



SLOVENSKI STANDARD

SIST EN 74-3:2007

01-september-2007

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dcXbcybY'd'cy' Y]'b'gdc'bj' Yd]!'NU hYj Y]'b'bU]b]'dfYg_i yUb'U

Couplers, spigot pins and baseplates for use in falsework and scaffolds - Part 3: Plain base plates and spigot pins - Requirements and test procedures

Kupplungen, Zentrierbolzen und Fußplatten für Arbeitsgerüste und Traggerüste - Teil 3: Ebene Fußplatten und Zentrierbolzen - Anforderungen und Prüfverfahren

Raccords, goujons d'assemblages et semelles pour étalement et échafaudages de service - Partie 3: Semelles planes et goujons - Exigences de performances et méthode d'essai

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English Version

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This European Standard was approved by CEN on 15 March 2007.

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 CEN Management Centre or to any CEN member.

This European Standard exists 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 CEN Management Centre has the same status as the official versions.

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Foreword

This document (EN 74-3:2007) 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of an identical text or by endorsement, at the latest by October 2007, and conflicting national standards shall be withdrawn at the latest by October 2007.

This document together with EN 74-1:2005 supersedes EN 74:1988.

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

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Introduction

EN 74, “*Couplers, spigot pins and base plates for use in falsework and scaffolds*”, consists of the following parts:

Part 1 – *Couplers for tubes – Requirements and test procedures*

Part 2 – *Special couplers – Requirements and test procedures*

Part 3 – *Plain base plates and spigot pins – Requirements and test procedures*

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1 Scope

EN 74-3 specifies for plain and profiled base plates and loose spigots to be used with 48,3 mm diameter tubes in scaffolds and falsework:

- materials;
- design requirements;
- test procedure;
- assessment.

A base plate with a means of limited vertical adjustment, called a “base jack”, is dealt with in EN 12811-1.

NOTE In the text of this standard, the term “loose spigot” is used instead of the “spigot pin” in the title.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 74-1:2005, *Couplers, spigot pins and baseplates for use in falsework and scaffolds - Part 1: Couplers for tubes - Requirements and test procedures*

EN 12811-1:2003, *Temporary works equipment - Part 1: Scaffolds – Performance requirements and general design*

EN 12811-2:2004, *Temporary works equipment - Part 2: Information on materials*

EN 12811-3, *Temporary works equipment - Part 3: Load testing*

ISO 2859-10, *Sampling procedures for inspection by attributes - Part 10: Introduction to the ISO 2859 series of standards for sampling for inspection by attributes*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 74-1:2005, in EN 12811-1:2003, EN 12811-2:2004 and the following apply.

3.1

plain base plate (BP)

stiff base flat or deformed with a centring device for locating a tube for spreading the force (see Figure 1)

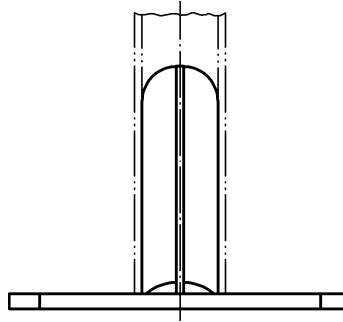


Figure 1 — Typical example of a base plate with a flat plate

3.2

loose spigot (LS)

fitting using internally for locating two tubes coaxially to transmit compressive forces (see Figure 2)

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Figure 2 — Examples of loose spigot

4 Symbols

For the purposes of this document, the following symbols apply:

f	displacement blow the periphery of the tube which applies the force in mm (see Figure 5);
P	force applied to the tube placed over the spigot in kN;
P_1	test force applied to the tube placed over the spigot in kN;
r	radius of an inscribed circle;
C_2	identification of a corrosion protection type;
P_p	initial force applied to form a reference level in kN.

5 Requirements for structural properties

There are no classes for either base plates or loose spigots. There is a stiffness requirement for base plates but there are no structural requirements for loose spigots.

6 Reference tube

The reference tube used in testing shall meet the requirements for type RT_{S2} specified in Table 7 of EN 74-1:2005.

7 General requirements

7.1 Materials

Requirements for ferrous materials are given in EN 74-1; in addition, aluminium alloys may be used; EN 12811-2 gives information on a number of frequently used materials.

Base plates and loose spigots shall be protected against atmospheric corrosion, in general in accordance with EN 12811-2.

Electrolytical zinc coating C_2 shall have an average thickness of 15 μm .

7.2 Design

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7.2.1 General

This standard does not specify any structural requirements for loose spigots.

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7.2.2 Base plate (BP)

7.2.2.1 Plain base plates

Base plates consist of two elements, a plate and a centring device. They are for use as supports for tubes with an external diameter of 48,3 mm.

7.2.2.2 Geometrical requirements

Each base plate shall have a circular or polygonal base. The centring device shall have a minimum length of 50 mm. For a reference tube placed on the base plate, the free movement of the tube in radial direction may not be more than 11 mm in any radial direction, whereby the nominal dimensions may be taken as the basis and the reference tube has a diameter of 48,3 mm and a thickness of 2,7 mm (see Figure 3).

The plate shall be at least doubly symmetrical and shall be circular or polygonal. The radius r of the inscribed circle shall be between 70 and 80 mm.