

IBA Aggregates

Resources reborn

Our story At Blue Phoenix 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.

Our Products

Blue Phoenix in The 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 10 operating facilities into a range of construction applications.

Unbound aggregates

Type	Specifications	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	Specifications	Classification
0/10mm & 0/14mm	SHW Clause 822/823	CBGMs
0/10mm & 0/14mm	SHW Clause 831/835	SBGMs
0/10mm & 0/14mm	SHW Clause 947	Foamed Asphalt



Benefits and 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.

Sustainable building solution, that helps reducing Co2 emissions by 80%*

Preserving Natural Resources by replacing Primary Aggregates with a Low Carbon alternative

Local sourced materials, resulting in diverse environmental benefits

Cost-effective construction alternative solution*

Lower bulk density*: less tonnage needed per m3* equals less vehicle movements

Enhanced performance due to cementitious and mild pozzolanic properties

When compared to 10.000 tonnes of primary aggregates:

59

Tonnes of CO2 saved against primary aggregates

50

Homes annual energy (use from CO₂ saved)

2000

Tonnes of primary resources saved

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
Magnesium Sulphate Soundness - Resistance to freezing and thawing	EN 1367-2 : 2009	15	<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
Water Absorption (%)	EN 1097-6 : 2000	7.15	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
OMC (%)	EN 13286-4 : 2021	18	No Requirement
Vibrating Hammer maximum dry density (Mg/m ³)	EN 13286-4 : 2021	1.7	No Requirement

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	0.48	<1
Water Soluble Sulphate (mg/l, As SO ₄)	EN 1744-1 : 2009 + A1 : 2012, Clause 10.1	1100 mg/l	<1500mg/l

Compliance and Accreditations

Blue Phoenix UK is accredited through bsi for the following management systems:

- 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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