This is a free page sample. Access the full version online.

nsai

I.S. 140: Part 3: 1987

IRISH STANDARD

SCHOOL FURNITURE
PART 3
PERFORMANCE REQUIREMENTS AND TESTS FOR TABLES FOR SCHOOLS

NATIONAL STANDARDS AUTHORITY OF IRELAND
DUBLIN 9
IRELAND

TELEX: 32501 TELEPHONE: (01) 370101

© IIRS 1987

Price Code H

This is a free page sample. Access the full version online.

This is a free page sample. Access the full version online.

CONTENTS

		Page2
Foreword		2
Declaration		3
	Clauses	
1.	Scope	4.
SECTION ONE: GENERAL		
2.	References	4.
3.	Definitions	4.
4.	Compliance with this specification	5.
5.	Test equipment	5.
6.	Testing and inspection	7.
7.	Marking and ordering	9.
SECTION TWO: STRENGTH		
8.	Requirements	9.
9.	Moisture content and conditioning	10.
10.	Examination before and after testing	10.
11.	Tests	10.
SECTION THREE: STABILITY		
12.	Test procedures	18.
	Figures	
1.	Vertical static load, main working surface	11.
2.	Vertical static load, ancillary working surface	11.
3.	Horizontal static load test	12.
4.	Drop test	13.
5.	Horizontal durability test, principle	14.
6.	Horizontal durability test, additional table	14.
7.	Horizontal durability test, measurement of the movement	15.
8.	Vertical durability test	15.
9.	Details of impacter for strength tests	17.
10.	Horizontal impact device for stability test	20.
11.	Horizontal and vertical stability test	21.
A.1	Summary of tests and Table	22.
	APPENDIX	
Reference Standards		23.

This is a free page sample. Access the full version online.

FOREWORD

This specification is a revision of I.S. 140 : 1965 and it is now being published in three parts:

Part 1 : Tables and Chairs for Schools.
Part 2 : Performance requirements and tests for chairs for schools.
Part 3 : (this part) : Performance requirements and tests for tables for schools.

It is hoped to publish the three parts simultaneously.

Part 1 specifies the requirements for the functional dimensions, identification, materials, design and finish of tables and chairs for teaching and dining purposes and lecture and assembly halls in educational institutions. Part 2 specifies the strength, durability and stability requirements for such chairs. This part 3 of the specification specifies objective criteria for strength, durability and stability of tables which are based on the simulation of conditions of use.
This part of the specification also requires that these tables be capable of passing a number of specified tests for strength durability and stability. The tests have a graded scale of severity which are designed to simulate conditions of use. Tables tested to grade 4 (contract)+ are suitable for use in schools. Regular normal use is tested by 'functional loadings' that are designed to assess the stability and the fatigue strength of tables under prolonged normal use. Occasional specially severe circumstances are tested by high and rapidly applied loadings that assess the ability of the tables to withstand the occasional misuses and mishaps, termed acceptable misuse, that inevitably occur during the life of any table.
The tests in this specification are based on British standards and on various drafts in course of preparation by the International Organisation for Standardisation. These are type tests and the results are only valid for articles of the particular type tested. In the case of designs not catered for in the test procedures, the test should be carried out as near as possible as described, and the points of deviation from the test procedure should be reported.
Tests carried out according to this specification are intended to demonstrate the ability of the item to give satisfactory service in its intended environment. It should be understood that such tests do not ensure that structural failure will not eventually occur as a result of habitual misuse or after an excessively long period of service.

+ Note: Grade 5 is suitable for extra heavy duty.

This is a free page sample. Access the full version online.

DECLARATION

OF

SPECIFICATION

ENTITLED

SCHOOL FURNITURE
PART 3, PERFORMANCE REQUIREMENTS AND TESTS
FOR TABLES FOR SCHOOLS

AS

THE IRISH STANDARD SPECIFICATION FOR

SCHOOL FURNITURE
PART 3, PERFORMANCE REQUIREMENTS AND TESTS
FOR TABLES FOR SCHOOLS

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 and Commerce, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (School Furniture, Part 3, Performance Requirements and Tests for Tables for Schools) Declaration, 1987.

2. (1) The specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for School Furniture, Part 3, Performance Requirements and Tests for Tables for Schools.

(2) The said standard specification may be cited as Irish Standard 140: Part 3: 1987 or as I.S. 140: Part 3: 1987.

3. (1) The Standard Specification (School Canteen and Classroom Tables and Chairs) Declaration, 1965, is hereby revoked.

(2) Reference in any other standard specification to the Instrument hereby revoked and to Irish Standard 140: 1965, thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 140: Part 3: 1987.

This is a free page sample. Access the full version online.

SCHEDULE

SCHOOL FURNITURE

PART 3, PERFORMANCE REQUIREMENTS AND TESTS FOR TABLES FOR SCHOOLS

1. SCOPE

This part of this specification covers requirements for strength and durability and stability together with test methods for school tables covered by Part 1 of this specification. Assessment of ageing and degradation is not included.

Note 1: The tests are designed to be applied to an article of furniture that is fully assembled and ready for use.

Note 2: The test methods and performance ratings of this part of the specification may be suitable for tables for uses other than in schools and some of the ratings and tests are applicable to desks and trolleys. Their use for such purposes would be an interim measure however pending the preparation of and/or the revision of other furniture specifications. The specification is divided into 3 sections as follows:

Section One; General
Section Two; Strength
Section Three; Stability.

Section One.

2. REFERENCES

The titles of standard specifications referred to in this specification are listed in the Appendix.

3. DEFINITIONS

For the purposes of this specification the following definitions apply:

3.1 Functional loadings. Test loadings applied to a table to cause stresses to simulate those caused by normal use.

3.2 Acceptable misuse tests. Test loadings applied to a table to simulate stresses that may be applied to it when it is used other than for its intended purpose.

Note: This category of loadings is thus intended to cater for such foreseen abuse of a table as may occur mainly during handling and transport, or when it is used in an unconventional way.

3.3 Static loading. The steady and gradual application, up to the maximum that the table may be required to withstand, of a test loading repeated a sufficient number of times to make sure of the static strength of the table.

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation