

Textiles and Films

IMO FTP Code Annex 1, Part 7 – Test for vertically supported textiles and films

This information sheet describes the general principles for testing draperies, curtains and other supported textile materials that are required to have fire resistance not inferior to that of wool mass 0.8 Kg/m².

Before the test

General rules have been adopted by IMO, but the interpretation of these rules may differ between national authorities and classification societies and it is therefore important to determine which type approvals should be obtained and to consult the relevant bodies. DBI has wide experience in co-operating with national authorities and classification societies and can offer guidance about what to do, so that the process of testing will follow the proper requirements

Information Sheets: 'SHIP WHEEL-MARKING AND TYPE APPROVAL OF MARINE PRODUCTS' and 'TESTING AND INSPECTION FOR USCG'.

General

The material shall be tested and evaluated in accordance with the test procedure which is specified in the Annex to resolution A.563(14) of the FTP Code.

Test equipment

The equipment consists of a 200 x 150 mm frame for mounting the test specimens, a gas burner according to DIN 50 051 type KBN and a metal box approx. 700 x 325 x 750 mm with a glass door.

Verification of materials

The applicant shall provide a complete material specification to DBI before a test can commence.

Test Specimens

At least 1 m² of fabric should be sent to DBI in order for DBI to be able to make at least ten specimens, each measuring 220 x 170 mm - five in the direction of the warp and five in the direction of the weft. If the fabric has a different surface on each side then both surfaces shall be tested.

Test procedure

Four pre-tests must be performed in order to determine the flame application time. This has to be done for both the warp and the weft. The ignition condition to be applied is the one in which sustained ignition is first achieved. The test is then performed either as surface or edge ignition, with a flame application time of 5 or 15 seconds.

10 mm cotton wool is placed immediately under the specimen holder, and a note will be made of any ignition or glowing of the cotton wool.

Test result

This will include the after flame time, the length of char and any ignition of cotton wool by burning drops.

PLEASE NOTE that DBI cannot perform the cleaning and weathering procedures specified in Appendix 2.

Test report

The test report will be written in English. It will contain all necessary information about the test specimens, test results and classification in accordance with Appendix 3 Proposed criteria for curtains and drapes.

For further information you are welcome to contact



Lina Ivar Andersen

phone: +45 36 34 90 35

e-mail: lia@dbi-net.dk

Danish Institute of Fire and Security Technology

Jernholmen 12, DK-2650 Hvidovre
Tlf.: +34 36 34 90 00, Fax: +45 36 34 90 01
E-mail: dbi@dbi-net.dk
www.dbi-net.dk