Product Brochure

Supplier to the industry since 1997
Plastech provides a dedicated approach to the supply of products for the construction, civil engineering and agricultural industries. The skills and experience of the management team and our extensive supply network enable us to offer one of the most comprehensive and diverse ranges of plastic products in the country.

From our strategically placed facilities, situated close to the Northern motorway networks, we offer nationwide coverage and can respond to the most demanding of schedules and specifications within hours.

We are pleased to work with the following trade associates:

- Why choose us?
  - Large stock holding
  - Fast deliveries
  - Specialist products on the ground
  - Friendly Service
  - Strategic depot network
  - Enthusiastic, highly motivated sales people
  - Competitive prices
  - No minimum order value
Specialist Ducting

Cable TV and CCTV

Class 1 Power Ducting

Special colours made to order

Perforated Gas Ducting

BT/Communications Ducting
Twin Wall Ducting

Twinwall ducting offers the advantages of a lightweight flexible product combined with high strength and durability. Both coils and lengths are designed to meet the required compression strength to current Highways specification and are supplied in various colours and markings to suit NJUG recommendations.

Manufactured in polyethylene, the external corrugated profile gives the product added strength and the internal bore is smooth to prevent cables from snagging. If required, a sealed joint may be achieved by using two profile seals and a push fit coupling.

Sizes below in MM
Supplied in 6mtr or 50mtr coils in sizes from 32/40mm to 600/680 diameter.
We can supply a wide range of marker tapes to display any required service. We can also supply detectable marker tape and marker tiles. We keep 6mm drawcord as standard in 220 mtr rolls and 500 mtr drums but other thicknesses are available on request.
Twinwall PVC Drainage Pipe
For adoptable sewer applications
150mm, 225mm & 300mm diameters
Suitable for adoptable foul and surface water sewers
Private foul and surface water applications

Twinwall PVC drain offers the following benefits over traditional materials.
• The flexibility to tolerate ground movement without damage, whilst withstanding the combined effects of backfill and loading
• Fewer joints to reduce the likelihood of leaks and blockages
• A high level of chemical resistance to the wide range of substances found in both effluent and contaminated soils
• A smooth bore gives good hydraulic performance
• WIS 4-35-01 certification for adoptable foul and surface water sewers.
Twinwall HDPE Drainage Pipe

For surface water, highway & carrier drain applications.

Twin Wall high density polyethylene pipe manufactured from 100% recycled plastic. The pipe is manufactured in a twin extrusion process, which forms two pipes, and heat welds them together as they are formed. The outside wall is corrugated whilst the inside wall is smooth.

Suitable for use in Civil Engineering, Agriculture and other subsoil applications. This pipe is available perforated, un-perforated and half perforated, which broadens the range of applications for which it is used.

• Lightweight (6 metre Lengths).
• Strong (Twin walled and corrugated).
• Smooth inner wall for increased flow capacity.
• Resistant to naturally occurring chemicals.
• Can be installed at depths from 0.5 to 10 metres.
• Full range of fittings available.
• BBA, HAPAS Roads & Bridges Agrément Cert No 02/H069.
• Reduced plant and labour costs.
• Faster installation, as 6 Metre lengths mean fewer joints.
• Elimination of waste compared to traditional pipe.
• Pipe can easily be cut on site.
• A full range of bends of all angles and both equal and unequal junctions in all diameters are also available.
• Road gullies and gully connection pipes are also available.
Corrugated & Coiled Land Drainage Pipe

To BS4962
Available from 60mm to 200mm diameters in various coil lengths
Available in polypropylene and PVCu

- Universally installed for sub-soil drainage over the past twenty years as a direct replacement for clay tiles.
- Corrugated plastic pipe systems have proven superior in flow performance and durability for all types of agricultural, leisure projects and land drainage.
- Installed using conventional open trenching or trenchless methods.
- All sizes available wrapped in fabric stocking for use in areas of fine, silty and sandy soils.
Underground PVCu Drainage Systems

Available in solid or perforated

PVC-u drainage systems to BS EN1401-1, produced in a diameter range from 82mm to 630mm.
**MDPE PE80 Service Pipes**

Available in 25mtr, 50mtr, 100mtr and 150mtr coils from 20mm to 63mm in diameter. Supplied in Light Blue for potable water, black for non-potable water and yellow for gas.

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**HPPE PE100 Distribution Pipes**

Available in 6mtr and 12mtr lengths as well as 50mtr and 100mtr coils ranging from 90mm to 1200mm. Supplied in Dark Blue for potable water, black for non-potable water and yellow for gas.

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Full range of compression and electrofusion fittings are available to suit all of the above products.
MDPE PE80 Barrier Service and Distribution Pipes

Available in 25mm to 355mm diameters for conveying potable water in brownfield/contaminated ground. Supplied in light Blue with a brown stripe.

Available in 50mtr Coils and 6mtr lengths.

PE barrier pipes have revolutionised the way we transport potable water through contaminated ground.

For over 15 years, water companies, contractors and self-lay organisations have been using barrier pipe systems to transport drinking water through contaminated land with complete confidence that it will maintain the quality and safety of the water supply.

Approvals
- Approved by the Secretary of State
- WRAS (complete system approved)
- WIS 4-32-19 (complete system is Kitemarked)
- BS 6572 (25mm-63mm pipes)
- WIS 4-32-17 (25mm-355mm pipes)
- BS EN 12201 (90mm-355mm pipes)
Titan Duct Access Chambers

Our best selling heavy duty chamber
D400 loading Multi-Purpose, inspection chamber
Designed to be extremely robust, versatile and flexible.

TITAN is suitable for a large range of applications including:

- Street Lighting And Traffic Signals
- Gas, Water And Electric
- Motorway Communications
- Airport Lighting
- Drainage Manholes
- Land Drainage Schemes - Silt Traps
- Landfill Sites - Leachate
- Gas Sampling Chambers
- Concrete backfill not required in most cases

TITAN BOX RANGE

<table>
<thead>
<tr>
<th>Model</th>
<th>Clear Opening</th>
<th>Section Depth</th>
<th>Load Rating</th>
</tr>
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<tbody>
<tr>
<td>Titan T3030</td>
<td>300mm x 300mm</td>
<td>150</td>
<td>D400</td>
</tr>
<tr>
<td>Titan T3045</td>
<td>300mm x 450mm</td>
<td>150</td>
<td>D400</td>
</tr>
<tr>
<td>Titan T4545</td>
<td>450mm x 450mm</td>
<td>150</td>
<td>D400</td>
</tr>
<tr>
<td>Titan T4560</td>
<td>450mm x 600mm</td>
<td>150</td>
<td>D400</td>
</tr>
<tr>
<td>Titan T6060</td>
<td>600mm x 600mm</td>
<td>150</td>
<td>D400</td>
</tr>
<tr>
<td>Titan T9060</td>
<td>900mm x 600mm</td>
<td>150</td>
<td>D400</td>
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<tr>
<td>Titan T4590</td>
<td>450mm x 900mm</td>
<td>150</td>
<td>D400</td>
</tr>
<tr>
<td>Titan T9090</td>
<td>900mm x 900mm</td>
<td>150</td>
<td>D400</td>
</tr>
</tbody>
</table>

Clear opening measurements are width x length

Larger sizes can be manufactured upon request
Premier Duct Access Chambers

Although it is aimed primarily at the Street Lighting and Traffic Signals industries, it is suitable for most applications where a duct access chamber is required.

<table>
<thead>
<tr>
<th>Model</th>
<th>Clear Opening</th>
<th>Section Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Premier P3030</td>
<td>300mm x 300mm</td>
<td>150</td>
</tr>
<tr>
<td>Premier P3045</td>
<td>300mm x 450mm</td>
<td>150</td>
</tr>
<tr>
<td>Premier P4545</td>
<td>450mm x 450mm</td>
<td>150</td>
</tr>
<tr>
<td>Premier P4560</td>
<td>450mm x 600mm</td>
<td>150</td>
</tr>
<tr>
<td>Premier P6060</td>
<td>600mm x 600mm</td>
<td>150</td>
</tr>
</tbody>
</table>

Clear opening measurements are width x length

The robust design means that the boxes are not prone to deformation whilst being backfilled with concrete, unlike some other systems on the market, giving the contractor and client peace of mind.

However, a Concrete backfill is not required in most cases.
Band Seals

We offer a full range of flexible couplings for the sewerage, drainage and plumbing industries to connect any types and sizes of pipes.

Band seal couplings are especially suitable for drains, sewers and underground pipelines. The extensive range connects pipes from 24mm to over 2000mm nominal size (DN), to other pipes of the same or different sizes and materials. Band-Seal flexible repair couplings consist of moulded synthetic elastomeric sleeves and stainless steel clamping bands. Standard Couplings also include a stainless steel shear band. A wide range of Bushes, Tools and End Caps complete the range.

Patch Repair Kits

Plastech provide a reliable and cost effective system for the permanent and watertight localised repair of sewers and drains by the No-Dig technique. By eliminating the need for costly and often disruptive excavation these Kits save the contractor time and money.
Gas and Electric Meter Boxes

**Built-in (flush fitted) Gas Meter Box**

The built-in gas meter box houses all domestic U6 and G4 meters and is designed to mirror the standard flush fitted electric meter box. This box is fully approved to National Grid Gas (Transco) specifications.

409mm wide x 595mm high x 210mm deep.

Brickwork opening size: 370mm x 530mm x 150mm.

**Surface mounted gas meter box Mk2**

Popular for use in conversions, or for when there is no cavity to build into, the surface mounted gas meter box can be used as a replacement cover for a broken meter box when the back plate is removed. This meter box is fully approved to National Grid Gas (Transco) specifications.

408mm wide x 503mm high x 224mm deep.

**Standard flush fitted (built-in) electric meter**

The most popular electric meter box, the standard flush fitted electric meter box houses any domestic electric meter and is designed to mirror the standard built-in gas meter box. With customer choice of cable entry positions this universal version can be used in any area of the UK.

Overall size: 409mm wide x 595mm high x 210mm deep.

Brickwork opening size: 365mm x 535mm x 150mm.

**Surface mounted electric meter box**

Used primarily for conversions where it is not appropriate to build into the wall.

Overall size: 400mm wide x 600mm high x 220mm deep.
Underground Tanks

**Septic tanks & Cesspools**

Septic tanks and cesspools are an economic and reliable solution for dwellings without mains drainage in applications ranging from single houses to large residential and commercial developments.

**Wastewater treatment**

Our range of wastewater treatment solutions cater for residential, commercial and utility applications. There are a number of options and sizes available for a wide range of flows and population needs.
Pump stations

We offer a comprehensive range of pump stations for diverse applications, from domestic installations to large-scale commercial or industrial sites. Utilising our design team and manufacturing capability, Pump stations can be made to exact customer specifications to meet precise needs and operating conditions.

Separators

Separators remove oil and liquid hydrocarbons from surface water run-off while aiding settlement of silt and other suspended solids to avoid pollution of receiving waters.

Rainwater harvesting

We can provide water recycling solutions to maximize water conservation.

We supply a complete range of residential and commercial solutions to green-build developers, builders and homeowners who want to add rainwater harvesting systems to their residential or commercial properties.

We offer rainwater harvesting systems to builders and owners of commercial properties such as schools, public and office buildings.
Geotextiles and Geosynthetic Membranes

Our range of geotextiles have excellent filtration properties, making them ideal for use in a variety of construction applications. Examples would include trench drains, wrapping of infiltration and attenuation units, wrapping of perforated drainage pipes and encapsulation of granular drainage blankets.

Non Woven White Geotextile

Our thermally bonded non woven geotextiles have been developed for separation and filtration in a wide range of groundworks applications and manufactured using a unique thermal bonding process. Used as a separation and filtration layer in applications for erosion control, attenuation units, horse arenas, trench drains etc. A variety of grades are available dependant on each application.

Woven Black Geotextile

Woven geotextile membranes are manufactured from extruded polypropylene tapes which are resistant to all naturally occurring soil acids and alkalis and is unaffected by bacteria and fungi. Its woven construction delivers high tensile strength, making it particularly suitable for use in separation layers. A variety of grades are available dependant on each application.

Geosynthetic Membranes

We offer a wide range of impermeable liners for wrapping modular water storage units/blocks, creating a watertight barrier to prevent storm water from filtering and saturating the surrounding ground. Geomembranes are now also widely used for the containment of liquids, solids and gases in a variety of construction applications such as stormwater control, lakes, ponds and reservoirs.
Ground Mats

**FirmGround** is a strong Versatile Interlocking ground mat, ideal for grass or gravel infill

- Specially designed to allow water to drain away, preventing grass from getting waterlogged and dying, whilst special pockets retain some water
- Simple Installation

<table>
<thead>
<tr>
<th>PRODUCT SPEC</th>
<th>FirmGround70</th>
<th>FirmGround48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>500x500x68mm (+0/-3%)</td>
<td>500x500x48mm (+0/-3%)</td>
</tr>
<tr>
<td>Coverage Rate</td>
<td>4 Blocks / m2</td>
<td>4 Blocks/m2</td>
</tr>
<tr>
<td>Unit Weight</td>
<td>1.8KG</td>
<td>1.2KG</td>
</tr>
<tr>
<td>Infiltration Rate</td>
<td>500cm/Hour</td>
<td>500cm/Hour</td>
</tr>
<tr>
<td>Run Off Coefficient Range</td>
<td>0.05-0.25</td>
<td>0.05-0.25</td>
</tr>
<tr>
<td>Infill Surface Area</td>
<td>&gt;90%</td>
<td>&gt;90%</td>
</tr>
<tr>
<td>Compressive Strength (filled)</td>
<td>2400 KN / m2</td>
<td>2000 KN/m2</td>
</tr>
</tbody>
</table>

Suitable for:
- Car parks & Hardstanding
- Footpaths & Verges
- Pedestrian areas
- Bridge Abutments
- Access Roads
Composite Covers

GRP non-slip access covers for ducted chamber systems. Suitable for installation on footways, in pedestrian areas and low traffic areas.

Available in a range of colours

- Red
- Blue
- Green
- Yellow
- Black
- White
- Purple

Designed with skid resistance tread to prevent slipping. The tread structure is engineered NOT to retain surface water for additional safety.

Capable of withstanding a 125kN load test

Applications:
- Street Lighting • Traffic Signals
- Telecommunications • CCTV • ANPR
- Cable Television • Valve Chambers
- Meter Chambers • Drainage Chambers
- Sewage Treatment Chambers
- Utility Services Networks • Railways
- General Construction
Covers and Frames

Available from stock in Ductile Iron, Cast Iron, Galvanised Steel, Stainless Steel & Composite Materials

- Manhole covers are available in both solid top and double triangular
- Gully Grates and Frames available in hinged and double triangular.

Loadings
A15
B125
C250
D400
E600
F900

Now available anti-theft composite gully grating
AquaCrate
Load-bearing underground water storage/attenuation system

**Product Features:**
- Can be used for water storage and for attenuation to prevent flooding
- Helps prevents peak flows to main drainage and purification systems
- Rainwater is cleaned by Geotextile surround
- Decreases inconvenience of flooding during heavy rain falls
- Promotes the balance in the groundwater position
- Decreases environment problems caused by development
- Easily installed.

**PRODUCT SPEC**

<table>
<thead>
<tr>
<th></th>
<th>AquaCrate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimension</strong></td>
<td>1000x1000x333mm</td>
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<tr>
<td><strong>Capacity</strong></td>
<td>333Litres(3per cu.meter)</td>
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<tr>
<td><strong>Unit Weight</strong></td>
<td>17.8kg (Standard) 15kg(Lite)</td>
</tr>
<tr>
<td><strong>Void Ratio</strong></td>
<td>94%(Standard) 95% (Lite)</td>
</tr>
<tr>
<td><strong>Compressive Strength</strong></td>
<td>400+KN/m^2(Standard) 200+KN/m^2(Lite)</td>
</tr>
</tbody>
</table>

Made in UK from recycled polypropylene
Channel Drainage

- A Multitude of widths and depths available to suit all solutions
- Manufactured from polymer concrete, concrete, glassfibre, reinforced polyester (GRP) and stainless steel
- Channel gratings available in GRP, galvanised steel, stainless steel, ductile iron and cast iron.
- Ranging from A15 to F900 loadings.