



Standard Practice for Design and Installation of Rigid Pipe Hangers¹

This standard is issued under the fixed designation F708; 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.

1. Scope

1.1 This practice covers acceptable methods of fabricating and installing rigid pipe hangers used to support shipboard piping systems with temperatures of 650°F (343°C) or less.

1.2 This practice provides guidance for the design of hanger caps, straps and standoffs, selection of hanger and hanger liner materials, hanger bolting, and hanger spacing.

1.3 Other hanger designs may be used provided they result in an adequately supported vibration-free piping system and are compatible with the intended system service and temperature limitations.

1.4 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

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 appro-*

priate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 *ASTM Standards:*²

[A307 Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength](#)

3. Terminology

3.1 *Definitions:*

3.1.1 *liner*—the material used to isolate a pipe from its hanger.

3.1.2 *riding bar*—a protective strip of material installed between the pipe and the hanger where frequent linear movement of the pipe is expected.

3.1.3 *rigid pipe hanger*—a device that transfers the load imposed by the piping, insulation, and system medium to the supporting structure.

3.1.4 *standoff*—the rigid member that connects the hanger strap, saddle, or band to the supporting structure. A standoff is

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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.