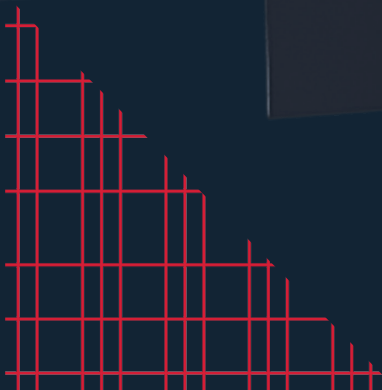
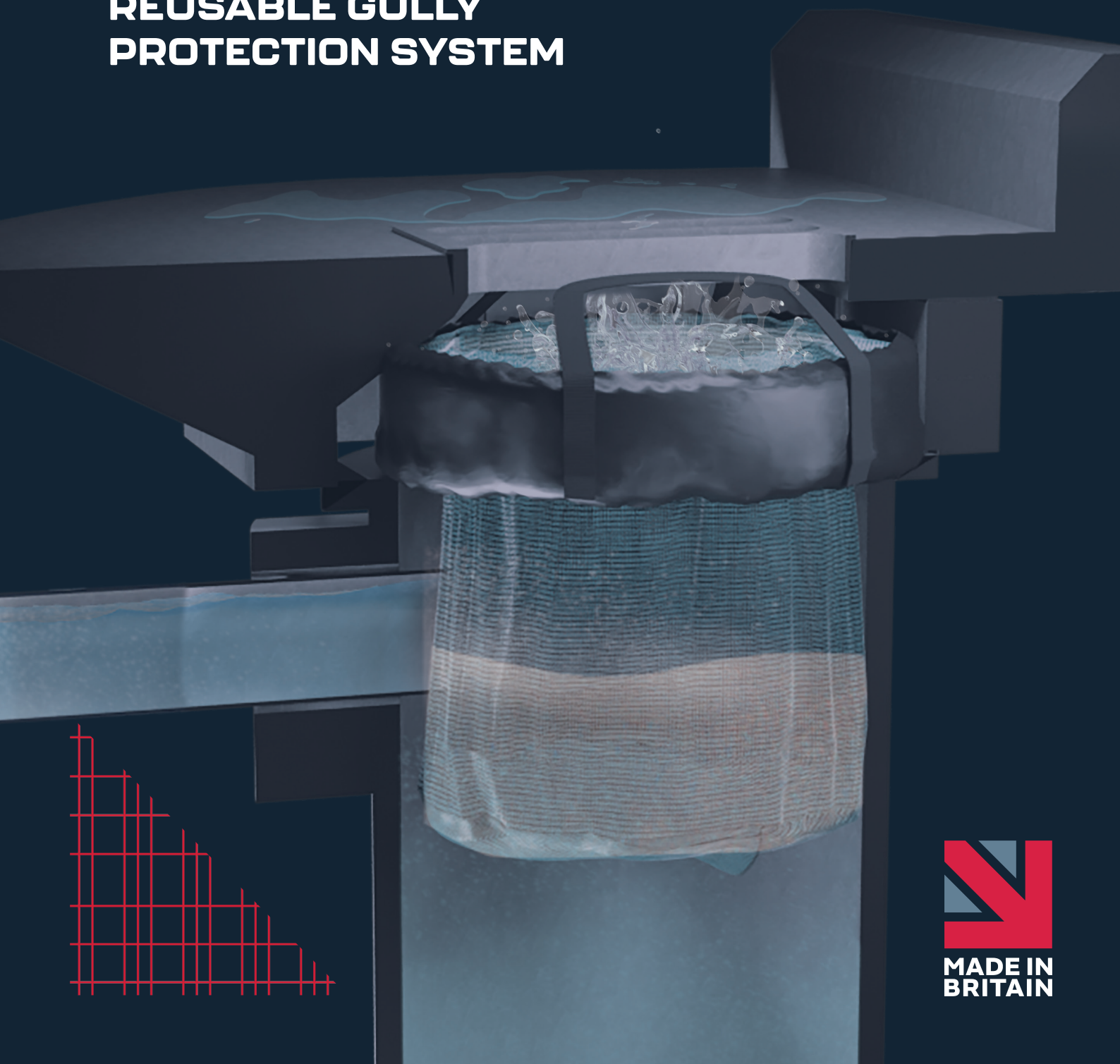




DRAIN DEFENDER®

**REUSABLE GULLY
PROTECTION SYSTEM**





DRAIN DEFENDER®

REUSABLE GULLY PROTECTION SYSTEM

The R&B Drain Defender is a revolutionary gully protection system which is designed to be reused again and again.

Specifically made to meet and exceed sustainability targets on construction sites, as well as reduce the risk of expensive remedial gully work, the Drain Defender effectively captures silt, debris, general waste and hydrocarbons without reducing the flow rate.



NO REDUCTION IN FLOW RATE

The Drain Defender increases sediment retention to 100% on materials, over 2mm without reducing water flow rate.



ENVIRONMENTALLY FRIENDLY

Manufactured in the UK using recycled materials the Drain Defender is fully reusable and can be transferred from site to site for continuous use with little maintenance.



PROTECTS WATERWAYS

The Drain Defender collects silt, hydrocarbons and other debris before it reaches the waterways, reducing the need for expensive repeat drainage works and helping to reduce water pollution and protect the environment.



HEAVY INDUSTRY APPLICATIONS

The Drain Defender is specifically designed to handle heavy duty industry applications such as house building, civil engineering and road construction. Whilst being durable, the Drain Defender is also lightweight, weighing just 1kg, meaning no specialist equipment is required for installation.

1

WATER ENTERS

Water, construction run-off and debris enters the gully as usual.

2

DEBRIS AND HYDROCARBONS ARE FILTERED

Debris, silt and harmful hydrocarbons are captured by the Drain Defender.

3

CLEAN WATER PASSES THROUGH

Remaining water moves through into the drainage system without any reduction in flow rate.

ENVIRONMENTALLY FRIENDLY BY DESIGN

HYDROCARBON FILTRATION TECHNOLOGY

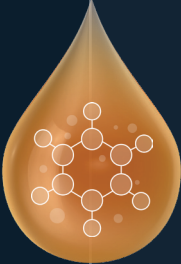
Hydrocarbons are emitted from plant equipment as well as various chemicals commonly used in construction, such as adhesives and lubricants.

That's why the R&B Drain Defender has a unique hydrocarbon filter, which catches toxic hydrocarbons, preventing them from being washed into the water system, protecting the vital aquatic ecosystem.

WHAT IS A HYDROCARBON?

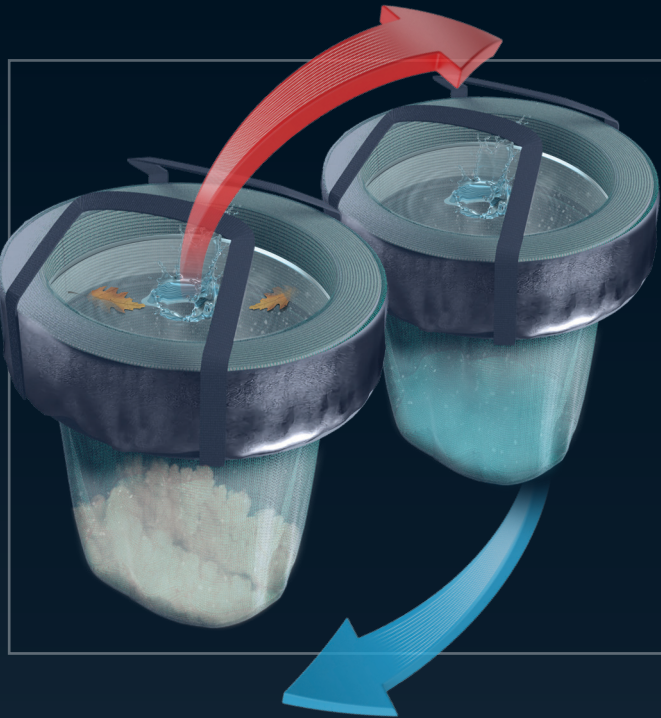
Hydrocarbons are toxic, carcinogenic compounds that are known to cause mutations and deformities in aquatic organisms and affect their ability to reproduce, which can cause devastating effects on ecosystems.*

*Source: 'Road runoff and the water environment' - CIWEM (May, 2024)



SEDIMENT CAPTURE

PERCENTAGE RETENTION	72%	100%	100%	100%	100%
PARTICLE SIZE (MM)	0-1	2	4	5.6	9.5



FEATURING A UNIQUE REUSABLE DESIGN

The Drain Defender is the only gully protector on the market which is reusable, with a replaceable hydrocarbon filter, making it more cost effective and environmentally friendly than competitors over its lifetime.

DESIGNED FOR DEMANDING INDUSTRIES



HOUSE BUILDING



CIVIL ENGINEERING



COMMERCIAL CONSTRUCTION



LARGE-SCALE BUILDING PROJECTS



ROAD CONSTRUCTION



GENERAL CONSTRUCTION

HEAVY DUTY DESIGN WITH MINIMAL LOSS IN FLOW RATE

The Drain defender has been developed using specialist technical woven netting designed to capture up to 100% of silt and debris over 2mm, whilst also retaining high percentages of fine sediment without any detrimental impact on water flow.

You can rely on Drain Defender to protect drains and gullies from blockages even during the most heavy downpours.



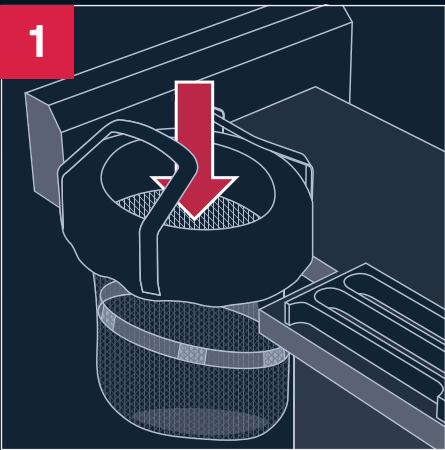
INDEPENDENT FLOW TESTING

ROAD GULLY ONLY		ROAD GULLY W/ DRAIN DEFENDER	
FLOW L/S	WATER LEVEL MM ABOVE OUTLET INVERT	FLOW L/S	WATER LEVEL MM ABOVE OUTLET INVERT
0.0	0	0.0	0
0.5	40	0.5	NR
1.0	50	1.0	50
1.5	62	1.5	70
2.0	65	2.0	70
3.0	75	3.0	78
5.0	85	5.0	90
7.5	112	7.5	110
10.0	120	10.0	123
12.5	160	-	NR
-	NR	13.0	175
15.0	242	15.0	244.5
16.5	250	16.5	OVERTOPPING
17.0	OVERTOPPING	17.0	OVERTOPPING

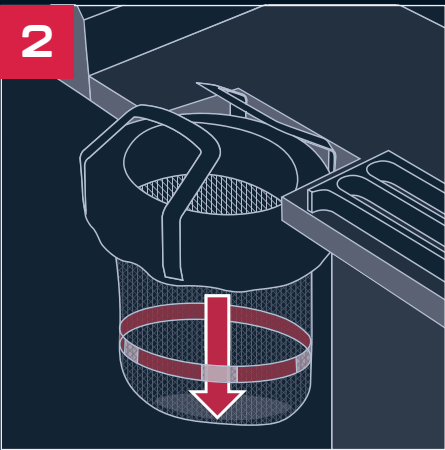
Testing conducted by the Water Research Centre

Full test data available on request

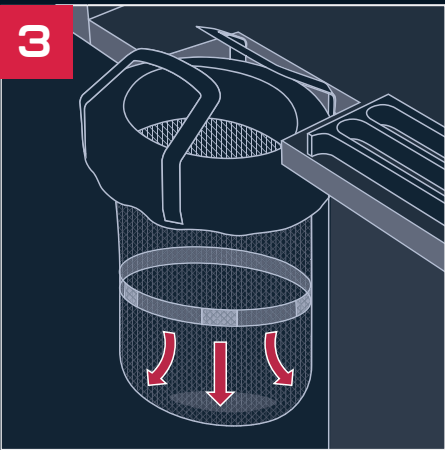
SIMPLE TO INSTALL AND REPLACE



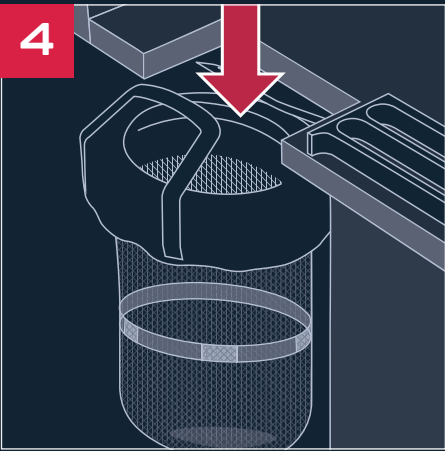
Remove grating and lower Drain Defender into position.



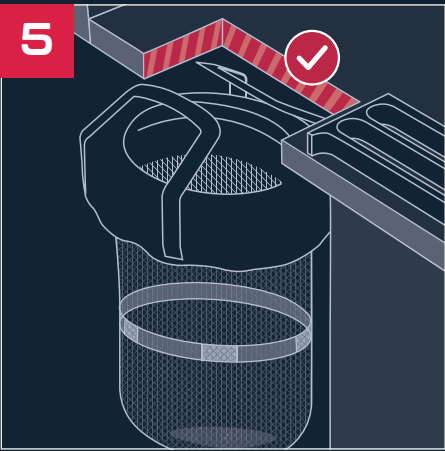
Push Drain Defender firmly into gully.



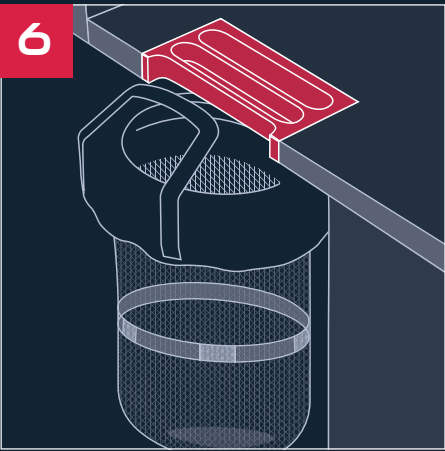
Push base of the Drain Defender down, extending the bag to its maximum.



Push the top ring securely down into the gully pot ensuring full contact around all sides.



Ensure Drain Defender is sat below the frame of the gully grating and does not interfere with grating operation.



Replace grating ensuring no part of the Drain Defender is interfering with the seatings. Remove and clean at regular intervals.

USAGE AND MAINTENANCE

- When removing the gully grating, ensure it is left in a safe position.
- When removing the drain defender, be sure to lift it straight upwards slowly and carefully to allow excess water to drain away.
- If desired, the Drain Defender can be lowered into the gully using a hooked strap or a crow bar.
- We recommend wearing appropriate PPE such as gloves and eye protection during operation.
- Before installation, please adhere to all site manual handling requirements and ensure appropriate risk assessments have been carried out.
- MAX SAFE LIFTING CAPACITY 25kgs**



To see the full range of R&B products
please visit randb-uk.com