Exeter EfW

Grouting to Steel Stanchions and Plant Bases

Project: Exeter EfW

Client: Grouting to Steel Stanchions and Plant Bases

Main Contractor: Chilworth Construction Management

Date: December 2013 & May 2014

The Problem

Exeter EfW is an Energy from Waste (EfW) plant. The Combined Heat and Power (CHP)
facility will use energy stored in non– recyclable waste to produce heat and electricity.
THE Steel Stanchions and plant bases at this facility had voids around and underneath them which had to be filled.
There were a variety of sizes and shapes which required filling with something that would be strong and non – shrinking.

The Solution

The voids were cleared of any dust, debris or any other contaminants. After constructing temporary box shutter with 25mmx25mm Arris rail to give a chamfered edge finish, the Arris to grouted was pre soaked with water before one of the following procedures were carried out:

1. Gravity pour the mixed grout into one or more open sides of the shuttering created during the building of the temporary shuttering.
2. Gravity pour through a hopper (letterbox) into the shuttering again created during the building of the temporary shuttering.
3. Where gaps are small (up to 250mm x 250mm) use hand held injection gun filled with grout to pump grout into the void via a drilled hole in the shuttering.
4. For the larger baseplates a conventional diaphragm pump will be used to ensure adequate volumes are correctly injected.

After allowing curing, return and remove the temporary shuttering and make good any minor edge details.

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Case Study