



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.

^{ε1} NOTE—Keywords were added editorially in November 1996.

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 any 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:

D 1338 Test Method for Working Life of Liquid or Paste Adhesives by Consistency and Bond Strength²

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

D 4389 Specification for Finished Glass Fabrics Woven from Rovings⁴

F 150 Test Method for Electrical Resistance of Conductive Resilient Flooring⁵

2.2 Other Documents:

Steel Structural Painting Council SP-11⁶

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

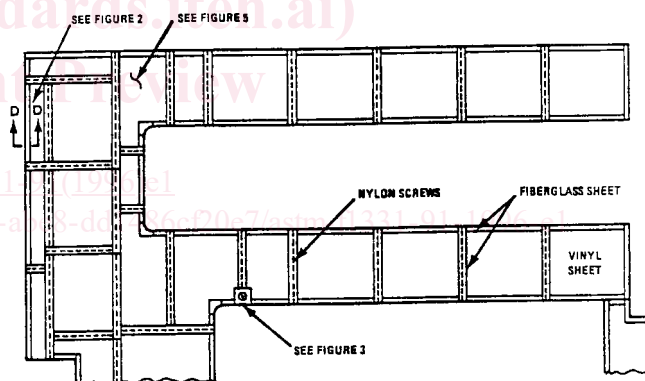
announcing-systems amplifiers and control panels.

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).



PORTABLE DECK PLATES - ELECT / ELEX. SPACE
FIG. 1 Typical Deck Covering Plan View

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.

3.3.2 Silicone compound, with 1 % liquid catalyst, should

¹ This practice is under the jurisdiction of ASTM Committee F-25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.03 on Outfitting.

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² Annual Book of ASTM Standards, Vol 15.06.

³ Annual Book of ASTM Standards, Vol 08.02.

⁴ Annual Book of ASTM Standards, Vol 07.02.

⁵ Annual Book of ASTM Standards, Vol 15.04.

⁶ Available from Steel Structures Painting Council, 4400 Fifth Ave., Pittsburgh, PA 15213.

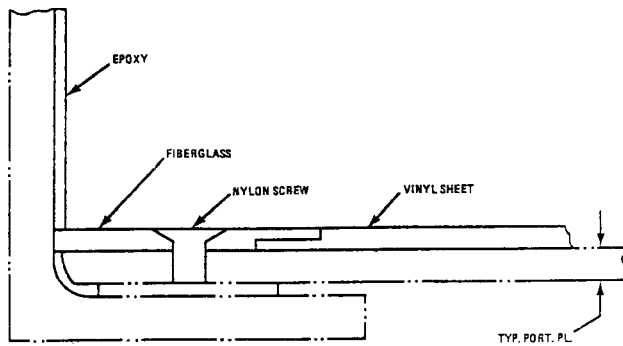


FIG. 2 Section "D-D" (See Fig. 1)

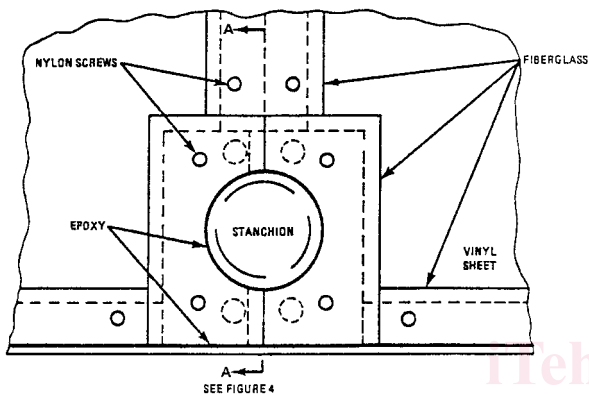
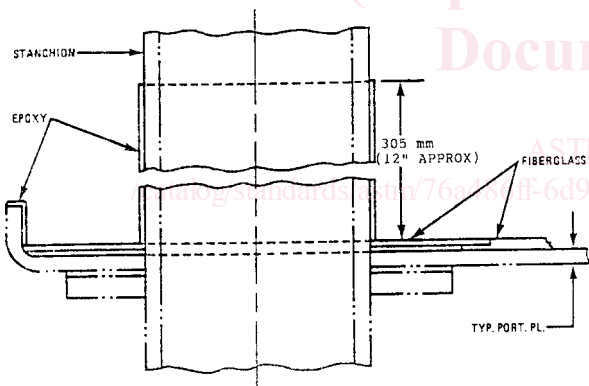


FIG. 3 Expanded View of Deck Covering at Stanchion (TYP)



NOTE—25.4 mm = 1 in.
FIG. 4 Section "A-A" (See Fig. 3)

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, conforming to 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

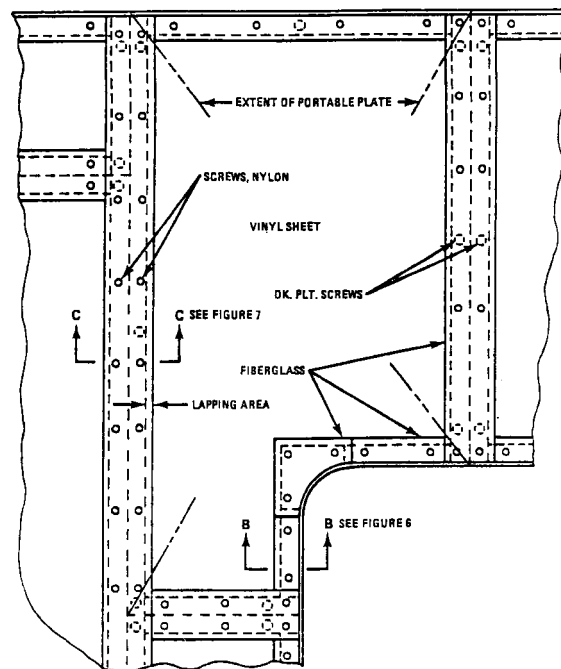
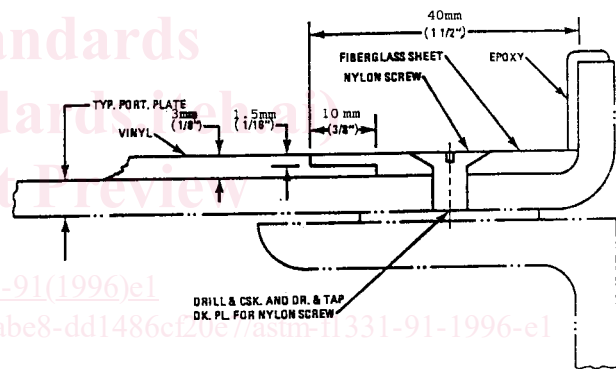
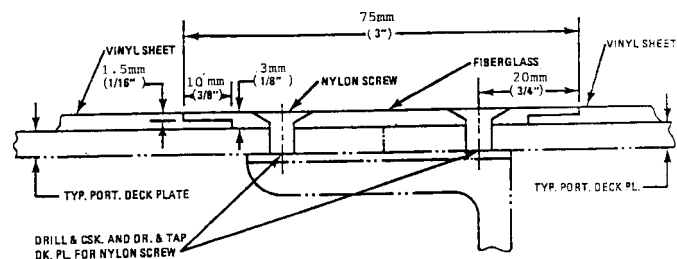


FIG. 5 Expanded View of One Portable Plate (TYP)



NOTE—25.4 mm = 1 in.
FIG. 6 Section "B-B" (See Fig. 5)



NOTE—25.4 mm = 1 in.
FIG. 7 Section "C-C" (See Fig. 5)

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