

INNOVATION

SURFACE WATER DRAINAGE NEWS

NORTH EAST
ENGLAND
EDITION



TEESPORT CONTAINER TERMINAL 2

- RECYFIX® HICAP® slot drainage system with ductile iron traffic slotted inlets
- Channels made from tough recycled polyethylene-polypropylene (PE-PP)
- Highly resistant to site damage during installation



The Teesport Container Terminal 2 expansion phase 1, increases the port's capacity to 450,000 TEU (Twenty Foot Equivalent Unit), from its current 235,000 TEU - an investment of more than £15million.



RECYFIX® HICAP®
High Capacity
drainage channel

County Durham based Hall Construction Services Ltd successfully won the design & build tender to carry out the civil engineering works at the Container Terminal. The Terminal's concreted area is over six hectares so effective surface water drainage was a major consideration to ensure efficient all-weather operation. Designed to resist the rigours of site work, two sizes of Hauraton channel were installed. 44 metres of RECYFIX® HICAP® 200 and 840 metres of HICAP® 680 installed in two runs. Each one metre unit was easily manipulated into position on site and no channel breakages were reported during the installation process. To further reduce installation times, end-of-run caps and pipe connection sockets were also supplied with other connection points moulded into the sides and bottom of each channel.

Factory fitted with 14mm slotted ductile iron inlets, the channels comply with a loading class of F900 so can easily take the weight of a lifting truck with a fully laden container. Importantly, once installed the complete system is highly resilient to the twisting forces imposed by the wheeled vehicles employed. For Case Study go to www.hauraton.co.uk

WELCOME TO INNOVATION - NORTH EAST SURFACE WATER DRAINAGE NEWS



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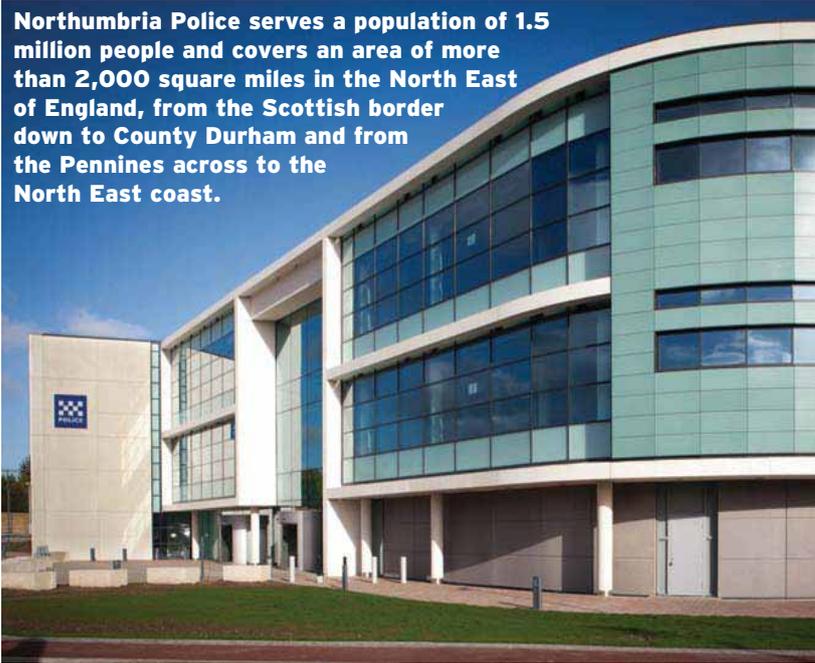
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IT'S RUNNING WELL

NORTHUMBRIA POLICE AUTHORITY HQ

- **FASERFIX® SUPER KS 100** channels made from tough fibre reinforced concrete
- **Ductile iron HEELSAFE** gratings with 6mm slots, loading Class C250 - access road
- **Stainless steel longitudinal slot grating**, loading Class A15 - façade drainage

Northumbria Police serves a population of 1.5 million people and covers an area of more than 2,000 square miles in the North East of England, from the Scottish border down to County Durham and from the Pennines across to the North East coast.



◀ **FASERFIX® SUPER KS 100** with stainless steel gratings



▲ **FASERFIX® SUPER KS 100** with ductile iron gratings

The £27 million Northumbria Police area command headquarters in North Tyneside was officially opened and became fully operational in early November 2011.

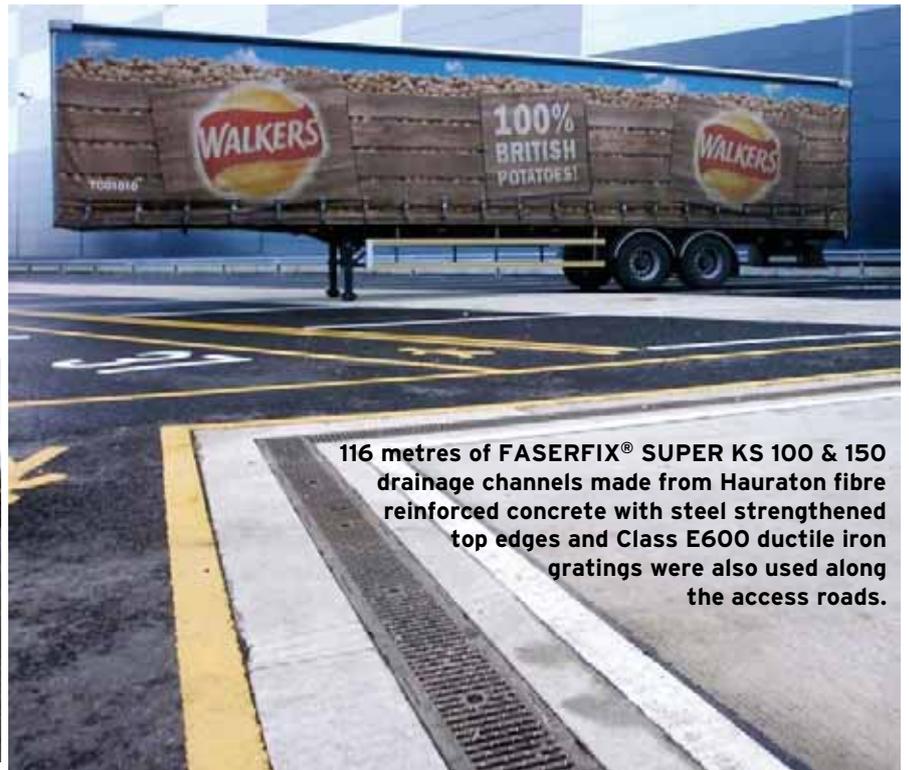
The building, located in Wallsend includes a 40 cells custody suite and is a base for up to 300 North Tyneside police officers and support staff. This is the first new police station to be built by Northumbria Police Authority for Northumbria Police in 10 years.

WALKER SNACK FOODS DISTRIBUTION CENTRE

- **RECIFIX® HICAP® & FASERFIX® SUPER KS** used to drain hard standing

An investment £9.3 million by PepsiCo in a high-bay warehouse and distribution centre has tripled the size of the company's storage facility on Stephenson Road, North East Industrial Estate in Peterlee, Co Durham. The new facility houses two of the company's leading UK brands, Quaker Oats and Walkers Crisps. The introduction of HGV double-decker, extra long lorries and the location of the development in relation to the company's production units has allowed a reduction in delivery fleet distances by approximately 600,000 km per year.

114 metres of Hauraton RECYFIX® HICAP® 100, 150 and 200 drainage channels, made from 100% recycled PE-PP, were installed in the HGV hard standing bays around the warehouse. Factory fitted with 14mm slotted ductile iron inlets, the channels comply with a loading Class of F900 so can easily take the weight of a fully laden lorry. Once fully installed the HICAP® system is highly resilient to the twisting forces imposed by the HGV comings and goings. Hauraton also supplied four access points and two gullies for the drainage system.



116 metres of **FASERFIX® SUPER KS 100 & 150** drainage channels made from Hauraton fibre reinforced concrete with steel strengthened top edges and Class E600 ductile iron gratings were also used along the access roads.

MIDDLEHAVEN

- RECYFIX® SLOTTED CHANNELS nominal width 100 and 150
- Channel component made from 100% recycled PE-PP
- Featuring galvanised steel slotted inlet to loading Class C250



Greater Middlehaven sits between Middlesbrough town centre, the A66 and the River Tees. The decline in the town's heavy industry has left large areas of Greater Middlehaven vacant. The redevelopment of Middlehaven is a partnership between Middlesbrough Council, Tees Valley Unlimited, the Homes and Communities Agency and One North East.



Some 300 metres of Hauraton RECYFIX® SLOTTED 100 and 150 channels were installed to drain the paved Clock Tower area at the Middlehaven regeneration scheme.

The channels were specified by Martin Stockley Associates because

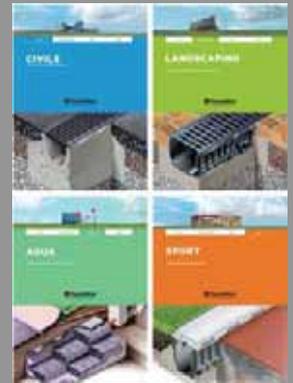
of their discrete appearance once installed, their high drainage capacity and that the channel component was made for 100% recycled PE-PP. Hauraton have also supplied RECYFIX® SUPER KS into the Middlehaven main car park, some 300 metres of FASERFIX® SUPER KS 100 at the Middlesbrough Sixth Form Centre and over 400 metres of RECYFIX® HICAP® channels were also installed along the gateway leading to the University.



SPECIFICATION LITERATURE

To speed selection of our products, the information has been divided into four easy to use catalogues. CIVILS - featuring drainage products applicable to civil engineering. LANDSCAPING - products for domestic and public landscaping projects. AQUA - featuring Sustainable Urban Drainage Systems, and SPORT - a range of products specifically designed for sports facilities. The literature is also available in electronic format on...

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CO-OPERATIVES GRAIN STORE UPGRADED

FASERFIX® SUPER KS 300 channels fitted with GUGI® ductile iron mesh gratings, Class E600

North East Grains Storage Ltd at Longhirst, near Morpeth, Northumberland has upgraded to a 20,000 tonne grain store and 60 tonne per hour dryer to improve the services for its members. The upgrade means the co-operative will be able to enter into a long-term agreement with Simpsons Malt to process and store malting barley.

The surface drainage of the main yard posed a particular problem. It had to be drained effectively, but as grain was being constantly moved this tended to block the drainage channels. The answer was to install FASERFIX® SUPER 300mm channels fitted with Class E600 ductile iron GUGI® gratings. The tough fibre reinforced concrete channels incorporate SIDE-LOCK®, Hauraton's patented boltless

locking system that allows the gratings to be removed quickly and re-fitted easily for channel cleaning - an obvious advantage for this application. For example, 10 metres of cover can be removed in about 90 seconds with just 70 seconds to replace all 20 covers.

Patented
SIDELOCK® ►
System



GUGI® SIDELOCK® ductile iron gratings can be quickly removed for easy channel cleaning ►

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IT'S RUNNING WELL

NORTHUMBERLAND STABLES

- RECYFIX® PRO - main components non-metallic and corrosion resistant
- FIBRETEC® GUGI® mesh gratings - Loading Class B125
- Channel component made from 100% recycled polyethylene-polypropylene (PE-PP)



The GUGI® mesh grating which has a Class B125 loading, allows quick water ingress during wash down

A new stable block at South Dissington, Northumberland required a channel to drain the wash-down area. The grating needed to be made from a tough but non metallic material to provide a more sensitive surface for the horses' hooves.



The Hauraton RECYFIX® PRO channel system was chosen. The channel is made from 100% recycled PE-PP with the GUGI® mesh grating made from FIBRETEC®, Hauraton's specially formulated fibre reinforced PA-GF. This material is corrosion resistant, offers high stability and huge strength for its weight and was ideal for use in this application.

HYDRAULIC SUPPORT EASIER SPECIFICATION AND PURCHASING

We provide a free hydraulics design service to cover all our products in the LANDSCAPING and CIVILS ranges. The service is intended to support engineers, architects, architectural technologists, contractors and general builders in choosing the correct drainage components to meet their exacting drainage requirement or load restriction pertaining to individual projects.

The image shows a hydraulic analysis report from Hauraton Limited, including a graph of channel capacity and a CE Declaration of Conformity for RECYFIX HICAP 100 channels.

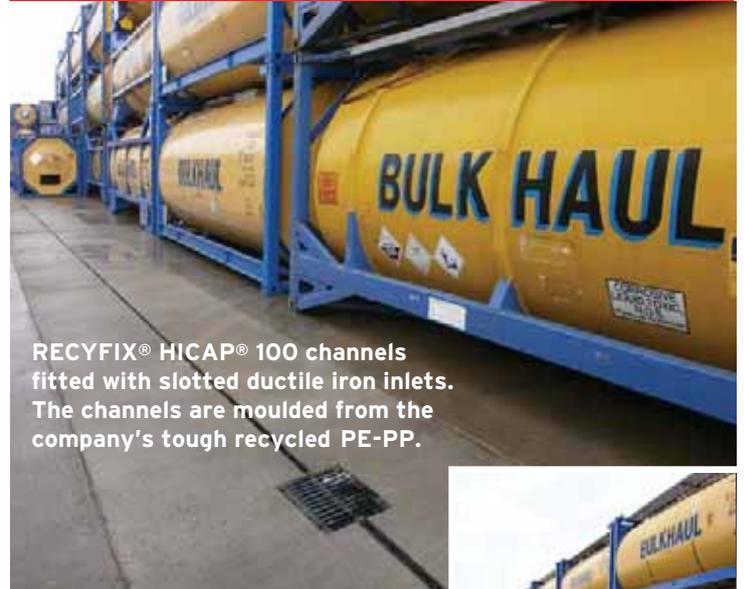
▲ Typical hydraulic analysis of channel capacity supplied by the Hauraton support team

LOCAL SUPPORT

Colin Taff has worked in the drainage industry as Hauraton's Product Manager in the North East area for 13 years. He can be contacted on his mobile 07768 333852 or email: colin.taff@hauraton.co.uk



BULKHAUL DEPOT OPERATIONS CENTRE - MIDDLESBROUGH



RECYFIX® HICAP® 100 channels fitted with slotted ductile iron inlets. The channels are moulded from the company's tough recycled PE-PP.

Bulkhaul Limited, is a market leader in the transportation of chemicals, powders and other materials in containerised tanks around the world. With each tank module weighing upwards of 36 tonnes when full, the Hauraton HICAP® system with a certified loading Class of F900 was specified and installed by Hall Construction Services Ltd in Bulkhaul's new reinforced concrete storage depot.



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