



I.S. 158: 1987

IRISH STANDARD

CLOSED STRING WOOD STAIRS

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1.

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FOREWORD

This draft specification is a revision of I.S. 158 : 1967 'Closed String Wood Stairs' and covers constructional and design requirements. I.S. 222 P* covers modular dimensions for stairs. When that standard was prepared it was envisaged that a revision of I.S. 158 would include work sizes. Because of the wide variations in methods of construction and of detailing it has not been possible to specify work sizes, but the matter will be kept under review. Stairs manufactured to this standard specification should comply with the dimensional requirements of I.S. 222P when intended for use in modular construction. Stairs complying with these dimensional requirements may not be suitable for use in the renovation of existing buildings or for special purposes, but they should comply with requirements of this specification and all stairs should comply with the proposed building regulations. I.S. 222P covers all stairs, i.e. types and sizes of stairs additional to those covered by this standard specification.

* To be published later as a conventional standard.

3.

DECLARATION
OF
SPECIFICATION
ENTITLED
CLOSED STRING WOOD STAIRS
AS
THE IRISH STANDARD SPECIFICATION FOR
CLOSED STRING WOOD STAIRS

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 (Closed String Wood Stairs) Declaration, 1987.

2. (1) The specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Closed String Wood Stairs).

(2) The said standard specification may be cited as Irish Standard 158 : 1987 or as I.S. 158 : 1987.

3. (1) The Standard Specification (Closed String Wood Stairs) Declaration, 1967, is hereby revoked.

(2) Reference in any other standard specification to the Instrument hereby revoked and to Irish Standard 158 : 1967, thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 158 : 1987.

4.

SCHEDULE

CLOSED STRING WOOD STAIRS

1. SCOPE

This specification covers requirements for quality, design and construction of stairs in wood with closed strings for internal use in dwellings. The specification does not apply to stairs with open risers.

2. REFERENCES

The titles of standards publications referred to in this specification are listed on the penultimate page.

3. DEFINITIONS

3.1 Baluster. An infilling member of a balustrade.

3.2 Balustrade. A protective barrier so designed as to give a satisfactory degree of safety and rigidity and including a wall or railing.

3.3 Clearance. The unobstructed height measured at right angles to the pitch line.

3.4 Close string. A string having its top and bottom edges parallel.

3.5 Carriage. An inclined member placed against the underside of the steps to add support between the strings.

3.6 Joints.

3.6.1 Draw-bored and pinned. A mortise and tenon joint is said to be draw-bored and pinned when holes are bored through the mortised member and the tenon, slightly out of line, so that by driving a wooden pin through the holes the shoulders of the tenon are drawn up tight.

3.6.2 Housed joint. A joint in which the full thickness of the edge or end of one member is inserted in a housing in the other member.

3.6.3 Housing. A groove in one member to allow for the insertion of the full thickness of another member (see 3.6.2).

3.6.4 Mortise. A hole or slot to receive a tenon of corresponding size which may or may not penetrate the full width or thickness of the member in which it is formed.

3.6.5 Mortise and tenon joint. A joint in which the tenon on one end of a member is fitted into a mortise cut in the other member.

3.7 Going. The horizontal distance between the nosings of two consecutive steps, measured on the walking line.

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