



Project Overview



The Sir Francis Crick sculpture, Discovery, was a joint project between artist Lucy Glendinning and m-tec.

As the fabricator of the curved metal sections, m-tec was responsible for working closely with the artist to co-ordinate the installation of the two stainless steel structures in Northampton town centre. The relation of the two forms alters depending on the viewpoint, drawing the viewer into the wider space at Abington Street and creating a sense of dramatic entrance.

A major task was that of ensuring the life-size figures springing from the 6-metre curved plinths joined the structure seamlessly.

Artist's Vision

Discovery is a two-part sculpture designed in tribute to Sir Francis Crick's reference to the double helix as a balance between two large numbers: the energy of attraction and repulsion. The figures depicted in bold, abandoned postures convey a sense of optimism and passion and reflect the sheer daring of his work.



DISCOVERY

Artist—Lucy Glendinning

Location—Northampton





Project Overview



Flight of Fancy was a joint project undertaken by Ashfield District Council, artist Liz Lemon, Rolls Royce and m-tec.

The Flight of Fancy sculpture was laser cut, fabricated and polished by m-tec. The complex shape is a testament to the metal working skills of the m-tec team.

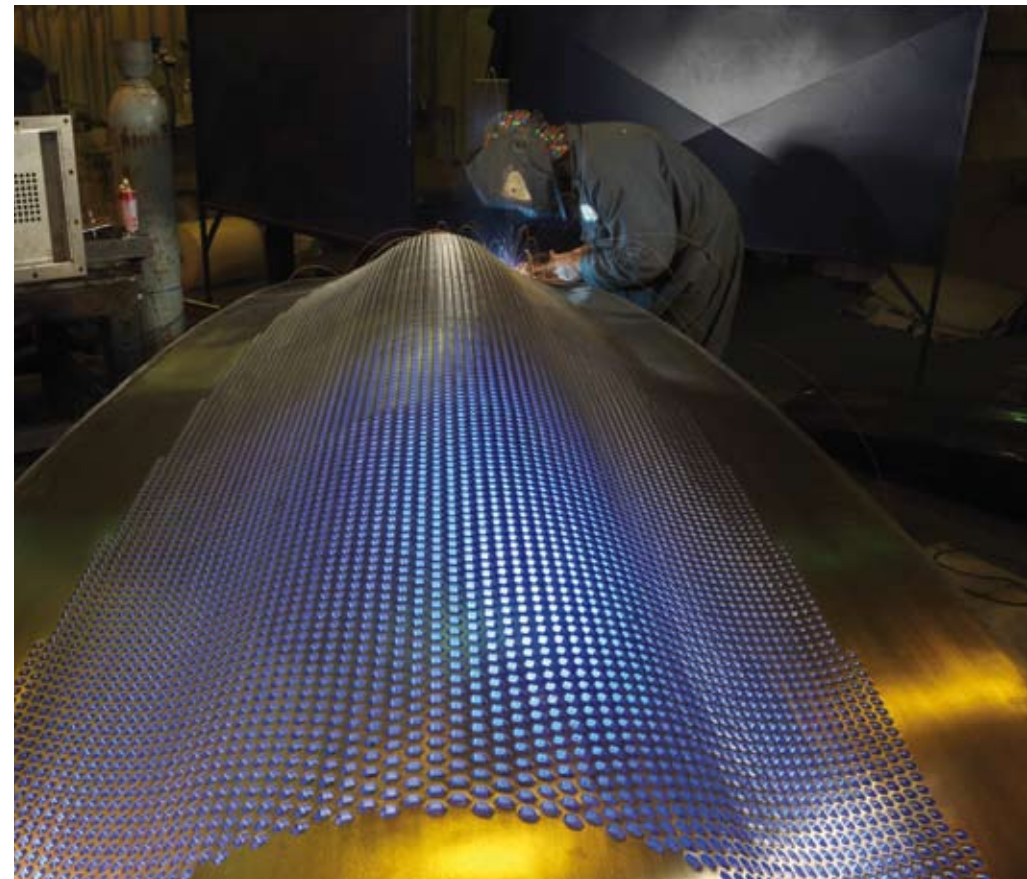
The tay mixer attached to the top section of the sculpture was fabricated and supplied by Rolls Royce. m-tec were responsible for the attachment of this section to the three tiered sculpture and also the delivery and installation of the artwork to the Hucknall site.

m-tec would like to thank all parties involved including Tesco, the Greater Nottingham Partnership and Nottinghamshire County Council for their financial contributions.

A special thanks to Rolls Royce for their assistance in the supply of the tay mixer and also Ashfield District Council and artist Liz Lemon for their input and assistance in this project.

Artist's Vision

The project involved the creation of a new public open space at Hucknall. Flight of Fancy, designed by artist Liz Lemon working with Rolls Royce, and provides a focal point in this area. The artwork is designed to reflect Hucknall's industrial heritage with other references to the lace making industry and Ada Lovelace. Lovelace was Lord Byron's daughter and is credited with designing the precursor to the modern computer. The artwork includes a tay mixer, which is a part of an engine manufactured by Rolls Royce and donated to the project by the company.



FLIGHT OF FANCY

Artist—Liz Lemon

Location—Hucknall





m:tec

Specialist metal fabricators and consultants

Project Overview



Flying Sculpture was a joint project undertaken by Persimmon Homes, artist Lucy Glendinning and m-tec, who were responsible for the complete fabrication and attachment of the sculpture along with the delivery and installation to the Portishead residential site.

Artist's Vision

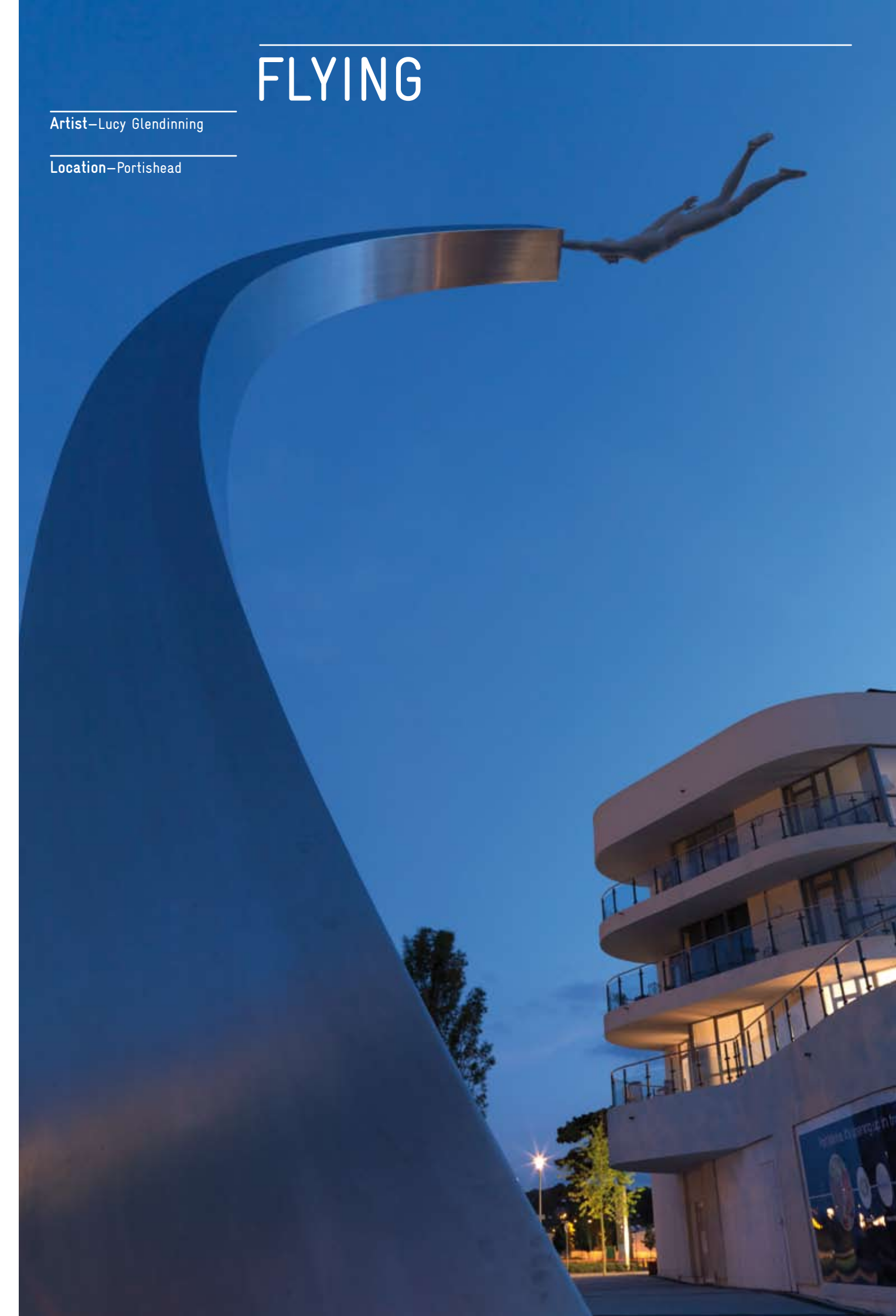
The sculpture gives the impression of freedom and the power the sea gives, through its elements as well as being a point of travel and adventure. The angled stainless steel base and the dynamic figure flying at the top, gives the sculpture a feeling of energy and that of defying gravity.



FLYING

Artist—Lucy Glendinning

Location—Portishead





Project Overview



The Meads Reach Bridge was a joint project between Niall McLaughlin Architects, Cyril Sweett, Gleeds, Price & Myers, Dean & Dyball and m-tec for Castlemore Securities.

m-tec fabricated the 55 metre, 75 tonne fully stainless steel pedestrian walkway at their Darwen Headquarters. The bridge was fabricated from 2205 duplex stainless steel. Its construction was made from eight sections, which were delivered individually to the Bristol location. This was then re-assembled and fully welded together making one complete structure. Final polishing was undertaken and the completed pedestrian walkway was craned into place in one piece, making this one of m-tec's most prestigious projects to date.

m-tec would like to thank everyone involved with the project in bringing this challenging fabrication to realisation.

Architect's Vision

A pedestrian and cycle bridge link; a proposed new mixed-use development with the existing town, Bristol Temple Meads Station and new hotel development.

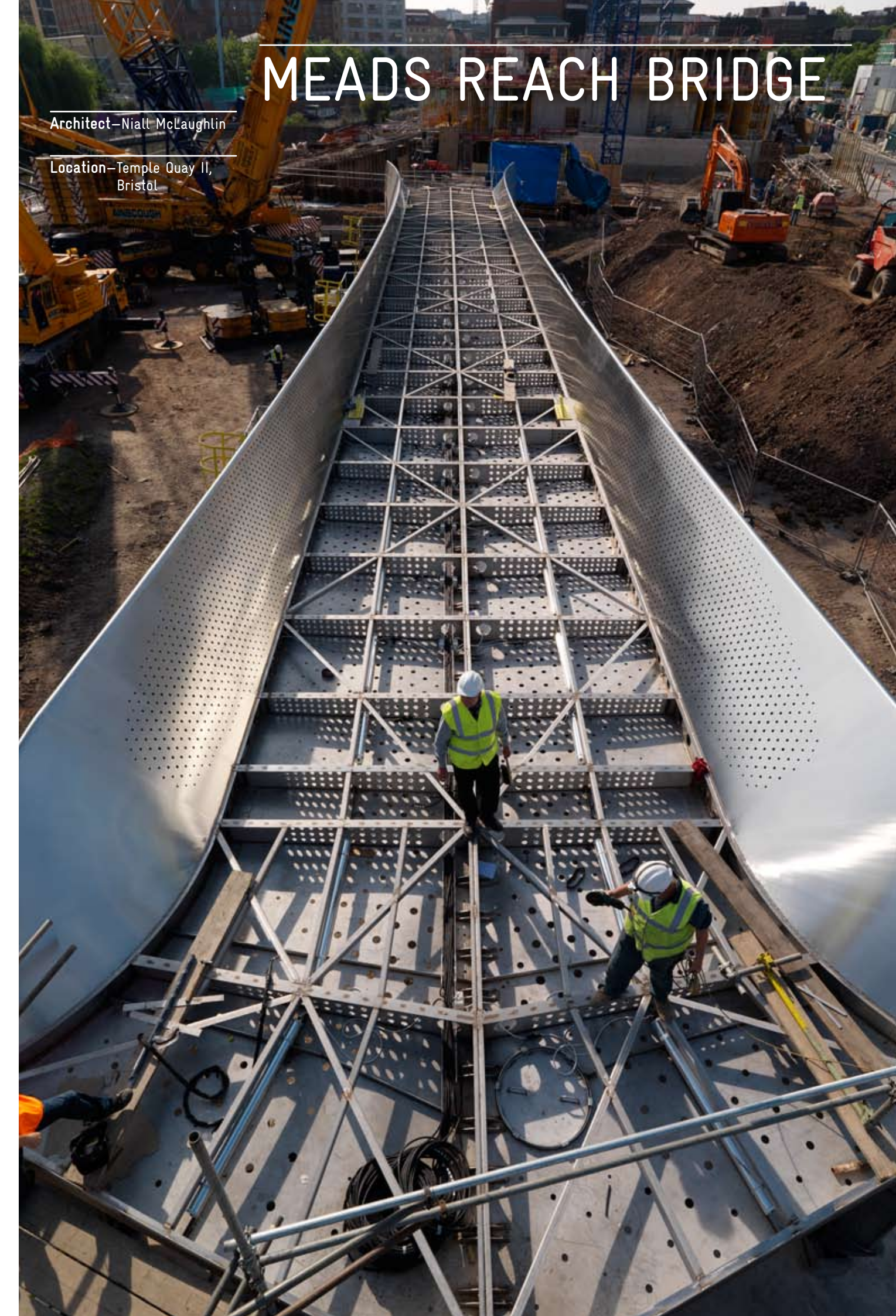
Materials and artificial light studies are central to the design. The construction is a stressed skin arc of stainless steel, which lands on haunched abutments at each side of the floating harbour. The arc of the bridge picks up light from the sky and water, changing with the weather and the time of day. The interior of the bridge holds LED lights, which make the whole structure glow at night to reveal the hidden ribs of the internal skeleton. As the light changes towards evening the ghost of the structure is subtly revealed.

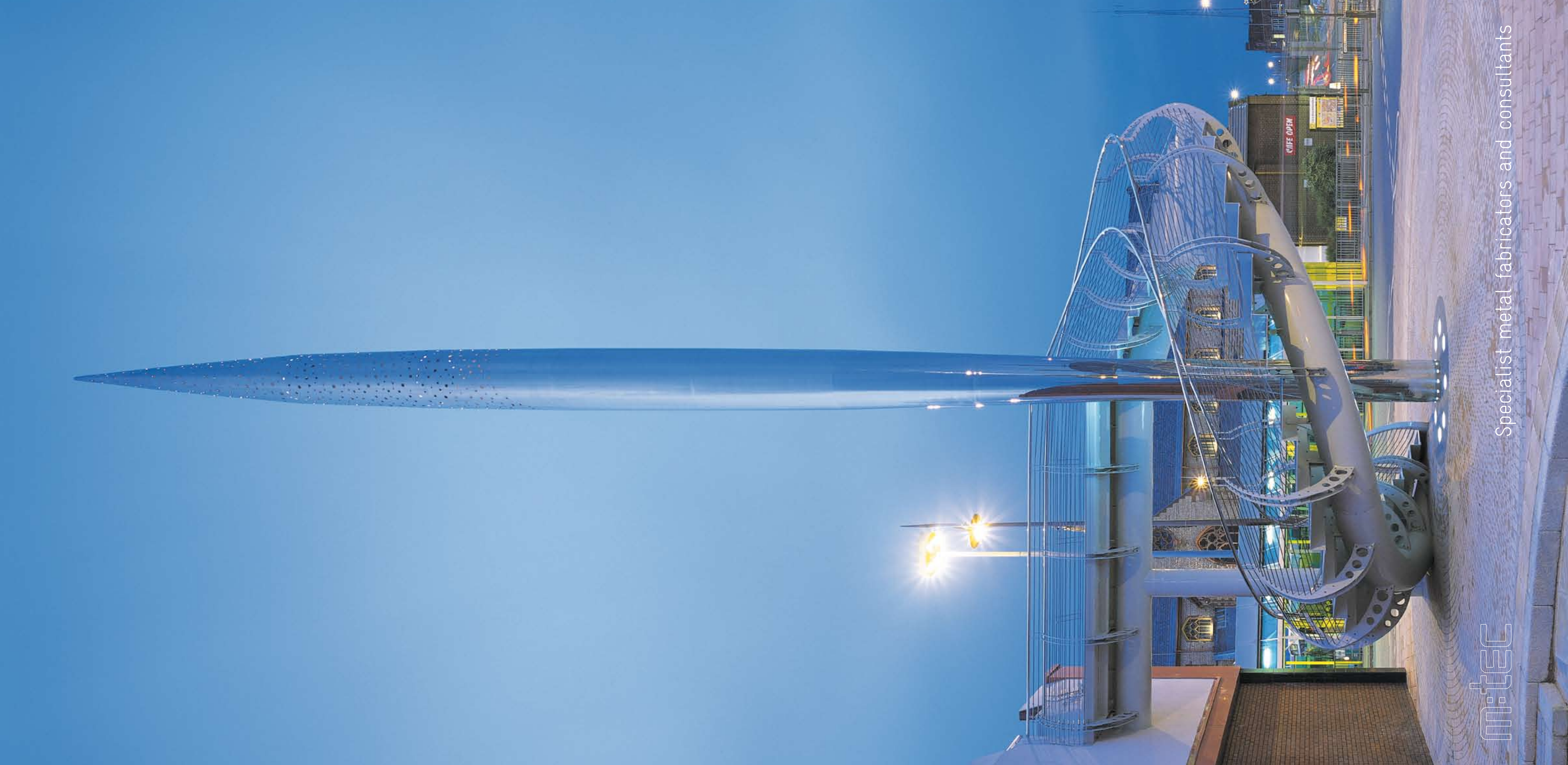


MEADS REACH BRIDGE

Architect - Niall McLaughlin

Location - Temple Quay II,
Bristol





Project Overview



The Millennium Needle Staircase was a joint project between St Helens Council, Birse Construction, Frank Whittle Partnership, DP Squared and m-tec who were commissioned to fabricate both the staircase and Millennium Needle.

The 20-metre mirror polished stainless steel needle is the central point of the new spiral stairway, which leads to the high level link with the new shopping centre car park.

m-tec worked closely with all members of the team to provide the finished article which symbolises the renaissance of St Helens.

Designer's Vision

The staircase wraps sinuously around a 20-metre tall stainless steel needle, visible from most parts of St Helens' town centre. It is designed to provide an engaging and appropriate tribute to the history of the town and add a visually interesting architectural feature for this formerly neglected site.



MILLENNIUM NEEDLE

Designers—St. Helens Council

Location—St. Helens





m:tae

Specialist metal fabricators and consultants

Birse Construction



Blackpool Council is two-thirds of the way through a 20-year programme of repair to its sea defences. Sections to the north and south have previously been completed by Birse Civils Ltd and work has now begun on the £66.4m Blackpool Central Area.

This section, which runs some 3.5km from the Sandcastle Amusement Park in the south, past all three of Blackpool's piers to the Grand Metropole Hotel in the north, is the longest of the coastal defence schemes. The 4-year construction project which lies in the heart of the tourist area, is also the most complex section. In addition to protecting more than 1500 homes and businesses from coastal erosion and flooding, the new defences will create 5 hectares of open space, five new 'headlands', better access to the beach and improved, high quality promenade enhancements.

m-tec



This was a joint project between Blackpool Borough Council, Birse Construction, SLP Engineering and m-tec.

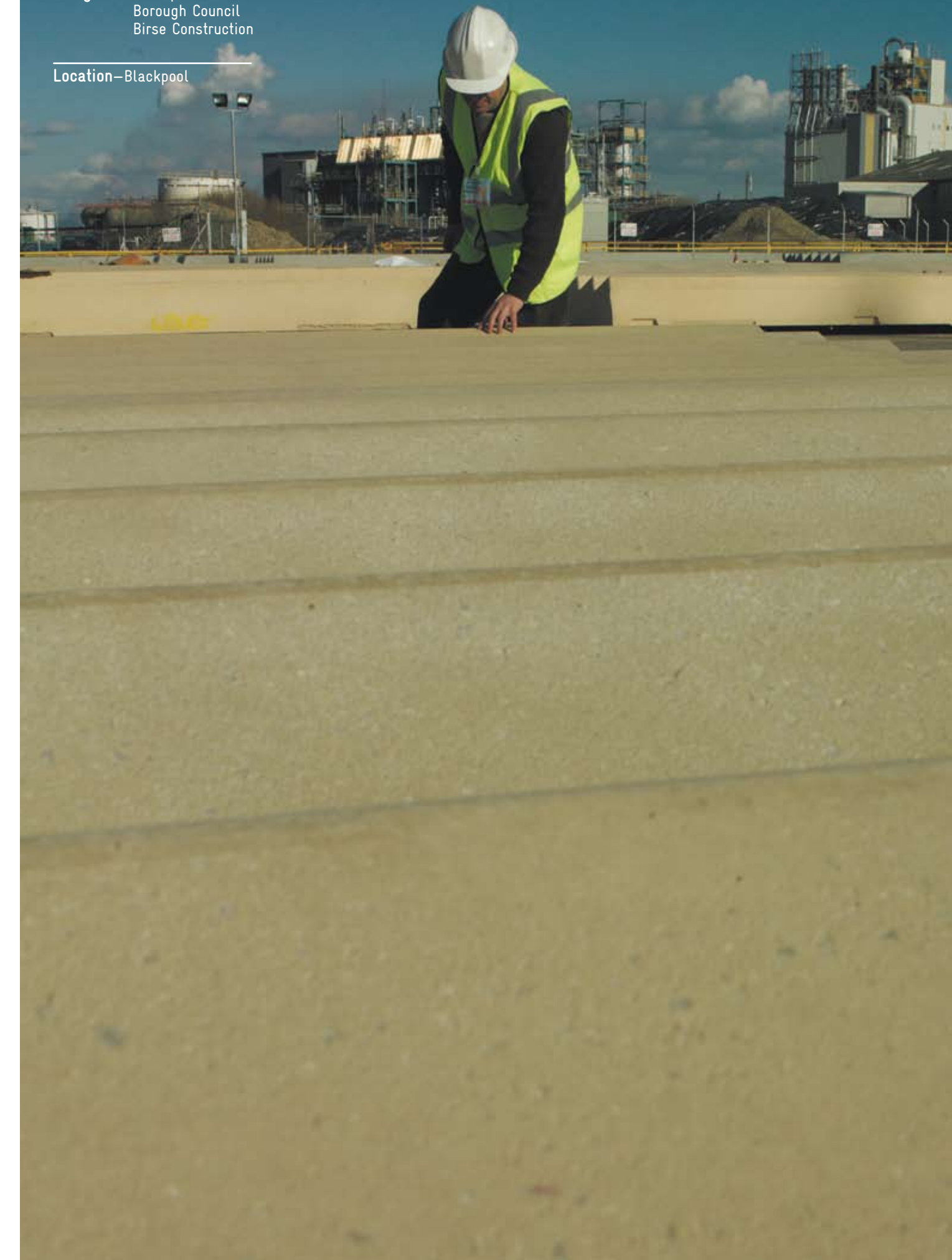
m-tec was commissioned to undertake the major metal fabrication of the special moulds used to form the unique concrete sections of the Sea Wall Defence Programme.

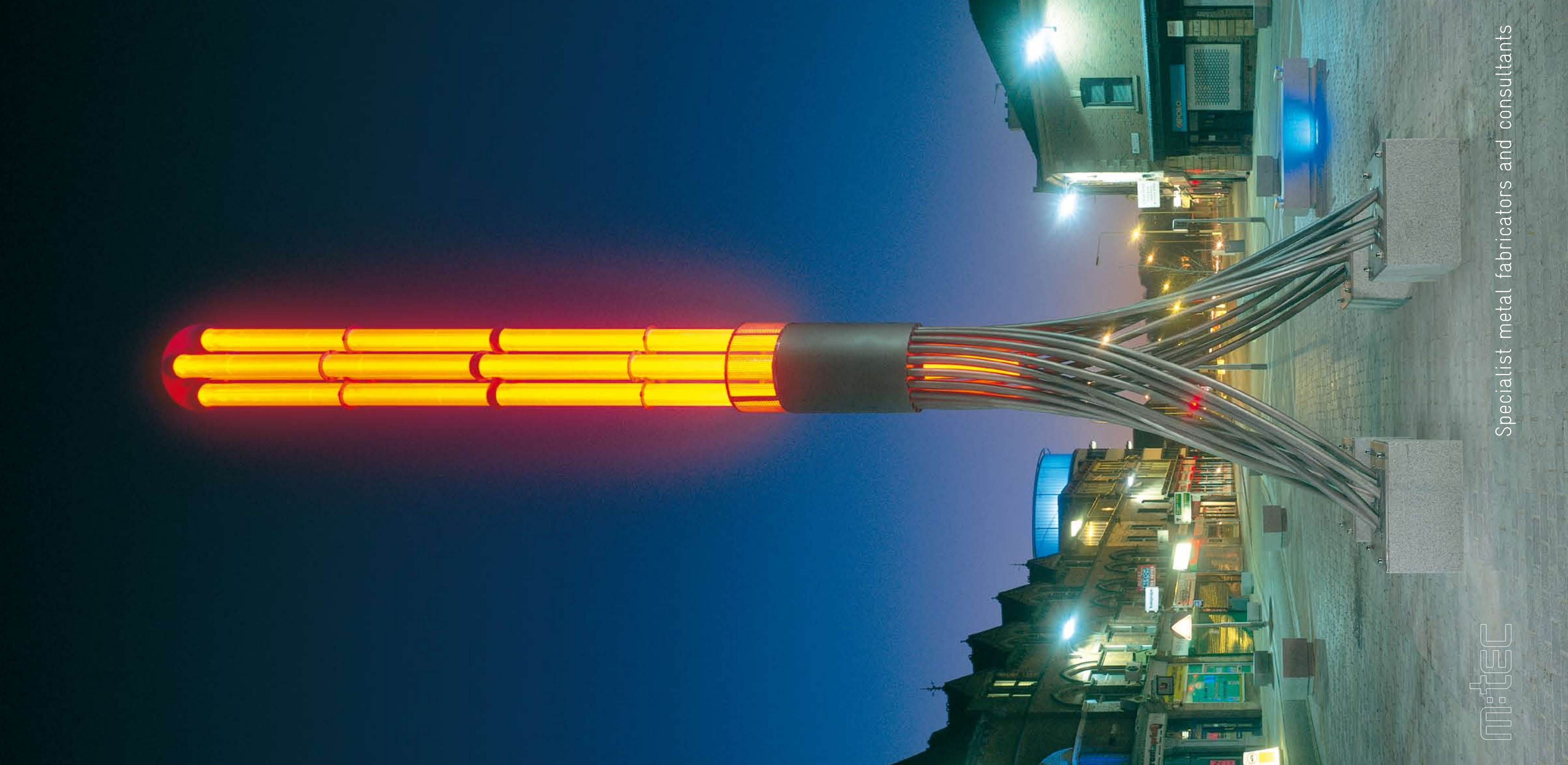
Over 100 specially fabricated moulds have been produced in varying shapes and levels of complexity to form the new promenade. The 4-year installation project forms a major element of the regeneration of Blackpool and will be one of the largest programmes of its kind. m-tec's investment in laser cutting, computerised bending and folding technology and the latest software, ensured the project would be delivered to schedule.

SPECIALIST MOULDS

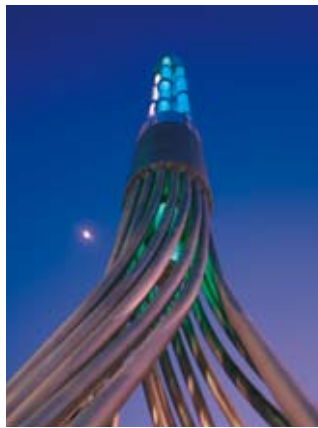
Designers—Blackpool
Borough Council
Birse Construction

Location—Blackpool





Project Overview



The Braid Sculpture was a joint project on behalf of Blackburn with Darwen Borough Council, artist Simon Watkinson, Capita Symonds, Stage Electrics and m-tec which were responsible for the fabrication and attachment of specialist lighting to the Braid Sculpture. The metal section was fully fabricated and bead-blasted at the m-tec headquarters. m-tec were also responsible for the delivery and installation of the Braid Sculpture to the Blackburn town centre location.



Artist's Vision

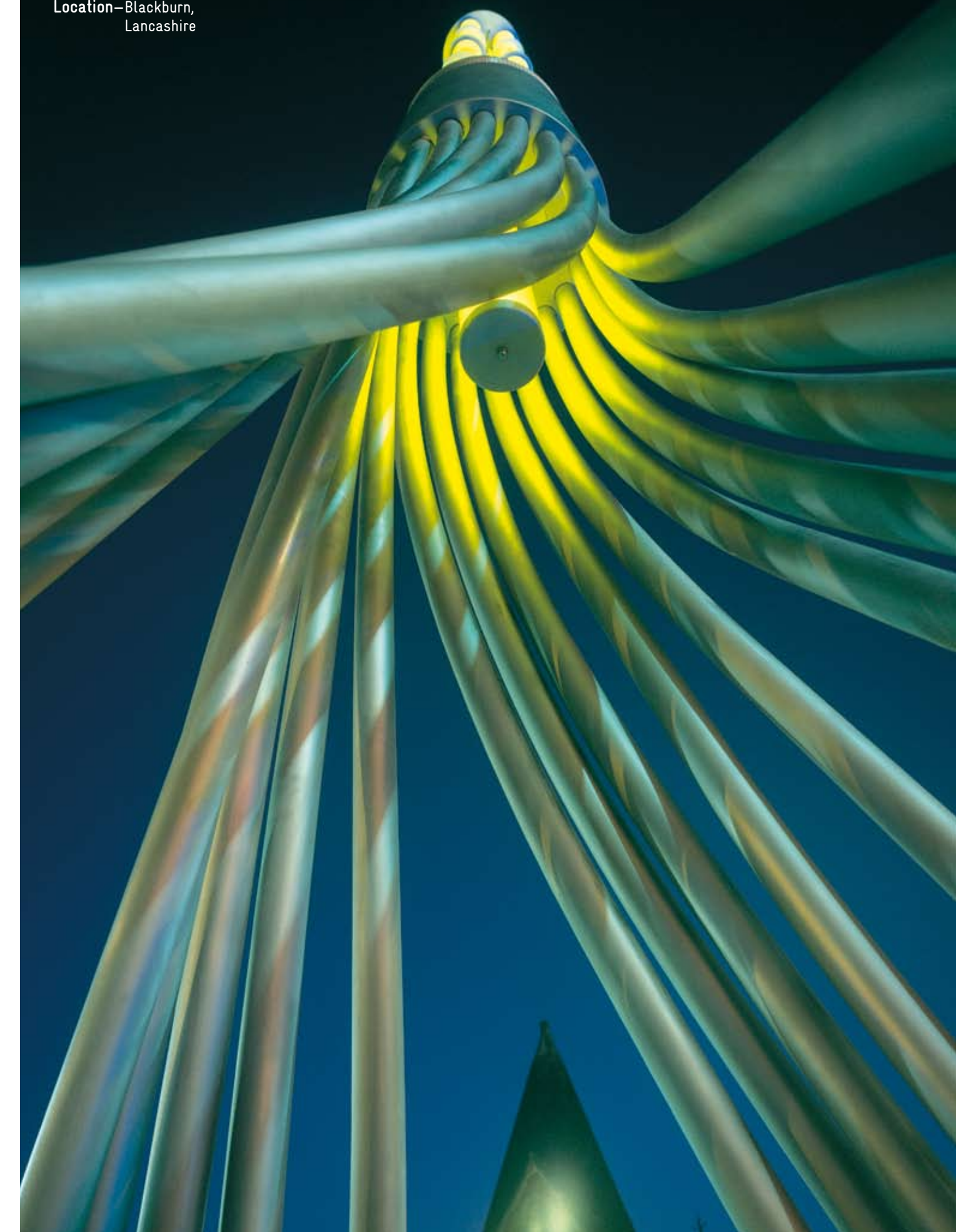
In simple terms the Braid draws on the notion of a multi-stranded element creating strength and dynamism. Within Blackburn it obviously draws upon the textile history of the area, along with an implied reference to diverse elements binding together. Visually the sculptor wanted to make something that appeared to emanate from the floorscape without the need for a mediating plinth. The LED lights in the granite suggest further strands that have been cut, as if the whole structure is in fact a fat fibre-optic cable harness emerging from the hard landscaping. The top plates are like the cards used in Jacquard looms for 'programming' the design.

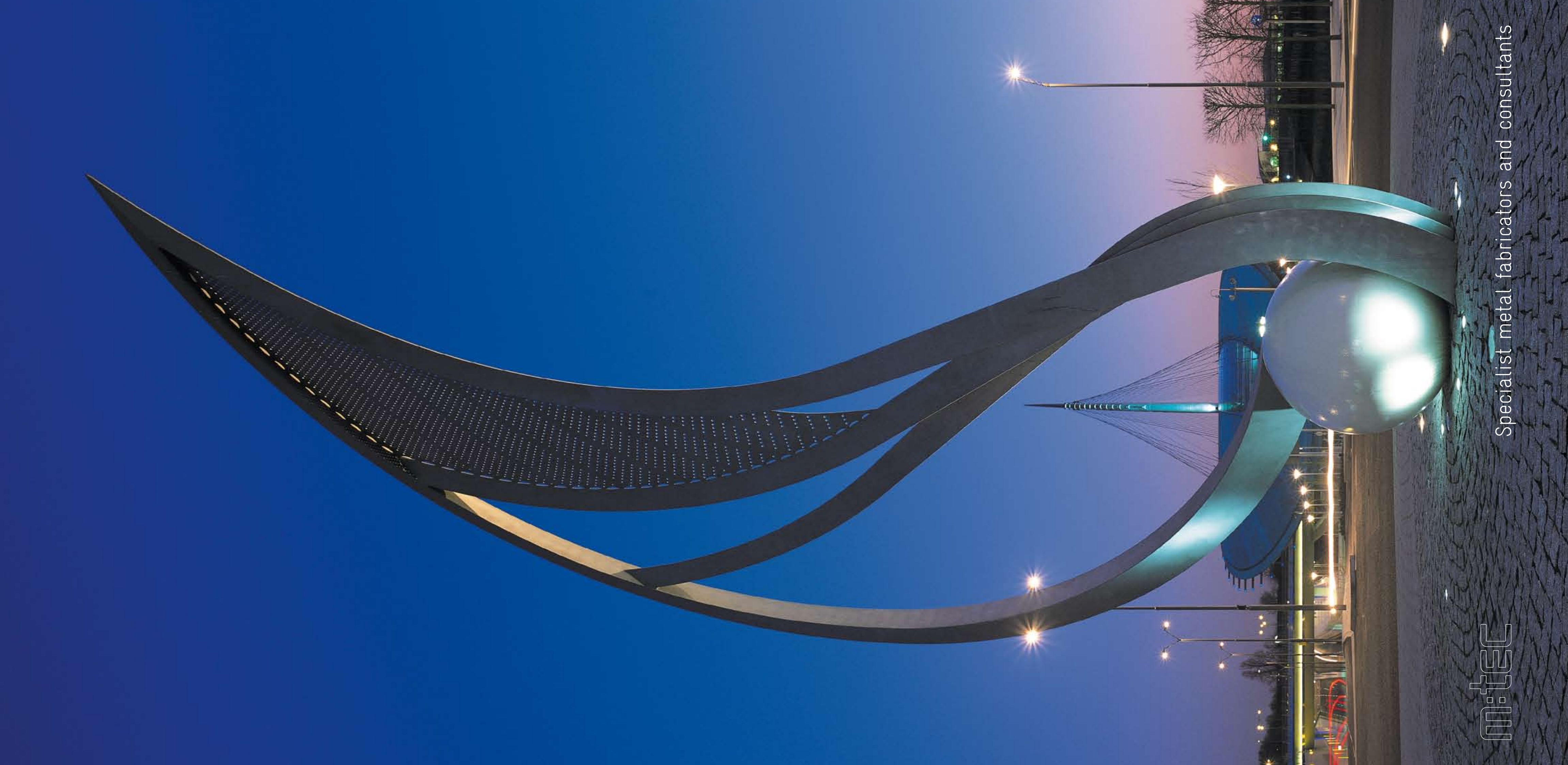
With regard to the lighting, the use of light pipes allows the creation of large-scale elements of light. The colour changing LED fittings create a vivid rotational movement through the top section, enhancing the sense of turning that the stainless steel pipes establish. An important aspect is the drama of the structure, the accumulation of rods supporting the more robust top section, set against the various city backdrops and sky. It is obviously a contemporary piece but refers back to an old Victorian lantern that used to occupy the site. As part of the newly landscaped site I think the two marry very well.

THE BRAID SCULPTURE

Artist—Simon Watkinson

Location—Blackburn,
Lancashire





Project Overview



The Seed Sculpture was a joint project between artist Colin Spofforth of Brimstone Artworks and m-tec.

The twelve and a half metre sculpture was fabricated from duplex stainless steel, laser cut, welded and a glass bead blast finish to the artists specification, to produce the sycamore leaf shaped sculpture.

The sculpture now provides a focal point in a major new 450-acre urban business park, developed by Ask:Akeler Developments, located in East Manchester's regeneration zone.

Artist's Vision

The intention for the sculpture is to create a bold and sophisticated centrepiece, which incorporates references to growth, development and regeneration. The overall feel is one of organic creation, complemented by the use of contemporary man-made materials.



THE SEED

Artist—Colin Spofforth

Location—Manchester





Project Overview



The Sky Mirror was a joint project between Optima Community Association, Crest Nicholson, N K Projects, Birmingham City Council, atelierone, Fountain Workshops, Curtins, English Landscapes, Landscape Practice Group, S3I and m-tec which were responsible for the full fabrication of the Sky Ramp.

The 38 metre stainless steel walkway was fabricated at m-tec's Darwen Headquarters with the timber decking installed prior to delivery and the full metal sculpture polished to a satin finish. m-tec delivered the walkway in three sections where it was sited next to the water feature.

Artist's Vision

The Sky Mirror is a viewing platform that combines a water mirror which functions as a performance space.

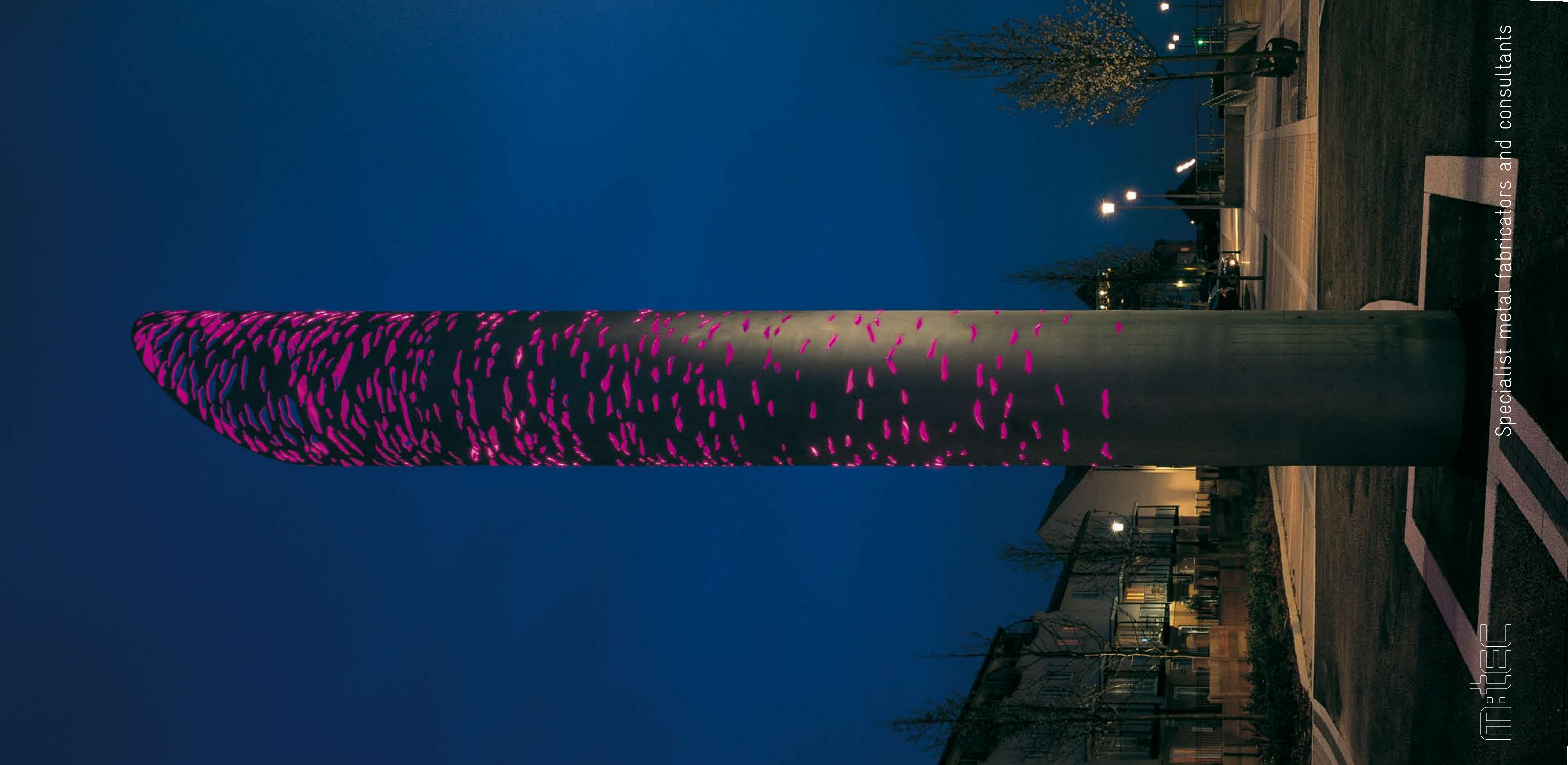


SKY MIRROR

Artist—N K Projects

Location—Attwood Green
Regeneration,
Birmingham





Project Overview



Tower of Light was a joint project undertaken by artist Mark Merer, Crest Nicholson and fabricator m-tec, who were responsible for the complete fabrication and installation, including all specialist LED's attached to the Tower of Light. The tower was laser cut and bead-blasted then delivered and installed at the Portishead site.



Artist's Vision

The essence of the sculpture is the perception of space, and as our understanding of space changes, so must our sculpture change. Sculpture and place are the same, and the way in which we place an object can express the simple desire to produce an awareness of ones surroundings.

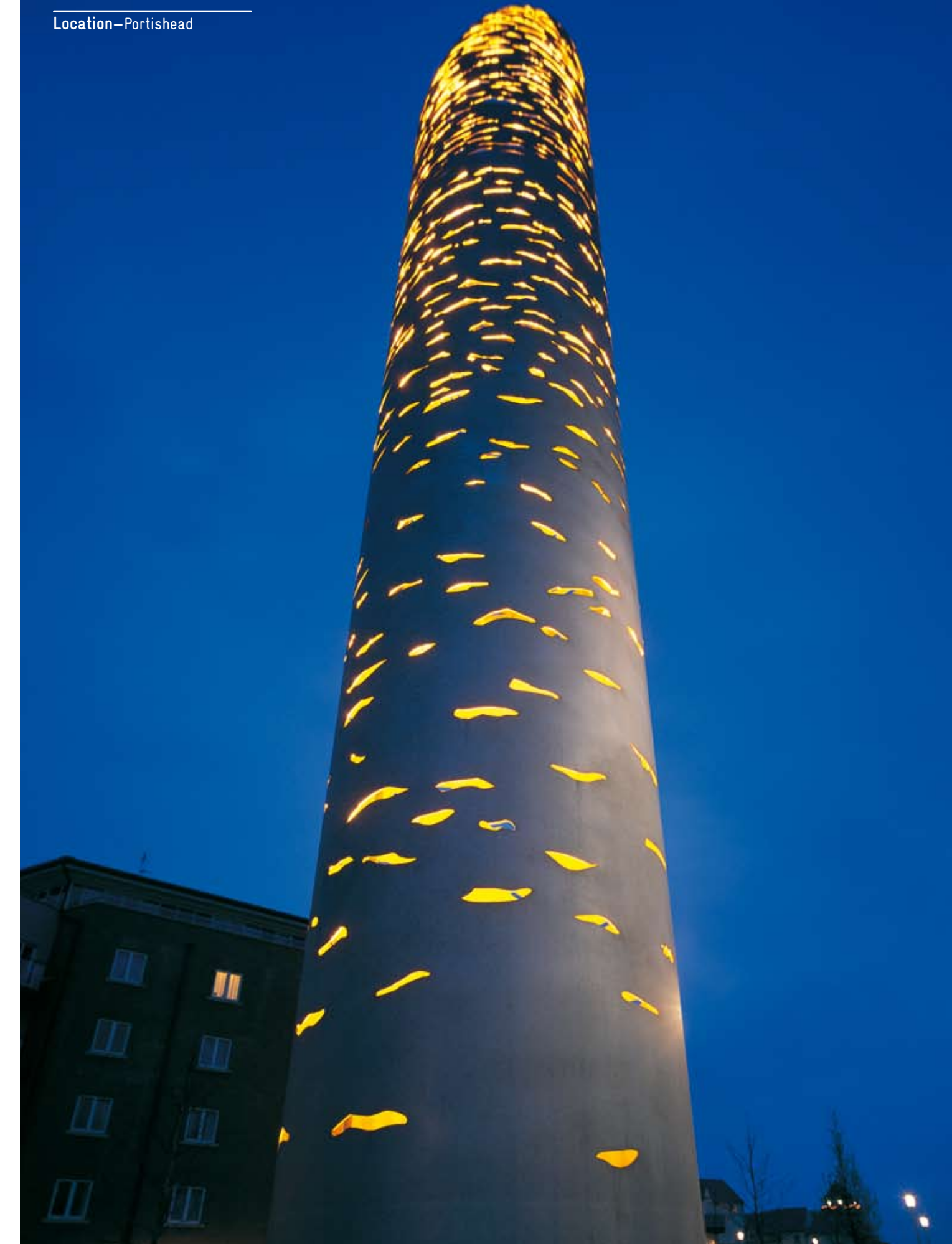
As a sculptor Mark's compulsion is to create landscapes and environments that evoke a balance of spirit and matter. Combine this with the position of the site adjacent to the new lock gate and the light tower was developed.

The tubular form recalls the old chimneys while the internal moving light reflects the power station and highlights the pattern of reflected light on water that has been cut into the form. The whole piece comes together to create a gateway or beacon to the new marina at Portishead.

TOWER OF LIGHT

Artist—Mark Merer

Location—Portishead





south
beach

Project Overview

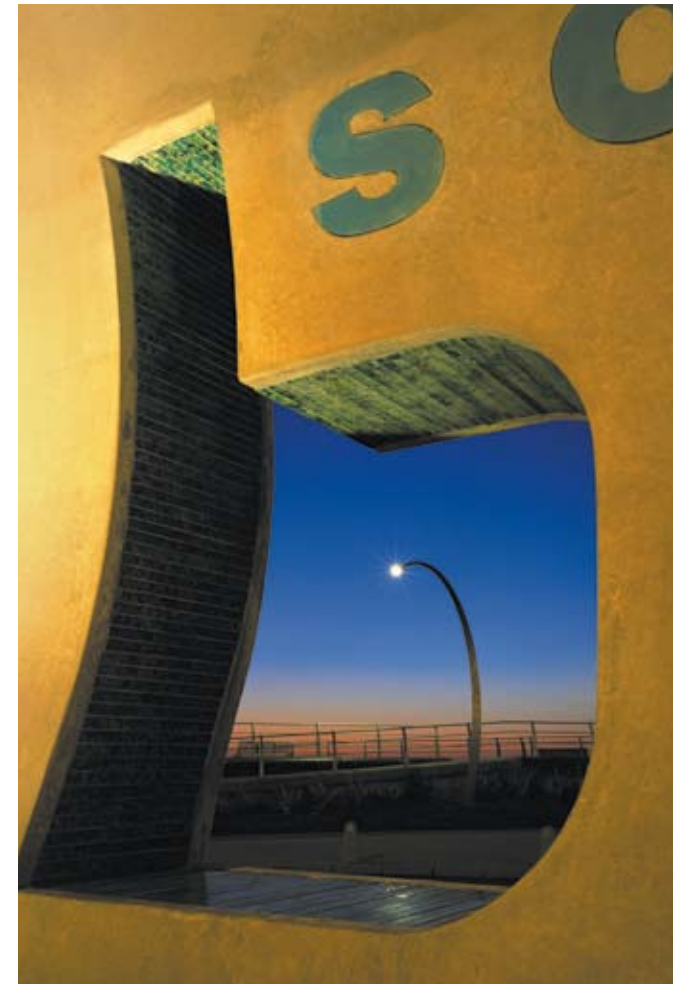


m-tec was commissioned to fabricate the mould support frame along with special transportation frames used to deliver the concrete sections to their promenade location.

m-tec was also asked to fabricate specialist moulds to cast the resin glass nose section of the wall. Encompassed in this were 32 special support frames, which were made to assist in the ease of maintenance of the hundreds of LED lights situated underneath the illuminated nose section of the wall.

Architect's Vision

The Wave Wall was commissioned by Landscape Architects EDAW for Blackpool Borough Council as part of the master plan for the regeneration of Blackpool and was undertaken as a joint project by Blackpool Borough Council, EDAW, Birse Construction and m-tec.

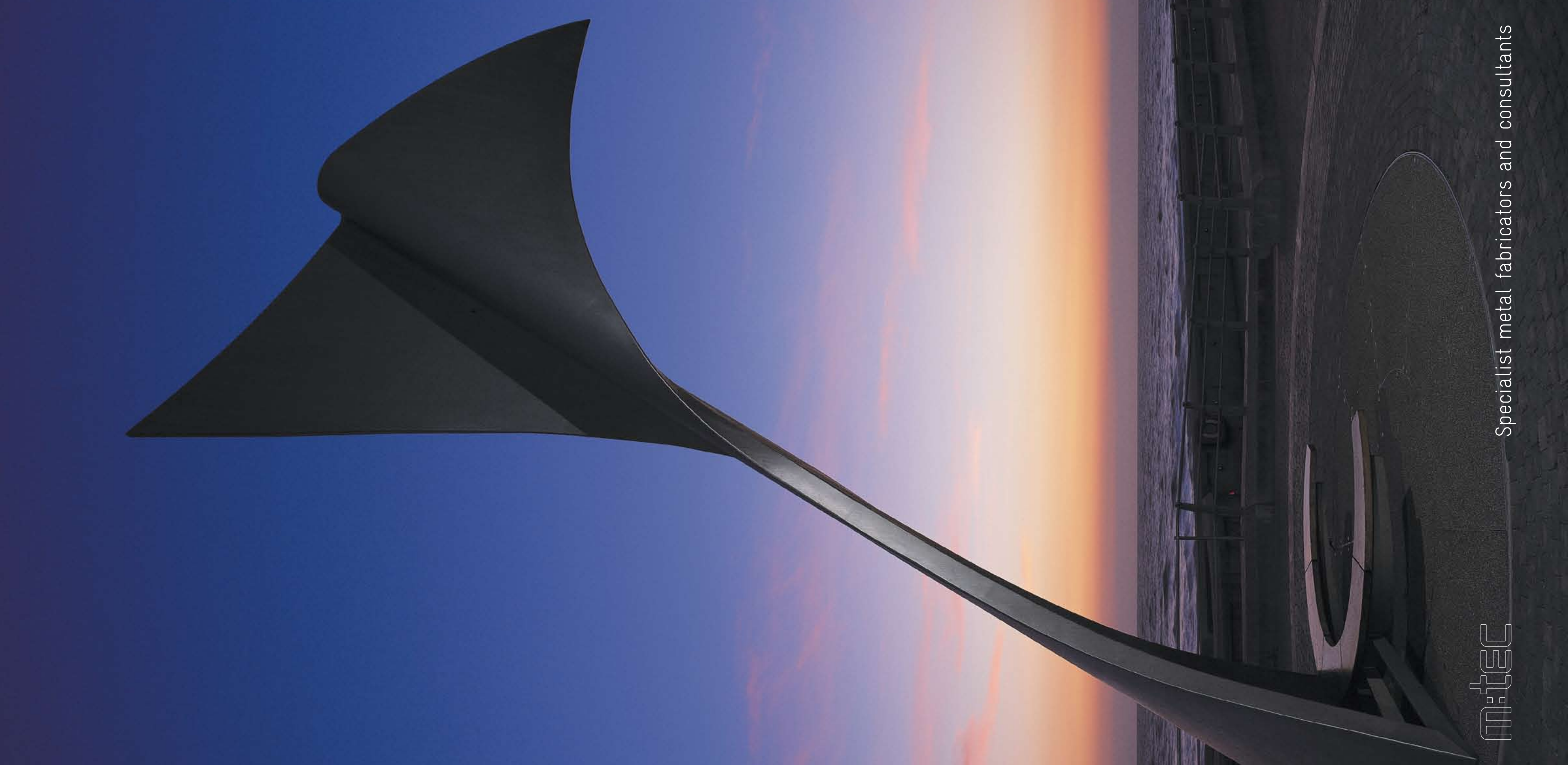


WAVE WALL

Architects—EDAW Landscape Architects

Location—Blackpool





Project Overview



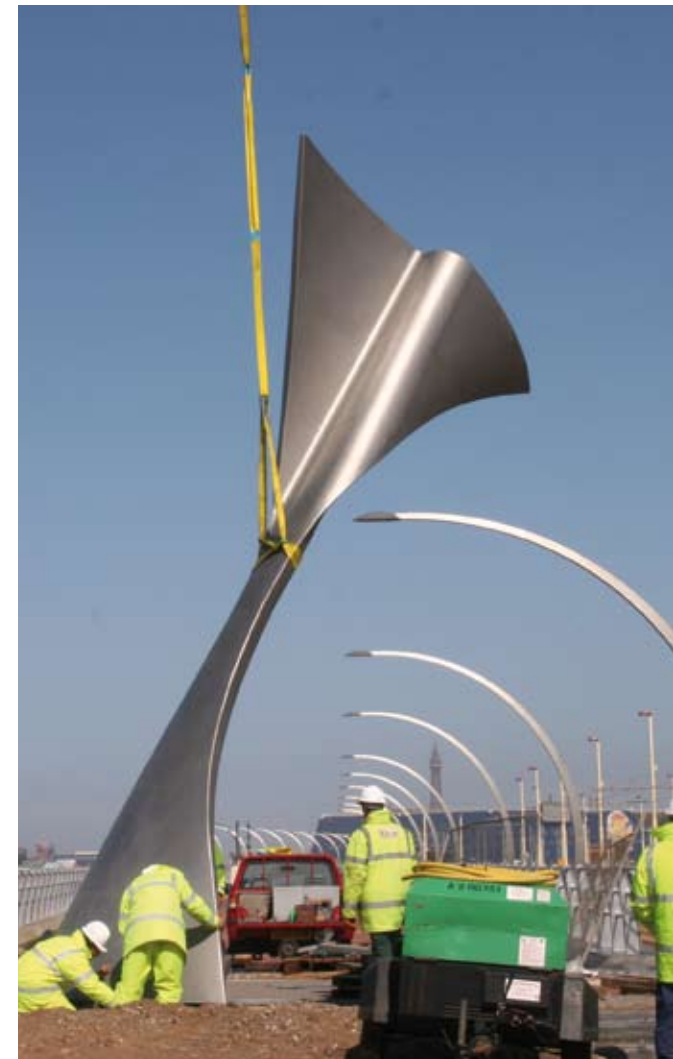
The Wind Shelter was a joint project undertaken by Blackpool Borough Council, architect Ian McChesney, structural engineers atelierone, Birse Construction and m-tec.

m-tec was responsible for the complete fabrication, delivery and installation of the two shelters, which were constructed from 2205 duplex stainless steel for its corrosion resistant values. A full size prototype was manufactured to ensure the design was viable.

The wind shelters are now sited on Blackpool's Southern Promenade where they rest on special dampened bearings and gently turn away from the wind.

Architect's Vision

The swivelling wind shelters rotate according to the prevailing wind direction, shielding the occupants from the elements. The shape was born out of the need for a vane to turn the structure and a baffle to shelter occupants from the wind.



WIND SHELTER

Architect—Ian McChesney

Location—Blackpool

