METCALFE PLANT HIRE LTD

Millness Salt Barn Extension

The cladding was removed by hand using a MEWP, before the end of the retaining wall was carefully demolished ready for the extension.

The retaining wall was extended using cast in-situ concrete. The wall was over 3m high, 1m wide at the bottom and 300mm at the top.

The new walls and polished concrete floor, with the Glulam beams visible.

A side view of the Glulam work. Cladding was finally added to match the existing structure.

Client: Enterprise Mouchel	Value: £140,000
Location: Milness, nr. Kendal	Duration: 8 Weeks

Project information

The aim of this project was to extend the salt barn at Millness Highways Depot. Because of the nature of salt storage, the barn was constructed using Glue Laminated beams to cover the wide span.

The initial works to remove the cladding demolish the end retaining wall went very smoothly and allowed plenty of time to prepare for the frame. This included extending the large retaining wall using in-situ concrete, and laying a polished concrete floor. The wall was formed using a modular shuttering system which was calculated to take the heavy weight of the large concrete pour. Steel reinforcement cages were constructed in position before the shuttering was erected.

The concreted plinths and bolt boxes for holding the main beams of the frame needed to be set accurately so that it could be erected without delay when it arrived on site.

The frame was a contractor designed element, with a requirement to match the existing building as closely as possible. MPH employed Glulam Solutions to design, manufacture and install the frame, based on our surveys. The cladding was installed by Border Steelwork, and Lawson Haulage were employed for lifting operations. This required some careful planning to ensure operations by MPH and subcontractors did not interfere with each other.