



DRAFT TANZANIA STANDARD

General principles on the design of structures for durability

DRAFT STANDARD

TANZANIA BUREAU OF STANDARDS

BCDC 2 (4000) DTZS/ISO 13823:2008

This Finalized Tanzania Standard was published under the authority of the Board of Directors of Tanzania Bureau of Standards on yyy-mm-dd. Tanzania Bureau of Standards (TBS) is the statutory national standards body for Tanzania established under the Standards Act No. 3 of 1975, repealed and replaced by the Standards Act No. 2 of 2009. The Building and Construction Divisional Standards Committee (BCDC), under whose supervision this Tanzania Standard was prepared, consists of representatives from the following organizations:

- *College of Engineering and Technology, University of Dar es Salaam
- Tanzania Commission for Science and Technology (COSTECH)
- Ministry of Works and Transportation (MoWT)
- National Housing Corporation (NHC)
- Contractors Registration Board (CRB)
- Ardhi University (ARU)
- Jeshi la Kujenga Taifa (JKT)
- *National Estates and Designing Consultancy Company Ltd (NEDCO)
- Architects and Quantity Surveyors Registration Board (AQRB)
- Institution of Engineers Tanzania (IET)
- *National Construction Council (NCC)
- Engineers Registration Board (ERB)
- Tanzania Building Agency (TBA)

The organizations marked with an asterisk (*) in the above list, together with the following were directly represented on the Technical Committee entrusted with the preparation of this draft Tanzania Standard:

- Dar es salaam Institute of Technology (DIT)
- Tanzania National Roads Agency (TANROADS)
- Small Industries Development Organization (SIDO)

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0.National foreword

The Tanzania Bureau of standards is the statutory national standards body for Tanzania, established under the act.No.3 of 1975, amended by act.No.2 of 2009

This Finalized Tanzania standard is being prepared by the Masonry Technical Committee, under the supervision of the Building and Construction Divisional Standards Committee (BCDC)

This finalized Tanzania Standard is identical adoption of **General principles on the design of structures for durability**, published by the International Organization for Standardization (ISO). This publication was last reviewed and confirmed in 2024. Therefore, this version remains current

Terminologies and conventions

The text of the International standard is hereby being recommended for adoption without deviation for publication as draft Tanzania standard.

Some terminologies and certain conventions are not identical with those used as Tanzania standards; attention is drawn to the following:

The comma has been used as a decimal marker for metric dimensions. In Tanzania, it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words "International Standard" appear, referring to this standard, they should read as "Tanzania Standard".

Scope

This International Standard specifies general principles and recommends procedures for the verification of the durability of structures subject to known or foreseeable environmental actions, including mechanical actions, causing material degradation leading to failure of performance. It is necessary to ensure reliability of performance throughout the design service life of the structure.

Fatigue failure due to cyclic stress is not within the scope of this International Standard.

NOTE Reference can be made to [ISO 2394](#) for failure due to fatigue.