

Warburtons Bakery, Wakefield

Challenge

Warburtons is the UK's largest independent baking business with 13 bakeries and 11 depots stretching across the country. Marshalls secured the contract to design, manufacture and supply drainage solutions to Warburtons' new £60m industrial 'super bakery' on a 1.2 hectare site in Tuscany Park, Wakefield.

The challenge for Marshalls' expert water management team was to provide solutions to counteract the amount of surface water that would be an allowable discharge from such a large area. Originally the attenuation was to be contained in a large number of Decathlon System 600 Channels but this was not feasible due to underground services and the depth of the channels.

Solution

Marshalls' water management team worked closely with Consulting Engineers, Bunyan Meyer and contractor Wymans to create a Decathlon design and model that would both minimise the costs for below ground drainage and still provide the required attenuation.

Marshalls supplied over 860 linear metres of Decathlon 150 base channels, 92 linear metres of 250 base channels together with Heelguard and kerb lids. Two large tanks were used to store surface water in the system at the same time as removing a large number of below surface pipes which resulted in considerable cost savings.

The flexibility of Marshalls' Decathlon drainage system meant that various lid types were used for specific areas which required alternative solutions, such as the Heelguard top unit which offers safe passage to people with high heeled shoes, providing a cohesive and practical solution to the problem.

The advantage of being able to lay to minimum gradients whilst maintaining self cleansing properties meant that the over dig required was not intrusive to other services, and the amount of material that the contractor had to remove or re-locate was minimised.



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Marshalls

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Tony Simpson of Bunyan Meyer Consulting Engineers commented:

"Decathlon was chosen and specified not only because of the loading capacity, but also for the flow and attenuation capacities which allowed the below ground drainage to be minimised over an extremely large area showing considerable cost savings.

Another good reason for using Decathlon was the ability to provide specific lid types for different sections of the project such as Heelguard for the car parks and in situ for the loading bays and HGV areas. We would certainly look to specifying and using Decathlon again on any similar contracts."

Benefits

Marshalls' Decathlon drainage system has proved to be a cost effective and efficient solution to meet the needs of water management on site whilst remaining aesthetically pleasing for the client. By providing in-house design solutions, the Marshalls team have been able to utilise the flexibility of the Decathlon system to suit a variety of applications.

The success of using this tried and tested Decathlon system on site has led to the solution being specified on future Warburton projects.



Decathlon with Heelguard at Warburtons

Client:

Warburtons

Consulting Engineer:

Bunyan Meyer, Nottingham

Principal Contractors:

Wymans

Marshalls Product Used:

Decathlon 150 Base Channel
Decathlon Heelguard Top Unit
Insitu-Lids & End Caps
Manhole Cover & Frame

Specialists Involved:



Decathlon with Kerb Top Unit