Coast Guard, DHS

§ 164.008–1

Applicable specification and reference material.

(a) Specification. The following specification of the issue in effect on the date of manufacture of the bulkhead panel shall form a part of the regulations of this subpart (see §§2.75–17 through 2.75–19 of subchapter A, Procedures Applicable to the Public, of this chapter):

(1) Coast Guard specification:

Subpart 164.008—Bulkhead Panels

SOURCE: CGFR 69–72, 34 FR 17500, Oct. 29, 1969, unless otherwise noted.

§ 164.008–1

testing, the manufacturer will be so advised. Coast Guard comments on the manufacturer’s recommended thickness and density of the sample or samples for the fire resistance test will be given at this time, together with the estimated cost of the required test.

(c) Samples to be submitted. If the material is indicated as being suitable for testing, the manufacturer shall submit a 100 cm. × 150 cm. (40"×60") sample, a 30 cm. × 30 cm. (12"×12") sample and a 60 cm. × 60cm. (24"×24") sample for each thickness and density proposed to the Fire Research section of the National Bureau of Standards, Washington, DC 20234, and shall advise the Coast Guard of the shipment. A separate test will be made for each density of the material for which approval is desired.

(d) Pretest information. At this time the manufacturer shall submit to the Coast Guard the following:

(1) A statement that the material is offered for testing as described pursuant to paragraph (a)(3) of this section is completely representative of the product which will be manufactured and sold under U.S. Coast Guard approval if such approval is granted and that the shipbuilder will be advised of the proper installation methods and the limitations of the approval.

(2) A commitment that he will reimburse the National Bureau of Standards for the cost or review of the tests when billed by them.

(3) If the manufacturer desires to witness the test, he should so indicate at this time.

(e) Test authorization. The National Bureau of Standards will then be authorized to conduct the tests noted in §164.007–4 and, upon completion of all testing, the manufacturer will be billed directly by the National Bureau of Standards. Four copies of the test report containing the information required by §164.007–6 will be submitted to the Coast Guard.

(f) Notification of results. A copy of the report will be forwarded to the manufacturer and he will be advised if his material is approved under this subpart. If approved, any stipulations of the approval will be specified. This information will be published in the Federal Register, and a certificate of approval will be issued to the manufacturer.

(g) Other laboratories. (1) If the manufacturer desires to have the test conducted at some laboratory other than the National Bureau of Standards, this information shall be supplied at the time of initial contact with the Coast Guard. If the proposed laboratory is acceptable to the Coast Guard, the manufacturer will be so advised, and any special testing requirements together with any estimated cost of expenses incurred by the National Bureau of Standards for their review will be specified at this time. The Coast Guard shall be notified in advance of the date of the test so that a representative may be present.

(2) The laboratory shall submit four copies of a detailed test report to the Coast Guard together with representative samples of the material taken before and after testing. The test report and samples will be examined by the National Bureau of Standards for compliance with this subpart. The test report shall include the information required by §164.007–6 together with any other pertinent data.

Subpart 164.008—Bulkhead Panels

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§ 164.008–2 Conditions of approval.

(a) Bulkhead panel material shall be of such quality as to successfully meet the requirements for an incombustible material as set forth in subpart 164.009 of this part.

(b) Bulkhead panels used in Class B–15 construction and as a component in Class A–30 or Class A–15 construction shall meet the thermal insulation requirements of § 164.008–4(a) for at least 15 minutes, and the integrity requirements of § 164.008–4(b) for at least 30 minutes.

(c) Bulkhead panels for use as a component in Class A–60 construction shall meet the thermal insulation requirements of § 164.008–4(a) for at least 15 minutes and the integrity requirements of § 164.008–4(b) for at least 60 minutes.

(d) The product shall be so marked as to be readily identifiable to an inspector in the field. The marking shall include the Coast Guard approval number.

(e) The specimen to be tested shall be representative of the typical installation on board a vessel and any limitations shall be shown on the sketch required by § 164.008–7(a)(7).

(f) The bulkhead panel shall successfully pass the retests required by § 164.008–6.

§ 164.008–3 Testing procedure.

(a) Tests. All tests, including the retests, shall be conducted at the National Bureau of Standards or other laboratories designated by the Coast Guard.

(b) Preparation of test specimen. (1) The test specimens shall be conditioned to approximately constant weight with the air being maintained at a relative humidity of 40 to 70 percent and a temperature of 15° to 25 °C. (59° to 77 °F.). After conditioning, but before testing, the temperature of the specimen should not exceed 40 °C. (104 °F.).

(2) The specimens shall be mounted in the furnace in a vertical position in such a way as to give an exposed surface of at least 4.65 square meters (50 square feet) and a height of at least 2.44 meters (8 feet).

(3) The specimen shall be supported at the top and secured on the vertical sides and at the bottom in a manner representative of conditions in service.

(4) The method of securing shall be such that there is no possibility of misinterpretation of test results due to the passage of flame at the edges of the specimen when the method of fixing is not the subject of the test.

(c) Furnace control. (1) The furnace temperature shall be determined by at least four mineral insulated thermocouples having rapid response and distributed so as to represent fairly the furnace temperature and to insure as uniform heating as possible. The thermocouples shall be arranged so that the hot junction is approximately 10 cm. (4") from the nearest point of the specimen.

(2) The furnace temperature shall be continuously controlled so as to follow the standard time-temperature curve within the accuracy specified in paragraph (c)(4) of this section.

(3) The standard time-temperature curve is defined by a smooth curve drawn through the following points:

At the beginning of the test, 20 °C. (68 °F.).

At the end of the first 5 minutes, 538 °C. (1000 °F.).