

FORTISTONE
Sustainable Aggregate



FORTISTONE® IBA AGGREGATE

**SUSTAINABLE
AGGREGATE**

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Fortis generates hundreds of thousands of tonnes of sustainable manufactured aggregate for the construction industry each year from the UK's energy from waste process, preserving our natural resources.

Removing the need to quarry natural resources from further afield, Fortistone® products are readily available and can save significant amounts of CO² for construction projects.

INTRODUCTION

Fortistone® IBA Aggregate has a key part to play in providing the building blocks for highways and construction projects as well as being part of the solution for our country's waste. It deserves to be recognised as one of the most sustainable and essential resources.

400,000

**TONNES OF NATURAL
AGGREGATES
PRESERVED PER YEAR**

275,000,000

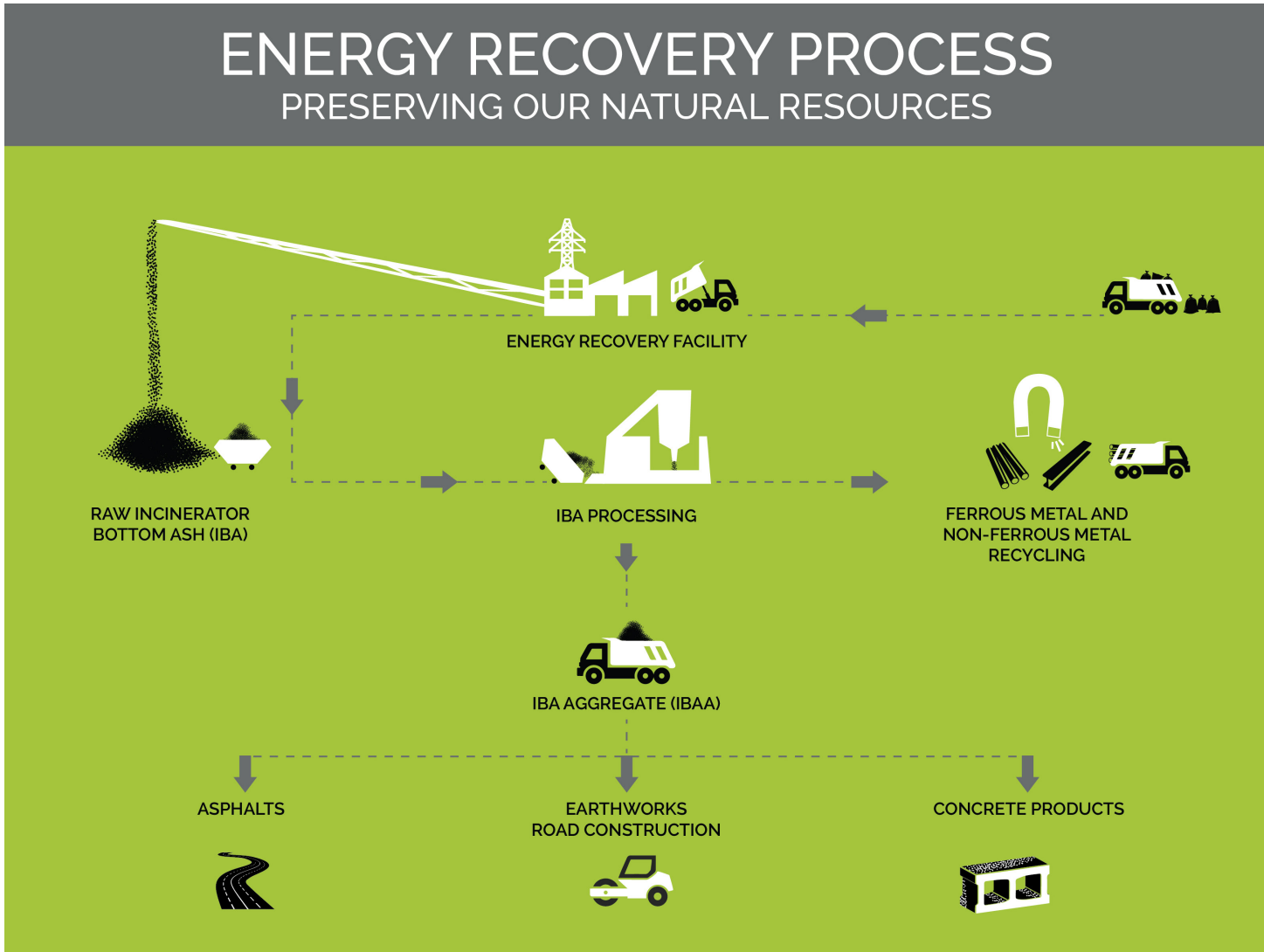
**BLACK BIN BAGS
SAVED FROM
LANDFILL PER YEAR**

In a world that is increasingly focused on low carbon and sustainable products, Fortistone® IBA Aggregate is a unique aggregate in that it offers both while ensuring that we preserve our natural resources and all the time at an attractive price.

IBA Aggregate is a manufactured aggregate created by processing residues from the thermal treatment of household and commercial waste that would have otherwise gone to landfill.

Waste-to-energy plants divert household rubbish away from landfills with each plant typically creating enough electricity to power 60,000 homes each year. Rather than going to landfill, the ash produced from this process is recovered and transported to one of our facilities for recycling.

The transformation of black bag waste into electricity and construction aggregate is one of the most impressive examples of sustainability and recycling.



Fortis IBA Ltd recovers ferrous and non-ferrous metals from the IBA which are reused worldwide to relieve the burden on mass extraction of low yielding virgin metal ores such as copper.

Fortistone® IBA Aggregate is then distributed for use as an alternative to primary or quarried aggregate in the construction industry. It is an alternative low-carbon construction material that can make a significant contribution to our collective sustainability goals.

The provision of this sustainable manufactured IBA Aggregate from the waste-to-energy process reduces the requirement for remotely sourced primary aggregate and avoids the import of aggregate from further afield.

The country is facing a limited availability of primary aggregates and the use of alternative sustainable construction materials such as IBA Aggregate are now becoming essential to the future of construction.

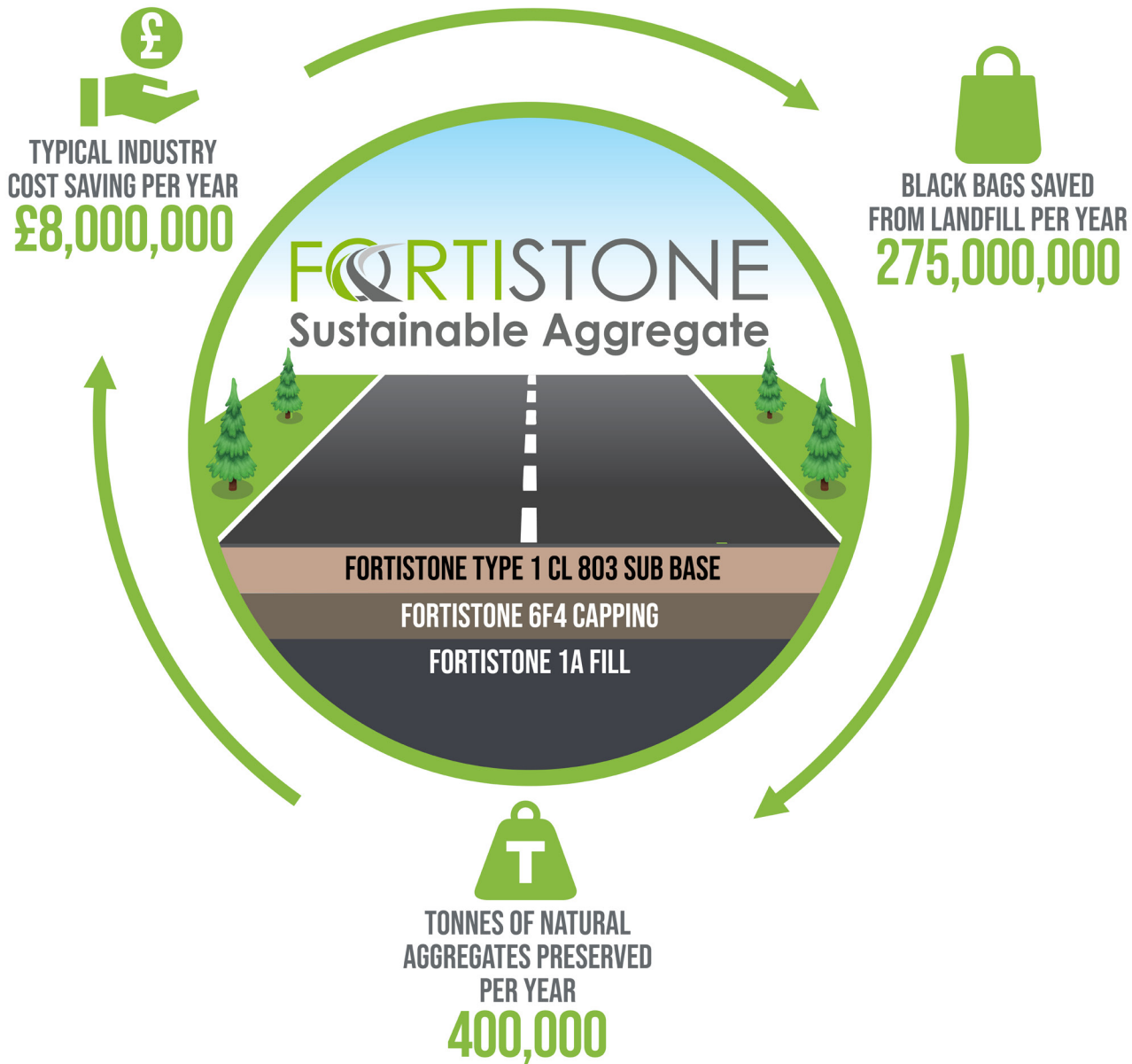
FORTISTONE BENEFITS



FORTISTONE® BENEFITS

- › Significantly more cost effective than primary aggregates and avoids the increasing levels of associated aggregate tax.
- › One of the most sustainable construction aggregates available, potentially offering substantial CO² savings for construction projects.
- › Manufactured to withstand a diverse range of site conditions.
- › Fortistone Type 1 offers typical average CBR's of between 60% and 70%.
- › Environmental benefits of being locally sourced.
- › Beneficial bulk density, resulting in less tonnage needed per m³ versus primary aggregates and fewer delivery vehicle movements to site.
- › Diverting the equivalent of 750 municipal bin bags from going to landfill for every tonne of Fortistone® used.
- › Preserves the Earth's natural resources, avoiding the import of carbon intensive aggregate from further afield.

Fortistone® IBA Aggregate fully complies with the Specification for Highways Works 600 and 800 Series.



ENVIRONMENTAL

Fortis has a clear duty of care focus to ensure that every tonne of **Fortistone**[®] is sold responsibly and in accordance with prevailing legislation.

The business has its own in-house Hydrogeology Department and all sites where Fortistone[®] IBA Aggregate has been sold have been comprehensively risk assessed.





Our Hydrogeological and Environmental Team

support our commercial partners and each contractor on a project by project basis, undertaking detailed environmental assessments for every construction project submitted for Fortistone® IBA Aggregate supply.

These assessments consider various factors such as the geology of the site, water table, designations by the Environment Agency (flood risk/water quality) and gives the contractor guidance on how and where the Fortistone® should be used. Fortis can therefore provide assurance that every tonne of processed Fortistone® IBA Aggregate is used in the most responsible manner to create a safe and sustainable infrastructure.

TYPICAL DEVELOPMENTS

EARTHWORKS
ROAD CONSTRUCTION

CONCRETE PRODUCTS

AGRICULTURAL &
RECREATIONAL

PORTS & DOCKS

BRIDGES

PAVEMENTS &
ROUNDABOUTS

Fortistone® IBA Aggregate plays an important and expanding role in providing sustainable, low carbon and low cost aggregates to help us meet our climate change targets, whilst preserving the world's natural resources.

RETAIL PARKS

INDUSTRIAL UNITS

CAR PARKS &
RAILWAY STATIONS

RESIDENTIAL
DEVELOPMENTS

CONCRETE SLABS

ROADS, FOOTPATHS,
HIGHWAYS



HBM'S

Fortis IBA Ltd has seen considerable investment in the last decade and we have specialist teams and departments who are dedicated to operational and technical excellence.

We can provide expert advice, site surveys, aggregate samples, case studies, company training or site visits. If you would like to request any of these, please do not hesitate to contact us.

> **SITE VISITS AND CONTINUAL PROFESSIONAL DEVELOPMENT (CPD) DAYS**

Fortis offer free CPD events, providing either online or in person presentations and site tours of our processing facilities, focusing in particular on the increased use of IBA Aggregate across our local infrastructure projects to create sustainable construction and the evolving technologies within the industry.

> **TRAINING**

Fortis offer companies and sites training on the use of Fortistone® IBA Aggregate, to ensure it is utilised effectively and its performance is optimised.

> **AGGREGATE SAMPLES**

We provide samples of Fortistone® IBA Aggregate and we can undertake trials to ensure you are happy.

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