



MACRETE

PRECAST FOR INFRASTRUCTURE



Macrete Ireland Ltd is one of the UK's foremost precision precast concrete manufacturers. From our design and manufacturing facility in Northern Ireland the company supplies innovative bespoke products and structures to the construction industry's main contractors throughout Britain and Ireland. Since 1979 the company has developed sustainable long-term strategic partnerships with our client base and our range of reinforced and pre-stressed materials and bespoke coastal protection components can be found in many of the UK's most prestigious railway, civil engineering, water, utility, marine and sports stadia projects and schemes.







Our ethos of continuous product development and innovation has resulted in the company bringing to market a range of patented technologies such as the flexi arch bridge system, universal shaft linings and the vacuum-flush retention tank system. Since developing the flexi arch (pictured above) we have delivered more than sixty such structures across the UK and Ireland, and the system is also approved for Network Rail implementation.

Our contract history

Our previous experience indicates the skills and experience that we can bring to any contract.

Through early contract involvement with our customers we can benefit the overall scheme, for example:

- Cost savings can be achieved.
- Responsiveness can be increased through economies of scale and the availability of more resources.
- Increased capacity and expertise mean that more can be achieved for less.
- Waste can be reduced by better decision making.

By promoting a culture of honesty and integrity, through collaborative working processes we can assist both our customers and us in gaining a competitive advantage in the marketplace.

By developing a common understanding of our combined aims and objectives, we believe we can assist our customers in bringing innovation to the works that we would deliver together.

A comprehensive company contract history can be found at: **www.macrete.com**



A selection of our recently completed work...

UB55 – Headbolt Lane Station



As part of the overall scheme to open a new station at Headbolt Lane, Kirkby, Merseyside and facilitate the laying of additional track Macrete Ireland Ltd supplied precast concrete abutment hollow blocks, wing walls, coping walls and cill beams to the reconstruction of UB55 on behalf of Buckingham Group Contracting & Network Rail.

UB56 – Headbolt Lane Station



As part of the overall scheme to open a new station at Headbolt Lane, Kirkby, Merseyside and facilitate the laying of additional track Macrete Ireland Ltd supplied precast concrete robust kerbs pigmented black during the casting process to the reconstruction of UB56 on behalf of Buckingham Group Contracting & Network Rail.

Tallaght North Stand, Dublin



Macrete Ireland Ltd completed the manufacture, delivery and installation of the new North Stand at Shamrock Rovers FC ground in Tallaght, Dublin, comprising of terracing, raker beams, walls, stairs and other associated precast concrete components. Our involvement with this scheme won us the Highly Commended award in the 2023 Concrete Society Northern Ireland Region awards for the innovative and sustainable use of precast concrete which eliminated the necessity for conventional steel frame construction techniques.

The work was carried out of behalf of ABM for South Dublin County Council.

Stroud Flood Alleviation Scheme



Macrete Ireland Ltd supplied 3.05m, 5.00, 6.00m & 25.00m shaft linings and corresponding cover slabs to the upgrade of the sewer and drainage system around Stroud Gloucestershire. The aim of this scheme is to provide a reliable sewer network and create more storage capacity in times of flood. By doing so, the local river health will also benefit. Materials were supplied to Galliford try on behalf of Severn Trent Water.



Breakfast Creek Trunk Sewer Upgrade, Brisbane, Australia



Macrete Ireland Ltd shipped seven containers of 9.00m shaft linings to Brisbane Australia for the Breakfast Creek upgrade works. These works will cater to the growing local community in the catchment area which is expected to increase by 37000 over the next 30 years. Shaft linings were supplied to Bosspipe International on behalf of Rob Carr Pty.

Dawlish Rail Improvements for BAM Nuttall Ltd on behalf of Network Rail



Macrete supplied precast concrete walls and vehicle units to protect the existing railway line from the effects of coastal erosion.

The new, larger sea wall will protect the railway and the town for the next 100 years. The wall, which runs for approximately 400m from Colonnade underpass, west of Dawlish station, to Boat Cove ensures that this section of railway is more resilient for future generations.

Brentford FC Community Stadium for Buckingham Group Contracting Ltd



Macrete supplied precast concrete terracing, walls and stairs to the new 17,000 capacity stadium build.

Manufacture and supply of the 3,500 units required took place over 10 months. The stadium is at the heart of plans to regenerate the area, including much needed new homes and commercial opportunities.

KIA Oval Cricket Ground for Buckingham Group Contracting Ltd on behalf of Surrey County Cricket Club



Macrete supplied precast concrete terracing, walls, stairs and lift shafts for the new stand and conference facilities. This new stand will marry up the Peter May Stand with the Mickey Stewart Members Pavilion. The Peter May Stand will be extended and above will have two new tiers of seating.



AFC Wimbledon Plough Lane Stadium for Buckingham Group Contracting Ltd



Macrete supplied precast concrete terracing, walls and stairs to the new 9,300 capacity stadium build. This will be the club's first home stadium for over 30 years.

Manufacture & delivery of the 700 units required took place over 10 months. There are eight corporate boxes, two lounges and an events space. For a conference it can host 700 people and can easily seat 500 for a dinner event. Planning permission has been granted for the stadium capacity to increase to 20,000.

Boston Barrier Scheme for BAM Nuttall Ltd on behalf of the Environment Agency



Macrete supplied 24nr precast concrete flood defence units for incorporation into the tidal barrier works. The units were in the shape of an inverted arch and would provide the base for the movable steel tidal barrier once installed.

The supply contract entailed 20nr Type 1 units each weighing 20 tons, 2nr Type 2 units each 17.5 tons in weight and 2nr Type 3 units weighing 19.66 tons each. In October 2020 the completed scheme won the prestigious Edmund Hambly Medal 2020 for innovative and sustainable design from the Institute of Civil Engineers (ICE).



Humber Hull Frontage for BAM Nuttall Ltd on behalf of the Environment Agency



Macrete supplied over 600 precast concrete floodwalls to the Humber Hull Frontage Flood Prevention Scheme for BAM Nuttall Ltd on behalf of the Environment Agency.

The scheme will reduce the risk of flooding from the estuary for 113,000 properties. In total more than seven kilometres of tidal flood defences along the estuary frontage will be improved.

Odense Flexi Arch for Odense Council, Denmark



Macrete designed, manufactured, supplied and installed precast concrete abutments, cill beams, both standard and tapered flexi arch units, parapets, capping units, spandrel walls and wing walls.

The images on the wing walls were created as part of the casting process and make a stunning addition to the structure.

Tottenham Hotspur Stadium for Mace Group on behalf of THFC



Macrete carried out the design, manufacture and delivery of the new stadium at Northumberland Park. Our involvement began in 2015 and our package of work was completed in early 2018. With over 1500 loads of precast delivered on a just-in-time basis, this contract stress tested our capabilities, but we are pleased to say that we exceeded the programme requirements and we are proud and excited to have been involved on such a prestigious scheme.

More pictures can be found at:

www.macrete.com/macrete-projects-stadia/

Dover Western Docks Revival for Volker Stevin on behalf of Port of Dover



Macrete are in the process of completing the manufacture and delivery of over 450 precast units, many weighing over 30 tonnes, to the ongoing regeneration scheme at Dover.

At our recommendation, these units have been shipped directly from Belfast to Dover, thereby contributing greatly to the overall sustainability and environmental targets of the scheme by taking over 250 deliveries off the UK's road network.

More information can be found at:

www.macrete.com/news/dover-western-docks/



Ordsall Chord, Manchester Hub for Skanska-BAM on behalf of Network Rail



In 2017 Macrete designed, manufactured and delivered precast arches, skewed arches and spandrel arches to this scheme at Manchester Hub. More information on this scheme can be found here:

www.networkrail.co.uk/running-the-railway/our-routes/lnw/ordsall-chord/

A465 Heads of Valley for Reinforced Earth Company on behalf of Welsh Roads Agency



Macrete Ireland Ltd supplied 150nr 18m wide and 9m high TechSpan arches, each weighing 26 tonnes.

Techspan is a patented modular precast concrete arch system ideal for railway and highway applications.

Further pictures of the scheme can be found at:
www.macrete.com/gallery-civils/

The impact of our business operations on the local community and wider society

Our actions and advice always conform to relevant law, and we believe that all businesses and organizations should avoid causing any adverse effect on the human rights of people in the organizations we deal with, the local and wider environments, and the well-being of society at large.

We are fully committed to working in partnership with the local community in which we operate. We continually strive to reduce the effects of our business operations on our neighbours by employing working practices which improve the environment in and around our operations. We interact with the local community by supporting local charities and sports clubs through sponsorship programmes. We also give full support to the individual fund-raising efforts of our employees.

We endeavour to forge and maintain working relationships with local businesses by sourcing where possible our labour, equipment and material needs. During our operations we engage with the local community at a range of levels as customers, businesses, potential employees, residents and neighbours. Through our ongoing community strategy, we seek to contribute by promoting socially inclusive, non-discriminatory policies which help to develop our employees' skills, which encourage the disadvantaged and where possible, that help older members of the community and the disabled.

We always strive to be fair and objective in our advice and actions, and we are never influenced in our decisions, actions or recommendations by issues of gender, race, colour, age or personal disability.

The environmental impact of our business operations

Our core strategic objective is to be recognised as a major provider of precast concrete technology, products, services and solutions. At the same time, we recognise the environmental impacts arising from our business activities and are committed to reducing these through effective environmental management.

We are committed to a policy of effectively managing environmental performance to minimise the impact of our business processes on the natural environment and the community at large. This commitment extends to all workplaces, employees and others affected by our operations. We assess the environmental impact of our operations during planning, design and implementation phases to prevent pollution of the external environment.

We comply with all relevant environmental legislation as a minimum and, where practical, approved codes of practice and other requirements such as those specified by our clients. At all times, where possible, we incorporate sustainable environmental considerations into our manufacturing practices having regard to energy and water consumption, use of low environmental impact materials, designing out waste and reusing





materials. We also take reasonable and appropriate measures to ensure that our supply chain provides us with FSC / PEFC certified timber / timber products. We work to implement standards for good practice in reducing waste, recycling more, and increasing the use of recycled and recovered materials.

We continue to look at reducing the impact we have on the environment because of our operations - through innovation and a proactive attitude to energy reduction we decreased our carbon emissions by commissioning a wind turbine and solar PV array to produce around 50% of our electricity requirements. We hope to increase this approximately to 75% in the next 18 months. We are cognisant of alternative fuel developments and continue to assess their potential commercial capabilities and economic viability.

The water we use in the manufacture of our concrete products is harvested rainwater or obtained from our onsite bore hole. Any excess water from our manufacturing operations is cleaned and recycled. All our waste wood is used in a heat recovery system to aid the manufacturing and curing process. Any waste or excess concrete produced is turned into walling products and sold to the local trade and agricultural sectors.



Relations with our suppliers, partners and contractors

We endeavour to conduct our business honestly and honourably, and we expect our supply chain partners to do the same. As a business we focus on maintaining a strong and competent service, treating our stakeholders as mutual partners and working with the supply chain in a fair and ethical manner. We maintain strong working relationships and standards by consistently meeting agreed payment terms and evaluating the services that we provide. We insist that our supply chain members integrate on each project to guarantee our customers that we operate with a common goal and a shared vision from the onset.

We purchase a wide range of goods and services required in the operation of our business and we also rely heavily on several key suppliers for the delivery of our core services. Good working relationships within our supply chain are therefore central to the success of our business. For this reason, we are committed to obtaining and retaining competitive goods and services while at the same time ensuring they are from sources which do not jeopardise human rights, safety or the environment.

More specifically we expect our suppliers to adhere to business principles consistent with our own; to ensure that their products and services comply with all legislation relevant to their business; to seek to maintain continuous improvement in our supply chain relationship; to ensure they adopt and implement acceptable safety, environmental, product quality, labour, human rights, social and legal standards in line with our own codes of conduct and to ensure these issues are acceptably managed within the supply chain for any products supplied to us.

Relations with our employees

We are committed to promoting a good and harmonious working environment for all employees and will ensure a neutral working environment in which all employees are treated with dignity and respect. We recognise that our employees are our most valuable assets and their performance is the key to the quality of the service that we provide, and we always endeavour to offer, where possible, a long-term employment commitment to our staff.

Our recruitment is always carried out with regards to fairness, equality and consistency for all candidates. Recruitment practices will be inclusive, and we strive to ensure there are no barriers to the employment of suitable candidates.

We provide our staff with the necessary guidance and training to ensure the effective and safe implementation of their day to day activities. This training is reviewed on a regular basis and re-training is carried out as legal requirements dictate. All training is carried out by approved third party external training providers. We are amenable to our staff undertaking further education courses for professional development. We offer flexible working conditions and incentivised bonus schemes.



Any employee who feels that he or she has grounds for complaint in relation to bullying, discrimination, harassment or victimisation has the right to pursue the complaint through our documented grievance procedures. Our staff have access to independent HR advice should they wish. We also allow staff to join trade unions should they wish.

Relations with our customers

We conduct all our activities professionally and with integrity and always act in accordance with fair business, marketing and advertising practices and take all reasonable steps to ensure the safety of our products and services. We take great care to be completely objective in our judgments and any recommendations that we give, so that issues are never influenced by anything other than the best and proper interests of our clients.

Our prices are always transparent and competitive for what we provide, which is a high-quality bespoke manufacturing service. We will always try to propose solutions which accommodate our clients' available budgets and timescales. We will agree our rates and schedules of additional charges clearly in advance, so that we and our clients can plan reliably for what lies ahead, and how it is to be achieved and financially justified. We always strive to cultivate long term mutually beneficial working relationships with our customer base and approximately 90% of our sales are with repeat customers.

The satisfaction of our customers is measured by the high percentage of repeat purchasing and by the testimonials we receive. We provide transparent and effective procedures that address customer complaints and contribute to fair and timely resolution of disputes without undue cost or burden to the customer.

We are committed to maintaining the highest degree of integrity in all our dealings with potential, current and past clients, both in terms of normal commercial confidentiality, and the protection of all personal information received while providing the business services concerned. We extend the same standards to all our customers, suppliers, and associates.

The Macrete Ireland brand dictates a high level of quality, robust management systems and safe working environments. It is our goal to deliver all contracts on time, within budget and to the required quality. We operate a quality management system that is fully compliant with BS EN ISO 9001:2015, the company is also ISO 14001:2015, ISO 45001:2018 and CE mark approved, all of which are linked to the company business strategy.

We hold Constructionline Gold membership (Registration Number 127904), RISQS (Supplier Number 1670) Achilles UVDB audit (Supplier Number 052473) and Achilles Supply-Line (Supplier Number 701278) compliance, thereby giving customers the added security that our processes and systems are independently audited.



