

mm of the cut edges of the material, must not be counted.

(2) *Abrasion resistance.* One test panel is used. The panel and test conditions must meet paragraphs (a)(1) and (a)(2) of this section. The test apparatus must meet Federal Test Method Standard 141, Method 6142, except that the brush must be dry. One thousand brush strokes are applied to the material. The test panel is then wiped with a clean soft cloth. Thereafter, the reflective intensity of the area of the material in contact with the brush is measured at the angles listed in Table 164.018-9.

(3) *Soil resistance and cleanability.* One panel is used. The test panel and test conditions must meet paragraphs (a)(1) and (a)(2) of this section. A soiling medium is applied to the material as described in Federal Test Method Standard 141, Method 6141. The soiled area is then covered with a laboratory watch glass or similar device. After 24 hours, the material is uncovered and the soil medium wiped off with a clean, dry, soft cloth. The material is then wetted with mineral spirits and wiped with a cloth soaked in mineral spirits. Thereafter, it is washed with a 1 percent (by weight) solution of detergent in warm water and rinsed and dried with a clean, dry, soft cloth.

(c) Each measurement of reflective intensity required in paragraphs (a), (b)(1), and (b)(2) of this section must be made using either—

(1) The L-S-300 procedure for measuring reflective intensity; or

(2) The procedure for measuring specific intensity per unit area in Federal Test Method Standard 370, except that the test apparatus arrangement required in L-S-300 must be used.

(d) If material is designed for use with an adhesive, the “adhesion” test method required by paragraph (a)(3) of this section must be repeated using a 0.79 kg. (1.75 lb.) test weight and using each of the following materials as test panels in place of the aluminum test panels required by this test method:

(1) Smooth panel of cured polyester laminating resin meeting MIL-R-21607 (Types I and II material).

(2) Cotton drill (Type I material only) meeting CCC-C-426, or cotton duck

meeting CCC-C-443 (Type I material only).

(3) Vinyl-nylon laminated cloth meeting MIL-C-43006 (Type I material only).

(4) Vinyl film meeting L-P-375 (Type I material only).

(5) Rubber coated cloth meeting MIL-C-17415 (Type I material only).

(e) Each flexible material listed in paragraph (d) of this section when used as a test panel must be bonded to a rigid backing.

(f) Test panel material listed in paragraph (d) of this section must—

(1) Be taken from an item of Coast Guard approved lifesaving equipment; or

(2) Be certified by the manufacturer of the material that it meets the applicable specification in paragraph (d) of this section.

#### § 164.018-13 Production inspections.

The Coast Guard does not inspect retroreflective material approved under this subpart on a regular schedule. However, the Commandant may select samples and conduct tests and examinations whenever necessary to determine whether retroreflective material is being manufactured in compliance with the requirements of this subpart.

### Subpart 164.019—Personal Flotation Device Components

SOURCE: CGD 84-068, 58 FR 29494, May 20, 1993, unless otherwise noted.

#### § 164.019-1 Scope.

(a) This subpart contains general requirements for standard personal flotation device (PFD) components, procedures for acceptance of non-standard PFD components, and production quality control requirements for all PFD components, used in the construction of PFDs approved under part 160 of this subchapter.

(b) Other subparts of this part contain specific requirements applicable to particular PFD components used in the construction of Coast Guard-approved PFDs.

(c) Part 160 of this chapter contains specific requirements and limitations concerning the use of PFD components

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in the construction of particular Coast Guard-approved PFDs.

**§ 164.019-3 Definitions.**

*Acceptance* means certification by the Coast Guard that a component is suitable for use in the manufacture of Coast Guard-approved PFDs.

*Commandant* means the Chief of the Lifesaving and Fire Safety Division, Marine Safety and Environmental Protection, U.S. Coast Guard. Address: Commandant (CG-521), U.S. Coast Guard Headquarters, 2100 2nd St., SW., Stop 7126, Washington, DC 20593-7126. Telephone: 202 372-1392.

*Component manufacturer* means either a component manufacturer or supplier seeking acceptance of a component, or a component manufacturer or supplier who has obtained acceptance of a component.

*Inspector* means a Coast Guard marine inspector, authorized representative of the Coast Guard, or a recognized laboratory representative.

*Non-standard component* means a PFD component which is equivalent in performance to a standard component.

*PFD Type* means the performance type designation as indicated in 33 CFR part 175 and this subchapter.

*Standard component* means a PFD component which complies in all respects with the material, construction, and performance requirements of a subpart of this part or part 160 of this chapter.

*Use Code* means an alphanumeric code assigned by the Commandant (G-MSE) to a PFD component to designate the PFD Type(s) in which it may be used. Assigned Use Codes are listed in table 164.019-3.

TABLE 164.019-3

Use code	PFD type acceptable for use
1 .....	I, II, and III.
2 .....	II and III.
3 .....	III.
4B .....	IV (all Ring Buoys).
4BC .....	IV (Buoyant Cushions).
4RB .....	IV (Recreational Ring Buoys only).
5 .....	Wearable Type V (intended use must be specified).
5H .....	V (Hybrid).
5R .....	V (Recreational Style).
5SB .....	V (Sailboard vests).
5WV .....	V (Work vests).
6 .....	Special, limited, or restricted use.
Suffix A .....	Adult only.

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Use code	PFD type acceptable for use
Suffix C .....	Child only.

[CGD 84-068, 58 FR 29494, May 20, 1993, as amended by CGD 95-072, 60 FR 50467, Sept. 29, 1995; CGD 96-041, 61 FR 50734, Sept. 27, 1996; USCG-2006-25697; 71 FR 55747, Sept. 25, 2006; USCG-2009-0702, 74 FR 49238, Sept. 25, 2009]

**§ 164.019-4 Component requirements.**

(a) PFDs may be constructed only with Coast Guard-accepted PFD components meeting the requirements of this subchapter.

(b) PFD components may be used in the construction of PFDs only in accordance with their Use Codes.

**§ 164.019-5 Standard components; acceptance criteria and procedures.**

(a) *General.* Standard components used in the construction of PFDs must meet the applicable requirements of this part or part 160 and the documentation requirements of this section.

(b) *Use Codes.* Each standard component is assigned a Use Code as indicated in table 164.019-3. Additional Use Codes may be assigned by the Commandant.

(c) *Method and documentation of acceptance.* Except as provided in paragraph (d) of this section, the following requirements pertaining to the shipment of standard components must be met in order for the standard components to be considered Coast Guard-accepted standard components:

(1) Each shipment of standard components must be accompanied by an affidavit complying with § 164.019-11.

(2) A sample affidavit, or a copy of the affidavit, provided with the first shipment of standard components to a PFD manufacturer, must be provided to the Commandant.

(3) A revised sample affidavit, or a copy of the revised affidavit, must be provided to the Coast Guard any time the information on the affidavit accompanying a shipment of standard components materially changes.

(d) *Exception.* Affidavits are not required to be provided for standard components that are under the quality control oversight program of a recognized