



BSI Standards Publication

Recycled aggregates for concrete

National foreword

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The UK participation in its preparation was entrusted to Technical Committee B/517, Concrete.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Foreword

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This document was prepared by Technical Committee ISO/TC 71, *Concrete, reinforced concrete and prestressed concrete*, Subcommittee SC 3, *Concrete production and execution of concrete structures*.

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

The construction industry generates waste from various activities throughout the life cycle of buildings and civil engineering works. The wastes from the construction phase and the demolition phase, often called the construction and demolition waste, contain resources suitable for potential reuse in new construction. Concrete constitutes a major portion of construction and demolition waste in many countries. Landfilling of waste concrete is increasing in many countries and causes a shortage of available land area. It can also contaminate water and soil in the vicinity of the landfill site, usually due to alkalinity, and bring about social, economic, and environmental issues.

The waste concrete can be recycled in the form of aggregates for concrete after processing by crushing and sorting. This document primarily deals with the recycling of waste concrete in the form of recycled aggregates that can be used to produce concrete as a replacement for natural aggregates. This is the subject of growing interest due to increasing concrete construction and dwindling natural resources which are used as constituent materials to produce concrete. In some countries, the most abundant form of construction and demolition waste may not be the waste concrete, but other forms of waste such as demolished masonry units. This document sets the minimum requirements for the recycled aggregates made from waste concrete and others, used to produce concrete in a unified manner. [Figure 1](#) shows how to use this document with other ISO standards.

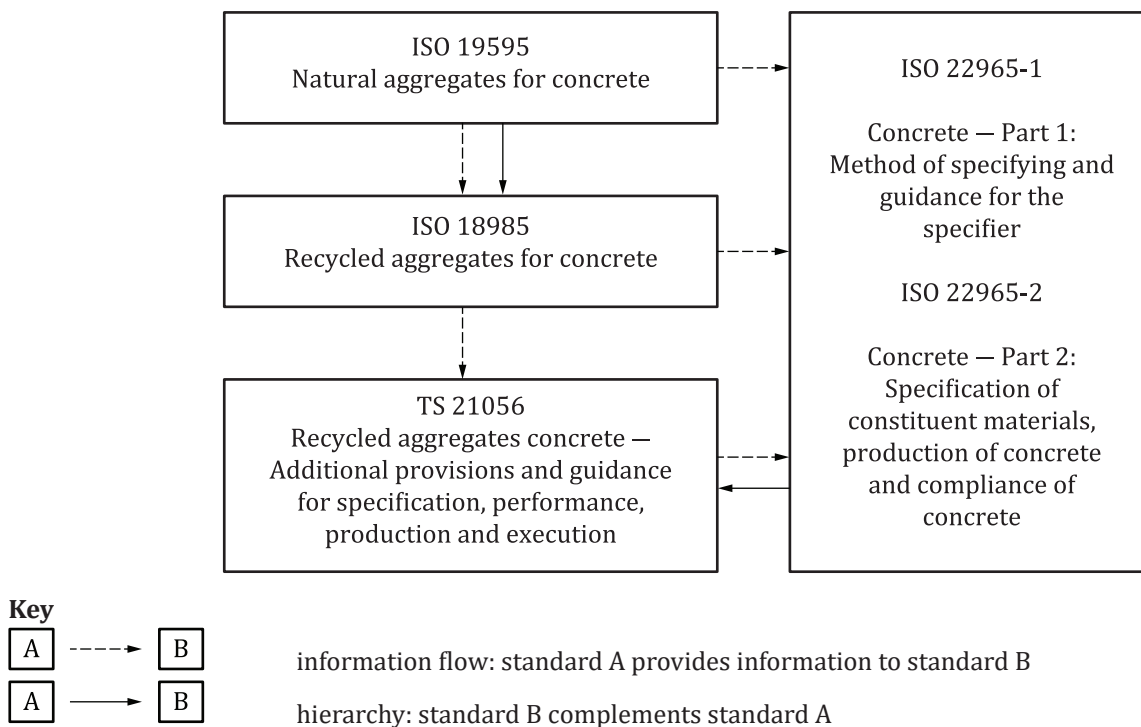


Figure 1 — Relationship of this document to other International Standards

