gulliblok™

PROTECTS YOUR GULLY **FULLY**

PRODUCT BROCHURE

FEB 23

GBPB/3/23/4

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ECO - FRIENDLY | NO PLANT OR LIFTING EQUIPMENT REQUIRED | LIGHTWEIGHT, QUICK & EASY TO INSTALL | 50 YEAR+ DESIGN LIFE | MADE IN THE UK

PRODUCT CODE: GB6053

INTRODUCTION

Gulliblok is a unique, eco friendly and completely sustainable product that prevents Silt and Solids migrating into the watercourse via road gullies during both construction and post construction stages. It can prevent up to 99% of Silt and TSS (Total Suspended Solids) from entering the surface-water drainage system via the road gully and significantly reduces the potential of a pollution incident to the downstream watercourse.

APPLICATION

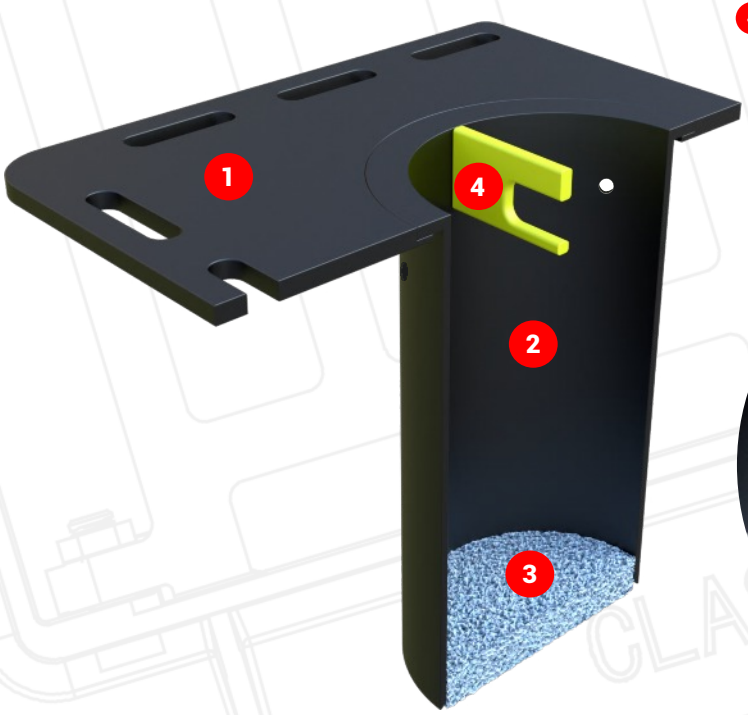
Designed specifically for housing estate roads and installed within 900mm x 450mm road gullies the Gulliblok is retained in situ during the construction phase. Once the roads are to be adopted the GULLIBLOK can be removed and re used on other sites.

PRODUCT SPECIFICATION

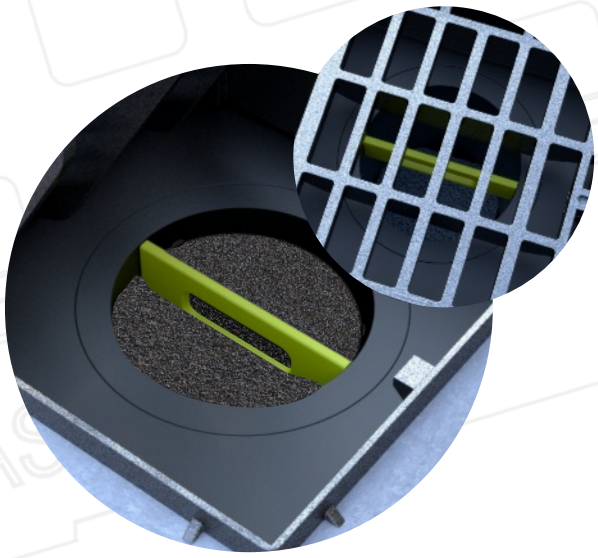
1. **LOCATION PLATE - Product Code GB6053LP**
   Manufactured from recyclable polyethylene which is extremely durable and resistant to chemicals and hydrocarbons.
   Product Weight - 3.25kg

2. **FILTER BASKET - Product Code GB6053FB**
   Also manufactured from recyclable polyethylene the basket is seated into the location plate and sits flush with the plate. At the top of the basket there are four Ø15mm overflow ports that prevent the water level from sitting above the baskets handle, which needs to be visible at all times.
   Product Weight:
   Empty - **4.25kg**
   Completely full - **24kg**

3. **SILTBLOK FILTER**
   The SILTBLOK filter is manufactured from 100% post consumer plastic waste which has been tested and proven to remove Silt and TSS up to 99%.



4. The GULLIBLOK's bright yellow handle can be clearly seen through the gully grate. This acts as a level marker. When the silt and debris reaches the bottom part of the handle, this will indicate that the basket needs emptying. The basket is easily lifted out for emptying and then replaced for continued use.



GULLIBLOK has been designed for use with all UK gully grates and frames that are installed over 900mm x 450mm diameter road gullies.

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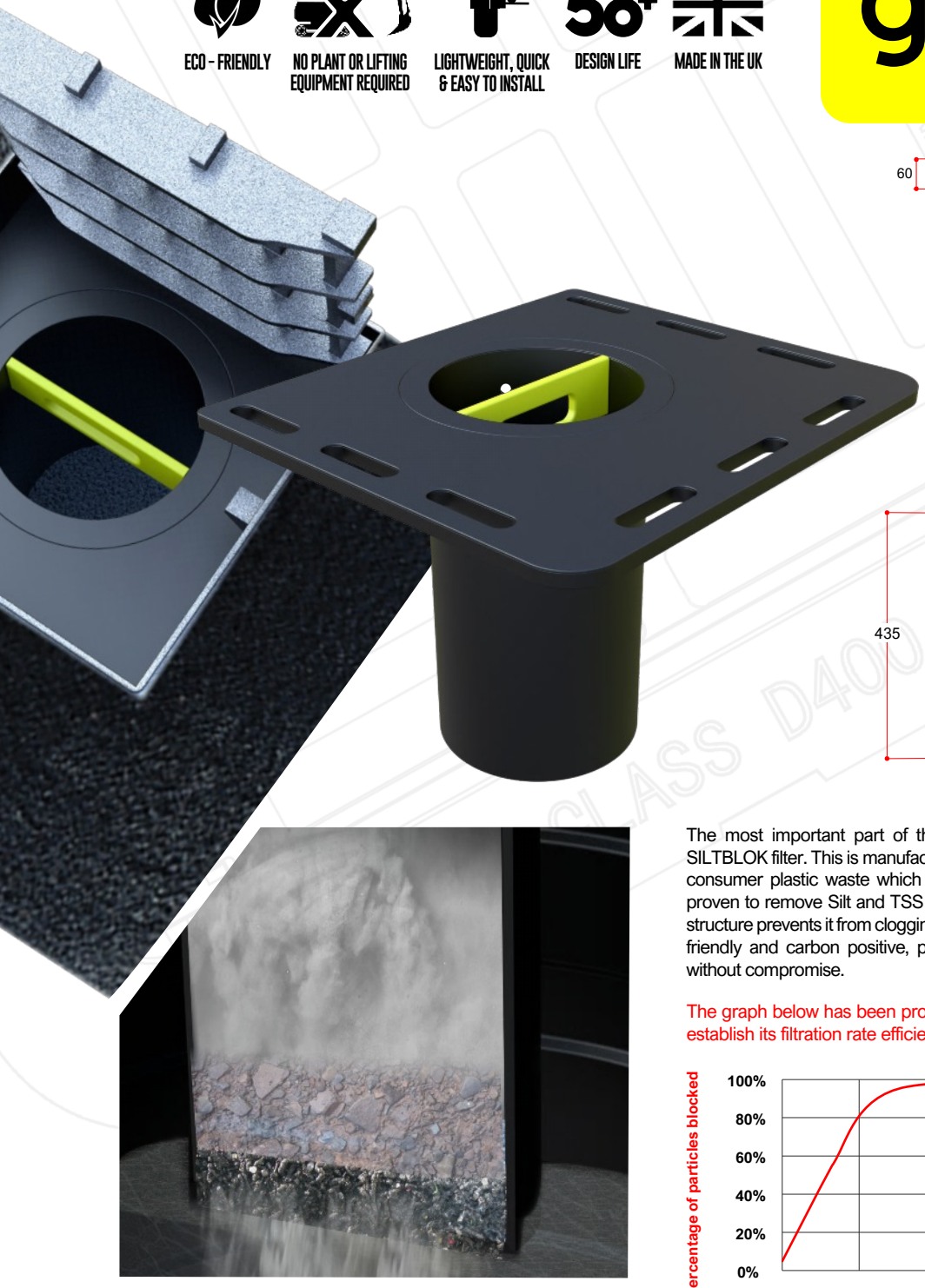
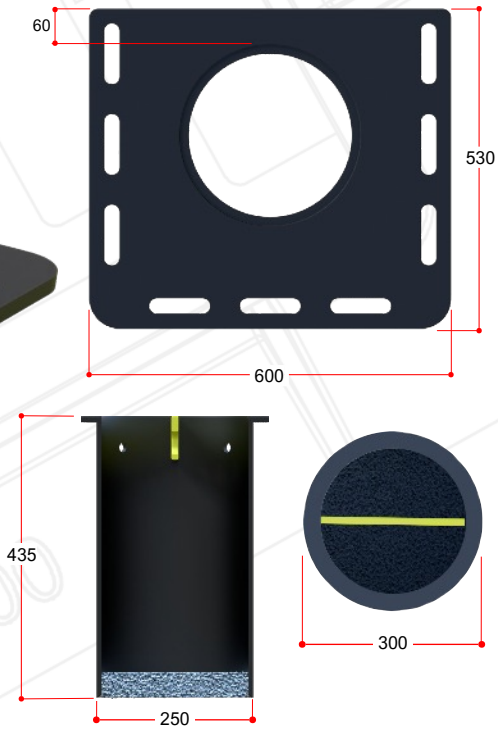
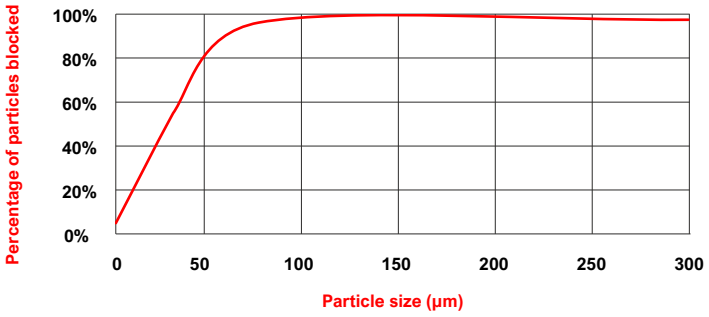




The most important part of the GULLIBLOK is its SILTBLOK filter. This is manufactured from 100% post consumer plastic waste which has been tested and proven to remove Silt and TSS up to 99%. Its unique structure prevents it from clogging. It is environmentally friendly and carbon positive, providing sustainability without compromise.

The graph below has been produced from extensive testing of SILTBLOK to establish its filtration rate efficiency, both in short-term and long-term use.



MITIGATION

Event mean concentration (EMC) refers to a flow-weighted average concentration in the whole process of a rainfall-runoff event, defined as the total pollution load mass divided by the total run off volume.

The rainfall peak is based on 40mm/hr (once a year event).

EMC (Event Mean Concentration Values)	**TSS** Total Suspended Solids (mg/l) or PPM
Commercial Areas	7.8 to 270
Car Parks	7.8 to 270
High Density Residential	55 to 1568
Low Density Residential	10 to 300
Urban Roads	**11 to 5400**
Highways	11 to 5400

PERFORMANCE

SILTBLOK removes particles from the discharged water through acting as a brake to disrupt the particle velocity and drop them out of suspension. For particles above 75µm the planks will generally remove around 95% particles on first use and improve towards 99% as the product is used and silts up. Below 75µm the planks will reduce the silts 50-70% depending on concentration. Each GULLIBLOK unit is designed to drain a surface area between 80 to 120 sq dependent on the surface finish of the road.

Important note: Although the GULLIBLOK's filter is very efficient the rate of filtration will be dependent on the type of material that enters and is retained within the basket, above the filter. **For example**: Heavy soils can filter 300 to 400 times slower than the SILTBLOK filter, so if the filter basket is laden with these types of materials, to prevent the gully from totally flooding over the grating, we have introduced a series of overflow ports, which will allow secondary surface water to pass into gully freely.

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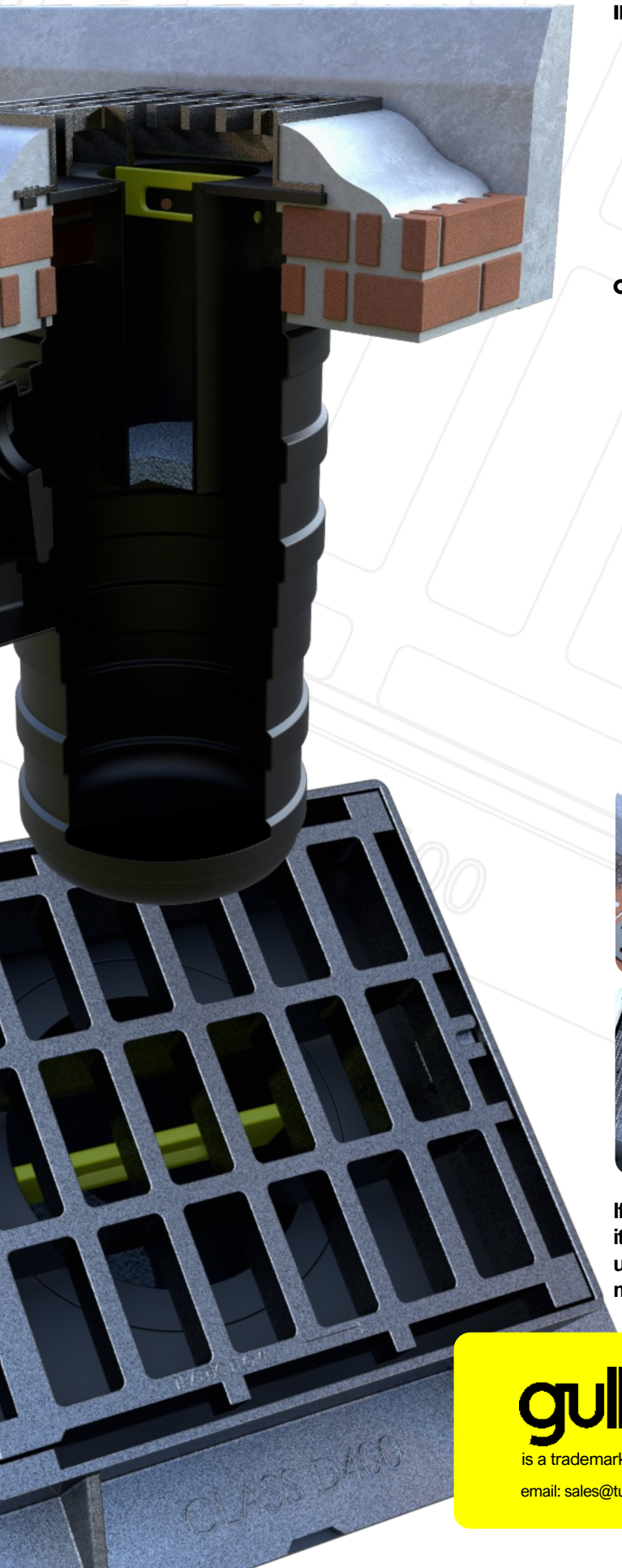

INSTALLATION

- The GULLIBLOK location plate has been designed to be installed under the gratings frame. In the centre of the location plate is the seat where the filter basket is located. The recessed seat allows the filter basket to fit flush with the top of the location plate, ensuring an unobstructed flow.
- Once the location plate is in the correct position, over the gully, simply bed it in with concrete. Then sit the grate and frame onto the concrete bed and position the frame such that you ensure the filter basket can be removed without restriction.
- If installed correctly the filter basket should be able to be removed easily for emptying when the grating is open.

OPERATION & MAINTENANCE

- The GULLIBLOK is, as the name suggests, designed to block silts and debris and prevent them from passing into the downstream watercourse via the gully. So it is imperative that you regularly check the levels in the basket and it needs to be cleaned out as soon as the basket reaches its optimum level, which is to the bottom of the handle. The handle is bright yellow, so can be clearly seen through the gully grating.
- After emptying the basket, we recommend you also clean the filter, any ingrained dirt can be washed off using a standard hose, (as illustrated below). Once the basket and filter are cleaned, then the filter basket can be reseated. Ensure that the baskets seat within the location plate is also cleaned off and free of debris and dirt before relocating.
- Dependant on the location of the gully and the types of materials in the run off from the surface areas on site, some GULLIBLOK's will need to be emptied frequently, even daily in some instances. So we prescribe a formal maintenance schedule is put in place during the construction phase.
- Once the site roads are ready to be finished you have the choice to either remove the GULLIBLOK (when the gratings are taken off to adjust the roads height to the finished level) or you can keep the GULLIBLOK and replace it to the new level, providing the site with a long term and sustainable pollution control solution.

If you chose to remove the GULLIBLOK after the construction phase it has been designed so that with due care and attention, it can be re used time and time again and will continue to perform effectively for many, many years.

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