

# Sustainability Contribution Declaration **BREEAM**<sup>®</sup> (Building Research Establishment Environmental Assessment Method)

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# BREEAM® (Building Research Establishment Environmental Assessment Method)

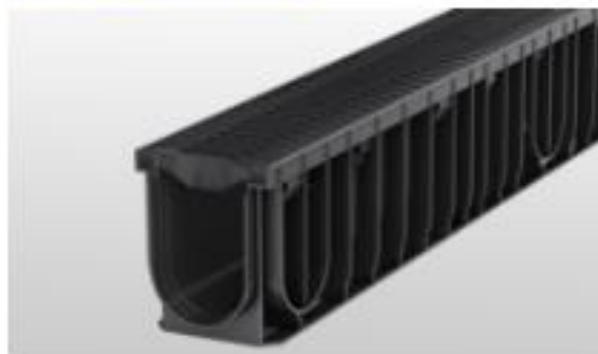
The intention of this document is to support the BREEAM certification process by providing building specific information. The basis of this information is the BREEAM UK New Construction technical manual (2014)<sup>1</sup>

## CIVILS



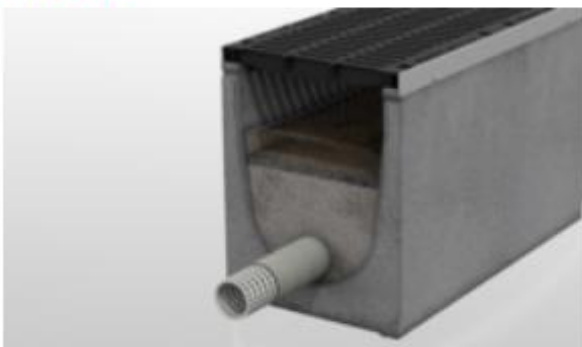
Linear surface drainage systems in fibre-reinforced concrete or composite materials for use on a wide variety of projects subject to loads from D400 – F900.

## LANDSCAPING



Linear surface drainage systems in fibre-reinforced concrete, composite materials or steel for use on a wide variety of projects subject to loads from A15 – D400.

## AQUA



A modern, efficient and versatile range of separators, water treatment and attenuation products for sustainable preservation of vital resources.

## SPORT



A range of specialist drainage systems and ancillary products for sports stadiums and facilities.

<sup>1</sup>BREEAM UK New Construction non-domestic buildings technical manual 2014; Reference: SD5076 – Issue: 1.0; Date: 21 May 2014, [www.breeam.org](http://www.breeam.org)

## About HAURATON

### Market leader in drainage sector

A market leader within the drainage sector, HAURATON offers modern solutions designed for a variety of project environments and requirements.

HAURATON developed the first drainage system in 1956 and since that time the brand has become known around the world as a benchmark for quality, reliability, durability and service. Accordingly, our products have been supplied onto major projects within international markets for over sixty years. For project references we refer to our company's website ([www.hauraton.com](http://www.hauraton.com)).

A multinational company, HAURATON has production facilities, subsidiary offices, technical engineers and trade partners located in many regions of the world, so it can provide industry professionals with close support at every stage of the construction process, from design to installation.

With superior design and engineering, HAURATON sets the industry standard with high-quality and technically innovative products that perfectly meet project requirements for a wide range of applications and sectors.

### Sustainability at HAURATON

With a focus and emphasis on developing resource-saving products, sustainable drainage systems are prevalent within the HAURATON range.

The selection and use of raw and processed materials for production is important. The production process, installation and disposal of products, and the intended use of the system should be beneficial to the environment throughout the product and projects entire life span. This is drainage with a vision.

- RECYFIX systems are manufactured from almost 100% recycled Polypropylene (PP), which is again fully recyclable following life-time use.
- The same is true for our procured ductile iron and (stainless) steel materials, which also include a high percentage of post-consumer recycled content.
- Besides using energy mainly generated by photovoltaics (see below), our FASERFIX systems are based on hydration-optimised concrete recipes. Following this, only the essential amount of water is needed.

HAURATON has environmentally sound production facilities, processes and procedures.

- HAURATON regularly audits energy consumption and possible improvements in accordance with European norm DIN EN 16247-1.
- we do issue packaging instructions to ensure the maximum capacity of the pallets is used, thereby minimising the amount of packaging per product.
- scrap/ waste from the production process is separated and collected. These materials (metal/ ductile iron, plastic and concrete) are picked up to be completely recycled again.
- the entire roof of our plant is used for generating electricity by photovoltaics, thereby allowing us significant CO<sub>2</sub> savings. Over 2,700 photovoltaic modules on a total area of 4,478 m<sup>2</sup> deliver on average 80% of HAURATON's electricity requirements.
- logistics routes for order picking and loading were optimised. The measures resulted not only in reduced loading times but also contributes to environmental protection and a significant CO<sub>2</sub> and fuel reduction annually.

## Quality and Service

HAURATON has a worldwide reputation for product development using the most modern materials, technologies and processes in the search for new solutions and to optimise existing ones. HAURATON's pioneering role in the drainage sector enables the company to work in partnership with research teams at leading institutes and technical universities specialised in the field of drainage, in search of progress and innovation.

HAURATON products and procedures bring Quality Assurance. The company operates in accordance with DIN EN ISO 9001:2015. Products and systems have been extensively tested to recognised industry standards in international markets; drainage channels fully comply with DIN EN 1433 and carry the CE Mark for consistent quality.

## About this document

This document contains product information and life-cycle analysis relating to a specified project and regarding the following HAURATON products:

XXXXXXXXXX

XXXXXXXXXX

XXXXXXXXXX

XXXXXXXXXX

The information/analysis provided which will be weighted in relation to the project, thereby creating a project-specific running meter of HAURATON products used on the project, as shown in the Life Cycle Analysis („LCA”) below.

HAURATON can also provide specific project related information for the following products:

- **RECYFIX®** Systems
- **FASERFIX®** Systems
- **SPORTFIX®**
- **TOP X®**
- **DACHFIX®** Facade Drainage
- **DRAINFIX®**
- **AQUAFIX®**
- **LINEFIX®**

The aim of this document is to provide transparency regarding HAURATON products and to support the BREEAM certification process for our customers by issuing specific information, since our products and our support services can make a potential contribution towards achieving BREEAM credit points, even when drainage channels are not part of the BREEAM Certification System.

Please note that our products' respective contribution to BREEAM credits may depend on the planning and execution of the specific project being designed in conjunction with the BREEAM rating system.

Since it is at the auditor's discretion whether and how HAURATON's products are considered regarding their environmental impact (in the auditing process), HAURATON assumes no liability whether (and to what extent) the information presented in this document is taken into account or evaluated by the auditor.



## Management

### Man 02: Life cycle cost and service life planning

→ To promote the business case for sustainable buildings and to deliver whole life value by encouraging the use of life cycle costing to improve design specification, through-life maintenance and operation.

#### Man 02 Life cycle cost and service life planning

Specific Information	Evidence (quality)
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Reference Service Life

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End-of-life stage

### Man 04: Life cycle cost and service life planning

→ To encourage a properly planned handover and commissioning process that reflects the needs of the building occupants

Specific Information	Evidence (quality)
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Installation instruction

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maintenance instruction



## Health and Wellbeing

Not relevant



## Energy

Not relevant



## Water

### **Wat 01: Water consumption**

→ To reduce the consumption of potable water for sanitary use in new buildings from all sources through the use of water efficient components and water recycling systems



# Materials

## Mat 01: Life cycle impacts

→ To recognise and encourage the use of construction materials with a low environmental impact (including embodied carbon) over the full life cycle of the building.

### Product information

Description	Value	Link
Author of the LCA		
Declared unit		
Critically reviewed LCA acc. to ISO 14044?		
Green guide rating		-

### Results of the LCA – ENVIRONMENTAL IMPACTS

Life stages	cycle	Product stage	Construction process stage			Use stage	End of Life Stage		Benefits & loads beyond system bound.
Declared life cycle (DIN EN 15804)	life stages	A1 - A3	A4	A5	B1 - B7	C3	C4	D	
GWP									
[kg CO <sub>2</sub> -eq.]									
ODP									
[kg CFC11-eq.]									
AP									
[kg SO <sub>2</sub> -eq.]									
EP									
[kg PO <sub>4</sub> -eq.]									
POCP									
[kg ethene-eq.]									
ADPE									
[kg Sb-eq.]									
ADPF									
[MJ]									

Note: Detailed names of the given abbreviations can be found in the Glossary.



## Materials

### Mat 01: Life cycle impacts (continued)

#### Results of the LCA – RESOURCE USE

Life stages	cycle	Product stage	Construction process stage			Use stage	End of Life Stage		Benefits & loads beyond system bound.
Declared cycle (DIN EN 15804)	life stages	A1 - A3	A4	A5		B1 - B7	C3	C4	D
<b>PE total [MJ]</b>									
PERE [MJ]									
PERM [MJ]									
<b>PERT [MJ]</b>									
PENRE [MJ]									
PENRM [MJ]									
<b>PENRT [MJ]</b>									
SM [kg]									
RSF [MJ]									
NRSF [MJ]									
FW [m³]									

Note: Detailed names of the given abbreviations can be found in the Glossary.

#### Results of the LCA – OUTPUT FLOWS AND WASTE CATEGORIES

Life stages	cycle	Product stage	Construction process stage			Use stage	End of Life Stage		Benefits & loads beyond system bound.
Declared cycle (DIN EN 15804)	life stages	A1 - A3	A4	A5		B1 - B7	C3	C4	D
HWD [kg]									
NHWD [kg]									
RWD [kg]									
CRU [kg]									
MFR [kg]									
MER [kg]									
EEE [MJ]									
EET [MJ]									

Note: Detailed names of the given abbreviations can be found in the Glossary.





## Materials

### Mat 03: Responsible sourcing of materials

→ To recognise and encourage the specification and procurement of responsibly sourced materials for key building elements.

#### Product information

Responsible Sourcing Certification Scheme	Certification level / scope
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### Mat 05: Designing for durability and resilience

→ To recognise and encourage adequate protection of exposed elements of the building and landscape, therefore minimising the frequency of replacement and maximising materials.

### Mat 06: Material efficiency

→ To recognise and encourage measures to optimise material efficiency in order to minimise environmental impact of material use and waste-optimisation.



## Waste

### Wst 01: Construction waste management

→ To promote resource efficiency via the effective management and reduction of construction waste.

#### Product information

Specific information	Evidence (quality)
Reduction of construction waste	
Recycling rate of construction waste	

### Wst 02: Recycled aggregates

→ To recognise and encourage the use of recycled and secondary aggregates, thereby reducing the demand for virgin material and optimising material efficiency in construction.

#### Product information

##### Specific information

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Post-consumer recycled content

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Pre-consumer recycled content



## Pollution

### Pol 01: Surface water run-off

→ To avoid, reduce and delay the discharge of rainfall to public sewers and watercourses, thereby minimising the risk and impact of localised flooding on and off-site, watercourse pollution etc.

## General Information

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Contact person:

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Email:

Homepage:

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Date of this fact sheet:

xx.xx.202X

### Detailed product description

### Technical data

## Glossary

GWP	Global warming potential
ODP	Depletion potential of the stratospheric ozone layer
AP	Acidification potential of land and water
EP	Eutrophication potential
POCP	Formation potential of tropospheric ozone photochemical oxidants
ADPE	Abiotic depletion potential for non-fossil resources
ADPF	Abiotic depletion potential for fossil resources
PE total	Total use of primary energy resources (=PERT+PENRT)
PERE	Use of renewable primary energy excluding renewable primary energy resources used as raw materials
PERM	Use of renewable primary energy resources used as raw materials
PERT	Total use of renewable primary energy resources
PENRE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials
PENRM	Use of non-renewable primary energy resources used as raw materials
PENRT	Total use of non-renewable primary energy resources
SM	Use of secondary material
RSF	Use of renewable secondary fuels
NRSF	Use of non-renewable secondary fuels
FW	Use of net fresh water
HWD	Hazardous waste disposed
NHWD	Non-hazardous waste disposed
RWD	Radioactive waste disposed
CRU	Components for re-use
MFR	Materials for recycling
MER	Materials for energy recovery
EEE	Exported energy per energy carrier electricity
EET	Exported energy per energy carrier thermal

### Disclaimer:

HAURATON takes reasonable and due care when compiling product information for use within marketing and technical documents. Any guidance, recommendations or advice provided regarding HAURATON products and systems is given without guarantees, as conditions relating to the use and installation of products and systems is beyond the control and influence of the company. The customer has the final responsibility to ensure the suitability of the system regarding its use and application for their project.

This environmental document and the values contained herein have been prepared/provided to the best of our knowledge on the basis of existing data, and where necessary, on the basis of substantiated assumptions by HAURATON GmbH & Co. KG. The information contained in this document does not knowingly omit valid data.

As some of the environmental data and the LCA model were provided by third-party suppliers and service providers, HAURATON GmbH & Co. KG accepts no liability regarding the full accuracy and completeness of the data/content within this document.

Since it is at the auditor's discretion whether and how HAURATON's products are considered regarding their environmental impact (in the auditing process), HAURATON GmbH & Co. KG assumes no liability whether/how/to what extent the environmental information presented in this document (regarding HAURATON products) is considered or evaluated by the auditor. Please note that our products' respective contribution to some BREEAM credit points also depends on the type of planning and execution of the specific project being designed in conjunction with the BREEAM rating system.

HAURATON reserves the right to make changes to products, system designs and company information without notice.