

ENGINEERING THAT WORKS FOR YOU

Development & Infrastructure- Bertschi Warehouse

Contract	Value	Location
36 Weeks	£3.5m	Middlesbrough

Client

Bertschi UK Ltd

Middlesbrough Road
East
South Bank
Middlesbrough
TS6 6TZ

Engineer:

Halcrow Group Ltd

Dunedin House, Riverside
Teesdale Business Park
Stockton-on-Tees
TS17 6BJ



Project Description:

The works comprised the construction of an 18,500m² single storey (7m to eaves) steel portal frame warehouse together with a 12,800m² concrete laydown area constructed using fibre reinforced concrete along with associated drainage and landscaping. The existing ground level was reduced to our formation level. The formation level was then compacted using a 72t roller.

Our sub-contractor, Kellers installed the stone compacted piles. Each pile location was marked out, drilled and stone-vibro compacted.

When the piling was complete, a plate test was carried out on a number of piles across the site area. At each column location there is a foundation pad. The foundation consists of a mesh cage inside of mass concrete.

Erection of the Warehouse and fall arrest system was carried out by Hares of Snape Ltd. On completion of the warehouse roof the stone formation level was completed and compacted prior to Stuarts Flooring carrying out their works on the floor slabs

The internal floor slab was laid by traditional methods using mesh reinforcement. The flooring was completed with a polished finish as per client's requests. The external concrete was laid at 260mm thickness with steel fibre reinforcement placed into the mixer truck prior to discharging the concrete.

There were various sizes of pipes and manholes for the scheme. They varied from 525mm diameter concrete to 150mm diameter plastic. The ACO drainage used is the Q max system specifically designed for airport loadings. In the north east corner of the yard we constructed a weighbridge pit (for an Avery weighbridge) with the capability of placing the tilting table on the external wall of the weighbridge.

Once all of the warehouse and external slab had been concreted, we constructed a road around the side's and rear perimeter of the warehouse. Armco barriers have been placed outside of the warehouse on "hazardous" areas, for example:-

- External corners of the warehouse
- Turning areas near to the French drain.
- Access on and off the surface mounted weighbridge.

