

# INNOVATION

## SURFACE WATER DRAINAGE NEWS

**TRANSPORT  
RAIL & TRAM  
AIRPORTS  
ROADS**



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## HISTORIC YORK RAILWAY STATION

• **RECYFIX® STANDARD** featuring **HEELSAFE** ductile iron gratings



RECYFIX® STANDARD platform surface drainage

Serving the busy East Coast mainline route, primarily between Glasgow Aberdeen, Edinburgh and London York Rail Station is also a vital cross-route link between Glasgow, Manchester and Liverpool. The station currently copes with around 800 trains and thousands of passengers each week. With so many passengers using the station, the extended platforms, which project out from the original arched structure, are as busy as ever. The platform surfaces have been designed to gently slope inward away from the track so any surface water naturally drains towards their centre. Effective drainage of these roofed and un-roofed "outer" areas was a major safety consideration.

Hauraton RECYFIX® STANDARD 100 channels were chosen for the slightly curving platforms. The 271 metres of channelling installed were made from the company's tough recycled Polyethylene-Polypropylene (PE-PP), all fitted with Class C 250 ductile iron "heel-safe" gratings finished in a Black anti-oxidisation coating. As each one metre unit only weighs just over 6kg, including the grating, contractor C. Spencer Limited was impressed with the ease and speed of installing the channels as all the units used easily complied with manual lifting regulations.



**Network Rail insist that suppliers of all materials, to any of their premises, go through the rigorous procedure of gaining a 'Link Up' certificate and approval. This process is empowered by Achilles information Ltd.**



## WELCOME TO INNOVATION - SURFACE WATER DRAINAGE NEWS



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IT'S RUNNING WELL

# HIGH CAPACITY DRAINAGE CHOSEN FOR NEWQUAY CORNWALL AIRPORT

• RECYFIX® HICAP® feature fixed ductile iron slot inlet gratings



*The £52.4 million transformation of the RAF St. Mawgan Airbase to the Newquay Cornwall Airport, was the first time a changeover of this kind has been attempted from military to civilian use in the UK. The success of the project has been largely due to the excellent working relationship between the MoD, Royal Air Force, Cornwall Council, Cornwall Airport Limited, the Civil Airport Authority and all the contractors involved in the project to resolve operational, technical and commercial issues as they arose.*



Starting in 2007, actual building work took three years to complete. Although the airport was granted their licence by the Civil Aviation Authority on 20<sup>th</sup> December 2008, building work continued, mainly at night to minimise disruption, for a further year. The re-development has included a new air traffic control tower, various refurbished and new terminal buildings, additional car park areas, the re-surfacing of the 2745m runway, aircraft hard-standing areas and widened taxiways.

Having supplied high capacity surface water drainage channels for aircraft hard-standing areas at both Gatwick and Heathrow airports, Hauraton were confident their RECYFIX® HICAP® channels would comply with the stringent specification asked for by the Newquay design engineers.

With aircraft tow trucks alone weighing 80 tonnes, manoeuvring aircraft imposes an enormous burden on any surface drainage system. Not only must the area be efficiently drained, the installed system must withstand the twisting forces exerted by turning aircraft and numerous service trucks. The RECYFIX® HICAP® channels used in the project have fixed ductile iron slot inlet gratings that comply with loading category Class F900.

During the construction stage, 300 metres of RECYFIX® HICAP® 100 were installed in the airport's taxiways and hard-standing areas located in front of the terminal buildings. The photographs show the four main phases of installation.

Steve Wiseman, the Hauraton Sales Engineer for the project, was pleased when his company's high capacity channels were chosen. Made from specially formulated recycled Polyethylene-Polypropylene (PE-PP), each of the one metre HICAP® channel used weighed only 13.2kg so one-man-lift of the component. This greatly simplified handling and logistics for merchants JDP - Launceston depot. Contractor Cormac

also found the combination of a tough PE-PP channel and ductile iron slotted inlet resisted site damage during installation.



**"The completion of this project means Cornwall has one of the best regional airports in the country, with modern facilities and state of the art equipment. The facility can now deal with up to six aircraft at a time and has an annual capacity of 700,000 passengers".**

# RENEWAL OF THE BLACKPOOL & FLEETWOOD TRAMWAY

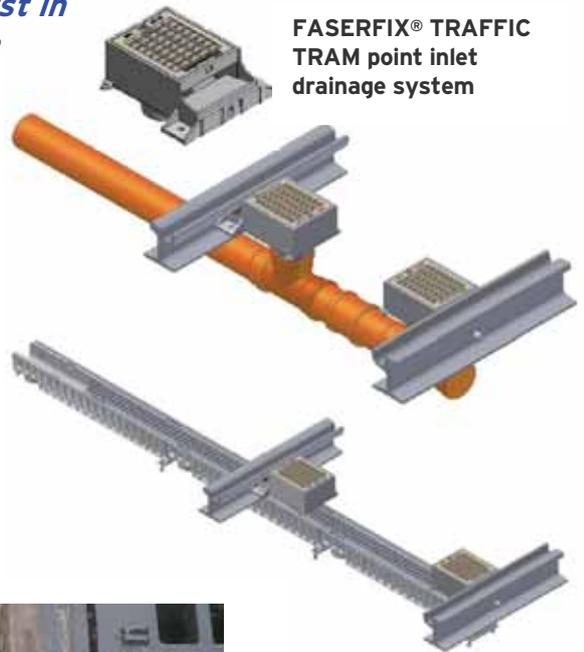
- FASERFIX® TRAFFIC TRAM Point inlet gullies

*The Blackpool and Fleetwood tramway - one of the very first in the world and the first in the UK, is currently undergoing a major redevelopment that is set to revitalise the famous 18 kilometres (11.2 miles) coastal route.*

Current planning legislation requires modern tramways to take into account the control of surface water, especially where grooved rails are set into the road. Polluted rainwater can collect in the rails so must be controlled to prevent localised flooding and contamination of the surrounding ground.

Hauraton's tough FASERFIX® TRAFFIC TRAM Point Inlet Gullies were specified for the project by WS Atkins because of their high hydraulic capacity, ease of installation and simple cleaning procedure. Each gully is firmly fixed to the side of the rail with one high tensile bolt. Once in position a 200mm x 20mm slot is cut in the bottom of the grooved tram rail which allows rainwater to enter the gully.

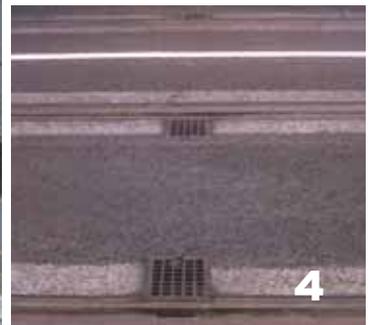
Hauraton have gained extensive experience throughout Europe in tramway drainage and are keen to provide design support for UK projects. Used across rails in railway stations, port installations and container depots their systems are designed to provide simple and reliable installation, allowing quick access for maintenance and cleaning.



FASERFIX® TRAFFIC TRAM point inlet drainage system



1. Installation in progress
2. Gully cast into position
3. Drainage slot cut into tramline
4. Finished installation



## HAYMARKET TRANSPORT HUB NEWCASTLE UPON TYNE

- RECYFIX® STANDARD with perforated stainless steel gratings

Nexus, the Passenger Transport Executive for Tyne and Wear who own and operate the Tyne and Wear rapid transport system have established a partnership with Closegate Developments Limited, acting on behalf of 42nd Street Realty Limited for the redevelopment of the Haymarket Metro Station to create a new landmark building 'The Hub'.

The Haymarket Hub has rejuvenated this historical northern gateway into Newcastle City Centre. The exciting design of the 'Metro Station' space has provided new leisure, commercial and retail opportunities and re-emphasises the area's importance as a major gateway to the city centre of Newcastle.

Some 120 metres of RECYFIX® STANDARD with locked, perforated stainless steel gratings were installed to drain the concourse around the building.

Details of RECYFIX® STANDARD drainage channels are available in Hauraton's LANDSCAPING catalogue.



# MOTORWAY DRAINAGE - M4 SWINDON

- RECYFIX® HIGHCAP®
- Ductile iron slot inlet provides loading Class F900
- Channel made from 100% recycled polyethylene and polypropylene



One man lift enables easy positioning of the RECYFIX® HICAP®

Just over 300 metres of RECYFIX® HICAP® have been installed by M.J. Church Limited between Junction 14 and 15 on the M4. The HICAP® system is the result of an extensive Research and Development programme, where our design engineers identified the potential of using recycled PE-PP materials for high volume drainage channels. This allows specifiers and contractors flexibility in heavy duty drainage schemes coupled with trouble free installation, especially where tarmac is the surrounding surface. This design work resulted in an innovative surface water drainage system that has the potential of reducing the number of channel runs normally required to drain a given area. Field experience has shown this reduction has meant less underground excavations, materials and vastly reduced installation times. Unlike similar "heavy duty" drainage systems on the UK market that use galvanised steel slots, the inlets on our HICAP® channels are made from strong ductile iron, so accidental distortion during installation has proved not to be a problem.

## VICTORIA BUS STOP

- FASERFIX® SUPER with E600 grating

Located at the front of London's Victoria Rail Station, the bus terminus is a key hub in the capitals street transport system. Buses arrive and depart every few minutes day and night so rain water must not be allowed to build up on the heavily used stands averting any risk for passengers. Drainage channels along the perimeter of each stand ensure rain water is effectively diverted into an underground separation tank before entering the main drainage system.

FASERFIX® SUPER 150 drainage channels were supplied by Hauraton Limited. The channels are fitted with ductile iron "heel-safe" gratings that comply with category E600 load class.



## HYDRAULIC SUPPORT EASIER SPECIFICATION AND PURCHASING

We provide a free hydraulics design service to cover all our products in the 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

## STOCKED PRODUCTS

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- JDP
- MPS
- PDM



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