



BSI Standards Publication

**Light weight fill and thermal
insulation products for civil
engineering applications
(CEA) — Expanded clay
lightweight aggregate
products (LWA)**

National foreword

This British Standard is the UK implementation of EN 15732:2012.

The UK committee voted against the approval of EN 15732 due to duplication of content covered in BS EN 13055-2. Both standards cover the requirements for all types of lightweight aggregate, including expanded clay and for all loose-fill construction applications including civil engineering applications.

The user's attention is also drawn to several inconsistencies found by UK experts:

- Clause 4.3.2, the reference to EN 14063-1 for the method to determine the thermal conductivity of expanded clay lightweight aggregate is incorrect, however, users are advised to refer to EN 12664. There is also limited guidance given on how to obtain design thermal values from such measurement results.
- Clause 4.3.3, the direction to use EN ISO 10456 to determine specific heat capacity implies that the standard contains a test or calculation method whereas it only gives tabulated values of specific heat.
- Clause 4.3.8, contains test requirements for loading, which are at variance with those in Annex C to which it refers.
- Clause 4.3.10, contains test requirements for loading, which are at variance with those in Annex B to which it refers.
- Annex E, the table in Annex E gives $\lambda_{10,\text{dry}}$ values which are inappropriate for the application. Used below ground, the expanded clay is unlikely to be dry so the values given are too low to be used as design values and therefore, cannot be considered safe.

The UK participation in its preparation was entrusted to Technical Committee B/540, Energy performance of materials components and buildings.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments/corrigenda issued since publication

Date	Text affected
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