



## HANSON, PADESWOOD. MILL FOUNDATION

### DELIVERY TEAM

Hollingsworth Bros  
UK Ltd

### CLIENT

HANSON UK

### VALUE

£1.6m

### CONSULTANTS

BAKKEN Civil Design Consultant

## DETAILS

Hollingsworth Bros were appointed by Hanson UK in late 2017 to construct a piled Mill Foundation. The main aim of the project was to increase the production of cement by constructing a new Mill at Hanson's Padeswood site, with the ultimate goal of reinstating a pre-existing rail link to take product off site directly and avoiding wagon movements.

### Construction Specification/Details

The project consisted of a reduced dig up to 5m in depth, taking out 8000m<sup>3</sup> of spoil and building up levels with 6000m<sup>3</sup> of imported stone a piled (CFA) foundation to the Mill area, the piles were driven to a depth of 18m.

The remainder of the foundation consisted of a 1.5m thick reinforced concrete slab, column's and soffit to form a plant building on top of the slab and a 4m thick mass fill reinforced Fan Foundation. The largest single day pour was just over 1000m<sup>3</sup>. In total over 200t of reinforcement was fixed and placed. We installed an earthing system to the foundation in partnership with BEST (specialist earthing Contractor).

All of the works had to be carried out in line with strict planning consents ensuring that the local residence were not affected adversely from the activities being undertaken.





### PROJECT CHALLENGES

The programme for completing the works was challenging from the start, we had just over 16 weeks to complete the works and hand over to the Mill erection Contractor, added to this challenge was the fact that the works ran through the winter months. In total Hollingsworth Bros lost over two weeks due to freezing conditions and laying snow however we still managed to maintain the critical path and works were completed and handed over on time.

The design for the project was undertaken by BAKKEN who are a Spanish design consultancy. Initially we had some difficulty understanding the way the design had been drawn however our engineers working closely with the Client engineer overcame this and formed an excellent working relationship ensuring that the programme was realized and ultimately the Client was happy.

### CLIENT SATISFACTION

Since completing the project Hollingsworth Bros have been awarded a further £1m worth of work highlighting that the client trusts Hollingsworth Bros to undertake and perform on challenging projects.

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