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|  | **STANDARDS ASSOCIATION OF ZIMBABWE** |

DRAFT FOR  **PUBLIC COMMENT**

LATEST DATE FOR RECEIPT OF COMMENTS: **2025-04-11**

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| Our ref: BC 048 – ZWS 1140  Draft Number: BC 048 – ZWS 1140  Date: **2025-02-17** |

TECHNICAL COMMITTEE: **BC 048 – CONCRETE, REINFORCED CONCRETE AND PRE-STRESSED CONCRETE**

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| DRAFT ZIMBABWE SPECIFICATION FOR  AGGREGATES FROM SYNTHETIC PLASTIC WASTES SOURCES FOR CONCRETE |

This draft is now available for **public comment**. Your views and technical comments on it would be appreciated. If you have no specific comments to make but find it generally acceptable it would be helpful if you would notify us accordingly. Suggestions entailing revisions of the text should indicate the preferred wording using the attached template. The relevant clause number should be quoted against any comment.

All comments should be sent to the Committee Secretary **Ms Ennie Pindura** at the address shown below.

Standards Association of Zimbabwe

P O Box 2259

Harare

E-mail: [epindura@saz.org.zw](mailto:epindura@saz.org.zw)

Website: [www.saz.org.zw](http://www.saz.org.zw)

THIS IS A DRAFT AND MUST NOT BE REGARDED OR USED AS A ZIMBABWE STANDARD.

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**Foreword**

This Zimbabwe Standard ZWS 1140:2025: Aggregates from synthetic plastic wastes sources for concrete. This standard was prepared by technical committee BC 048 – Concrete, Reinforced Concrete and Pre-stressed Concrete, under the general direction of the Building and Civil Engineering Council.

This standard makes reference to the following publications:

ASTM C 289 : Test method for potential reactivity of aggregates (Chemical method).

ISO 1920 : Testing of concrete

Part 8 : Determination of drying shrinkage of concrete for samples prepared in the field or in the laboratory

ZWS EN 12350 : Testing fresh concrete

Part 1 : Sampling

Part 2 : Slump-test

ZWS EN 12390 : Testing hardened concrete

Part 1 : Shape, dimensions and other requirements for specimens and moulds

Part 2 : Making and curing specimens for strength tests

Part 3 : Compressive strength of test specimens

Part 4 : Compressive strength - Specification for testing machines

Part 7 : Density of hardened concrete

EN 13893-4 : Determination of Water absorption

ISO 17785 : Testing methods for pervious concrete

Part 3 : Resistance of surface degradation

ZWS 185 : Methods of testing soils for civil engineering purposes.

Part 1 : Preparation, classification and density of soils.

ZWS 190 : Methods for sampling and testing of aggregates and fillers.

ZWS 233 : Aggregates from natural sources for concrete

ZIMBABWE STANDARD SPECIFICATION

FOR

AGGREGATES FROM SYNTHETIC PLASTIC

WASTE SOURCES FOR CONCRETE

# 1 **Scope**

This Zimbabwe Standard covers modified synthetic thermoplastic waste materials for use in the production of normal structural concrete. The materials may have been produced by washing, extrusion and related processes to ensure compliance with the requirements of this standard.

**Note**. The titles of the publications referred to in this standard are listed in the Foreword.