



Standard Practice for Installation Procedures of Vinyl Deck Coverings on Portable Plates in Electrical and Electronic Spaces¹

This standard is issued under the fixed designation F 1331; 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.

1. Scope

- 1.1 This practice covers the acceptable method for installing insulated deck covering on portable deck plates.
- 1.2 This deck covering shall be installed, in way of the electrical and electronic spaces, for marine use.
- 1.3 The values stated in SI (metric) units are to be regarded as the standard. The values in parentheses are for information only.
- 1.4 *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.*

2. Referenced Documents

2.1 ASTM Standards:²

D 1338 Practice for Working Life of Liquid or Paste Adhesives by Consistency and Bond Strength

D 2393 Test Method for Viscosity of Epoxy Resins and Related Components³

D 4389 Specification for Finished Glass Fabrics Woven from Rovings

F 150 Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring

2.2 Other Documents:

Steel Structural Painting Council SP-11⁴

3. Requirements

3.1 Operations Area—Typical areas for application of the electric insulating deck covering are:

3.1.1 The operating areas in front and rear of power and lighting switchboards, interior-communication switchboards, test switchboards, fire-control switchboards, and shipboard announcing-systems amplifiers and control panels.

3.1.2 The area around electronic equipment which may be contacted by personnel in servicing or tuning energized equipment.

3.1.3 Vinyl sheets should be confined to the minimum deck areas (generally 0.9 m (3 ft) wide) surrounding the apparatus necessary to prevent electric shock, and should, unless otherwise specified, be cemented to the deck in lieu of other specified deck coverings.

3.2 Installation— Vinyl Sheets:

3.2.1 Installation of deck covering shall be in accordance with Figs. 1-7, using vinyl sheet and fiberglass binding strips (see Fig. 1 and Fig. 5).

3.2.2 Vinyl sheets and fiberglass sheets shall be united at the edges in a rabbet joint as shown (see Fig. 7), and such that the fiberglass overlaps at all joints. All rabbeted surfaces shall be smooth and corners sharp and square, such that at installation the overlapping areas fit firmly and flush. Vinyl shall meet requirements and tests provided in Test Method F 150.

3.3 Adhesive:

3.3.1 Vinyl sheets shall be secured to each portable plate with adhesive. Adhesive should not extend beyond edges of vinyl sheet.

¹ This practice is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.03 on Outfitting. Current edition approved March 15, 1991. Published June 1991.

² This practice 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.

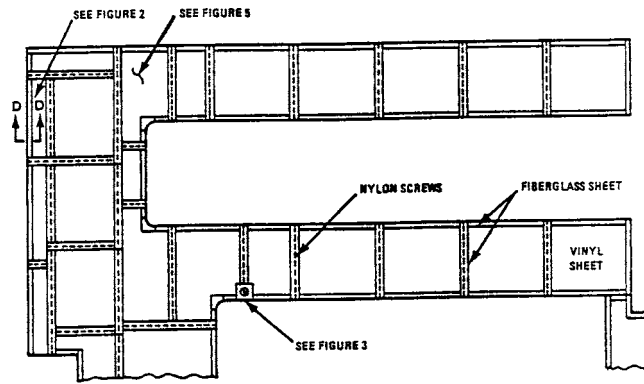
Current edition approved Dec. 1, 2007. Published January 2008. Originally approved in 1991. Last previous edition approved in 2002 as F1331 - 91(2002).

³ 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*, Vol 15.06 volume information, refer to the standard's Document Summary page on the ASTM website.

⁴ Withdrawn

⁵ Annual Book of ASTM Standards, Vol 07.02.

⁶ Available from Society for Protective Coatings (SSPC), 40 24th St., 6th Floor, Pittsburgh, PA 15222-4656, <http://www.sspc.org>.



PORTABLE DECK PLATES - ELECT / ELEX. SPACE

FIG. 1 Typical Deck Covering Plan View

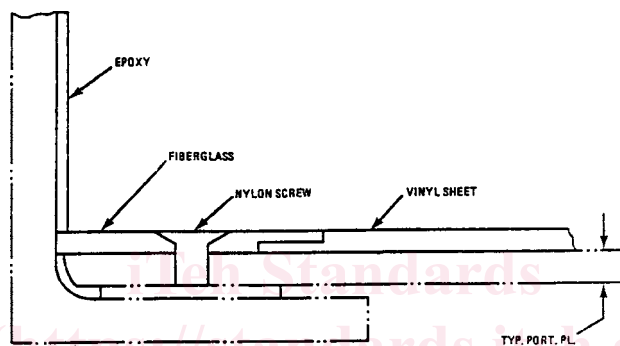


FIG. 2 Section "D-D" (See Fig. 1)

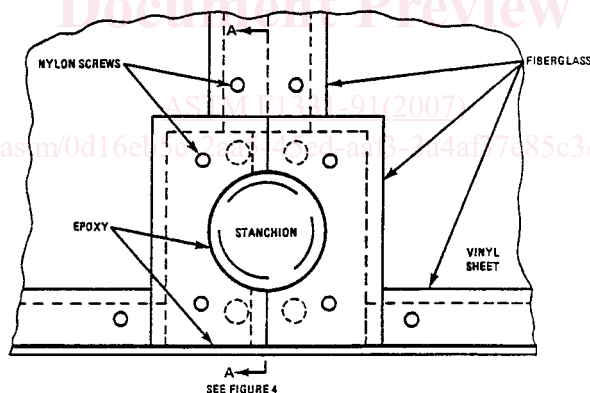


FIG. 3 Expanded View of Deck Covering at Stanchion (TYP)

3.3.2 Silicone compound, with 1 % liquid catalyst, should be applied between lapping areas in accordance with Test Method D 1338.

3.4 *Fiberglass*—Glass fiber base, epoxy resin sheets furnished under this specification (Fig. 1 and Fig. 5), shall be a product consisting of plies or layers of cloth or nonwoven parallel aligned fibers bonded with an epoxy resin compound, in accordance with Specification D 4389.

3.5 *Fastening with Nylon Screws*—Fiberglass binding strips shall be secured to the deck with nylon screws. A 76-mm (3-in.) wide strip over joints between portable plates shall be fastened with a double row of screws. A 38-mm (1½-in.) wide strip or shape to suit at deck edges shall be fastened with a single row of screws, spacing between screws not to exceed 127 mm (5 in.) center-to-center and located to clear deck plate screws. (See Fig. 7.)

3.6 *Exposed Areas Treated with Epoxy:*

3.6.1 Before the epoxy is applied, the surface to be covered should be (a) cleaned with a solvent, and (b) further treated in accordance with Steel Structural Painting Council SP-11.

3.6.2 Epoxy resin shall be applied to the exposed vertical lip of deck edges on stanchions, to approximately 305 mm (12 in.) above deck, after all other deck covering work has been completed. Application of epoxy shall be by brush to approximately