

INNOVATION

SURFACE WATER DRAINAGE NEWS

RECYFIX®
HICAP®
SPECIAL



RECYFIX® HICAP® SPECIFICATION CATALOGUE

The 28 page catalogue provides detailed specifications of both the Standard HICAP® with PE-PP inlet adapters and the HICAP® SERIES G that feature a ductile iron inlets. All Hauraton literature is available in digital format from www.hauraton.co.uk.



PROVEN HIGH CAPACITY DRAINAGE

- RECYFIX® HICAP® feature ductile iron slotted inlets as standard



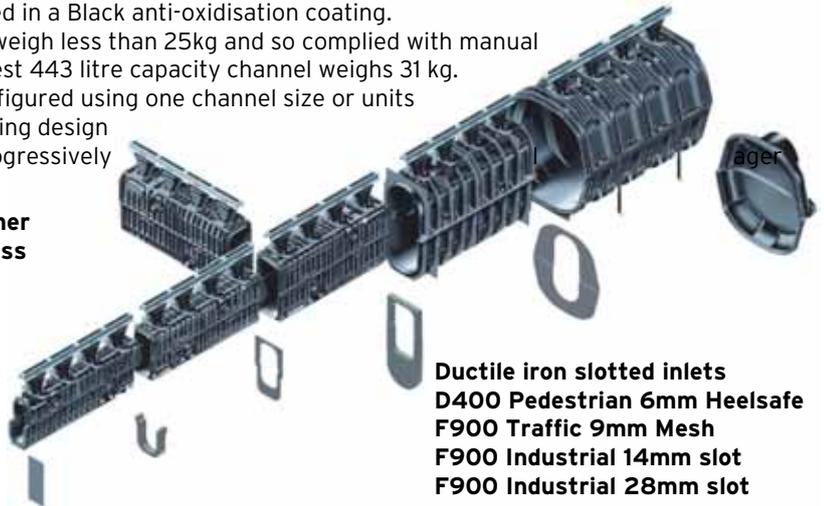
Main Car Park Capital Retail Park, Leckwith



Five RECYFIX® HICAP® sizes weigh less than 25kg

Hauraton RECYFIX® HICAP® high capacity drainage channels can be arranged act as an efficient storm-water retention system. The channel components are made from the company's tough 100% recycled Polyethylene-Polypropylene (PE-PP) and available in six retention capacities from 18.4 to 433 litres. All channels are factory fitted with ductile iron slotted inlets available in four configurations. The ductile iron is finished in a Black anti-oxidisation coating. All but the largest sizes weigh less than 25kg and so complied with manual lift regulations. The largest 443 litre capacity channel weighs 31 kg. Channel runs can be configured using one channel size or units can be linked in a cascading design with the run having a progressively larger capacity.

Inlet adapter allows for other pipe-work and cables to pass through the channel run



- Ductile iron slotted inlets
- D400 Pedestrian 6mm Heelsafe
- F900 Traffic 9mm Mesh
- F900 Industrial 14mm slot
- F900 Industrial 28mm slot



No damage to RECYFIX® HICAP® channels during installation

WELCOME TO INNOVATION - RECYFIX® HICAP® SURFACE WATER DRAINAGE NEWS



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 20th 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.

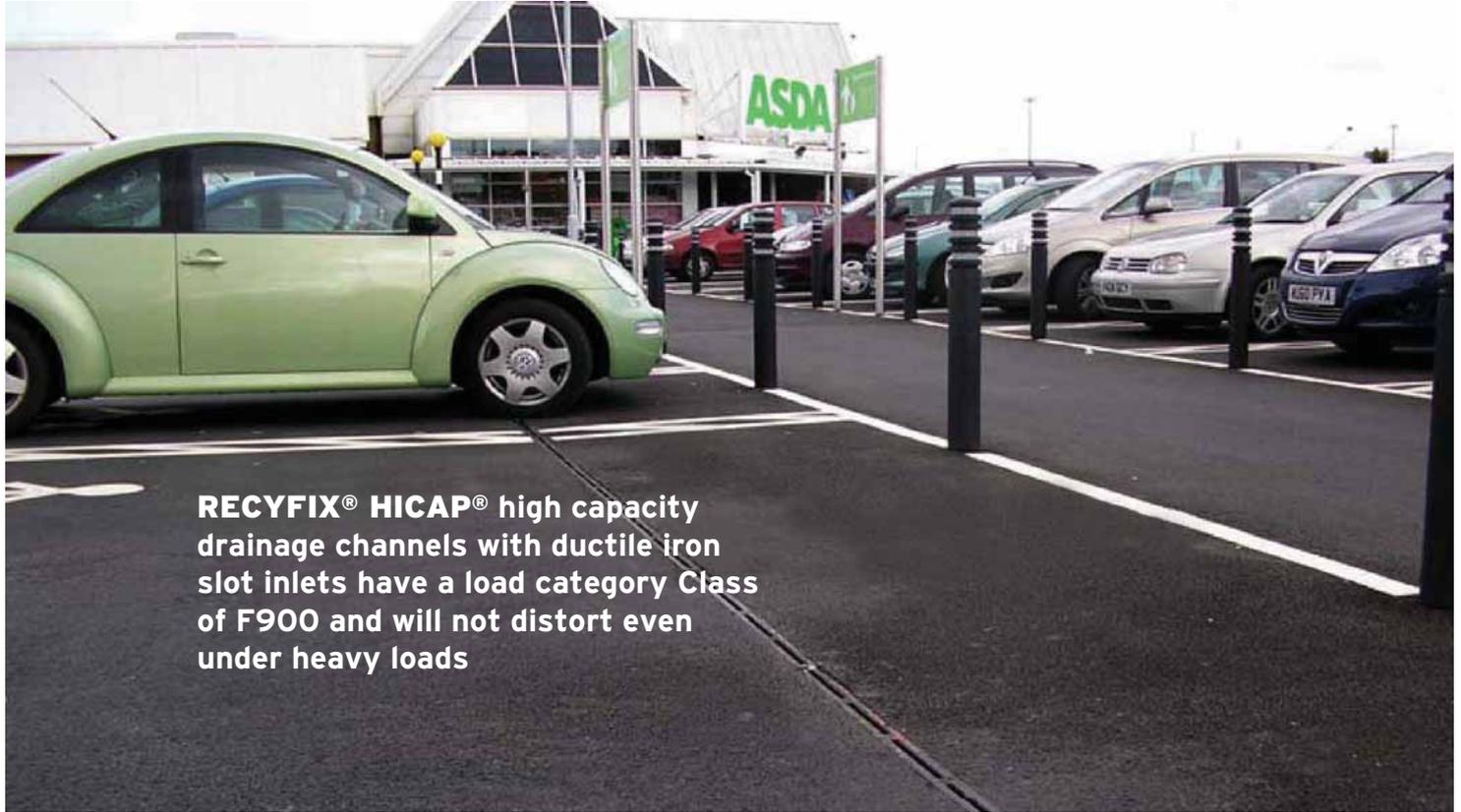
"The completion of this project means Cornwall has one of the best regional airports in the country, with modern facilities and state of the art equipment. The facility can now deal with up to six aircraft at a time and has an annual capacity of 700,000 passengers".

www.hauraton.co.uk

ASDA SUPERMARKET CAR PARK WESTON-SUPER-MARE

RECYFIX® HICAP® replaces failed polymer drainage channel system

The standard polymer concrete surface water drainage channels installed in the Asda Supermarket car park, Weston-Super Mare, had deteriorated to a point where effective drainage was not being achieved with various areas becoming flooded during heavy rainfalls.



RECYFIX® HICAP® high capacity drainage channels with ductile iron slot inlets have a load category Class of F900 and will not distort even under heavy loads

As part of Asda's nationwide refurbishment programme their Weston-Super-Mare store's 600 space car park needed urgent attention to the drainage system where surface flooding was seriously inconveniencing their customers.

Hauraton were called in by Asda to advise on the type, size and configuration of the drainage system to ensure rainwater was effectively drained from their car park. The RECYFIX® HICAP® high capacity drainage system met the strict specification demanded and was eventually ordered by Broham Forecourt Developments Limited the installing contractor. To minimise inconvenience to customers the scheme was planned and installed in stages.

The RECYFIX® HICAP® 100 channels are made from the company's 100% recycled PP-PE which is designed to resist the rigours of site work - no breakages were reported during the project. Although very tough, each one metre channel weighs only 12.6 kg so lifting gear was not necessary as channels could be easily man-handled into position. This was a major advantage for the contractor as it helped speed the installation process. Factory fitted with slotted ductile iron inlets, the channels comply with a loading class of F900 so can take the weight of the heaviest delivery lorry. Each one metre channel used has a storage capacity of 28.4 litres. Asda were pleased their supermarket was able to trade throughout the car park refurbishment.

Steve Wiseman, Hauraton's Project Manager, provided technical support for the contractor during the design and installation stages. In all, some 600 metres of RECYFIX® HICAP® 100 channels were installed over a frantic six week period.



TEL. 01582 501380

MOTORWAY DRAINAGE - M4 SWINDON

- RECYFIX® HICAP®
- Ductile iron TRAFFIC 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.

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.

HYDRAULIC SUPPORT EASIER SPECIFICATION AND PURCHASING

We provide a free hydraulics design service to cover all our products in the CIVILS ranges including RECYFIX® HICAP®. 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.

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Hydraulic analysis of channel capacity

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Level of liquid

Input data

Field	Value	Storage area	ADD to list
Channel type	Full specified	1.00	
Surface type	Concrete	0.01	
Manhole	1.00	0.00	
Channel system	1.00	0.00	

Results

Channel and surface: ...
 Manhole and channel: ...
 Velocity at the end of the channel: ...
 Calculated flows are valid for gross flow of sewerage only.

CE **hauraton**
Declaration of Conformity

Product: HICAP 100

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



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.



This publication is issued subject to alteration or withdrawal without notice. The illustrations and specifications are not binding in detail. All offers are subject to the Company's current terms and conditions of sale, a copy of which is available on request.

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