



UTILITIES AND TELECOMS

SOLUTIONS



WHY WREKIN?





MAKE EVERY DAY BETTER

We are leading experts in the design, manufacture and supply of specialist products for the civil engineering sector, putting solutions at the heart of our business.

We have developed a strong reputation in the industry thanks to our skilled team's wealth of experience. We understand and can be involved in every step of an entire residential development, from the initial planning of the highways agreement to the installation of the solution.

More than 40 years of technical expertise and industry collaboration is behind our patented products that support the time-pressured utilities and telecoms sector, preventing the need for costly replacements - and

reinstallations - and putting an end to unexpected disruption.

Our success centres on our passion for civil engineering design, creating diverse ranges covering ductile iron manhole covers and gully grates, steel access covers, bespoke access systems, and geosynthetic solutions.

STANDARDS, ACCREDITATIONS AND MEMBERSHIPS





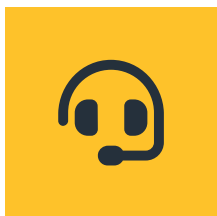
SUPPORTIVE TEAM

We offer exceptional technical expertise and customer support. Our team works with asset owners, developers, main contractors, ground workers and local authorities throughout a construction scheme's life cycle.

Working with us means you can access products you won't find anywhere else, which solve problems you probably

thought were unsolvable – all with the support of a team of professionals who are at the forefront of what they do.

We understand the challenges of large-scale construction projects in this dynamic and fast-paced sector and our experienced team is here to help.



INITIAL PROJECT SUPPORT

Listening and working with customers to fully understand their requirements. We provide pre-tender and tender support to lend a competitive edge.



PRODUCT SPECIFICATION

Our technical experts and value engineering service means that you have access to the best advice and support.



DESIGN SCHEMES

Our talented team provides full design services, with the added bonus of supporting documentation and drawings.



ADVICE AND SITE MEETINGS

We understand the value of regular site meetings to help improve communication, give installation advice and ensure each project is completed successfully.

WHO WE'VE WORKED WITH

Over the years our solutions have been used by many of the UK's key utilities and telecoms companies. Working together we have developed tried and tested systems and products that have helped to alleviate many common problems that cause setbacks, inconvenience and costs to be incurred.



EARL SHILTON TREATMENT WORKS

CASE STUDY

Wrekin Products was approached by Severn Trent's contractor to discuss the creation of site access and a proposed working platform to be installed at the sewage treatment works at Earl Shilton, south west of Leicester.

Wrekin's technical team proposed using a form of load spread analysis incorporating the use of E'GRID Biaxial geogrid. This meant the working platform thickness could be reduced by a further 40% compared to BR470.

Although the application area was not large, when operating in such confined spaces, the benefit was significant. Reducing the resources required can have a very positive impact on such a restricted site, not only reducing costs, but also minimising the contractor's construction programme and overheads.

“ The value-engineered solution provided by Wrekin Products cut our costs by 40%. We were very pleased with the savings made, but also the technical support and the professional levels of service provided. ”

Sam Harris,
MWH Global (Stantec)

Within a well-managed time-frame, the technical team was able to value engineer the traditional approach to working platform construction. With tight site constraints and limited resources, the impact on value engineering the temporary working platform was a 40% cost reduction, after an allowance for the cost of the geogrids.

Throughout the project, Wrekin assisted with the coordination of the proposals, collaborating with the full supply chain, which included Noble Works as the scheme designers and Stantec as the Tier 1 contractor.



DUCTILE IRON RANGES

Exciting new major road building and improvement projects are taking place throughout the UK, linking up our regions and supporting economic growth.

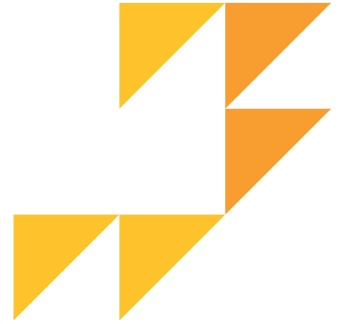
Investment is being made to remedy our infrastructure and to tackle the congestion in our cities, towns & villages and we are well positioned to offer unique solutions and innovations needed to spearhead the way.

MANHOLE COVERS AND GULLY GRATINGS

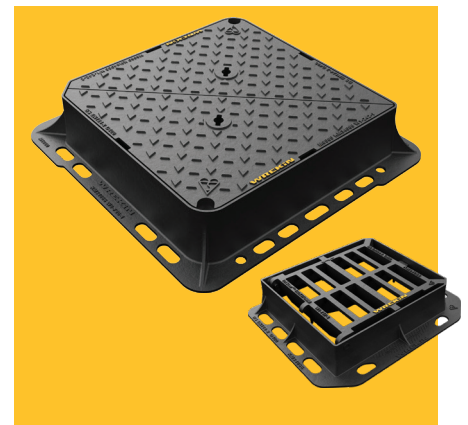
Manhole covers and gully grates are safety critical. With this in mind, we have developed products which incorporate features that help eliminate failure mechanisms, minimising safety issues and optimising installed life cost.

The vast majority of our manhole covers are manufactured from heavy duty ductile iron, offering durable strength and long-standing performance.

Our extensive ranges include single, double and triple rectangular, round and square to round manhole covers, including popular and less common sizes. Our products are certified by BSi to BS EN 124 and conform with CD 534, as well as many other industry specifications. Many carry the Kitemark, meaning our products offer a trusted solution.



Scan to see the full range online



UNITE

Unite is simply the best performing manhole cover and gully grate range on the market. Packed with features which combine to give Unite the longest life and the lowest whole life cost of any UK manhole cover in it's class.



wrekinproducts.com/unite

HIGHWAY

Highway is our most versatile range of manhole covers and gully grates, with a solution for every scenario, including the most complex projects. Its vast variety of options makes it the most extensive range of robust highway ironwork available in the UK.



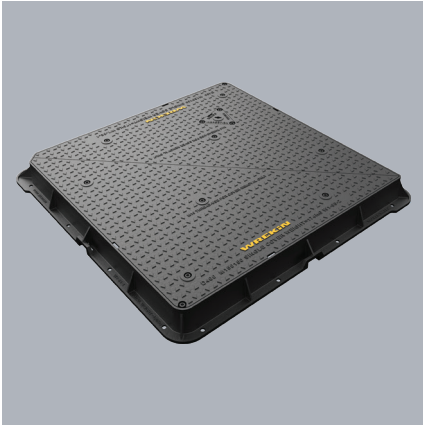
wrekinproducts.com/highway

TRISTAR

Our high-quality and compliant Tristar manhole covers, gully grates and surface boxes offer a competitive solution for groundworkers and specifiers. Ever popular, the Tristar range is the best-selling ductile ironwork range of products in the UK.



wrekinproducts.com/tristar

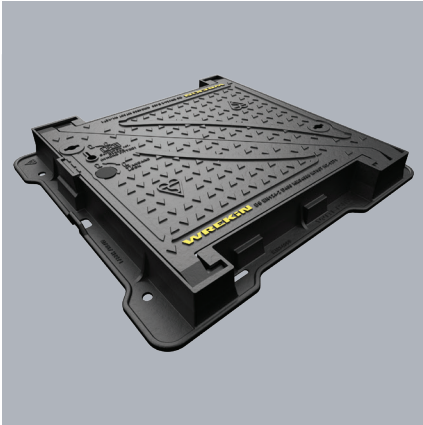


HERCULES

The ideal solution for scenarios that require extra-large D400, Group 4 manhole covers. Manufactured to BS EN 124 together with CD534-compliant skid resistance for high risk locations, Hercules offers a cost effective alternative to large-fabricated steel solutions.



wrekinproducts.com/hercules



VAULT

Vault secure access covers are commonly used on motorways to secure valuable communication assets. Designed to meet the requirements of CD 534, the Vault range exceeds BS EN 124:2015 D400 requirements and includes a unique hinge system which fixes the covers in an upright position for safe and simple operation.



wrekinproducts.com/vault

OUTSTANDING SERVICE

“ We have worked in partnership with Wrekin for many years, **developing new products to our needs**. The relationships are very important to us – they enable us to **deliver excellent service** to our customers. We look forward to continuing to work with Wrekin for many years to come. ”

Caroline Chapman,
Thames Water



Our Wrekin teams are committed to delivering an outstanding service – using their expertise and experience to partner with utility and telecoms companies to understand the unique challenges they face, such as the ongoing need for products to perform well over a long period of time.

We know that time and money is at a premium, which is why we're constantly pushing ourselves to create new, innovative and long-lasting solutions to the everyday problems that come up – providing security and peace of mind.



PARTNERSHIP WITH THAMES WATER

One of our most successful partnerships is with Thames Water, which was experiencing problems with the lifespan of its manhole covers on some of London's busiest and most demanding routes.

With approximately 1.2 million manhole covers across 67,000km of sewers, Thames Water required a solution that is proven to last and easy to install – and that came in the form of our outstanding Unite manhole cover, putting an end to failing iron products, which had resulted in many temporary road closures, which come at a significant cost. We have now supplied more than 100,000 units to the company without one recorded failure over a 18-year period.



UNITE™ D400 & E600 MANHOLE COVERS

Simply the best performing manhole cover range available. The unique features designed into Unite combine to give it an exceptionally long life and low whole-life cost. Designed and manufactured to exceed BS EN 124 and Highways England's Design Manual for Roads and bridges (DMRB) specification CD 534 v0.1.0 (formerly HA 104/09), MCHW and Series 500.



ENGINEERED FOR AN EXCEPTIONALLY LONG LIFE:

- Unite has over 20 years and 500,000 installations with zero reported failures
- A unique cover design substantially reduces seat wear
- Frame features that are sympathetic to bedding materials
- Fully compliant with BS EN 124
- Complies with CD 534 v0.1.0 (formerly HA 104/09), DMRB, MCHW and Series 500.
- Kitemarked by BSI
- 100% recyclable product



TEXTURED FLANGE SURFACE

Fit and forget

Both the top and bottom of the flange surface provide a textured finish for bedding mortar to adhere to, allowing Unite to utilise not just the adhesive qualities, but also the mechanical properties of bedding mortar. We also built in a round edged frame as standard to prevent sharp edges from cutting into and breaking mortar away over time.

SEAL PLATES

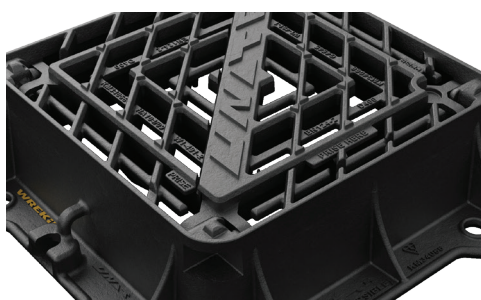
Retrofit as standard

Low leak and No leak seal plates can be retrofitted to the Unite range as an optional extra. This enables contractors to simply return to an installation and install the required sealing plate with minimal disruption and inconvenience.

Unite provides a simple solution to reduce the impact of foul waste and surface water entering storm drains.



Yellow colour for emphasis only, final product is black.



GULLY GRATES

Maximum volume

Our premium Unite D400 gully grate combines new technology with proven features to deliver a super long-life and the lowest whole-life cost of any D400 gully grate. The inclusion of a lower secondary grid promotes pedestrian and cycle safety whilst disrupting surface water flow to maximise the volume evacuated. The three-way hinge design enables it to be installed in any orientation and optional safety stays resist uncontrolled closing.

BESPOKE MANHOLE COVERS

Alongside our standard manhole cover ranges, we also offer bespoke designs. We have been lucky enough to work on amazing projects such as the iconic LGBTQ+ access cover with Thames Water, and commemorative covers for Abbey Road and the Whitechapel fatberg amongst others.

Whether you are looking for subtly to disguise your access cover, or something extravagant to shine proud and celebrate we are able to help design and manufacture the perfect solution for you.



LGBTQ+

We created and installed the first ever commemorative access cover dedicated to the LGBTQ+ community. The revolutionary cover, which was created as part of a partnership between Wrekin and Thames Water, was designed to symbolise and immortalise the organisation's loyalty and commitment to increasing diversity on the streets of the UK.

SIDMOUTH AMPITHEATRE

We are proud to have created a bespoke decorative, steel manhole cover as part of a significant flood alleviation scheme in a stunning new amphitheatre setting in Sidmouth, Devon. The unique cover is the focal point of the new flood storage area which doubles as an outdoor performance and event space for the community.



STEEL ACCESS COVERS



Understanding and connecting services, complying to adopting standards and finding the right solutions can take time. We are at the forefront of utility and telecoms markets, working with adoption authorities daily – putting us in the perfect position to prevent any additional headaches. Combined with a range of compliant products and systems, working with our contract division saves time and money.

The range includes bespoke steel covers, including BT-approved access covers plus Sewers for Adoption (SfA) compliant headwall systems that are made to measure, with a full installation service available – offering a bespoke solution for contractors and housebuilders



BT APPROVED ACCESS COVERS

Our range of BT approved block paviour covers and frames are particularly suited to town centre developments, where replacement of existing service covers is required to facilitate infill of blocks or stone to match the surrounding area.

Individual lid sizes are reduced and incorporate a central lifting point and tapered cover side to provide a slide out feature which facilitates access by a single operative.

- ▶ Hot dipped galvanised for long life performance
- ▶ Slide out cover designed for easy removal
- ▶ Can be installed by a single person, providing labour cost savings



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Caroline Chapman, Wholesale Water



COMPOUNDS AND HAUL ROADS

The conventional approach to the design of temporary works can cause unnecessary congestion and inconvenience for residents and highway users. Understandably, contractors don't want to spend a large proportion of the project's time and money on these works, no matter their importance. As a result, the preliminary works need to be as cost and time effective as possible without impacting on solution performance or project scope. Luckily, value engineering the preliminary works can keep costs under control, while also accelerating the construction programme.



This is where value engineered geogrid solutions come to the fore. They can reduce the thickness of a haul road, compound or working platform, typically by 50%, resulting in substantially reduced construction cost and time. Along with significant cost reductions, geogrids improve site health and safety, accelerate construction timescales and reduce the project's overall environmental impact. The utilities and telecoms sector can greatly benefit from the value engineering expertise of Wrekin, allowing them to reduce costs and align with an always tight construction programme. In addition, the team provides concept designs free of charge.

If an engineering manager is engaged at the tender stage, the impact on the savings to reduce time and money can also assist a contractor in winning the tender. However, all isn't lost if engagement comes afterwards as savings can still be introduced.

Early engagement also means the geogrids can be manufactured to the exact width that the contractor needs, suiting the site-specific requirements and creating an even more cost-effective grid. Simply removing a longitudinal overlap in the geogrid layout can save a further 10% in product costs alone.




Solve issues with poor ground conditions using Wrekin geogrids.



ASSOCIATED PRODUCT SOLUTIONS

- ▶ E'GRID™ Biaxial Geogrids
- ▶ SX GRID™ Biaxial Geogrids
- ▶ Woven Geotextiles
- ▶ Nonwoven Geotextiles





Reduce the thickness of
a haul road, compound or
working platform by

50%

Wrekin's E'GRID biaxial
geogrid has provided cost
reductions of up to

40%



CASE STUDY

VIRGIN MEDIA

SOLVING VIRGIN MEDIA'S FAILING MANHOLE COVER ISSUE

Virgin Media were experiencing serious problems with a manhole cover situated in a bus lane on Essex Road in Islington.

The cover was directly in the wheel line of buses and causing a loud noise each time a vehicle passed over it. Complaints from local residents and business owners were escalating and relationships with the local authority were becoming strained.

Virgin Media had replaced the manhole cover 5 times in less than two years at a cost of £3,000 per time. Their contractor had used different manufacturers' D400 products and in one

replacement tried an E600 class cover. All of these failed within months of installation.

The local authority had even suggested abandoning the chamber and using a steel plate to cover it permanently. Each site visit, replacement and subsequent failure was leading to ever increasing tension and in some cases anger from local residents and business owners.





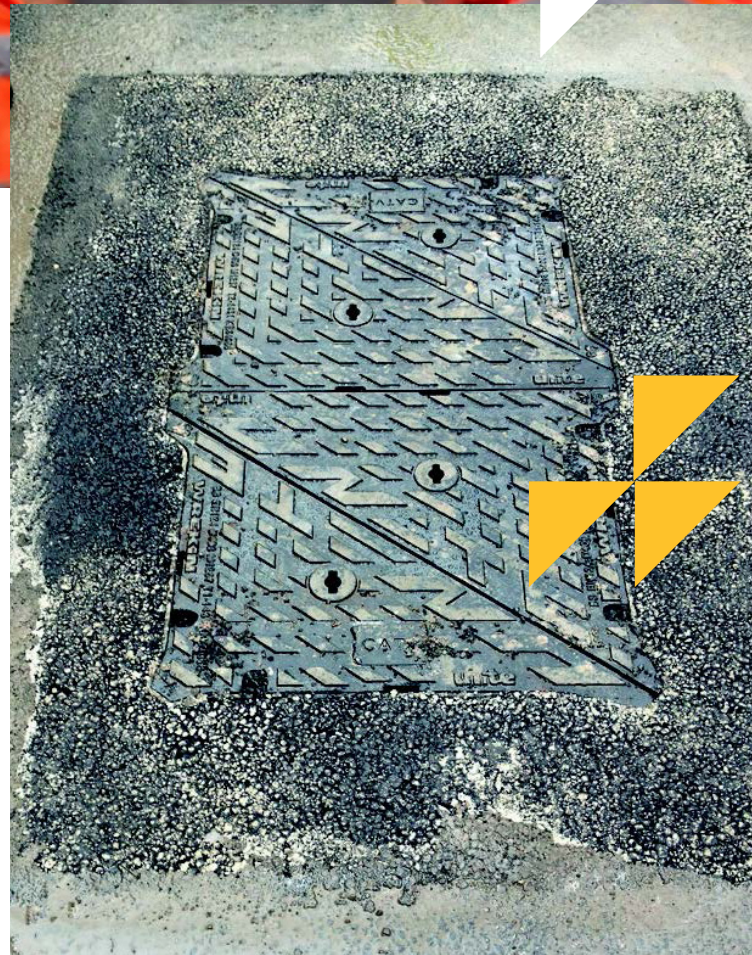
We proposed the use of our Unite™ manhole cover and frame together with the Unipak™ bedding system. The Unite manhole cover and frame system is designed to address the main modes of ironwork and installation failure and has proved it is worth with over 150,000 units installed in the past ten years. It is currently used by Thames Water, Yorkshire Water, Southern Water and many large contractors to address constant failure of inferior products.

Our Unipak bedding system consists of a polyester bedding mortar with unique slump characteristics, together with packing plates that are designed to work together with the mortar to provide a stable and durable base for the ironwork.

On site installation training was provided by us and the 1220x675mm Unite cover and frame were installed by Virgin Medias contractor, John Henry Group, with a minimum of fuss. The road was opened to traffic within two hours.

Since the Unite cover and frame have been in place, it has totally resolved the long running issue to the complete satisfaction of the local authority, local residents and business owners.

We were delighted to offer its unique 5 year warranty on the installation which has led to the Unite and Unipak systems being adopted by Virgin Media for all its cover replacement requirements.





All information in this brochure is subject to change without notice. While efforts have been made to make this brochure helpful and accurate, Wrekin Products Ltd. does not warrant the accuracy of information obtained from this brochure. Where errors or omission are brought to the attention of Wrekin, amendments will be made as quickly as possible.



Tel. 01543 440 440
Fax. 01543 440 444
Email. sales@wrekinproducts.com

wrekinproducts.com

UT0922

Wrekin Products Limited.
Unit 1a, Europa Way
Britannia Enterprise Park
Lichfield, Staffordshire
WS14 9TZ

