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Interested committees:

Title: Draft BS ISO 13315-5 Environmental management for concrete and concrete structures. Part 5: Execution of concrete structures.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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Submission of Comments

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- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/DIS 13315-5

Environmental management for concrete and concrete structures —

Part 5: Execution of concrete structures

ICS: 91.080.40; 13.020.10; 91.100.30

ISO/TC 71/SC 8

Secretariat: JISC

Voting begins on:
2025-02-25

Voting terminates on:
2025-05-20

This document is circulated as received from the committee secretariat.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC71, Subcommittee SC 8, Environmental management for concrete and concrete structures.

A list of all parts in the ISO 13315 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Execution of a concrete structure refers to activities of constructing a relatively large-scale structure as single production at a given construction site. It essentially differs from the approach to mass production of products having similar functions and performances as in the industrial field. When executing a concrete structure, it is necessary to plan and execute each phase of construction work in consideration of the scale of execution, condition of the ground, procurement conditions for materials and equipment, ambient environment and global environment.

Execution of a concrete structure generally includes earthwork and foundation work, formwork, reinforcement work and concreting work.

Such construction works cause a wide variety of environmental impacts. These include, for instance, consumption of resources by the input of materials to execution of concrete structures; consumption of fuels and electric power by the transportation of materials, equipment and heavy machinery and operation of equipment and heavy machinery; and discharge of global warming substances and air-polluting substances while generating noise and vibration. Earthwork and foundation work generate solid waste including excavated soil, rock, dug-out roots, sludge and mud, dust and wastewater. Formwork generates used forms, and reinforcement work generates metal waste. Concreting work generates washwater for concrete pumps and buckets and concrete waste.

It is therefore necessary to appropriately manage the environmental impacts generated by execution of concrete structures.

Environmental management for concrete and concrete structures —

Part 5: Execution of concrete structures

1 Scope

This document provides the principles and procedures of environmental management for execution activities of concrete structures, which comprises earthwork/foundation work, formwork, reinforcement work, concreting work and waste treatment.

NOTE Additional works for concrete structures such as electric work and utility work are outside the scope of this standard.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 13315-1, *Environmental management for concrete and concrete structures — Part 1: General principles*

ISO 13315-2, *Environmental management for concrete and concrete structures — Part 2: System boundary and inventory data*

ISO 13315-4, *Environmental management for concrete and concrete structures — Part 4: Environmental design of concrete structures*

ISO 13315-6, *Environmental management for concrete and concrete structures — Part 6: Use of concrete structures*

ISO 13315-8, *Environmental management for concrete and concrete structures — Part 8: Environmental labels and declarations*

ISO 14040, *Environmental management — Life cycle assessment — Principles and framework*

ISO 14044, *Environmental management — Life cycle assessment — Requirements and guidelines*

ISO 14050, *Environmental management — Vocabulary*

ISO 22966, *Execution of concrete structures*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13315-1, ISO 13315-2, ISO 13315-4, ISO 13315-6, ISO 13315-8, ISO 14040, ISO 14044 and ISO 14050 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>