

BURIED ASSET PROTECTION

OVERPIPEUK



Fisher German is the
UK distributor of Overpipe

OVERPIPEUK provide an economical, efficient and
environmentally friendly alternative to concrete slabs.



COMPANY BACKGROUND



OVERPIPEUK PLATES

A major innovation for safety of underground networks, covering:

- High, medium and low-pressure pipelines
- Electricity cables
- Fibre/telecoms cables
- Any other underground infrastructure that requires protection



With significant increases in the number of excavations being carried out each year, as our national infrastructure grows, the need to protect assets has increased as the cost of repair has escalated significantly.

In addition, health and safety arrangements have focused on safe digging activities and asset owners are encouraged to find and adopt best practice to safeguard those that work in and around their apparatus.

- OVERPIPE is a branch of the family-owned group. JOUBEAUX (founded 1988) and well known as a civil engineering contractor in France providing pipeline inspection and repair services.
- OVERPIPE was created because CEO, Yannick JOUBEAUX, was asked by his main client GAZ DE FRANCE, to develop new concepts for mechanical protection against third party activity.
- OVERPIPEUK was established and is run by Fisher German LLP.
- Fisher German LLP have 37 years of direct experience in pipeline damage risk mitigation, acting for most of the main onshore fuel, gas and chemical pipeline operators in the UK.
- OVERPIPE products are distributed in the UK and Ireland solely by OVERPIPEUK, who hold an exclusive distribution agreement with OVERPIPE.

APPLICATION

The OVERPIPE plates are specifically designed to protect buried assets against third party damage and offer a reliable, economic and environmentally friendly alternative to concrete slabs.

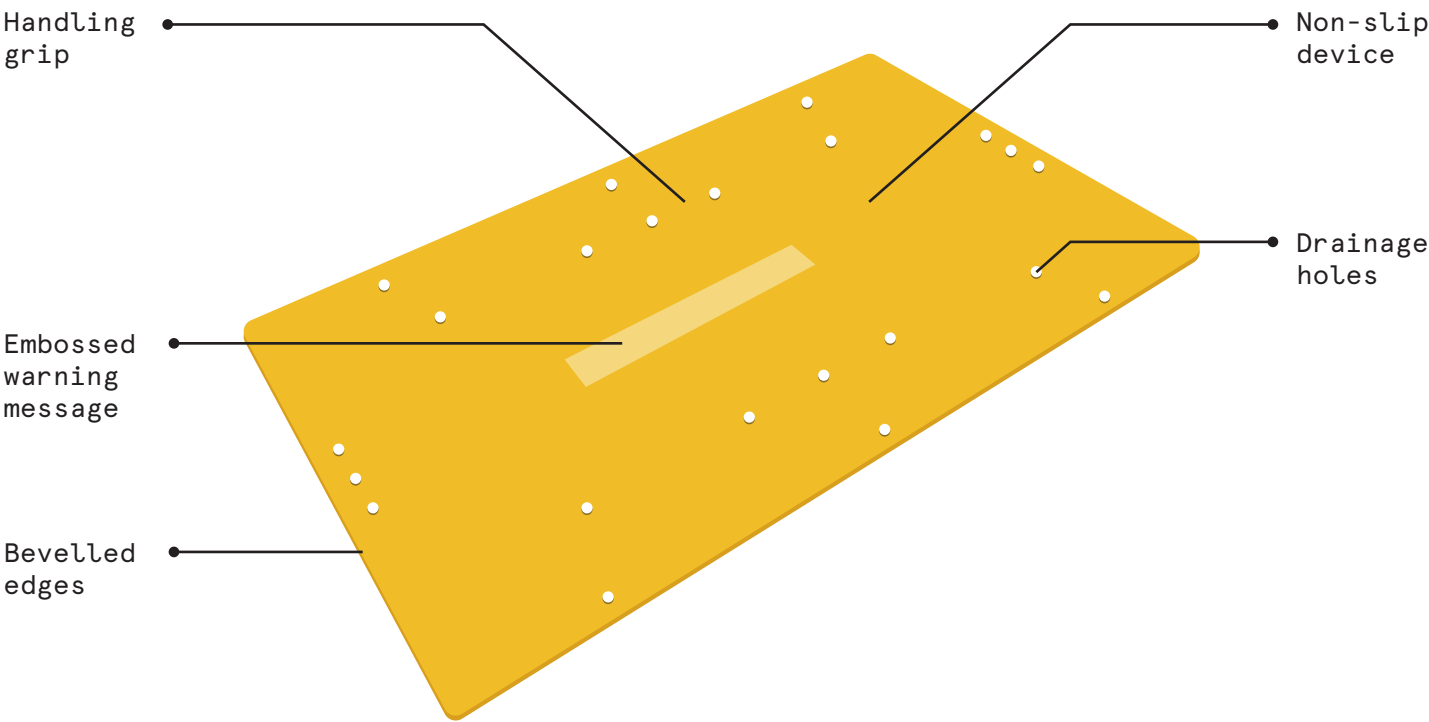
They were developed in collaboration with the research and development department of ENGIE. The plates are designed to resist the force of a 32-tonne excavator bucket and will therefore prevent the asset from damage. They act as a very efficient warning signal.

DESCRIPTION

The OVERPIPE plates are made of injected HDPE. They have dedicated features such as:

- Holes across the plates to allow for water drainage and not restrict the passage of cathodic protection signals used when locating the asset
- Bevelled edges and non-slip textured surface on both sides, to facilitate handling and prevent slips, trips and falls
- Coloured to provide an effective warning signal
- Fully customizable in colour and warning message
- 50-year life span and reusable
- Fully recyclable

WHY USE AN INJECTED HDPE PLATE?



SAFETY

Improved safety thanks to non-slip surface and bevelled edges. They are covered on both sides with a non-slip surface, to make them easier to handle and avoid slips, trips and falls.

SAFETY

The plates form a barrier against impact from the bucket of a 32-tonne excavator.

ERGONOMICS

Only two workers are required to install the plates and can be easily secured using connectors. The plates are designed to adapt to uneven terrains.

INNOVATIVE DESIGN

During the moulding process, holes are incorporated into the plates to aid water drainage, prevent pockets of gas forming in the case of a gas leak and to avoid disrupting cathodic protection signals.

APPEARANCE

Plates are coloured to provide an unmissable warning signal (colour can be personalised to the appropriate network).

INSPECTION

The plates can be removed to allow the protected asset to be inspected or repaired.

SPECIFICATION

DETAILS
To avoid the risk of slips, trips and falls, OVERPIPE plates have a non-slip system on both sides, formed during the moulding process. This is to ensure the safety of personnel during the handling and installation of the plates. It is also designed to prevent ground movement around the plates
The maximum weight of the OVERPIPE plates is 50 kilos, to allow its safe handling by two people
OVERPIPE plates have bevelled edges for better handling
OVERPIPE plates have an embossed and a fully customisable warning message
MATERIAL CHARACTERISTICS
Elongation at break: A% > 300% (ISO 527-2)
Modulus of longitudinal elasticity: E > 800MPa (ISO 527-2)
Choc Charpy: Kcv > 1.9J/cm2 (DIN ISO 179)
All polymeric materials used are virgin materials
The colour is yellow within the range RAL 1021 or RAL 1023. The appearance of the plate is uniform in colour and opacity. Colour can be amended to suit requirements
The material has an anti-UV treatment (6 months warranty)
GEOMETRIC CHARACTERISTICS
The thickness of the OVERPIPE plate is 15mm
The OVERPIPE plates are designed to allow the circulation of water, the electrical flow and the stability of the ground. The drainage holes have a diameter of 30mm and are distributed uniformly over the plate without impinging on the embossed warning message. The holes are made during the manufacturing process, without altering the mechanical strength properties of the plate.
MECHANICAL CHARACTERISTICS
The plates are manufactured using an injection process which guarantees all the characteristics above
The OVERPIPE plates have passed a Bureau Veritas certified mechanical strength test consisting of hitting the plate with a 32-tonne excavator equipped with a toothed bucket, from heights of both 30cm and 1m. The results were that the OVERPIPE plates had no cracks between the points of impact



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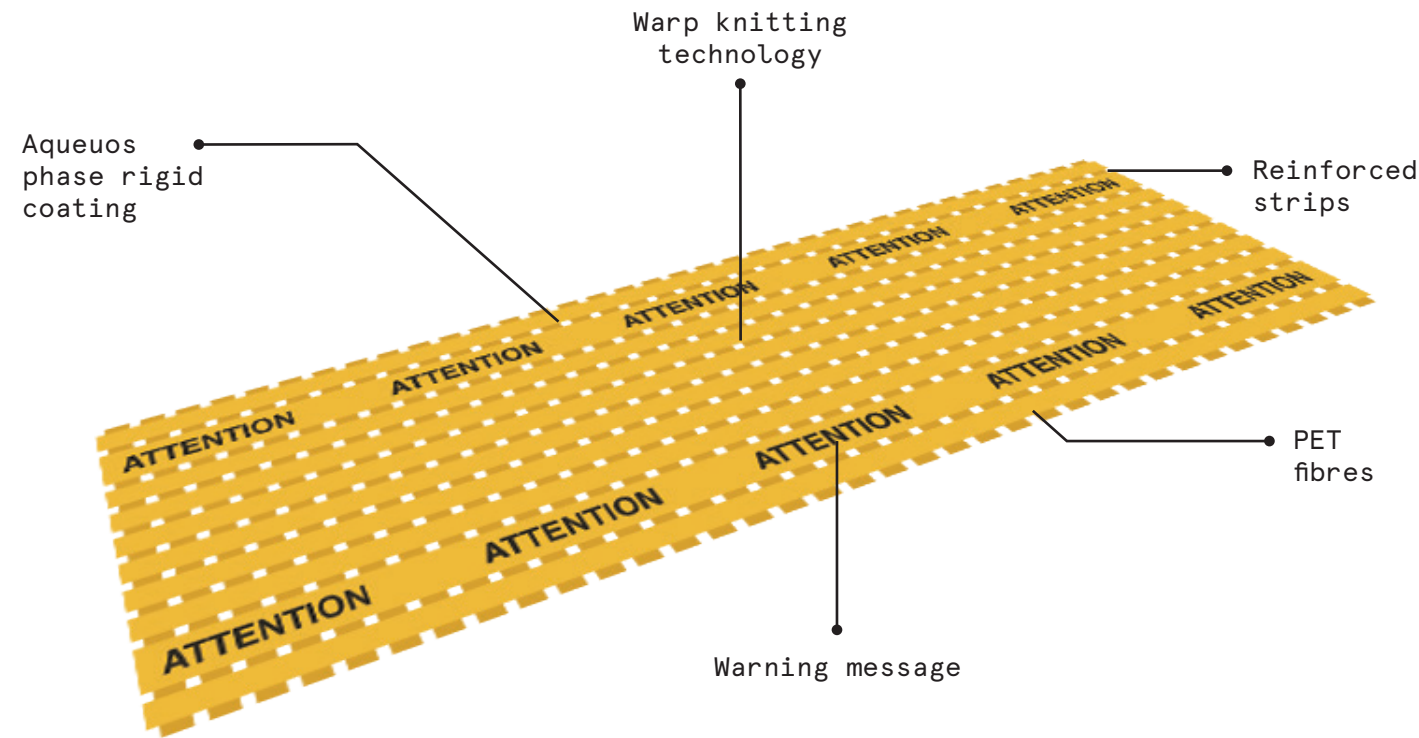
DESCRIPTION

The OVERPIPE warning mesh with high elastic resistance is a geotextile composed of synthetic PET fibres with an aqueous phase coating.

- If snagged by the bucket of a mechanical excavator, it can be raised 1m above the ground without tearing
- Withstands impact from an 18-tonne excavator
- Coloured to provide effective warning signals
- Reinforced strips on the edges increase the resistance against lateral impact
- The production method of warp knitting serves to reinforce the connections between warp and weft threads
- 50-year life span and reusable/recyclable



SPECIFICATION



RESISTANCE

The mesh is designed to keep its integrity when hit by an excavator. The mesh will warn the driver of the machine and effectively restrict the movement of the bucket.

WARNING MESSAGE

Fully customisable in colour and warning messages to correspond to the nature of the buried asset.

INSTALLATION

Manufactured 5 metres wide, it can be cut to the requested dimensions. This avoids any longitudinal overlap.

ENVIRONMENT

Made from PET fibres, with an aqueous coating, which allows the soil to breathe and support drainage.



Approved by:



OVERPIPEUK



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