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National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 524-6:1997

ICS 77.140.75
91.080.40

STEEL STRIP SHEATHS FOR PRESTRESSING TENDONS - TEST METHODS - PART 6: DETERMINATION OF LEAKTIGHTNESS (DETERMINATION OF WATER LOSS)

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DECLARATION

OF

SPECIFICATION

ENTITLED

STEEL STRIP SHEATHS FOR PRESTRESSING TENDONS - TEST METHODS - PART 6: DETERMINATION OF LEAKTIGHTNESS (DETERMINATION OF WATER LOSS)

AS

THE IRISH STANDARD SPECIFICATION FOR

STEEL STRIP SHEATHS FOR PRESTRESSING TENDONS - TEST METHODS - PART 6: DETERMINATION OF LEAKTIGHTNESS (DETERMINATION OF WATER LOSS)

NSAI in exercise of the power conferred by section 16 (3) of the National Standards Authority of Ireland Act, 1966 (No. 28 of 1996) and with the consent of the Minister for Enterprise, Trade and Employment, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Steel strip sheaths for prestressing tendons - Test methods - Part 6: Determination of leaktightness (Determination of water loss)) Declaration,1997.

2. (1) The Specification set forth in the schedule to this declaration is hereby declared to be the standard specification for Steel strip sheaths for prestressing tendons - Test methods - Part 6: Determination of leaktightness (Determination of water loss). The Schedule comprises the text of EN 524-6:1997.

(2) The said standard specification may be cited as Irish Standard EN 524-6:1997 or as I.S. EN 524-6:1997.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 524-6

March 1997

ICS 77.140.75; 91.080.40

Descriptors: prestressed concretes, tubes, sheating, prestressing steels, classifications, specification, verification, marking

English version

Steel strip sheaths for prestressing tendons - Test methods - Part 6: Determination of leaktightness (Determination of water loss)

Gaines en feuillard d'acier pour câbles de précontrainte - Méthodes d'essai - Partie 6: Détermination de l'étanchéité (Détermination des pertes en eau)

Hüllrohre aus Bandstahl für Spannglieder - Prüfverfahren - Teil 6: Bestimmung der Dichtheit (Bestimmung des Wasserverlustes)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

. 2

This European Standard has been prepared by Technical Committee CEN/TC 104 "Concrete (performance, production, placing and compliance criteria)", the secretariat of which is held by DIN.

This standard is a part of the series EN 524 "Sheaths for prestressing tendons - Test methods" which additionally comprises the following parts

- Part 1 Determination of shape and dimensions
- Part 2 Determination of flexural behaviour
- Part 3 To-and-fro bending test
- Part 4 Determination of lateral load resistance
- Part 5 Determination of tensile load resistance

These European standards apply to EN 523 "Steel strip sheaths for prestressing tendons - Terminology, requirements, quality control".

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 1997, and conflicting national standards shall be withdrawn at the latest by September 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies the procedure for determining the leaktightness of sheaths for prestressing tendons which comply with EN 523.

2 Normative References

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 523:1997 Steel strip sheaths for prestressing tendons - Terminology, requirements, quality control

EN 524-3 Steel strip shaths for prestressing tendons - Test methods - Part 3: To-and-fro bending test

3 Test procedure when quality control of finished sheaths is carried out

The test shall be conducted on a 1100 mm long specimen which has previously been subjected to the tests required by 5.1.6 to 5.1.8 of prEN 523. The specimen shall be filled with water after which it shall be subjected to a constant internal pressure of 0,5 bar (50 kPa) by adequate equipment (e. g. by sealing the top of the specimen and inducing air pressure). The water loss which occurs within a period of 5 min shall be measured with an accuracy of 3 % and recorded to the nearest 0,1 %.

NOTE: A method for determining the percentage water loss consists e. g. of measuring the height of water from the top of the specimen before applying and after releasing the pressure and relating this change in distance to the initial filling height. The distance measurement should have an accuracy of at least 0,5 mm.

4 Test procedure for use in production control

For the routine checks of the running production the 1100 mm long specimen has to be subjected only to the to-and-fro bending procedure given in EN 524-3 before carrying out the leaktightness test described in the foregoing clause 3.

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