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Standards

Irish Standard
I.S. 244:1980

Requirements for Smoulder and Flame Resistant Upholstery

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I.S. 244:1980

IRISH STANDARD SPECIFICATION

REQUIREMENTS FOR SMOULDER AND FLAME RESISTANT UPHOLSTERY

INSTITUTE for
INDUSTRIAL RESEARCH
and STANDARDS

IRISH STANDARD SPECIFICATION

REQUIREMENTS FOR SMOULDER AND
FLAME RESISTANT UPHOLSTERY

I.S. 244:1980

Price £

DECLARATION
of
Specification
ENTITLED

Requirements for Smoulder and
Flame Resistant Upholstery

AS

The Irish Standard Specification for

Requirements for Smoulder and Flame Resistant Upholstery

The Institute for Industrial Research and Standards in exercise of the power conferred by section 20 of the Industrial Research and Standards Act, 1961 (No. 20 of 1961), and with the consent of the Minister for Industry, Commerce and Tourism hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Requirements for Smoulder and Flame Resistant Upholstery) Declaration, 1980.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Requirements for Smoulder and Flame Resistant Upholstery.

(2) The said standard specification may be cited as Irish Standard 244:1980 or as I.S. 244:1980.

SCHEDULE

Requirements for Smoulder and Flame Resistant Upholstery

1. SCOPE

This specification deals with requirements for resistance of furniture upholstery to smouldering cigarettes and requirements for flame resistant upholstery.

2. DEFINITION

Progressive smouldering: An exothermic oxidation not accompanied by flaming which is self-propagating, that is, independent of the ignition source. It may or may not be accompanied by incandescence.

3. UPHOLSTERY RESISTANT TO SMOULDERING CIGARETTES

Upholstery which is resistant to smouldering cigarettes shall be upholstery test pieces of which, when prepared in accordance with Clause 6 shall comply with the test of Clause 7 of this specification.

4. FLAME RESISTANT UPHOLSTERY

Flame resistant upholstery shall be upholstery test pieces of which, when prepared in accordance with Clause 6 shall comply with the test of Clause 8 of this specification.

5. APPARATUS

5.1 Frame holder for test pieces The apparatus to be used in the test is a frame holder of the form and dimensions illustrated in Figures 1 and 2. It consists of two rectangular frames hinged together and capable of being locked at right angles to each other. The frames are made from 25 mm x 3 mm steel flat bar to which is rigidly attached a wire mesh screen of mesh width 25-30 mm set at 5-7 mm below the upper edge of the frame. The metal sheet may be attached to the frame by an edging section which is welded to the frame. The sides of the vertical frame are extended downwards to form the back legs. The sides of the horizontal frame are extended to provide hinge holes. At the ends of the extended pieces below the hinge holes vertical pieces of the material are welded to the side pieces at right angles to them and overlapping the vertical back legs. The hinge holes which are provided in the extensions of the vertical and horizontal frame sides are 10 mm in diameter and are located so that the distance of the hole centres from the outer edges of the frames are 22.5 mm. A hinge bar 10 mm in diameter extends across the frames passing through the hinge holes. 10 mm holes are also provided in the back legs of the vertical section and in the welded on pieces of the horizontal section to enable the frames to be locked together by bolts passing through the holes. Front legs are welded to the horizontal frame across the corners. The height of the legs is such that the clear distance between the base of the frame and the supporting surface is approximately 50 mm. Suitable clips shall be provided for attaching test pieces of upholstery covering to the test frame

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