



New Ironmaster Product



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Proteus Gully from Ironmaster®

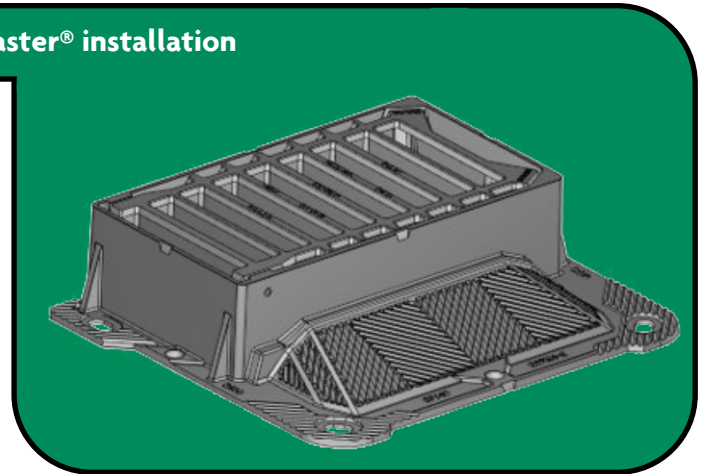
Innovative new narrow profile gully

Designed to be installed with the proprietary Ironmaster® installation

The new, innovative Proteus Gully, installed using the proprietary Ironmaster system, is a solution to gully failure caused by consistent clipping from traffic especially HGV's and buses.

The Proteus Gully has a narrow grate which reduces the amount of frame and cover which is in the wheel track, reducing clipping occurrences thereby improving ironwork longevity, whilst retaining the waterway area specified under HA104/09 part 5.

The base plate is designed to match the size of an existing 450mm gully enabling a straight forward replacement using the Ironmaster system.

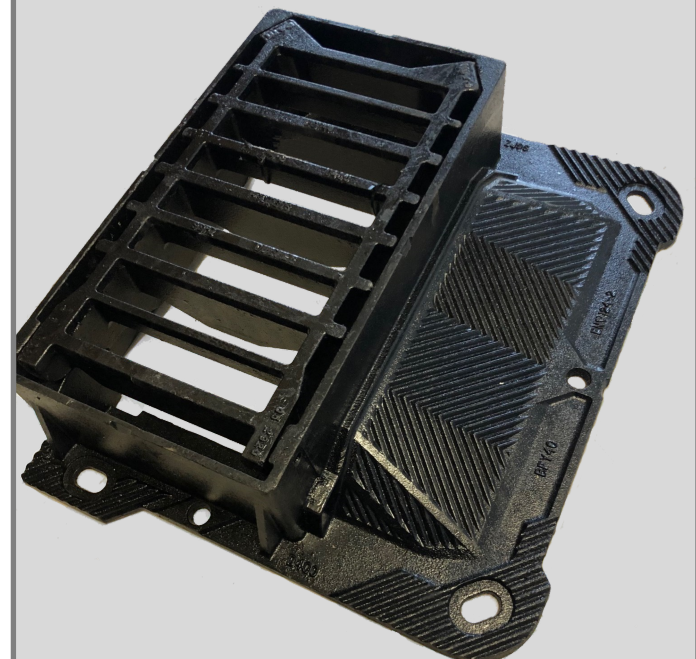


The novel design moves the grating out of the wheel track, protecting it from HGV clipping, while retaining the same base plate footprint as the original gully

Facts & Figures:

- **Narrow profile hinged gully grating**
- **Reduced overrun by traffic**
- **D400 class (type R)**
- **Minimum waterway area compliant**
- **Fits a standard 450mm gully base plate**
- **Fits a standard gully sucker**

Allows reuse of the buried gully pot, saving money and reducing tyre clipping occurrences on the gully top





New Proteus Gully



Why is there a need for the New Proteus Gully?

The Problem:

Vehicles generally travel with their wheels 300mm from the kerb edge so, a 450mm gully is regularly trafficked and clipped by passing vehicles.

This clipping, especially from HGV's, results in both dynamic & static load transfers passing through flexible pavement and rigid ironwork (the initial point of failure) resulting in premature break up of the bedding mortars.

The Solution:

The grating of the new Proteus gully is just 280mm from the kerb edge, reducing the frequency of vehicle tyres clipping the grate, which in turn reduces the stress where these conflicting materials meet.

The Design:

The result of the unique design, coupled with the Ironmaster® installation system is:

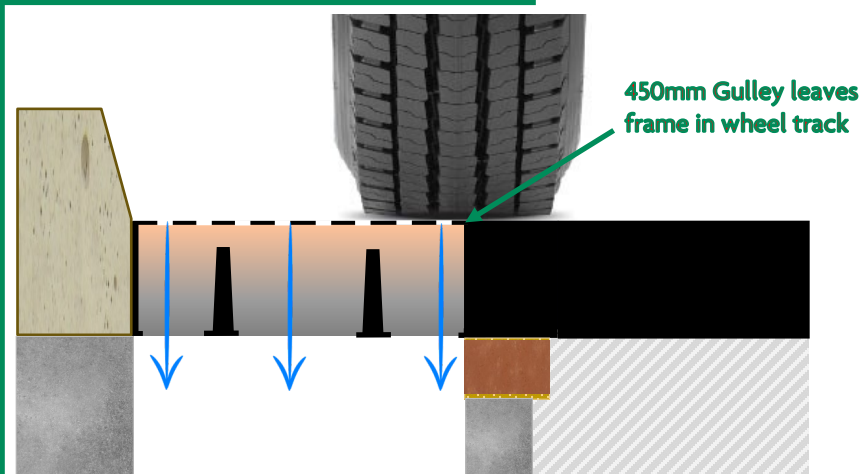
- Vehicles drive over the Ironmaster® flexible surface rather than the rigid gully top, allowing for a more even distribution of forces through the flexible surface.
- The bridge acts as a structural member to transfer loads evenly across the frame and into the gully pot
- Static downward load and dynamic forward load transferred from the grating to the Ironmaster® flexible fill and rigid mortars.

The result is improved longevity of the gully top.

Key design features:

The base plate of the new Proteus Gully matches that of a standard 450mm gully, so the Proteus gully top can be used on the old infrastructure (Gully & Gully Pot) without the need for extensive structural groundwork.

Standard 450mm Gully



New Proteus Gully

