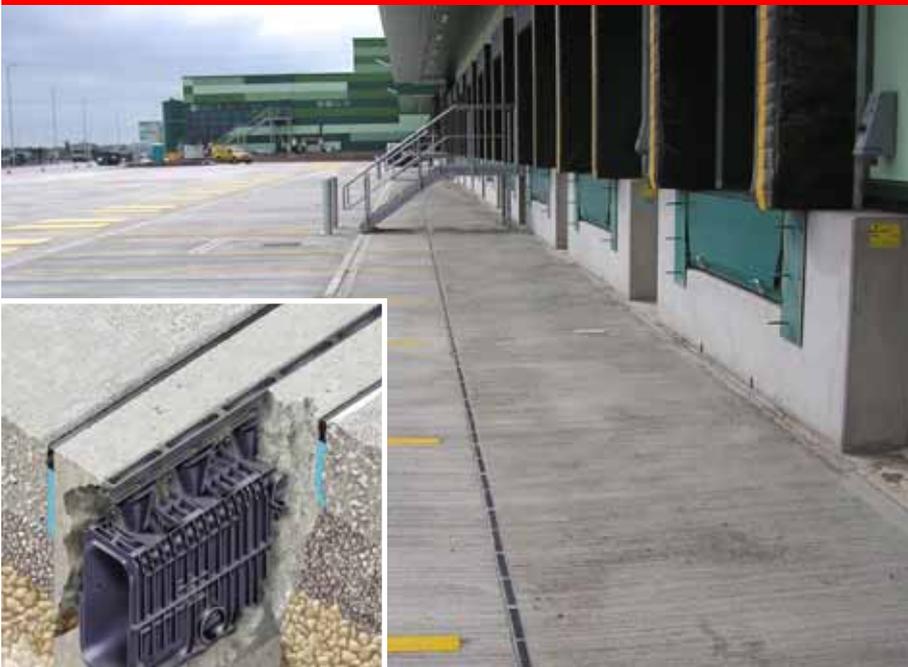




MORRISONS REGIONAL DISTRIBUTION CENTRE

- 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



RECYFIX® HICAP® High Capacity drainage channels - load Class F900 installed along the front of loading bays

Morrisons' £95 million South West regional Distribution Centre at Bridgwater in Somerset became fully operational in early 2012. The Centre includes ambient, chilled, frozen and bread warehouses, a packing plant along with a Goods In building, Resource Recovery Unit and Vehicle Maintenance Unit. The facility also has a fuel filling station, vehicle wash, two gatehouses and a driver's Check In building. The site's drainage design and implementation had to be agreed with the Inland Drainage Board who made daily inspections to monitor the works, ensuring the strict water management procedures were being followed. A total of 2100 metres of RECYFIX® HICAP® was installed to drain the hard standing areas created.

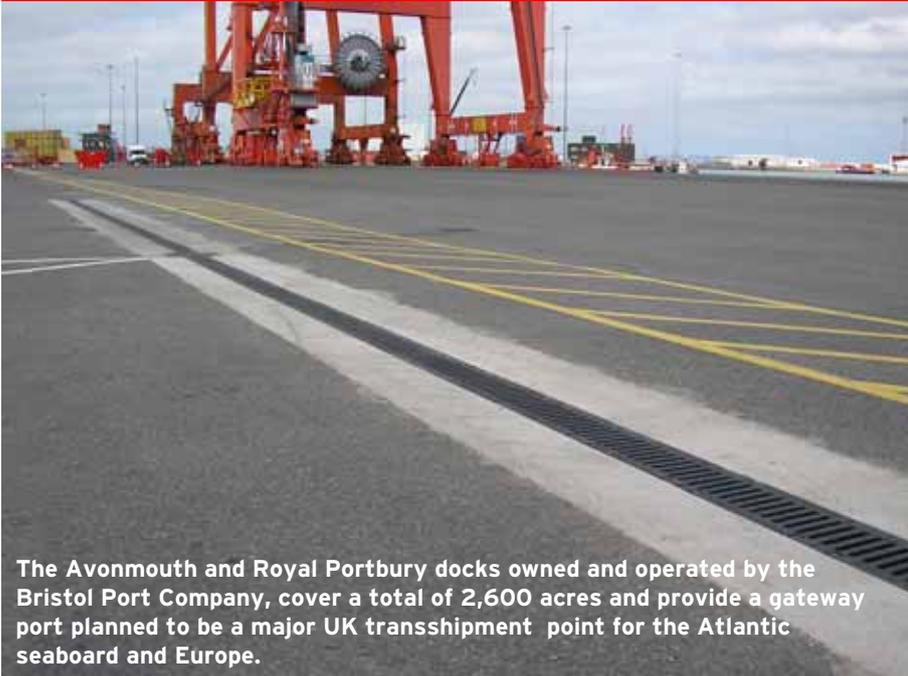
There were two contracts placed for the work. The first phase, for the Distribution Centre, was awarded to Bowmer Kirkland with Churngold from Avonmouth responsible for purchasing the channels and ground work. The second phase contract was the Morrisons Packing Plant, awarded to McClarens with Fortel Services responsible for purchasing and ground work.

WELCOME TO INNOVATION - SOUTH WEST & WALES SURFACE WATER DRAINAGE NEWS



DRAINAGE REFURBISHMENT AT BRISTOL PORT

- **FASERFIX® channels made from tough fibre reinforced concrete**
- **Ductile gratings with 20mm slots, loading Class F900**
- **Over 500 metres of drainage channel installed**



The Avonmouth and Royal Portbury docks owned and operated by the Bristol Port Company, cover a total of 2,600 acres and provide a gateway port planned to be a major UK transshipment point for the Atlantic seaboard and Europe.



Aerial view of Portbury Dock



FASERFIX® SUPER 200 being installed

Due to extremely heavy use, over the last few years, the existing linear drainage system had started to fail at the Avonmouth Docks. The Bristol Port Company decided to progressively replace the failed drainage system with Hauraton's tough FASERFIX® SUPER 150 fibre reinforced channels. At the same time, the concrete service yards and hard standing around the new warehousing units built at Portbury and Avonmouth Docks required effective surface drainage. Two sizes of FASERFIX® SUPER, 150 and 200, were specified for these areas. The FASERFIX® SUPER channels feature steel reinforcement along their top edges. Fitted with ductile iron 20mm slot gratings, the channels comply with loading Class 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.

CAPITAL RETAIL PARK - CARDIFF

RECYFIX® HICAP® RECYFIX® SLOTTED CHANNELS AND KERB DRAINAGE



RECYFIX® HICAP® used in main car park and service area behind the shops



RECYFIX® SLOTTED CHANNELS with asymmetrical slotted inlets along front of shops

The Capital Retail Park, Cardiff, at 43,964 m² (472,730 ft²) is part of a multi million pound complex located to the West of the Welsh Capital. The developed area also includes the new 26,500 seat Cardiff City Stadium, a 5000 capacity, IAAF approved International Athletics and community sports venue and a 70 room hotel.

To cope with the massive increased of traffic; the local road network was completely re-engineered. In addition, much of the "Brown-field" land within the development has been paved over providing car and commercial parking areas, so efficient, sustainable urban drainage was a major consideration in the overall planning for the project.

Three Hauraton drainage systems totalling 2500 metres were incorporated into the Retail complex, all complying with SUDS legislation and local requirements.



KERB drainage along access road to main car park

HEREFORD LIVESTOCK MARKET

- **FASERFIX® SUPER 300** fibre reinforced concrete channels
- **Tough, durable GUGI® ductile iron gratings** - load Class E600
- **Featuring SIDE-LOCK®** - a patented boltless system



FASERFIX® SUPER
channels with metal
protection along their top edges ▶

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...

www.hauraton.co.uk



Hereford's Livestock Market has moved from its central location around Edgar Street, to a new custom-built, multi million pound facility at Stretton Sugwas on the outskirts of the city. It houses a sheep and cattle ring, spaces for more than 300 cars and trailers plus nine lorry wash stations. 600 metres of FASERFIX® SUPER 300mm channels were installed all fitted with Class E600 ductile iron GUGI® gratings. The tough fibre reinforced concrete channels incorporating SIDE-LOCK®, a 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.

SURFACE WATER CONTROLLED AT G PARK

RECYFIX® HICAP® slot drain fitted with ductile iron, 14mm slot inlets to loading Class F900

Hauraton provided an extensive surface water drainage system to the first phase of the vast 127,219m²(1,369,293 ft²) G Park distribution hub located at South Marston in Swindon.

Gazeley Properties has begun to transform a 98 acre site, just off the A419, by creating a £70m build-to-suit regional distribution hub. Gazeley claim the site's three main buildings, each consisting of warehousing, offices and gatehouse, together with their immediate surrounding, take into account the latest sustainable environmental standards for a development of this type.

The hub will have a total of 740 car park spaces plus waiting and loading bays for over 300 HGVs. During the construction of Unit A, Hauraton supplied over 948 metres of their RECYFIX® HICAP® channels in various sizes to drain and control surface water from the car parks, lorry bays, access roads and the on-site HGV fuel and wash station. Rainwater collected by the channel system is eventually directed into on-site storage/seepage lagoons.



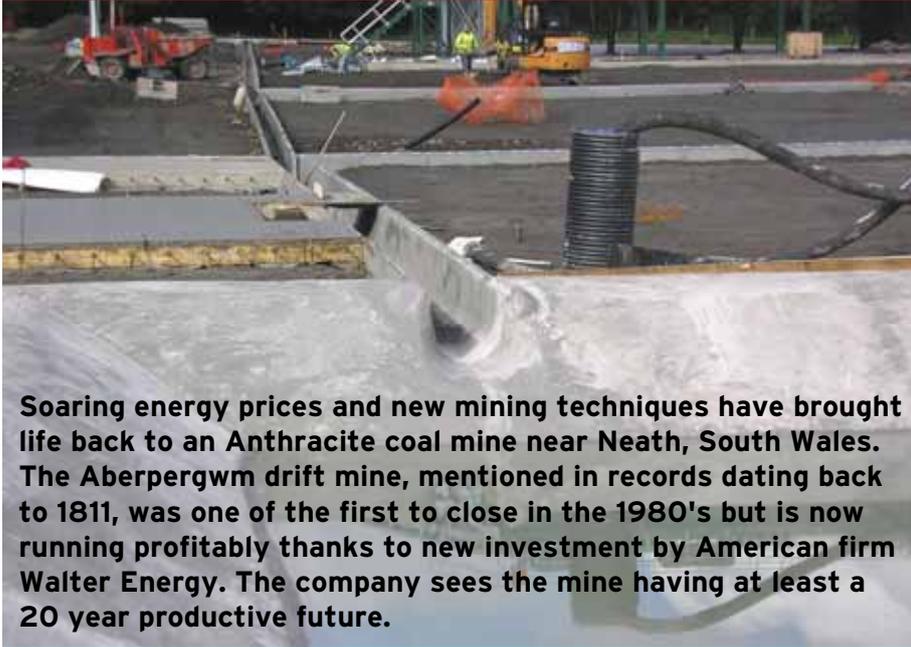
**Channels being installed at
the fuel and wash station ▶**

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IT'S RUNNING WELL

LIFE IN THE OLD MINE YET!

- **FASERFIX® SUPER 300, 400 and 500 Channels**
- **Ductile iron gratings provided loading to the specified Class D400**
- **Channel made from Hauraton's unique fibre reinforced concrete**

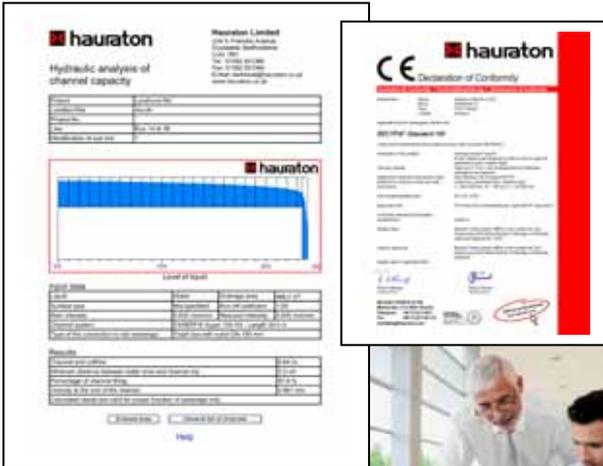


Soaring energy prices and new mining techniques have brought life back to an Anthracite coal mine near Neath, South Wales. The Aberpergwm drift mine, mentioned in records dating back to 1811, was one of the first to close in the 1980's but is now running profitably thanks to new investment by American firm Walter Energy. The company sees the mine having at least a 20 year productive future.

In order to improve transport access to the mine and handling of heavy equipment, a large concrete and asphalt yard has been created at the front of the drift mine. To drain this area, Horan Construction from Cardiff, purchased and installed Hauraton FASERFIX® SUPER channels, fitted with Class D400 ductile iron gratings. There were 950 metres of SUPER 300 installed, 100 metres of SUPER 400 and 17 metres of SUPER 500. Due to a very tight programme of works on site, all the channels were delivered over a six week period. Collected rainwater drains into a large settling lagoon before being released.

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.



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

LOCAL SUPPORT

Steve Wiseman has worked in the drainage industry as Hauraton's Product Manager in the South West and Wales area for 15 years. He can be contacted on his mobile 07983 637124 or email: steve.wiseman@hauraton.co.uk



HOSPITAL CAR PARK MORRISTON HOSPITAL SWANSEA NHS



The 750 bed Morriston Hospital, Swansea NHS Trust, car park is drained by 850 metres of RECYFIX® STANDARD 100 channels fitted with HEELSAFE ductile iron gratings. The channels are moulded from the company's tough recycled polyethylene-polypropylene (PE-PP) which is resistant to UV and road salt.



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Hauraton Limited, Unit 4, Frenchs Avenue, Dunstable, Bedfordshire LU6 1BH

www.hauraton.co.uk

TEL. 01582 501380

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