

## Reducing waste volumes prior to disposal to landfill

The purpose of this new facility was to ensure that all waste arriving at site was treated in some way prior to going to landfill, to reduce its volume.



The Beddington Dano composting facility is a purpose-built waste reception and processing plant in south London completed for Viridor in 2006.

The design and build scheme comprised a 2,000 square metre waste reception building with insulated cladding, mechanical ventilation and electrical works.

The waste is loaded into a 30 cubic metre hopper which pushes the material onto a series of conveyors leading to a Dano Drum. The waste is pushed into the drum by the internal tangs and ribs whilst water is added at 1 litre/second. At the exit point of the drum the material is dropped onto a rotating screen and sieved into various categories.

The material passing the 45mm screen is deemed as being compostable and is moved by dump truck to stage one reinforced concrete tunnels where the material is heated by means of blower pipes built into the floor supplied by fans mounted on the roof.

The material stays in these tunnels for one week, being constantly monitored by means of roof probes. After the first week it is moved to the second stage reinforced concrete tunnel to be turned and treated in a similar fashion.

On completion the materials, which are vastly reduced in volume, are taken to landfill.

The Dano drum was installed by the client after completion of the concrete footings with the structural steel work being completed around the drum.

The input and extract conveyors were installed on completion of the structural steel but before installation of the cladding.

The scheme was part-designed by the client and completed by us including all electrical and mechanical works, to fit with the client's design and performance specification.



Client:  
Viridor Waste Management Ltd

Duration:  
48 weeks