



**Blue Phoenix
UK**

Building a sustainable future

We give ash a new life.



Our story

At Blue Phoenix UK we strongly believe there is no such thing as waste.

With our passionate team, we work globally to help energy-from-waste companies recycling the seemingly unrecyclable.

We are not alone on our mission and join forces where we can. We work closely together with plant operators, governmental policy makers and regulators, engineers and scientists.

Together we can contribute to a more sustainable world.

We are Blue Phoenix Group **building a sustainable future.**

Our Products

Blue Phoenix UK is the largest producer of Incinerator Bottom Ash Aggregates (IBAA) which has been used for over 20 years as a construction material. We offer extensive UK coverage for the supply of Specification for Highway Works and BS EN compliant Aggregates. Across the UK, in 2021, Blue Phoenix supplied over 1.2 million tonnes of sustainable construction aggregates from 11 operating facilities into a range of construction applications.

Unbound Aggregates

Type	Specification	Classification	Application
Type 1	SHW Clause 803	Subbase	Roads and Footpaths
Type 1 (Primary Blend)	SHW Clause 803	Subbase	Roads and Footpaths
Type 2	SHW Clause 804	Subbase	Roads and Footpaths
0/16	SROH	Subbase	Roads and Footpaths
Class 6F	SHW Series 600	Capping	Construction Platform
Class 1A	SHW Series 600	Fill Material	General Fill
0/10	SHW Series 500	Drainage	Pipe Bedding

Bound Aggregates

Type	Specification	Classification
0/10mm & 0/14mm	SHW Clause 822 & 823	CBGMs - Cement Bound Granular Mixtures
	SHW Clause 831 and 835	SBGMs - Slag Bound Granular Mixtures
	SHW Clause 947	Foamed Asphalt

Benefits & Sustainability

Improving the circularity of resources is at the core of the Group's business strategy. We believe that a circular economy is necessary to transition to a low-carbon, sustainable future. We process IBA from Energy-from-Waste (EfWs) to produce aggregates in urban located sites, preventing significant GHG emissions from resource extraction, production and transport.

IBAA Advantages

- 20% less material usage.*
- 20% less vehicle movements.*
- 250% less CO2 emissions.*
- Cementitious and mild pozzolanic performance benefits.
- Greater resource circularity and promotion of government recycling initiatives through resource extraction from waste streams that would otherwise have been disposed of.

* When compared against the use of primary aggregates

In Pictures

Compared to 10,000 tonnes of primary aggregate

51.7 tonnes of CO2 saved
against primary aggregates



50 homes annual energy
use from CO2 saved



100 20-tonne lorries
off the UK roads



2000 tonnes of primary
resources saved



NB: The information in the above section is only applicable to 100% IBAA supplies and doesn't take into account the Primary Blend.

Material Properties

IBAA is regularly and routinely tested to ensure that Blue Phoenix UK products meet the necessary requirements outlined with the Highways Agency Specification for Highway Works and relevant European standards (EN 13242, 13285, 13043, 12620 etc.).

Physical Properties

Requirement	Specification Reference	Typical Value	Requirements of SHW Clause 803 Type 1
Los Angeles test - Resistance to fragmentation	EN 1097-2 : 2010	39	<50
Micro-Deval test - Resistance to wear	EN 1097-1 : 2011	21	No Requirement
Magnesium Sulphate Soundness - Resistance to freezing and thawing	EN 1367-2 : 2009	18	<35
Frost Heave (mm)	BS812 : Part 124 : 2009	6	<15
Apparent Particle Density (Mg/m ³)	EN 1097-6 : 2000	2.55	No Requirement
Saturated Surface Dry Particle Density (Mg/m ³)	EN 1097-6 : 2000	2.30	No Requirement
Oven Dry Particle Density (Mg/m ³)	EN 1097-6 : 2000	2.15	No Requirement
Water Absorption (%)	EN 1097-6 : 2000	7.2	No Requirement
Optimum Moisture Content (%)	BS EN 13286-4 : 2003	16	No Requirement
Plastic Limit (%)	BS 1377 : Part 2 : 1990	Non-Plastic	Non-Plastic
Bulk Density Loose (Mg/m ³)	EN 1097-3 : 1998	1.24	No Requirement
Bulk Density Compacted (Mg/m ³) (Rodded)	EN 1097-3 : 1998	1.37	No Requirement
Volume Stability (%)	BS EN 1744 - 1 : 2009	0.3	<5

Chemical Properties

Requirement	Specification Reference	Typical Value	Requirements of SHW Clause 803 Type 1
Total Sulphur (% As S)	EN 1744-1 : 2009 + A1 :2012, Clause 11.2	0.53	<1
Sulphide Content (% As SO ₄)	EN 1744-1 : 2009 + A1 :2012, Clause 13	0.21	<0.5
Water Soluble Sulphate (mg/l, As SO ₄)	EN 1744-1 : 2009 + A1 : 2012, Clause 10.1	420	<0.5

Compliance & Accreditations

Blue Phoenix UK is accredited to the follow bsi;

- BS EN ISO 9001 - Quality Management System
- BS EN ISO 14001 - Environmental Management System
- BS ISO 45001 - Occupational Health & Safety Management System

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