

საქართველოს სტანდარტი

სსკ: 91.220

ქუროები, მიღისური სარჭეები და საყრდენი ფილები დამხმარე სამუშაოებში
და ხარაჩოებში გამოყენებისათვის - ნაწილი 2: სპეციალური ქუროები -
მოთხოვნები და საგამოცდო პროცედურები

საინფორმაციო მოწაცემები

1 მიღებულია და დაშვებულია სამოქმედოდ: სსიპ-საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს გენერალური დირექტორის 10/05/2022 წლის № 31 განკარგულებით

2 მიღებულია „თავთურცლის“ თარგმნის მეთოდით: სტანდარტიზაციის ევროპული კომიტეტის (ენ) სტანდარტი ენ 74-2:2022 „, ქუროები, მილისური სარჭები და საყრდენი ფილები დამხმარე სამუშაოებში და ხარაჩოებში გამოყენებისათვის - ნაწილი 2: სპეციალური ქუროები - მოთხოვნები და საგამოცდო პროცედურები“

3 პირველად

4 რეგისტრირებულია: სსიპ-საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 10/05/2022 წლის №268-1.3-024138

წინამდებარე სტანდარტის ნებისმიერი ფორმით გავრცელება სააგენტოს ნებართვის გარეშე აკრძალულია

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 74-2

March 2022

ICS 91.220

Supersedes EN 74-2:2008

English Version

Couplers, spigot pins and baseplates for use in falsework
and scaffolds - Part 2: Special couplers - Requirements and
test procedures

Raccords, goujons d'assemblage et semelles pour
étalements et échafaudages - Partie 2 : Raccords
spéciaux - Exigences et modes opératoires d'essai

Kupplungen, Zentrierbolzen und Fußplatten für
Arbeitsgerüste und Traggerüste - Teil 2:
Spezialkupplungen - Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 14 February 2022.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

	Page
European foreword	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms, definitions and symbols	7
3.1 Terms and definitions	7
3.2 Symbols and abbreviations	9
4 Types and classes of special couplers.....	10
4.1 Types of couplers	10
4.2 Classes of Couplers	11
4.2.1 General.....	11
4.2.2 Transmissible internal forces, moments and related stiffnesses	11
5 Reference tubes and bar for coupler tests.....	15
6 General requirements	16
6.1 Materials	16
6.2 Design.....	16
6.3 Manufacturer's drawings	18
6.4 Production control	18
7 Tests methods and evaluation of results.....	19
7.1 General.....	19
7.2 Half couplers.....	21
7.2.1 General.....	21
7.2.2 Slipping force F_s of a half coupler	21
7.2.3 Failure force F_f of a half coupler	22
7.2.4 Pull apart force F_p of a half coupler.....	24
7.2.5 Shear force F_q of a half coupler	25
7.2.6 Stiffnesses and bending moments of a half coupler	26
7.2.7 Indentation of a half coupler	29
7.3 Sleeve couplers with shear studs (SS)	30
7.3.1 Failure force F_f of sleeve couplers	30
7.3.2 Bending moment M_B of sleeve couplers	31
7.4 Reduction couplers	33
7.4.1 General.....	33
7.4.2 Slipping and failure force of a reduction coupler (RR and RS).....	33
7.4.3 Pull apart force of a right angle reduction coupler (RR)	33
7.4.4 Indentation (RR and RS).....	33
8 Designation	33
9 Marking	34
10 Test report.....	34
11 Assessment.....	34

12	Product manual	35
Annex A (informative)	Ongoing production control	36
Annex B (informative)	Information about the design of temporary works structures	38
B.1	General	38
B.2	Structural design	38
B.2.1	Stiffnesses and structural systems	38
B.2.2	Structural systems for components with half couplers	39
B.2.3	Characteristic values of resistances for design purposes	41
B.2.4	Verification of ultimate limit state — Interaction	42
Bibliography		43

European foreword

This document (EN 74-2:2022) 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 September 2022, and conflicting national standards shall be withdrawn at the latest by September 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 74-2:2008.

Compared to EN 74-2:2008, the following changes have been made:

- 1) alignment with the new EN 74-1;
- 2) requirement for welded half coupler HW class B changed;
- 3) in addition, editorial changes are made.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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

Introduction

This is the second of three parts of a standard for couplers.

The first part, EN 74-1 covers common types of friction couplers.

This second part, EN 74-2 deals with other less common types couplers.

The third part, EN 74-3 deals with plain base plates and loose spigot pins.

This document is not intended to prevent the development of other types of couplers. For example, couplers can be manufactured in aluminium alloys or other materials or be designed for use with steel or aluminium tubes with outside diameters different from those specified in this document. Whilst such couplers cannot comply with this document, it is recommended that the principles of this document are considered in their design and assessment.

The couplers specified in this document are intended for use in temporary works, for example, scaffolds erected in accordance with EN 12811-1 and falsework erected in accordance with EN 12812.

NOTE In the text of this document, the term "loose spigot" is used instead of the "spigot pin" in the title.