

Steel strip sheaths for prestressing tendons — Test methods —

Part 5: Determination of tensile load resistance

The European Standard EN 524-5:1997 has the status of a
British Standard

ICS 77.140.75; 91.080.40

National foreword

This British Standard is the English language version of EN 524-5:1997. The UK participation in its preparation was entrusted by Technical Committee B/525, Building and civil engineering structures, to Subcommittee B/525/2, Structural use of concrete, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 and 3 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

This British Standard, having been prepared under the direction of the Sector Board for Building and Civil Engineering, was published under the authority of the Standards Board and comes into effect on 15 November 1997

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ISBN 0 580 28670 3

Amendments issued since publication

Amd. No.	Date	Comments

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ABAN Prestressing

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Descriptors: Prestressed concretes, tubes, sheathing, prestressing steels, classifications, specification, verification, marking

English version

Steel strip sheaths for prestressing tendons — Test methods — Part 5: Determination of tensile load resistance

Gaines en feuillard d'acier pour câbles de
précontrainte — Méthodes d'essai —
Partie 5: Détermination de la résistance à la
traction

Hüllrohre aus Bandstahl für Spannglieder —
Prüfverfahren —
Teil 5: Bestimmung der Zugbelastbarkeit

This European Standard was approved by CEN on 1997-01-27. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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.

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CEN

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

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

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 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 6: Determination of leaktightness (Determination of water loss).*

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.

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1 Scope

This European Standard specifies the procedure for determining the tensile load resistance 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*.

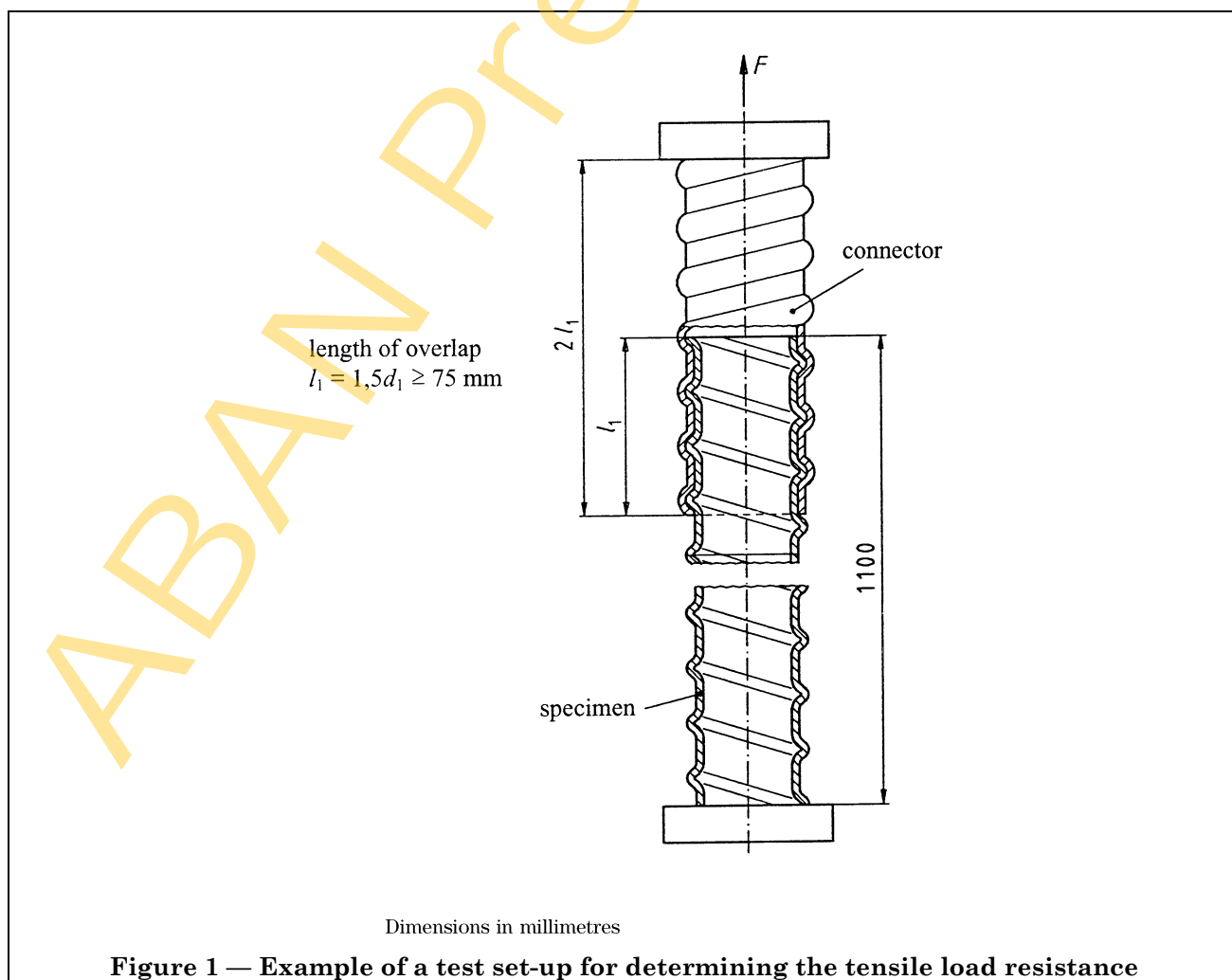
3 Apparatus and accuracy

The following test equipment is required:

- a *testing machine* or a suitable test frame with a hydraulic or mechanical drive;
- a *load measuring device* with an accuracy of 2 % of the tensile load specified in Table 1 in EN 523:1997;
- a *deformation measuring device* such as folding rule.

4 Procedure

A 1 100 mm long specimen shall be connected to at least one corresponding coupler (see 5.2 of EN 523:1997) and subjected to the loads specified in Table 1, line 6 of EN 523:1997. No internal stiffeners shall be used. The displacement of the coupler in relation to the sheath, occurring under the specified load, shall be measured. This test value — rounded off to the nearest full millimetre — has to be recorded together with any unusual observations.



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