## IRISH STANDARD SPECIFICATION

# WINDOW SILLS

I.S. 89: Part 1: 1981

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#### **FOREWORD**

This specification which updates I.S. 89: 1958 covers requirements for precast concrete sills. The specification covers general, dimensional, manufacturing and performance requirements. As the use of sills constructed to imperial dimensions is likely to continue for some time, I.S. 89: 1958 (as amended 1981) will remain in force on a temporary basis.

The dimensions given are in harmony with the dimensional requirements of metric modular Irish standard specifications for blocks, bricks, and windows. Cognizance has also been taken of the dimensions given in "Modular Components 5: Lintels and Sills" published by An Foras Forbartha. The modular dimensions specified in provisional Irish Standard 216P: 1980 "Precast Concrete Window Sills—Dimensions" have been incorporated into this specification. It is envisaged that I.S. 216P will be withdrawn soon after the publication of this specification.

Further specifications covering prestressed and reinforced precast concrete lintels are being prepared.

This specification deals only with concrete sills whereas I.S. 89: 1958 also covers stone sills. Neither specification covers clayware or slate sills. It is felt that the usage of sills other than of concrete is so small that their inclusion in a specification is not warranted. Where sills of other materials are used they should conform to the dimensional requirements of this specification.

This specification includes sills having three different cross-sections. This selection should be adequate for the majority of uses. Lengths are given for sills which end flush with the window and for sills which have either stooling or are intended for building in.

The height of the sill should allow the window opening to course with brickwork or blockwork. A co-ordinating height of 100 mm will be suitable for modular concrete blockwork and modular brickwork, but masonry will need to be cut if bricks of 75 mm co-ordinating height are used. The work sizes for sill heights allow the insertion of a damp-proof membrane in the bed joint.

In addition to these dimensional requirements, sills must also meet performance criteria as follows:—

- (1) they should prevent moisture entering the building,
- (2) they should conduct both direct rain and run-off from the window away from the face of the building,
- (3) they should be durable in the intended position on the building and in the environment for which they are designed.

As this last requirement cannot readily be tested, the purchaser should satisfy himself that the material selected will be suitable by reference to local experience.

### **DECLARATION**

OF

**SPECIFICATION** 

ENTITLED

WINDOW SILLS

AS

THE IRISH STANDARD SPECIFICATION FOR

WINDOW SILLS

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 Energy, hereby declares as follows:

- 1. This instrument may be cited as the Standard Specification (Window Sills) Declaration. 1981.
- 2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Window Sills.
- (2) The said standard specification may be cited as Irish Standard 89: Part 1: 1981 or as 1.S. 89: Part 1: 1981.



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