



**MIBAAA**  
MANUFACTURERS OF IBA  
AGGREGATES ASSOCIATION

# IBA AGGREGATE AND ITS USE IN COMPLIANCE WITH HIGHWAYS ENGLAND SHW SERIES 600



## Aggregate Products Standard

Aggregates product standards are produced by CEN (European Committee for Standardisation), are harmonised under Construction Products Regulations, and are mandatory on all EU member states.

The product standards establish minimum quality management procedures required for producing aggregates for use in construction. This is referred to as Factory Production Control.

The product standards also detail relevant aggregate testing methods, testing frequencies and how testing results are used to determine classes and categories applied to aggregate products.

In the UK these aggregate product standards and related guidance are published by BSI.

## BS EN 13242 Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction

This is the aggregate product standard to which the producers of IBAA (incinerator bottom ash aggregates) conform regarding their quality management systems and testing procedures.

The standard is for aggregates produced from natural, recycled and manufactured resources. The source term used in the standards for the material processed into IBAA is MIBA (Municipal incinerator bottom ash).

## Highways England Specification for Highway Works Series 600: Earthworks

This specification states the characteristics and performance parameters required of an aggregate for it to be suitable for specific applications. The specification also stipulates the aggregate product standard to which an aggregate must conform.

Table 6/1 of Series 600 lists 'Acceptable Earthworks Materials'. Products are tabulated into different classes relative to applications, listing the 'Permitted Constituents' for each class, and the 'Material Properties Required for Acceptability'.

Series 600 is an Earthworks specification and, as such, has classes that are for 'cohesive materials' as well as 'granular materials'. The specifications for 'granular' materials are aggregate based and have a permitted constituent material requirement of:

'Where material is imported onto site which is not 'as dug' it shall be aggregate conforming to BS EN 13242 from one or more of the following source codes'

The source codes listed for each class indicate those resources for producing aggregates that are acceptable for each application, subject to the aggregate complying with the material properties required for each class.

Table 6/7 details 'Material Sources and Source Codes for Imported Materials'. The source code for aggregates produced from Municipal incinerator bottom ash (MIBA) is B1. In the UK this aggregate is classified as IBAA.

The table 6/1 classes that permit the use of IBAA by listing B1 in permitted constituents are:

- Class 1A General Granular Fill: well graded granular fill
- Class 1B General Granular Fill: uniformly graded granular fill
- Class 6F4 Selected Granular Fill: Capping (fine grading)
- Class 6F5 Selected Granular Fill: Capping (coarse grading)
- Class 8 Misc. Fill: Lower trench fill

## Is IBA Aggregate compliant with SHW Series 600?

