DRAFT TANZANIA STANDARD

Requirements and recommendations for elastic barriers, waterproofing and protection of underground concrete structures

Draft Standard (DTZS)

TANZANIA BUREAU OF STANDARDS

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1st Edition

Tanzania Bureau of Standards (TBS) is the statutory national standards body for Tanzania established under the Standards Act No. 3 of 1975, which was repealed and replaced by the Standards Act No. 2 of 2009.

The Building and Construction Divisional Standards Committee, under whose supervision this Tanzania Standards was prepared, consists of representatives from the following organizations:

*College of Engineering and Technology, University of Dar er Salaam

Tanzania Commission for Science and Technology (COSTECH)

Ministry of Works and Transportation (MoWT)

National Housing Corporation (NHC)

Contractors Registration Board (CRB)

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*National Estates and Designing Consultancy Company Ltd (NEDCO)

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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:

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0.National foreword

This Tanzania Standard is identical to **ISO/TS 18734:2026- Requirements and recommendations for elastic barriers, waterproofing and protection of underground concrete structures** published by the International Organization for Standardization (ISO).

Terminology and conventions

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

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

Wherever the words “International Standard” appear in this Tanzania Standard, they should be interpreted as “Tanzania Standard”.

Scope

This document intends to provide a guideline for barriers waterproofing and protection specific to the protection against leakage and contamination underground conditions for underground concrete structures.

This document addresses the following topics in the coming sections.

a) Ambient and environmental conditions of underground concrete structures

b) Types of barriers used for waterproofing and protection

c) Performance requirement for waterproofing and protection

d) Performance evaluation for waterproofing and protection

e) Selection procedure of optimal waterproofing and protection

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