

საქართველოს სტანდარტი

სსკ: 91.010.30; 91.080.30

ევროკოდი 6- ქვის/აგურის წყობის კონსტრუქციების დაპროექტება - ნაწილი 1-
1: ზოგადი წესები დაარმატურებული და დაუარმატურებელი ქვის/აგურის
კონსტრუქციისათვის

სსტ ენ 1996-1-1:2022/2022

საინფორმაციო მონაცემები

1 მიღებულია და დაშვებულია სამოქმედოდ: სსიპ-საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს გენერალური დირექტორის 18/08/2022 წლის № 57 განკარგულებით

2 მიღებულია „თავფურცლის“ თარგმნის მეთოდით: სტანდარტიზაციის ევროპული კომიტეტის (ენ) სტანდარტი ენ 1996-1-1:2022 „ ევროკოდი 6- ქვის/აგურის წყობის კონსტრუქციების დაპროექტება - ნაწილი 1-1: ზოგადი წესები დაარმატურებული და დაუარმატურებელი ქვის/აგურის კონსტრუქციისათვის “

3 პირველად

4 რეგისტრირებულია: სსიპ-საქართველოს სტანდარტებისა და მეტროლოგიის ეროვნული სააგენტოს რეესტრში: 18/08/2022 წლის №268-1.3-027278

წინამდებარე სტანდარტის ნებისმიერი ფორმით გავრცელება სააგენტოს ნებართვის გარეშე აკრძალულია

English Version

**Eurocode 6 - Design of masonry structures - Part 1-1:
General rules for reinforced and unreinforced masonry
structures**

Eurocode 6 : Calcul des ouvrages en maçonnerie -
Partie 1-1: Règles générales pour ouvrages en
maçonnerie armée et non armée

Eurocode 6 - Bemessung und Konstruktion von
Mauerwerksbauten - Teil 1-1: Allgemeine Regeln für
bewehrtes und unbewehrtes Mauerwerk

This European Standard was approved by CEN on 3 January 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.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 1996-1-1:2022) has been prepared by Technical Committee CEN/TC 250 “Structural Eurocodes”, the secretariat of which is held by BSI. CEN/TC 250 is responsible for all Structural Eurocodes and has been assigned responsibility for structural and geotechnical design matters by CEN.

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 2022, and conflicting national standards shall be withdrawn at the latest by April 2024.

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 1996-1-1:2005+A1:2012.

The first generation of EN Eurocodes was published between 2002 and 2007. This document forms part of the second generation of the Eurocodes, which have been prepared under a Mandate M/515 given to CEN by the European Commission and the European Free Trade Association.

The Eurocodes have been drafted to be used in conjunction with relevant execution, material, product and test standards, and to identify requirements for execution, materials, products and testing that are relied upon by the Eurocodes.

The main changes compared to the previous edition are listed below:

- improvement of the verification of combined loading;
- improvement of the capacity reduction factor for slenderness and eccentricity;
- addition of the out-of-plane shear friction coefficient;
- addition of rules for confined masonry;
- addition of informative annexes for complex shapes and mean material properties.

The Eurocodes recognize the responsibility of each Member State and have safeguarded their right to determine values related to regulatory safety matters at national level through the use of National Annexes.

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.

0 Introduction

0.1 Introduction to the Eurocodes

The Structural Eurocodes comprise the following standards generally consisting of a number of Parts:

- EN 1990 Eurocode: Basis of structural and geotechnical design
- EN 1991 Eurocode 1: Actions on structures
- EN 1992 Eurocode 2: Design of concrete structures
- EN 1993 Eurocode 3: Design of steel structures
- EN 1994 Eurocode 4: Design of composite steel and concrete structures
- EN 1995 Eurocode 5: Design of timber structures
- EN 1996 Eurocode 6: Design of masonry structures
- EN 1997 Eurocode 7: Geotechnical design
- EN 1998 Eurocode 8: Design of structures for earthquake resistance
- EN 1999 Eurocode 9: Design of aluminium structures

The Eurocodes are intended for use by designers, clients, manufacturers, constructors, relevant authorities (in exercising their duties in accordance with national or international regulations), educators, soft-ware developers, and committees drafting standards for related product, testing and execution standards.

NOTE Some aspects of design are most appropriately specified by relevant authorities or, where not specified, can be agreed on a project-specific basis between relevant parties such as designers and clients. The Eurocodes identify such aspects making explicit reference to relevant authorities and relevant parties.

0.2 Introduction to EN 1996 Eurocode 6

EN 1996 Eurocode 6 standards apply to the design of building and civil engineering works, or parts thereof, in unreinforced, reinforced, prestressed and confined masonry.

EN 1996 (all parts) deal only with the requirements for resistance, serviceability and durability of structures. Other requirements, for example, concerning thermal or sound insulation, are not considered.

EN 1996 (all parts) do not cover the specific requirements of seismic design. Provisions related to such requirements are given in EN 1998 (all parts), which complements, and is consistent with EN 1996 (all parts).

EN 1996 (all parts) do not cover numerical values of the actions on building and civil engineering works to be taken into account in the design. They are provided in EN 1991(all parts).

0.3 Introduction to EN 1996-1-1

For the design of new structures, EN 1996-1-1 is intended to be used, for direct application, together with the other Eurocodes where applicable.