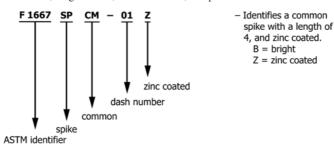
| Dash No. | L | T | Н | No./lb |
|----------|------|--------|-------|--------|
| 01 | 3/4 | 0.065 | 0.220 | 960 |
| 02 | 7/8 | 0.0685 | 0.238 | 770 |
| 03 | 1 | 0.072 | 0.259 | 580 |
| 04 | 11/4 | 0.0775 | 0.284 | 380 |

^AAll dimensions are given in inches.



TABLE 51 Type III, Style 1—Common Spikes^A

Note 1—These spikes shall be sheared from medium carbon sheet steel and shall have a wedged-shaped shank with a square point end narrower than the upset head end. They shall have a flat head, bright finish, or zinc coated, as specified.





| Dash No. | S | L | Dash No. | S | L |
|----------|-----|------|----------|------|---|
| 01 | 20d | 4 | 05 | 60d | 6 |
| 02 | 30d | 41/2 | 06 | 80d | 7 |
| 03 | 40d | 5 | 07 | 100d | 8 |
| 04 | 50d | 51/2 | | | |

^AAll dimensions are given in inches.

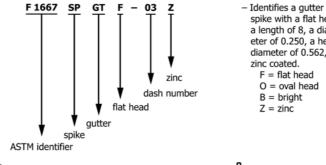
TABLE 52 Type III, Style 2—Gutter Spikes^A

spike with a flat head, a length of 8, a diameter of 0.250, a head diameter of 0.562, and zinc coated. F = flat head O = oval head

B = bright

Z = zinc

Note 1-Steel wire, oval head, chisel point, flat head, diamond point, bright finish or zinc coated, as specified.



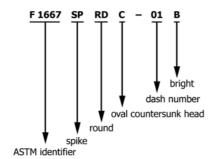


| | F 1667 | 7 SPGTF | |
|----------|--------|---------|-------|
| Dash No. | L | D | Н |
| 01 | 61/2 | 0.250 | 0.562 |
| 02 | 7 | 0.250 | 0.562 |
| 03 | 8 | 0.250 | 0.562 |
| 04 | 81/2 | 0.250 | 0.562 |
| 05 | 9 | 0.250 | 0.562 |
| 06 | 10 | 0.250 | 0.562 |
| 07 | 101/2 | 0.250 | 0.562 |
| | F 1667 | SPGTO | |
| Dash No. | L | D | Н |
| 01 | 61/2 | 0.250 | 0.531 |
| 02 | 7 | 0.250 | 0.531 |
| 03 | 8 | 0.250 | 0.531 |
| 04 | 81/2 | 0.250 | 0.531 |
| 05 | 9 | 0.250 | 0.531 |
| 06 | 10 | 0.250 | 0.531 |
| 07 | 101/2 | 0.250 | 0.531 |

^AAll dimensions are given in inches.

TABLE 53 Type III, Style 3—Round Spikes^A

Note 1—Steel wire, oval countersunk head, chisel point, flat head, diamond point, bright finish or zinc coated, as specified.



 Identifies a round spike with an oval head, a length of 5, a shank diameter of 0.2625, a head diameter of 0.531, and a bright finish.

C = oval countersunk head

F = flat head

B = bright Z = zinc coated

Over Head CS =

= Flat Head



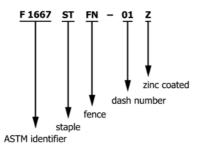


| | F1667 SPRDC ^A | | | | | F1667 SPRDF ^A | | | |
|----------|--------------------------|------|--------|-------|----------|--------------------------|-------|-------|--|
| Dash No. | S | L | D | Н | Dash No. | L | D | Н | |
| 01 | 40d | 5 | 0.2625 | 0.531 | 01 | 8 | 0.312 | 0.625 | |
| 02 | 50d | 51/2 | 0.283 | 0.562 | 02 | 8 | 0.312 | 0.750 | |
| 03 | 60d | 6 | 0.283 | 0.562 | 03 | 9 | 0.312 | 0.750 | |
| 04 | | 7 | 0.312 | 0.625 | 04 | 10 | 0.312 | 0.750 | |
| | | | | | 05 | 8 | 0.375 | 0.750 | |

^AAll dimensions are given in inches.

TABLE 54 Type IV, Style 1—Fence Staples^A

Note 1-Steel wire, bright finish or zinc coated, as specified.



- Identifies a fence staple with a length of %, a diameter of 0.1483, and zinc coated. B = bright Z = zinc

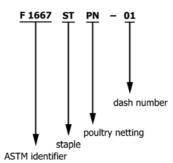


| Dash No. | L | D | No./lb |
|----------|------|--------|--------|
| 01 | 7/8 | 0.1483 | 120 |
| 02 | 1 | 0.1483 | 110 |
| 03 | 11/s | 0.1483 | 97 |
| 04 | 11/4 | 0.1483 | 87 |
| 05 | 11/2 | 0.1483 | 72 |
| 06 | 13/4 | 0.1483 | 61 |

^AAll dimensions are given in inches.

TABLE 55 Type IV, Style 2—Poultry Netting Staples^A

Note 1—Steel wire, zinc coated.



– Identifies a poultry netting staple with a length of 34 and a diameter of 0.080.



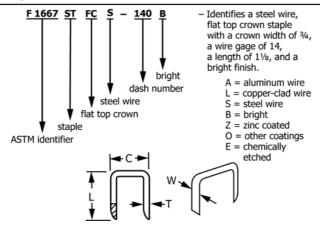
| Dash No. | L | D | No./lb |
|----------|-----|-------|--------|
| 01 | 3/4 | 0.080 | 500 |

^AAll dimensions are given in inches.



TABLE 56 Type IV, Style 3—Flat Top Crown Staples^A

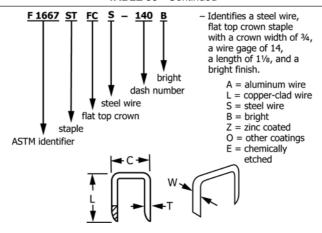
Note 1—Steel wire, aluminum alloy wire, bright finish, zinc coated, other coatings or chemically etched, as specified. (For use in power tools for fastening wood and other materials to wood.)



| | F1667 STFC | | | | | | | | |
|----------|------------|----|------|----------|------|----|--------------|--|--|
| Dash No. | С | G | L | Dash No. | С | G | L | | |
| 01 | 3/16 | 18 | 3/8 | 51 | 7/16 | 14 | 11/2 | | |
| 02 | 3/16 | 18 | 1/2 | 52 | 7/16 | 14 | 1 5⁄8 | | |
| 03 | 3/16 | 18 | 5/8 | 53 | 7/16 | 14 | 13/4 | | |
| 04 | 3/16 | 18 | 3/4 | 54 | 7/16 | 14 | 17/8 | | |
| 05 | 3/16 | 18 | 7/8 | 55 | 7/16 | 14 | 2 | | |
| 06 | 3/16 | 18 | 1 | 56 | 7/16 | 14 | 21/4 | | |
| 07 | 3/16 | 18 | 11/8 | 57 | 7/16 | 14 | 21/2 | | |
| 08 | 3/16 | 18 | 11/4 | 58 | 7/16 | 15 | 3/8 | | |
| 09 | 3/8 | 14 | 3/8 | 59 | 7/16 | 15 | 1/2 | | |
| 10 | 3/8 | 14 | 1/2 | 60 | 7/16 | 15 | 5/8 | | |
| 11 | 3/8 | 14 | 5/8 | 61 | 7/16 | 15 | 3/4 | | |
| 12 | 3/8 | 14 | 3/4 | 62 | 7/16 | 15 | 7/8 | | |
| 13 | 3/8 | 14 | 7/8 | 63 | 7/16 | 15 | 1 | | |
| 14 | 3/8 | 14 | 11/8 | 64 | 7/16 | 15 | 11/8 | | |
| 15 | 3/8 | 14 | 11/4 | 65 | 7/16 | 15 | 11/4 | | |
| 16 | 3/8 | 14 | 13/8 | 66 | 7/16 | 15 | 13/8 | | |
| 17 | 3/8 | 14 | 11/2 | 67 | 7/16 | 15 | 11/2 | | |
| 18 | 3/8 | 14 | 15/8 | 68 | 7/16 | 15 | 15/8 | | |
| 19 | 3/8 | 14 | 15/8 | 69 | 7/16 | 15 | 13/4 | | |
| 20 | 3/8 | 16 | 13/4 | 70 | 7/16 | 15 | 17/8 | | |
| 21 | 3/8 | 16 | 1/2 | 71 | 7/16 | 15 | 2 | | |
| 22 | 3/8 | 16 | 5/8 | 72 | 7/16 | 15 | 21/4 | | |
| 23 | 3/8 | 16 | 3/4 | 73 | 7/16 | 15 | 21/2 | | |
| 24 | 3/8 | 16 | 7/8 | 74 | 7/16 | 16 | 3/8 | | |
| 25 | 3/8 | 16 | 11/8 | 75 | 7/16 | 16 | 1/2 | | |
| 26 | 3/8 | 16 | 11/4 | 76 | 7/16 | 16 | 5/6 | | |
| 27 | 3/8 | 16 | 13/8 | 77 | 7/16 | 16 | 3/4 | | |
| 28 | 3/8 | 16 | 11/2 | 78 | 7/16 | 16 | 7/8 | | |
| 29 | 3/8 | 16 | 15/8 | 79 | 7/16 | 16 | 1 | | |
| 30 | 3/8 | 16 | 13/4 | 80 | 7/16 | 16 | 11/8 | | |
| 31 | 3/8 | 18 | 3/8 | 81 | 7/16 | 16 | 11/4 | | |
| 32 | 3/8 | 18 | 1/2 | 82 | 7/16 | 16 | 1% | | |
| 33 | 3/8 | 18 | 5/8 | 83 | 7/16 | 16 | 11/2 | | |
| 34 | 3/8 | 18 | 3/4 | 84 | 7/16 | 16 | 1 5⁄8 | | |
| 35 | 3/8 | 18 | 7/8 | 85 | 7/16 | 16 | 13/4 | | |
| 36 | 3/8 | 18 | 11/8 | 86 | 7/16 | 16 | 17/8 | | |
| 37 | 3/8 | 18 | 11/4 | 87 | 7/16 | 16 | 2 | | |
| 38 | 3/8 | 18 | 11/4 | 88 | 7/16 | 16 | 21/4 | | |
| 39 | 3/8 | 18 | 11/2 | 89 | 7/16 | 16 | 21/2 | | |
| 40 | 3/8 | 18 | 15/8 | 90 | 1/2 | 14 | 1/2 | | |
| 41 | 3/8 | 18 | 13/4 | 91 | 1/2 | 14 | 5/8 | | |
| 42 | 7/16 | 14 | 3/8 | 92 | 1/2 | 14 | 3/4 | | |
| 43 | 7/16 | 14 | 1/2 | 93 | 1/2 | 14 | 7/8 | | |
| 44 | 7/16 | 14 | 5/8 | 94 | 1/2 | 14 | 1 | | |
| 45 | 7/16 | 14 | 3/4 | 95 | 1/2 | 14 | 11/8 | | |
| 46 | 7/16 | 14 | 7/8 | 96 | 1/2 | 14 | 11/4 | | |
| 47 | 7/16 | 14 | 1 | 97 | 1/2 | 14 | 13/8 | | |
| 48 | 7/16 | 14 | 11/8 | 98 | 1/2 | 14 | 11/2 | | |
| 49 | 7/16 | 14 | 11/4 | 99 | 1/2 | 14 | 15/8 | | |
| 50 | 7/16 | 14 | 13/8 | 100 | 1/2 | 14 | 13/4 | | |
| 101 | 1/2 | 14 | 17⁄8 | 151 | 3/4 | 16 | 7/8 | | |

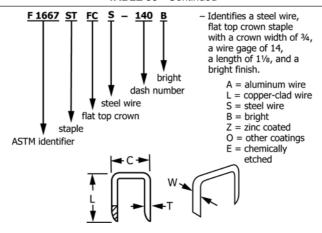


TABLE 56 Continued



| | | | | F1667 STFC | | | |
|----------|------------------------|----|--|------------|-------------------------------|----|-----------------------------|
| Dash No. | С | G | L | Dash No. | С | G | L |
| 102 | 1/2 | 14 | 2 | 152 | 3/4 | 16 | 1 |
| 103 | 1/2 | 14 | 21/4 | 153 | 3/4 | 16 | 11/8 |
| 104 | 1/2 | 14 | 21/2 | 154 | 3/4 | 16 | 11/4 |
| 105 | 1/2 | 15 | 1/2 | 155 | 3/4 | 16 | 1 3⁄8 |
| 106 | 1/2 | 15 | 5/8 | 156 | 3/4 | 16 | 11/2 |
| 107 | 1/2 | 15 | 3/4 | 157 | 3/4 | 16 | 1 5⁄/8 |
| 108 | 1/2 | 15 | 7/8 | 158 | 3/4 | 16 | 13/4 |
| 109 | 1/2 | 15 | 1 | 159 | 3/4 | 16 | 1 7/8 |
| 110 | 1/2 | 15 | 11/8 | 160 | 3/4 | 16 | 2 |
| 111 | 1/2 | 15 | 11/4 | 161 | 7/8 | 14 | 1/2 |
| 112 | 1/2 | 15 | 13/8 | 162 | 7/8 | 14 | 5/8 |
| 113 | 1/2 | 15 | 11/2 | 163 | 7/8 | 14 | 3/4 |
| 114 | 1/2 | 15 | 15/8 | 164 | 7/8 | 14 | 7/8 |
| 115 | 1/2 | 15 | 13/4 | 165 | 7/8 | 14 | 1 |
| 116 | 1/2 | 15 | 17/8 | 166 | 7/8 | 14 | 11/8 |
| 117 | 1/2 | 15 | 2 | 167 | 7/8 | 14 | 11/4 |
| 118 | 1/2 | 15 | 21/4 | 168 | 7/8 | 14 | 13/8 |
| 119 | 1/2 | 15 | 21/2 | 169 | 7/8 | 14 | 1½ |
| 120 | 1/2 | 16 | 1/2 | 170 | 7/8 | 14 | 15/8 |
| 121 | 1/2 | 16 | 5/8 | 171 | 7/8 | 14 | 13/4 |
| 122 | 1/2 | 16 | 3/4 | 172 | ⁷ /8 | 14 | 17/8 |
| 123 | 1/2 | 16 | 7/8 | 173 | 7/8 | 14 | 2 |
| 124 | 1/2 | 16 | 1 | 174 | 7/8 | 16 | 1/2 |
| 125 | 1/2 | 16 | 11/8 | 175 | 7/8 | 16 | 5/8 |
| 126 | 1/2 | 16 | 11/4 | 176 | 7/8 | 16 | 3/4 |
| 127 | 1/2 | 16 | 13/8 | 177 | 7/8 | 16 | 7/8 |
| 128 | 1/2 | 16 | 1½ | 178 | 7/8 | 16 | 1 |
| 129 | 1/2 | 16 | 15/8 | 179 | 7/8 | 16 | 11/8 |
| 130 | 1/2 | 16 | 13/4 | 180 | 7/8 | 16 | 11/4 |
| 131 | 1/2 | 16 | 17/8 | 181 | 7/8 | 16 | 13/8 |
| 132 | 1/2 | 16 | 2 | 182 | 7/8 | 16 | 11/2 |
| 133 | 1/2 | 16 | 21/4 | 183 | 7/8 | 16 | 1 ½ 15/8 |
| 134 | 72 1/2 | 16 | 2½ 2½ | 184 | 7/8 7/ ₈ | 16 | 1% 1¾ |
| 135 | 3/4 | 14 | 1/2 | 185 | 7/8 | 16 | 17/8 |
| 136 | 3/4 | 14 | 5/8 | 186 | 7/8 | 16 | 2 |
| 137 | 3/4 | 14 | ⁷⁸ ³ / ₄ | 187 | 15/16 | 14 | 1/2 |
| 138 | 9/4 3/ ₄ | 14 | 7/8 | 188 | 15/16 | 14 | 72 5/8 |
| 139 | 9/4 3/ ₄ | 14 | ^{7/8} 1 | 189 | 15/16 | 14 | 9/8 3/4 |
| 140 | 3/ ₄ | 14 | 1 1½ | 190 | 15/16 | 14 | 7/8 |
| 141 | 3/4 | 14 | 11/4 | 191 | 15/16 | 14 | 1 |
| 142 | 3/4 | 14 | 13/8 | 192 | 15/16 | 14 | 1 1½ |
| 143 | 9/4 3/ ₄ | 14 | 1 1/2 | 192 | 19/16 15/16 | 14 | 1 1/8 1 1/4 |
| 144 | 9/4 3/ ₄ | 14 | 1 ½ 15/8 | 193 | 15/16 | 14 | 1 7/4 13/8 |
| 145 | 9/4 3/ ₄ | 14 | 1% 13/4 | 194 | 19/16 15/16 | 14 | 1 1/2 |
| 145 | 9/4 3/ ₄ | 14 | 1% 1% | 195 | 15/16 15/ ₁₆ | 16 | 1 ½ 1/2 |
| 147 | 9/4 3/ ₄ | 14 | 2 | 196 | 15/16 | 16 | ¹ /2 5/6 |
| 148 | 9/4 3/ ₄ | 16 | 1/2 | 197 | 19/16 15/16 | 16 | %6 3/4 |
| 149 | 9/4 3/ ₄ | | | 198 | | | |
| | | 16 | 5/ ₈ | | 15/ ₁₆ | 16 | ⁷ / ₈ |
| 150 | 3/4 | 16 | 3/4 | 200 | ¹⁵ / ₁₆ | 16 | 1 |
| 201 | 15/ ₁₆ | 16 | 11/8 | 218 | 1 | 16 | 1 |
| 202 | 15/ ₁₆ | 16 | 11/4 | 219 | 1 | 16 | 11/8 |
| 203 | 15/ ₁₆ | 16 | 13/8 | 220 | 1 | 16 | 11/4 |
| 204 | 15/16 | 16 | 1½ | 221 | 1 | 16 | 13/8 |
| 205 | 1 | 14 | 1/2 | 222 | 1 | 16 | 11/2 |

TABLE 56 Continued



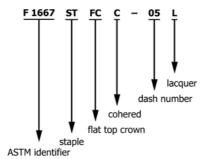
| | | | | F1667 STFC | | | | |
|----------|---|----|------|------------|--------|----|------|--|
| Dash No. | С | G | L | Dash No. | С | G | L | |
| 206 | 1 | 14 | 5/8 | 223 | 13/8 | 12 | 3/4 | |
| 207 | 1 | 14 | 3/4 | 224 | 117/32 | 12 | 3/4 | |
| 208 | 1 | 14 | 7/8 | 225 | 21/8 | 10 | 1 | |
| 209 | 1 | 14 | 1 | 226 | 1/4 | 18 | 3/8 | |
| 210 | 1 | 14 | 11/8 | 227 | 1/4 | 18 | 1/2 | |
| 211 | 1 | 14 | 11/4 | 228 | 1/4 | 18 | 5/8 | |
| 212 | 1 | 14 | 13/8 | 229 | 1/4 | 18 | 3/4 | |
| 213 | 1 | 14 | 11/2 | 230 | 1/4 | 18 | 7/8 | |
| 214 | 1 | 16 | 1/2 | 231 | 1/4 | 18 | 1 | |
| 215 | 1 | 16 | 5/8 | 232 | 1/4 | 18 | 11/8 | |
| 216 | 1 | 16 | 3/4 | 233 | 1/4 | 18 | 11/4 | |
| 217 | 1 | 16 | 7/8 | 234 | 1/4 | 18 | 11/2 | |

| | | | | Dimension | ons and Tole | erances for (| Gages of Fla | t Top Crown | Staples | | | | |
|-----------|---|-------|-------|-----------|--------------|---------------|--------------|-------------|---------|-------|------|-------|-------|
| | | 10 (| Gage | 12 (| age | 14 (| Gage | 15 G | age | 16 0 | age | 18 0 | age |
| | | Т | W | Т | W | Т | W | Т | W | Т | W | Т | W |
| Nominal | | .1250 | .1400 | .0935 | .1120 | .0735 | .0855 | .0673 | .073 | .0563 | .064 | .038 | .050 |
| Maximum | | .1290 | .1440 | .0975 | .1160 | .0775 | .0895 | .0731 | .076 | .0626 | .068 | .0415 | .0532 |
| Minimum | | .1210 | .1360 | .0895 | .1080 | .0695 | .0815 | .0615 | .070 | .0500 | .060 | .0345 | .0468 |
| Tolerance | ± | .0040 | .0040 | .0040 | .0040 | .0040 | .0040 | .0058 | .003 | .0063 | .004 | .0035 | .0032 |

^AAll dimensions are given in inches.

TABLE 57 Type IV, Style 3—Flat Top Crown Staples^A

Note 1—Steel wire, chisel point, tin plated, zinc coated or lacquer finish, as specified, cohered together in strips. (For use in staple tackers or machines.) The number per strip shall be as specified and shall be suitable for use in the make and model of tool specified.



- Identifies a cohered flat top crown staple with a length of 5/16, a leg thickness of 0.020, a leg width of 0.050, a crown width of 0.500, lacquer finish. T = tin platedL = lacquer

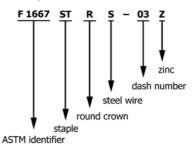
Z = zinc coated

| | | | F 166 | 7 STFCC | | | |
|----------|------|----------------------|-------|----------|------|----------------------|-------|
| Dash No. | L | $T \times W$ | C^B | Dash No. | L | $T \times W$ | C^B |
| 01 | 3/16 | 0.020 × 0.030 | 0.500 | 10 | 9/16 | 0.020 × 0.050 | 0.437 |
| 02 | 1/4 | 0.020×0.030 | 0.500 | 11 | 3/8 | 0.030×0.050 | 0.164 |
| 03 | 5/16 | 0.020×0.030 | 0.500 | 12 | 1/2 | 0.030×0.050 | 0.164 |
| 04 | 1/4 | 0.020×0.050 | 0.500 | 13 | 5/8 | 0.030×0.050 | 0.164 |
| 05 | 5/16 | 0.020×0.050 | 0.500 | 14 | 3/4 | 0.030×0.050 | 0.164 |
| 06 | 3/8 | 0.020×0.050 | 0.500 | 15 | 7/8 | 0.030×0.050 | 0.164 |
| 07 | 1/2 | 0.020×0.050 | 0.500 | 16 | 1 | 0.030×0.050 | 0.164 |
| 08 | 3/8 | 0.020×0.050 | 0.437 | 17 | 11/8 | 0.030×0.050 | 0.164 |
| 09 | 1/2 | 0.020×0.050 | 0.437 | 18 | 11/4 | 0.030×0.050 | 0.164 |

^AAll dimensions are given in inches.

TABLE 58 Type IV, Style 4—Round or "V" Crown Staple A

Note 1-Steel wire or copper-clad wire, bright finish, zinc coated, other coatings or chemically etched, as specified. (For use in power tools for fastening wood and other materials to wood.)



- Identifies a steel round crown staple with a crown width of 0.346, a wire gage of 16, a leg length of 5%, zinc coated.

R = round crown

V = V-shaped crown

S = steel wire

O = other coatings L = copper-clad wire

B = bright E = chemical etch

Z = zinc coated





| · | Dash No. | C^B | G | L | Dash No. | C^{B} | G | L |
|---|----------|-------|----|------|----------|---------|----|------|
| | 01 | 0.346 | 16 | 1/2 | 07 | 0.435 | 16 | 1/2 |
| | 02 | 0.346 | 16 | 9/16 | 08 | 0.435 | 16 | 9/16 |
| | 03 | 0.346 | 16 | 5/8 | 09 | 0.435 | 16 | 5/8 |
| | 04 | 0.346 | 16 | 3/4 | 10 | 0.435 | 16 | 3/4 |
| | 05 | 0.346 | 16 | 7/8 | 11 | 0.435 | 16 | 7/8 |
| | 06 | 0.346 | 16 | 1 | 12 | 0.435 | 16 | 1 |

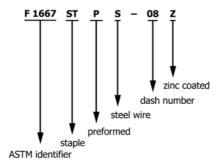
^AAll dimensions are given in inches.

^BCrown width, C, tolerances: 0.500 ± 0.015 , 0.437 ± 0.010 , and 0.164 ± 0.015 .

^BCrown width tolerances: +0.015 and -0.000.

TABLE 59 Type IV, Style 5—Preformed Staples^A

Note 1—Steel wire, chisel point, zinc or other coatings, as specified. Copper-clad wire, chisel point, tinned or other plated finish, as specified. (Hand driven.)



- Identifies a preformed steel wire staple with a length of ¾, a width of ¾, a diameter of 0.083, a point length of 1½2, a point angle of 12°, and zinc coated.

S = steel wire

OC = other coatings

Z = zinc coated

L = copper-clad wire

T = tin plated

O = other plated

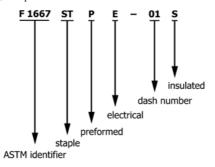


| Dash No. | L | С | D | Flatten | Point Length | Point Angle, ° | No./lb |
|----------|-------|------|-------|---------|--------------|----------------|--------|
| 01 | 3/8 | 7/32 | 0.054 | 0.040 | 3/16 | 13 | 1920 |
| 02 | 13/32 | 3/16 | 0.067 | 0.048 | 3/16 | 12 | 1380 |
| 03 | 7/16 | 7/32 | 0.067 | 0.048 | 1/4 | 12 | 1250 |
| 04 | 1/2 | 1/4 | 0.072 | 0.057 | 1/4 | 12 | 860 |
| 05 | 9/16 | 9/32 | 0.072 | 0.057 | 5/16 | 12 | 800 |
| 06 | 5/8 | 5/16 | 0.072 | 0.057 | 5/16 | 12 | 670 |
| 07 | 11/16 | 3/4 | 0.083 | 0.060 | 11/32 | 12 | 540 |
| 08 | 3/4 | 3/8 | 0.083 | 0.060 | 11/32 | 12 | 410 |

^AAll dimensions are given in inches.

TABLE 60 Type IV, Style 6—Electrical Staples^A

Note 1-Insulated or uninsulated, as specified.



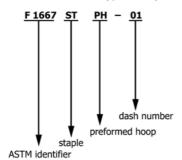
 Identifies a preformed electrical staple with a length of ¾, a crown width of ½2 a diameter of 0.067, a point length of ¼, a point angle of 12° and, insulated.

S = insulated N = not insulated

| Dash No. | L | С | D | Flatten | Point Length | Point Angle | No./lb |
|----------|------|------|-------|----------------------|--------------|-------------|--------|
| 01 | 3/8 | 5/32 | 0.067 | 0.048 | 1/4 | 12 | 1440 |
| 02 | 1/2 | 3/16 | 0.072 | 0.057 | 1/4 | 12 | 990 |
| 03 | 5/8 | 1/4 | 0.072 | 0.057 | 5/16 | 12 | 740 |
| 04 | 3/4 | 3/16 | 0.083 | 0.060 | 11/32 | 12 | 480 |
| 05 | 3/4 | 1/4 | 0.083 | 0.060 | 11/32 | 12 | 450 |
| 06 | 7/8 | 1/4 | 0.083 | 0.060 | 11/32 | 12 | 400 |
| 07 | 7/8 | 7/16 | 0.083 | 0.060 | 11/32 | 12 | 370 |
| 08 | 1 | 1/2 | 0.120 | 0.050×0.215 | 3/8 | 18 | |
| 09 | 11/4 | 5/8 | 0.120 | 0.050×0.215 | 3/8 | 18 | |

^AAll dimensions are given in inches.

TABLE 61 Type IV, Style 7—Preformed Hoop Staple^A



– Identifies a preformed hoop staple with a length of $\frac{1}{2}$, a width of $\frac{1}{2}$, and a diameter of 0.072.

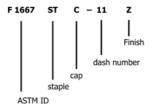
| Dash No. | L | С | D | Flatten | No./Ib |
|----------|-----|------|-------|---------|--------|
| 01 | 1/2 | 1/2 | 0.072 | 0.057 | 720 |
| 02 | 1/2 | 1/2 | 0.083 | 0.060 | 470 |
| 03 | 5/8 | 1/2 | 0.072 | 0.057 | 580 |
| 04 | 5/8 | 1/2 | 0.083 | 0.060 | 430 |
| 05 | 3/4 | 1/2 | 0.072 | 0.057 | 490 |
| 06 | 3/4 | 1/2 | 0.083 | 0.060 | 370 |
| 07 | 1/2 | 5/8 | 0.072 | 0.057 | 670 |
| 08 | 1/2 | 5/8 | 0.083 | 0.060 | 470 |
| 09 | 5/8 | 5/8 | 0.072 | 0.057 | 530 |
| 10 | 5/8 | 5/8 | 0.083 | 0.060 | 400 |
| 11 | 3/4 | 5/8 | 0.072 | 0.057 | 460 |
| 12 | 3/4 | 5/8 | 0.083 | 0.060 | 340 |
| 13 | 1/2 | 3/4 | 0.072 | 0.057 | 580 |
| 14 | 1/2 | 3/4 | 0.083 | 0.060 | 430 |
| 15 | 1/2 | 3/4 | 0.109 | 0.083 | 260 |
| 16 | 5/8 | 3/4 | 0.072 | 0.057 | 490 |
| 17 | 5/8 | 3/4 | 0.083 | 0.060 | 370 |
| 18 | 5/8 | 3/4 | 0.109 | 0.083 | 220 |
| 19 | 3/4 | 3/4 | 0.072 | 0.057 | 430 |
| 20 | 3/4 | 3/4 | 0.083 | 0.060 | 320 |
| 21 | 3/4 | 3/4 | 0.109 | 0.083 | 190 |
| 22 | 1 | 3/4 | 0.072 | 0.057 | 350 |
| 23 | 1 | 3/4 | 0.083 | 0.060 | 260 |
| 24 | 1 | 3/4 | 0.109 | 0.083 | 150 |
| 25 | 1/2 | 7/8 | 0.072 | 0.057 | 530 |
| 26 | 1/2 | 7/8 | 0.083 | 0.060 | 400 |
| 27 | 5/8 | 7/8 | 0.072 | 0.057 | 460 |
| 28 | 5/8 | 7/8 | 0.083 | 0.060 | 340 |
| 29 | 3/4 | 7/8 | 0.072 | 0.057 | 410 |
| 30 | 3/4 | 7/8 | 0.083 | 0.060 | 300 |
| 31 | 7/8 | 7/8 | 0.072 | 0.057 | 360 |
| 32 | 7/8 | 7/8 | 0.083 | 0.060 | 270 |
| 33 | 5/8 | 1 | 0.083 | 0.060 | 320 |
| 34 | 5/8 | 1 | 0.109 | 0.083 | 200 |
| 35 | 3/4 | 1 | 0.083 | 0.060 | 290 |
| 36 | 3/4 | 1 | 0.109 | 0.083 | 180 |
| 37 | 7/8 | 1 | 0.083 | 0.060 | 260 |
| 38 | 7/8 | 1 | 0.109 | 0.083 | 160 |
| 39 | 1 | 1 | 0.083 | 0.060 | 240 |
| 40 | 1 | 1 | 0.109 | 0.083 | 140 |
| 41 | 3/4 | 11/4 | 0.083 | 0.060 | 220 |
| 42 | 3/4 | 11/4 | 0.109 | 0.083 | 130 |
| 43 | | 11/4 | 0.083 | 0.060 | 180 |
| 44 | 1 | 11/4 | 0.109 | 0.083 | 140 |

^AAll dimensions are given in inches.



TABLE 62 Type IV, Style 8-Cap Staples

Note 1—Cap staples are Type IV, Style 3, steel, flat top crown, with bright finish or zinc coated (as specified) staples, with a 1 in. diameter plastic cap having a cap diameter tolerance of \pm 0.025 in. Minimum thickness of the outside edge of plastic caps is 0.035 in. Staples are driven with a hand (swung) or power tool with the staple being driven though the cap at point of application. Staples and caps may be packaged together or separately. Regardless of packaging, nails and caps are separately loaded into application tools with the staple being driven through the cap at point of application.



Identifies a 1" plastic cap with a steel wire, flat top crown staple with a crown width of 5/16", a wire gage of 18, a length of 1-3/16", and a galvanized finish.

B – BrightZ – Zinc coated

| | STC —Stapl | es-Cap Sets | |
|----------|------------|-------------|----------------|
| Dash No. | Ga. | С | L |
| 1 | 18 | 3/16 | 3/4 |
| 2 | 18 | 3/16 | 7/8 |
| 3 | 18 | 3/16 | 1 |
| 4 | 18 | 3/16 | 1-1/8 |
| 5 | 18 | 3/16 | 1 –3⁄16 |
| 6 | 18 | 3/16 | 1-1/2 |
| 7 | 18 | 5/16 | 3/4 |
| 8 | 18 | 5/16 | 7/8 |
| 9 | 18 | 5/16 | 1 |
| 10 | 18 | 5/16 | 1-½ |
| 11 | 18 | 5/16 | 1-3/16 |
| 12 | 18 | 5/16 | 1-1/2 |
| 13 | 18 | 3/8 | 5/8 |
| 14 | 18 | 3/8 | 3/4 |
| 15 | 18 | 3/8 | 7/8 |
| 16 | 18 | 3/8 | 1 |
| 17 | 18 | 3/8 | 1-1/8 |
| 18 | 18 | 3/8 | 1-1/4 |
| 19 | 18 | 3/8 | 1-3/8 |
| 20 | 18 | 3/8 | 1-1/2 |
| 21 | 18 | 7/16 | 5/8 |
| 22 | 18 | 7/16 | 3/4 |
| 23 | 18 | 7/16 | 7/8 |
| 24 | 18 | 7/16 | 1 |
| 25 | 18 | 7/16 | 1-1/8 |
| 26 | 18 | 7/16 | 1-1/4 |
| 27 | 18 | 7/16 | 1-3/8 |
| 28 | 18 | 7/16 | 1-1/2 |
| 29 | 20 | 3/8 | 5/8 |
| 30 | 21 | 1/2 | 5/8 |
| 31 | 24 | 3/8 | 3/8 |

SUPPLEMENTARY REQUIREMENTS

The following supplementary requirements shall apply when specified in the applicable table or when specified in the order or contract (5.1.7). Details of these supplementary requirements shall be agreed upon in writing between the manufacturer and the purchaser.

S1. Nail Bending Yield Strength

S1.1 When specified as a supplementary requirement for nails used for engineered construction, the average bending yield strengths of nails shall meet, as a minimum, the yield strengths provided in Table S1.1 and Table S1.2. The yield strengths are used in determining the lateral design loads

tabulated in the AWC National Design Specification⁵ for Wood Construction, NDS,⁵ Chapter 12 Dowel-Type Fasteners.

⁵ Available from American Wood Council (AWC), 222 Cotactin Circle, SE, Suite 201, Leesburg, VA 20175, National Design Specification® for Wood Construction (NDS®) www.awc.org

TABLE S1.1 Low to Medium Carbon Steel Nails and Spikes

| | · |
|-----------------------|--------------------|
| Nominal Diameter, in. | Bending Yield, psi |
| $0.099 \le 0.142$ | 100 000 |
| >0.142 ≤ 0.177 | 90 000 |
| >0.177 ≤ 0.236 | 80 000 |
| >0.236 ≤ 0.273 | 70 000 |
| >0.273 \le 0.344 | 60 000 |
| >0.344 ≤ 0.375 | 45 000 |

TABLE S1.2 Medium Carbon Steel Nails—Hardened

| Nominal Diameter, in. | Bending Yield, psi |
|-----------------------|--------------------|
| $0.120 \le 0.142$ | 130 000 |
| >0.142 ≤ 0.192 | 115 000 |
| >0.192 ≤ 0.207 | 100 000 |

S1.2 *Test Method for Yield Strength*—In order to conform with the supplementary requirements of S1, the procedure of Test Method F1575 shall be conducted on nail samples.

S1.3 At least five nails from each lot of 100 individual containers shall be examined and tested to determine conformance with this supplementary requirement.

S1.4 When labeled "Engineered Construction Nails, ASTM F1667," nails must meet all requirements of F1667 including Supplementary Requirements.

SUMMARY OF CHANGES

Committee F16 has identified the location of selected changes to this standard since the last issue F1667–15 that may impact the use of this standard. (Approved March 1, 2017.)

```
(1) Revised Table 1.
                                                                (23) Table 6 – Change to Note 1
(2) Updates to referenced tables in section 4.2, 8.1, 8.3, 8.3.1,
                                                                (24) Table 8 – Change to Note 1
8.4.3, 10.3, Note 2
                                                                (25) Table 9 – Change to Note 1
Revision to sections:
                                                                (26) Table 11- Change to Note 1
(3) 2.1 Referenced Standards
                                                                (27) Table 12 – Title change
(4) 8.2.1
                                                                (28) Table 13 – Title change
(5) 8.2.3.1 - 8.2.3.2
                                                                (29) Table 14 – Title change and Note 1
(6) 8.4.3
                                                                (30) Table 15 – Title change and Note 1
(7)9.1
                                                                (31) Table 16 - Change to Note 1
(8) 10.1.1
                                                                (32) Table 17 – Title Change and Note 1
(9) 10.2
                                                                (33) Table 18 – Change to Note 1
(10) 10.3.2
                                                                (34) Table 19 - Change to Note 1
(11) Note 4
                                                                (35) Table 20 – Change to Note 1 and Table body
(12) 12.2
                                                                (36) Table 26 – Title Change, Note 1 and Table body
Supplementary Requirements:
                                                                (37) Table 27 – Title Change, Note 1 and Table body
(13) Section S.1
                                                                (38) Table 28 – Title change
(14) Table S1.1
                                                                (39) Table 29 – Title change and Note 1
Deletion of:
                                                                (40) Table 30 – Title change and Note 1
(15) Table 5 – Boat Nails
                                                                (41) Table 31-Table 32 – Title changes, Note 1, separation into
(16) Table 19 – Fine Nails
                                                                two distinct tables
(17) Table 50 – Trunk Cut Nails
                                                                (42) Table 33 – Title change
(18) Table 51 – Cobblers Cut Nails
                                                                (43) Table 36 – Title change and Note 1
(19) Table 52 – Extra-Iron Clinching Cut Nails
                                                                (44) Table 45 – Title change, Note 1 and Table body
(20) Table 53 – Hob Cut Nails
                                                                (45) Table 46 – Change to Note 1
(21) Table 57 – Barge and Boat Spikes
                                                                (46) Table 56 – Change to Note 1
Renumber of all subsequent tables from Table 4 on After
renumbering updates to the following
                                                                (47) Table 58 – Change to Note 1
                                                                (48) Table 59 – Change to Note 1
(22) Table 5 – Change to Note 1
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