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National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 1065:1999

ICS 91.220

ADJUSTABLE TELESCOPE STEEL PROPS - PRODUCT SPECIFICATIONS, DESIGN AND ASSESSMENT BY CALCULATION AND TESTS

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Tel: (01) 807 3838

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EN 1065

September 1998

ICS

Descriptors: building sites, scaffolding, props, steels, classifications, designation, corrosion prevention, adjustment, dimensions, mechanical strength, verification, computation, tests, marking

English version

Adjustable telescopic steel props - Product specifications, design and assessment by calculation and tests

Etais télescopiques réglables en acier - Spécifications du produit, conception et évaluation par calculs et essais

Baustützen aus Stahl mit Ausziehvorrichtung - Produktfestlegungen, Bemessung und Nachweis durch Berechnung und Versuche

This European Standard was approved by CEN on 10 June 1998.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

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Contents

Page

Foreword . . . 3

Introduction . . . 3

1 Scope . . . 3

2 Normative references . . . 4

3 Definitions and symbols . . . 6

4 Classification . . . 8

5 Designation . . . 9

6 Materials . . . 9
6.1 General . . . 9
6.2 Modification by cold working . . . 9
6.3 Corrosion protection . . . 10

7 Configuration . . . 10
7.1 Tubes . . . 10
7.2 Welding . . . 11
7.3 Length adjustment device . . . 12
7.4 Permanent prevention against unintentional disengagement . . . 13
7.5 Endplates . . . 13
7.6 Props with fixed forkheads . . . 13
7.7 Anti hand trap . . . 15
7.8 Minimum extended length . . . 15
7.9 Overlapping length . . . 16
7.10 Data required from the manufacturer . . . 16

8 Nominal characteristic strength . . . 16

9 Verification . . . 16
9.1 General . . . 16
9.2 Verification of the actual characteristic strength by calculation . . . 17
9.3 Verification of the actual characteristic strength by testing . . . 20
9.4 Verification of the strength of adjustment device . . . 21
9.5 Verification of the prevention against unintentional disengagement . . . 21

10 Test methods . . . 21
10.1 General . . . 21
10.2 Test method for the prop strength . . . 22
10.3 Test of a pin and its supports . . . 25
10.4 Test of the prevention against unintentional disengagement . . . 26

11 Test report . . . 26

12 Marking . . . 27

Annex A (normative) **Equations for the calculation of the structural properties of tubes** . . . 28

Annex B (normative) **Calculation of resistance for pin connections** . . . 30

Annex C (normative) **Statistical evaluation of data** . . . 31

Annex D (informative) **Prototype assessment** . . . 32

Annex E (informative) **Ongoing production inspection** . . . 33

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 53 "Temporary works equipment", the secretariat of which is held by DIN.

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 March 1999, and conflicting national standards shall be withdrawn at the latest by March 1999.

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

Introduction

Whilst this European Standard deals with the more common types of adjustable telescopic steel props in use, it is not intended to prevent development of other types of props. For example, props may have hinged ends or other length adjustment devices or be made of other materials. Whilst such props cannot comply with this European Standard it is recommended that the principals of this European Standard be considered in the design and assessment of such props.

The characteristic strengths values specified in this European Standard form a reference level which is unsafe for direct site use. It is a matter for a separate European Standard to relate these characteristic strengths to safe site usage by applying suitable partial safety factors γ_M and γ_F. It is also a matter for a separate European Standard to specify the required level of corrosion protection and inspection.

This European Standard is a product standard primarily for use in the field of falsework and formwork.

In cases where the prop is an integral part of a system of soffit support, other design and assessment procedures may be more appropriate or even necessary.

This European Standard gives a number of alternatives, a designation of which is given in clause 5.

1 Scope

This European Standard specifies materials, design requirements, corrosion protection alternatives together with assessment methods using both calculations and testing for open thread and covered thread adjustable telescopic steel props which are intended for use on construction sites (see figure 1).

It specifies five classes of nominal characteristic strengths for adjustable telescopic steel props each having a series of maximum extended lengths. Each having differing endplate configuration.

This European Standard does not apply to adjustable props of different materials or construction, nor does it provide any information concerning the use of adjustable steel props.

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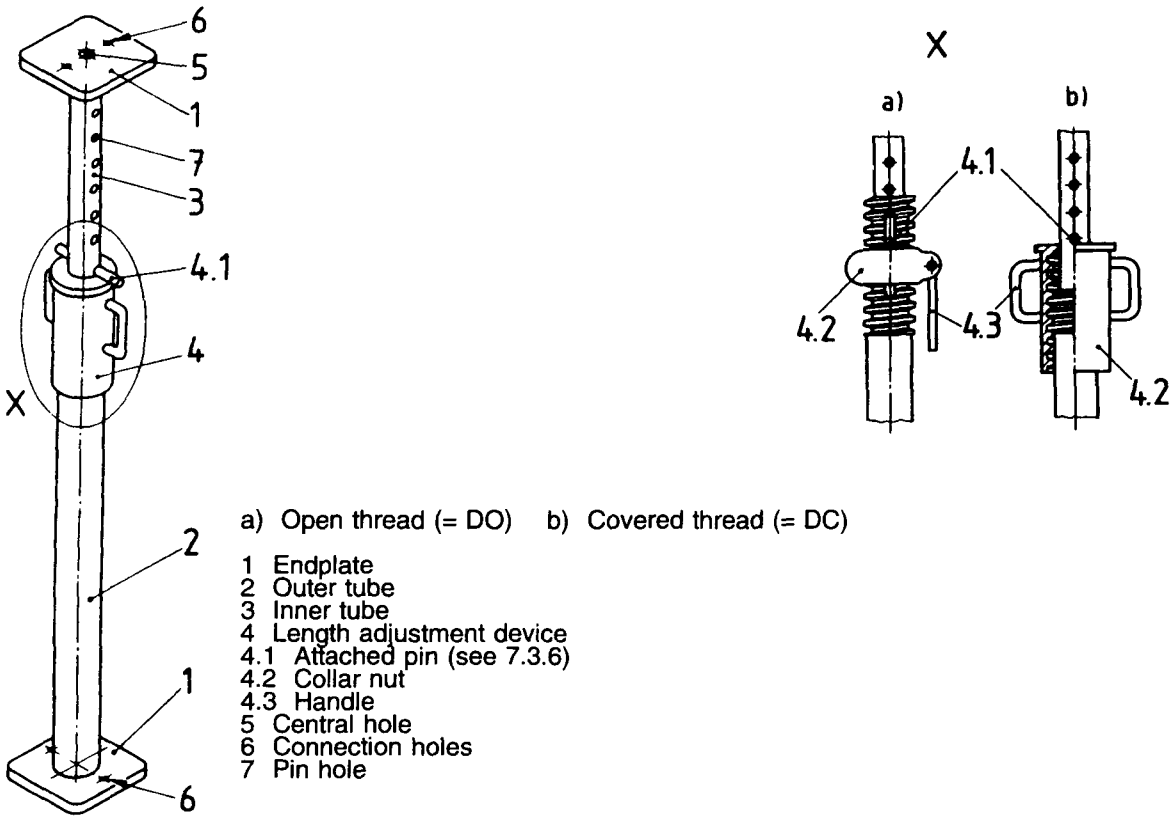

a) Open thread (= DO) b) Covered thread (= DC)

1 Endplate
2 Outer tube
3 Inner tube
4 Length adjustment device
4.1 Attached pin (see 7.3.6)
4.2 Collar nut
4.3 Handle
5 Central hole
6 Connection holes
7 Pin hole

Figure 1: Adjustable telescopic steel prop

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 74
Couplers, loose spigots and base-plates for use in working scaffolds and falsework made of steel tubes – Requirements and test procedures

EN 729-2
Quality requirements for welding - Fusion welding of metallic materials - Part 2: Comprehensive quality requirements

EN 1562
Founding - Malleable cast irons

EN 1563
Founding - Spheroidal graphite cast irons

EN 10002-1
Tensile testing of metallic materials – Method of test at ambient temperature

EN 10025
Hot rolled products of non-alloy structural steels – Technical delivery conditions

EN 10083-1
Quenched and tempered steels – Part 1: Technical delivery conditions for special steels

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