

Reborn Aggregates built into real infrastructure

Preserving natural resources



Our profile

150+

Employees

1.4 Mt

IBA processed per year

10

Stationary processing sites

Reborn Aggregates

Every road you drive on has a story beneath it. Every platform, every foundation, every surface where people walk, drive and build is founded on something. What that something is matters.

We live in a world of finite resources. So we have a responsibility to give new life to the resources we use. Blue Phoenix was founded on that exact premise. When a contractor, developer or local authority chooses **Reborn Aggregates** over an untouched resource, they're deliberately choosing a different way to build.

The road bears the same weight, the sub-base performs just as reliably, the construction platform holds firm beneath the surface. What changes is the story underneath: construction that doesn't extract but brings back materials already used.

In this way, every project becomes an act of renewal. Every tonne of **Reborn Aggregates** shows we can build without taking more from the ground.

Preserving natural resources

Why choose Reborn Aggregates

Every year, the UK quarries around 164 million tonnes of primary aggregates⁽¹⁾, virgin rock, sand and gravel taken from quarries and dredged from the seabed, to build roads and infrastructure. Today, only 31%⁽¹⁾ of the UK's aggregate supply comes from recycled or secondary sources. Globally, demand for aggregate is projected to nearly double by 2060 if current extraction patterns continue⁽²⁾.

Reborn Aggregates exist to shift that balance. Every tonne of IBA Aggregate (IBAA) we produce replaces around 1.3⁽³⁾ tonnes of primary aggregate. In practice, that is 1.6 million tonnes of primary aggregate not extracted last year. Our 10 stationary UK sites produced around 1.2 million tonnes of IBAA in 2025, avoiding the extraction of 1.63 million tonnes of primary aggregates, based on relative material density (2.4 t/m³ primary vs 1.7 t/m³ IBAA).

In addition, **Reborn Aggregates** from IBA is an extremely cost-effective material compared to primary aggregates and is regularly tested to ensure our products meet the requirements outlined in the Specification for Highway Works (SHW) and relevant European standards (EN 13242, 13285, 13043 and 12620). We have supplied **Reborn Aggregates** from IBA to more than a thousand road construction and infrastructure projects across the UK.

Sources:

⁽¹⁾ MPA, 2023, https://mineralproducts.org/MPA/media/root/Publications/2025/Construction_Aggregates_Supply_in_GB_2023.pdf

⁽²⁾ OECD, 2019, https://www.oecd.org/en/publications/global-material-resources-outlook-to-2060_9789264307452-en.html

⁽³⁾ MIBAA, 2026, <https://mibaaa.org.uk/faqs/>

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 13242	Sub-base



Features and benefits

Aggregates that have been shown to reduce CO ₂ emissions by 80%*	Preserving natural resources by replacing primary aggregates with a lower carbon alternative	Lower bulk density*: less tonnage needed per cubic metre equals less vehicle movements	Cost-effective construction alternative solution*
Enhanced performance due to cementitious and mild pozzolanic properties	Locally sourced materials		

*When compared against the use of primary aggregates.

Key savings of Reborn Aggregates vs. primary aggregates

Case study: A1331 Elmstead Market Bypass

For National Highways' A1331 Elmstead Market Bypass, main contractor Octavius Infrastructure specified Reborn Aggregates' Type 1 IBAA in place of primary aggregate for the road sub-base, sourced from the Tilbury Depot, Essex. The material was fully compliant with National Highways specifications and matched primary aggregate performance on CBR and compaction testing.

Criteria	Reborn Aggregates	Primary aggregates
Compacted density	1.7 MG/m ³	2.2 MG/m ³
Tonnage required	43,500 t	52,200 t
Truck journeys required	2290	2748
Total CO ₂ generated	214,501 kg (4.03 kg/t)	372,729 kg (7.14 kg/t)
Material cost	Most-effective vs quarried	Higher unit cost per tonne

Key savings vs primary	158,228 kg CO ₂ saved (3.56 kg/t)	52,200 t primary resources saved
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Assumptions: Distance from Primary Quarry (Ipswich Dock Depot, Brett Aggregates) to site is 22 miles
Trucks are assumed to be 100% Laden and only counted one way. Average MPG for Rigid Trucks is 8.2.
IBAA 0.29 kg CO₂/t is specific to the activities & processes at the Tilbury Depot.



Typical applications of Reborn Aggregates



Roads



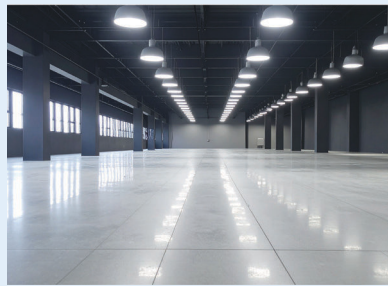
Car parks



Footpaths



Retaining wall foundations



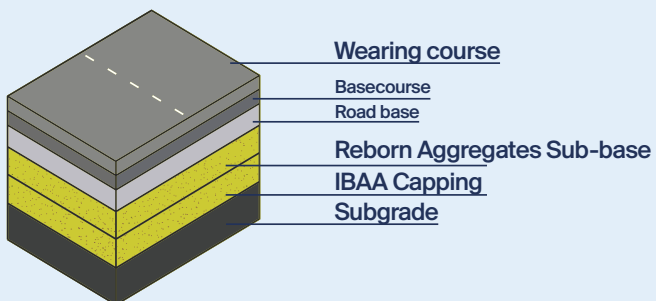
Industrial building platform



Underneath slabs for warehouse

Reborn Aggregates as a sub-base in road construction

Roads base



Contact information

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