



Standard Specification for Staple, Handgrab, Handle, and Stirrup Rung¹

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This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope

1.1 This specification covers design, construction for steel staples, handgrabs, handles, and individual stirrup rungs.

1.2 The staples, handgrabs, and handles depicted in this specification are for use on steel structures including all parts of ships' structure as necessary. The individual stirrup rungs are for use on bulkheads or structure as deemed necessary.

1.3 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.4 *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

A575 Specification for Steel Bars, Carbon, Merchant Quality, M-Grades

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.03 on Outfitting and Deck Machinery.

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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. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *handgrab or handle*—bent round bar of various sizes for use on miscellaneous hatch covers, manholes, above access openings, and so forth.

3.1.2 *staple*—a U-shaped round bar of various sizes used to provide an anchor end for lashings, portable chain connections, lifting slings, and so forth.

3.1.3 *stirrup rung*—a double-bend-shaped square bar intended for use as a single step or supplementary steps in place of a vertical ladder.

4. Ordering Data

4.1 The purchaser's ordering data shall include the following:

4.1.1 Quantity, size, and type.

4.1.2 Finish if other than specified in 7.1 and 7.2.

5. Materials and Manufacture

5.1 Staple, handgrab, handle, and stirrup rung shall be made of steel in accordance with Grade M 1020 of Specification A575.

6. Dimensions

6.1 Dimensions of staple shall be as indicated in Table 1.

6.2 Dimensions of handgrab and handle shall be as indicated in Table 2.

6.3 Dimension of stirrup rung shall be as indicated in Table 3.

6.4 Dimensions are given in inches; millimetre equivalents appear in parentheses, and apply to this specification only.