



## **STANDARDS ASSOCIATION OF ZIMBABWE**

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DRAFT ZIMBABWE STANDARD FOR  
INTERLOCKING STABILIZED SOIL BLOCK (ISSB)  
BUILDING SYSTEM

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 **Mr K Dzapasi** at the address shown below.

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

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## PREFACE

This Zimbabwe Standard Specification ZWS 1024:2017: Interlocking Stabilized Soil Block Building System, is based on the Agreement Certificate 96/237 of Agreement South Africa.

This Zimbabwe Standard was prepared by technical committee BC 006: Building Bricks & Blocks, under the general direction of the Building and Civil Engineering Standards Council.

This standard makes reference to the following publication:

SANS 824 : Lime for soil stabilization

SAN 50413 : Masonry cement

Part 1 : Composition, specifications and conformity criteria

SANS 1586 : Emulsion paints

SANS 10161 : The designs of foundations for Buildings

SANS 952 : Polyolefin film for Damp proofing & Waterproofing in Buildings

SANS 10218 :

Part 1 : Acoustical Properties of Buildings

ZWS 164 : The structural use of reinforced concrete in building

ZWS 166 : The structural use of precast concrete

ZWS 170 : Structural use of concrete

ZWS EN 197 : Cement

Part 1 : Composition, specifications and conformity criteria for cement

The Zimbabwe Model Building By-Laws, Model Building (amendment) by-Laws, 1980 (No.1), (Amendment) By-Laws, 1981 (No.2).

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ZIMBABWE STANDARD  
FOR  
INTERLOCKING STABILIZED SOIL BLOCK (ISSB) BUILDING SYSTEM,

1. SCOPE

This Zimbabwe standard contains guidelines on erecting built structures using the Interlocking Stabilized Soil Block Systems that shall:

- be manufactured and erected in accordance with the Public Works Ministry and Local Authority by the technology provider or licensee under the control of a professional engineer or approved competent person,
- be constructed in accordance with the technical description and the technology provider's detailed specifications and quality management manual, complying with the conditions outlined in this standard.

NOTE. Any person required to check on details of construction shall refer to the documentation listed in the Preface.

The Interlocking Stabilized Soil Block Systems is a combination of innovative and conventional construction. A change to any one aspect could result in one or more of the other aspects no longer complying with the requirements of this standard and/or the Model Building By-laws performance criteria.

2. DEFINITIONS

For the purposes of this Zimbabwe Standard, the following definitions shall apply:

- 2.1 Licensee. Any person or company appointed or trained by the technology holder and registered with relevant authorities.
- 2.2 Professional Engineer. A registered engineer who under the Model By-Laws is approved to sign off engineering drawings in terms of the Engineering Council Act Chapter 27:22.
- 2.3 Technology Provider. A manufacturer or Contractor or licensee who supplies and/or erects structures using the technology.
- 2.4 Soil Stabilization. The alteration of the physical properties of soil to increase its shear strength so as to improve its load bearing capacity.