

Environmental Permitting (England & Wales) Regulations 2016

Application for a Permit part B from Sandwell Council

Supporting Document DAB2Installation

The process involves the production of asphalt materials using aggregates and bitumen.

Single sized aggregate is delivered to the depot in sheeted HGV vehicles and is tipped in designated storage bays. Materials with a nominal size of under 5mm will be stored in covered bays. Bitumen is delivered to site in road tankers. This material is delivered and stored on site at a temperature of c190C. The material is pumped from the tanker into sealed insulated storage tanks.

The aggregate is fed into specified covered hoppers by a rubber tyred front wheeled loader. From these hoppers the material is fed via a rubber belted conveyor to a rotary dryer where it is heated by a gas oil burner to a temperature of between 150C & 190C.

This material is then screened into specific sizes and measured into a recipe batch of 2 tonnes. Bitumen is then added to this batch and the latter is thoroughly mixer in a paddle mixer. Some reclaimed filler dust collected from the extraction system may be added at this point. Each batch is then stored in insulated silos awaiting either collection or delivery to an external site.

All exhaust gases and any fine particles from the drying and production process are drawn through a dry cloth bag filter extraction system. Clean emissions are exhausted via a high level stack and fine elements are collected in a silo for reuse in the asphalt batch product. The stack includes a continuous particulate monitor.

The dryer is fuelled by gas oil. The latter is stored on site in a double skinned tank.

Emissions from the delivery of aggregate are minimal and controlled by a water dust suppression system.

Emissions from the storage of aggregate are minimal and also controlled by a water dust suppression system. Materials with a nominal size of under 5mm will be stored in covered bays.

All conveyors and transfer points are covered to avoid emissions.

Extraction for the drying, screening and mixing process is all via the dry cloth bag filter. Emissions via the high level stack will be measured by a continuous particulate monitor.

Vehicle routes will be subject to water dust suppression to ensure any emissions are minimal.