Case Study

ecoblendca

Gilbert Close Social Housing

Kent

300 T
of material supplied

266 T
of IBA repurposed

33.25%
material cost savings*

Overview

Gilbert Close is the final phase of Dartford Council's new build programme for the construction of homes to replace disused garages and a former council depot in Swanscombe, Kent. This project provides 16 new rental homes to meet local lettings plans as part of the Council's core sustainable development objectives.

ecoblendca
conditioned aggregate

Scope of the work

After facing significant delays and increased costs due to archaeological surveys, the Gilbert Close development required a cost-effective, high-performing sub-base for the connecting unadoptable roads that would also mitigate any further delays.

Material Requirements

Ecoblend® CA Type 1 was selected as the unadoptable road sub-base. 300 tonnes were laid on a clay formation with capping, finished with a block paving surface.

Ecoblend CA was selected for its:

- Laying performance in adverse conditions
- Superior product quality
- Material cost savings

Environmental & Economical Benefits

Circular Economy

266 tonnes of IBA repurposed into IBAA

Sustainability

Over 300 tonnes of critical natural material saved

Material Efficiency

Over 60 tonnes less material required*

Transport Efficiency

Material savings eliminated 8 additional lorry movements

Outcome

This case study demonstrates how a relatively small project of just 300 tonnes can make a significant environmental impact, utilising 266 tonnes of IBA from Energy from Waste facilities. The full certified Ecoblend CA Type 1 delivered key material efficiency, and as an 80% sustainable aggregate, it reduced the use of primary material, preserving critical natural material.

Ecoblend CA optimised laying performance in adverse conditions, with the site team commenting on the excpetional nature of its quality and consistency. The Site Manager stated, "The mateiral is as good as, if not better than, Primary Type 1", and added "I thought the material was cement bound as it locked together so well and gave such a fine finished surface."

*Compared to a natural quarried material made to the same specification.