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FLAME RESISTANCE REQUIREMENTS FOR UPHOLSTERY

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IRISH STANDARD SPECIFICATION

FLAME RESISTANCE REQUIREMENTS FOR UPHOLSTERY

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DECLARATION
of
Specification
entitled
FLAME RESISTANCE REQUIREMENTS FOR UPHOLSTERY
as
The Irish Standard Specification for
FLAME RESISTANCE REQUIREMENTS FOR 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, Trade, Commerce and Tourism, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Flame Resistance Requirements for Upholstery) Declaration, 1983.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Flame Resistance Requirements for Upholstery.
(2) The said standard specification may be cited as Irish Standard 254:1983 or as I.S. 254:1983.

SCHEDULE

FLAME RESISTANCE REQUIREMENTS FOR UPHOLSTERY

1. SCOPE

This specification deals with requirements for resistance of upholstery to smouldering cigarettes and to specified flame sources. It applies to upholstered furniture other than furniture intended for domestic use.

Six grades numbered 2 to 7 of increasing resistance to flame are covered. Grade 1 is reserved for the possible inclusion, at a future date of the Requirements of I.S.244:1980 as Grade 1 for this specification.

2. DEFINITIONS

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.

Flaming: Continuing combustion in the gaseous phase with the emission of light.

3. RESISTANCE TO SMOULDERING CIGARETTES

The requirements of this clause apply to each of the six grades of upholstery. A test piece of the upholstery, prepared in accordance with Clause 6, when subjected to the test of Clause 7 using the apparatus described in Clause 5 shall comply with the following:

progressive smouldering or flaming in the interior or cover shall not be observed one hour after the placement of the cigarette in either cigarette test, and

progressive smouldering shall not be observed in the dismantled components of the test piece.

4. FLAME RESISTANCE

For each grade of upholstery a test piece prepared in accordance with Clause 6, when subjected to the flame test set out for the grade in Clause 8 using the apparatus described in Clause 5, shall comply with requirements for the grade set out below.

4.1 Grades 2 and 3

Two minutes after removal of the flame there shall be no flaming of the test piece.

Thirty minutes after removal of the flame there shall be no detectable amounts of smoke issuing from the test piece and no evidence of the production of heat, glowing or smouldering. On dismantling the test piece there shall be no evidence of progressive smouldering in the interior.

4.2 Grades 4 and 5

Ten minutes after ignition of the crib there shall be no flaming of the test piece.

Sixty minutes after ignition of the crib there shall be no detectable amounts of smoke issuing from the test piece and no evidence of the production of heat, glowing or smouldering. On dismantling the test piece there shall be no evidence of progressive smouldering in the interior.

4.3 Grades 6 and 7

Thirteen minutes after ignition of the test crib there shall be no flaming of the test piece.

Sixty minutes after ignition of the crib there shall be no detectable amounts of smoke issuing from the test piece and no evidence of the production of heat, glowing or smouldering. On dismantling the test piece there shall be no evidence of progressive smouldering in the interior.

4.4

During the test should any of the following occur, any flaming shall be extinguished and the upholstery concerned shall be deemed not to comply with this specification:

- (a) the test piece displays escalating combustion;
- (b) the test piece smoulders or burns until it is essentially consumed;
- (c) the test piece smoulders to its edges or to its full thickness;
- (d) the flame front reaches the lower edge or either side edge of the test piece or passes through its full thickness.

4.5 All grades

In the final examination of the test piece should there appear evidence of charring other than discolouration more than 100 mm in any direction, except upwards from the nearest part of the original position of the source, the upholstery shall be deemed not to comply with this specification.

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