



Standard Practice for Emergency Joining of Booms with Incompatible Connectors¹

This standard is issued under the fixed designation F1657/F1657M; 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.

^{ε1} NOTE—Units information was editorially corrected in April 2012.

1. Scope

- 1.1 This practice provides a standard practice for the joining of oil spill containment boom connectors in emergencies.
- 1.2 The use of this connection method may adversely affect the total tensile strength of the connected booms.
- 1.3 These criteria are intended to define mating requirements that will allow the emergency or occasional connection of unlike connectors.
- 1.4 This practice is not intended to replace Specification **F962**.
- 1.5 This practice does not address the compatibility of spill control equipment with spill products. It is the user's responsibility to ensure that any equipment selected is compatible with the anticipated spilled material.
- 1.6 There is no guarantee that all of the connectors in use today can accept the holes spaced as required without interfering with existing bolt holes or other connector features.
- 1.7 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard. See Note 5 in **Fig. 1**—dimensions A and B are critical.
- 1.8 *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~~ safety, health, and ~~health~~ environmental practices and determine the applicability of regulatory limitations prior to use.* For a specific precautionary statement, see **3.2**.
- 1.9 *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
 - F818 Terminology Relating to Spill Response Booms and Barriers
 - F962 Specification for Oil Spill Response Boom Connection: Z-Connector
 - F1093 Test Methods for Tensile Strength Characteristics of Oil Spill Response Boom
 - F1523 Guide for Selection of Booms in Accordance With Water Body Classifications

3. Significance and Use

- 3.1 The use of this practice for the emergency joining of booms will not guarantee the effective performance of the joined boom sections, since each boom design and the environmental conditions of each incident govern the overall performance.
- 3.2 Historically, different types of end connectors have been produced. This practice addresses the operational need to connect different types, during spill incidents. (**Warning**—Use of this practice with similar or different sizes of boom may cause the

¹ This practice is under the jurisdiction of ASTM Committee F20 on Hazardous Substances and Oil Spill Response and is the direct responsibility of Subcommittee F20.11 on Control.

Current edition approved April 1, 2007/April 1, 2018. Published April 2012/May 2018. Originally approved in 1996. Last previous edition approved in 2007/2012 as F1657 – 96 (2007)-(2012)^{ε1}. DOI: 10.1520/F1657-F1657M-96R12E01; 10.1520/F1657_F1657M-96R18.

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.