

A low-carbon aggregate built into real infrastructure

Preserving natural resources, one reborn tonne at a time.

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.

Product	Application
Reborn Aggregates MCHW CC 201 6F4	Roads and Footpaths
Reborn Aggregates MCHW CC 201 6F5 (Primary Blend)	Roads and Footpaths
Reborn Aggregates MCHW CC 201 Type 1 (Primary Blend)	Roads and Footpaths
Reborn Aggregates MCHW CC 201 Type 2 (Primary Blend)	Roads and Footpaths
Reborn Aggregates MCHW CC 601 6N	Backfill to Structures
Reborn Aggregates MCHW CC 601 Class 1A	General Fill
Reborn Aggregates 0-20 AGG EN 12620	Concrete products
Reborn Aggregates 0-20 AGG EN 13242	Sub-base



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

Reborn
Aggregates

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

*When compared against the use of primary aggregates.

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

Reborn Aggregates are 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

Contact Information

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Aggregates