

Macalloy

BAR & CABLE SYSTEMS

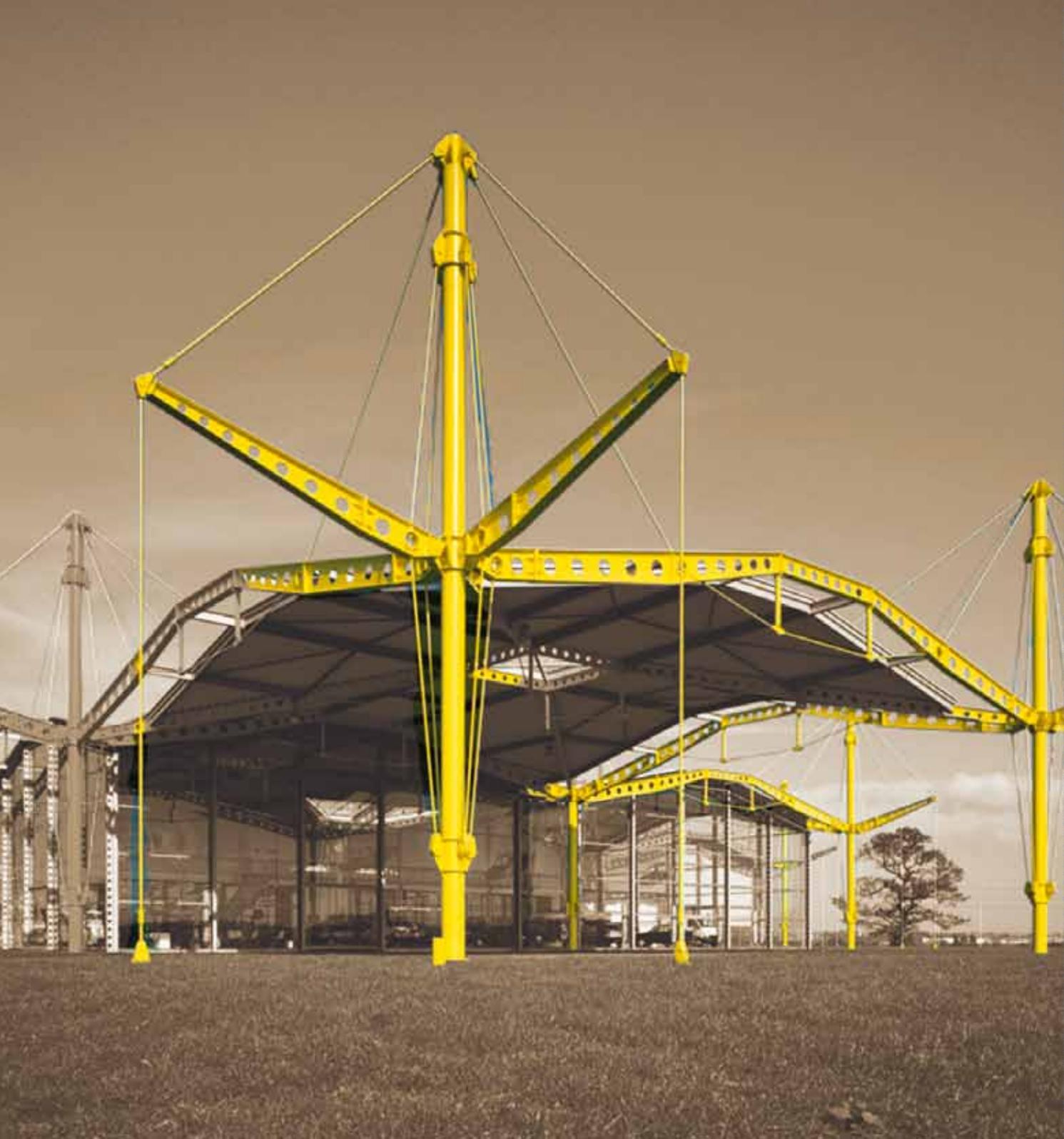
Corporate Brochure



EXPERIENCE

INNOVATION

QUALITY



A Historical Overview

The company traces its roots back to the 1920's, when in December 1922, McCall and Company (Sheffield) Ltd was formed to supply cut and bent reinforcing steel.

The Macalloy name first became a trade name 60 years ago, in 1948, when Donovan Lee and William McCall launched the Macalloy bar system as an easily assembled system for the post tensioning of concrete structures.

In the ensuing decades, Macalloy used its experience in the manufacture and threading of steel bar to develop new products for new applications. It can now rightly claim to be the world leader in the design, manufacture and supply of threaded bar systems.

Starting from its initial base in a small stockyard in Queens Road, Sheffield, supplying the local South Yorkshire market, Macalloy has become a significant player in the international field. It moved into a new purpose built manufacturing facility in 2006 and now exports more than two thirds of its product, through a network of partners in over 30 countries.

The company has seen many changes of ownership and control over the years, most recently in August 2003, when Macalloy regained its independence through a management buyout.

Its ethos is based upon the tag line
"Experience.....Innovation.....Quality"

Renault Building, Swindon, UK
Year of Completion 1983

Overview of Macalloy

Macalloy offers a range of threaded bar and cable systems for a variety of applications, including:

- Post Tensioning
- Tension Structures
- Façade Engineering
- Groundwork Engineering

Macalloy works to a strict quality management system, in accordance with ISO 9001:2000. Its bar products are processed within its own factory. The products are audited to British and European standards and the company has the European Certificate of Conformity (the CE mark) for its post tensioning and architectural systems.

Macalloy's long experience has enabled it to offer unique solutions to the design engineer and this same experience allows it to continue to introduce new products and new ideas, to meet the increasingly demanding requirements of the construction industry.

Macalloy also uses its experience to offer support with load measurement and stressing, through its Site Services division.

Atrio Shopping Centre, Villach, Austria **Year of Completion - 2007**

Macalloy 460 in diameters M30, 36, 56 and 64 supports the roof structure of this recently completed shopping centre.





Post Tensioning & Concrete Engineering

This is Macalloy's core product group. The Macalloy 1030 Post Tensioning system consists of high tensile alloy steel bars, in both carbon and stainless steel, in diameters up to 75mm, carrying a load of up to 430 tonnes.

Developed initially for use in prestressed concrete construction in 1948, the system and its applications have evolved over the years. Common applications now include stressed connections (concrete to concrete, concrete to steel and steel to steel), prestressed block construction, holding down bolts, pile testing, structural hangars and ground anchors.

The carbon Macalloy system is independently approved to the requirements of ETAG 013 and carries the European CE mark.

Navia River Viaduct, Asturias, Spain **Year of Completion 1999**

Macalloy 1030 post tensioning bar was used to tie the steel arch to the concrete.

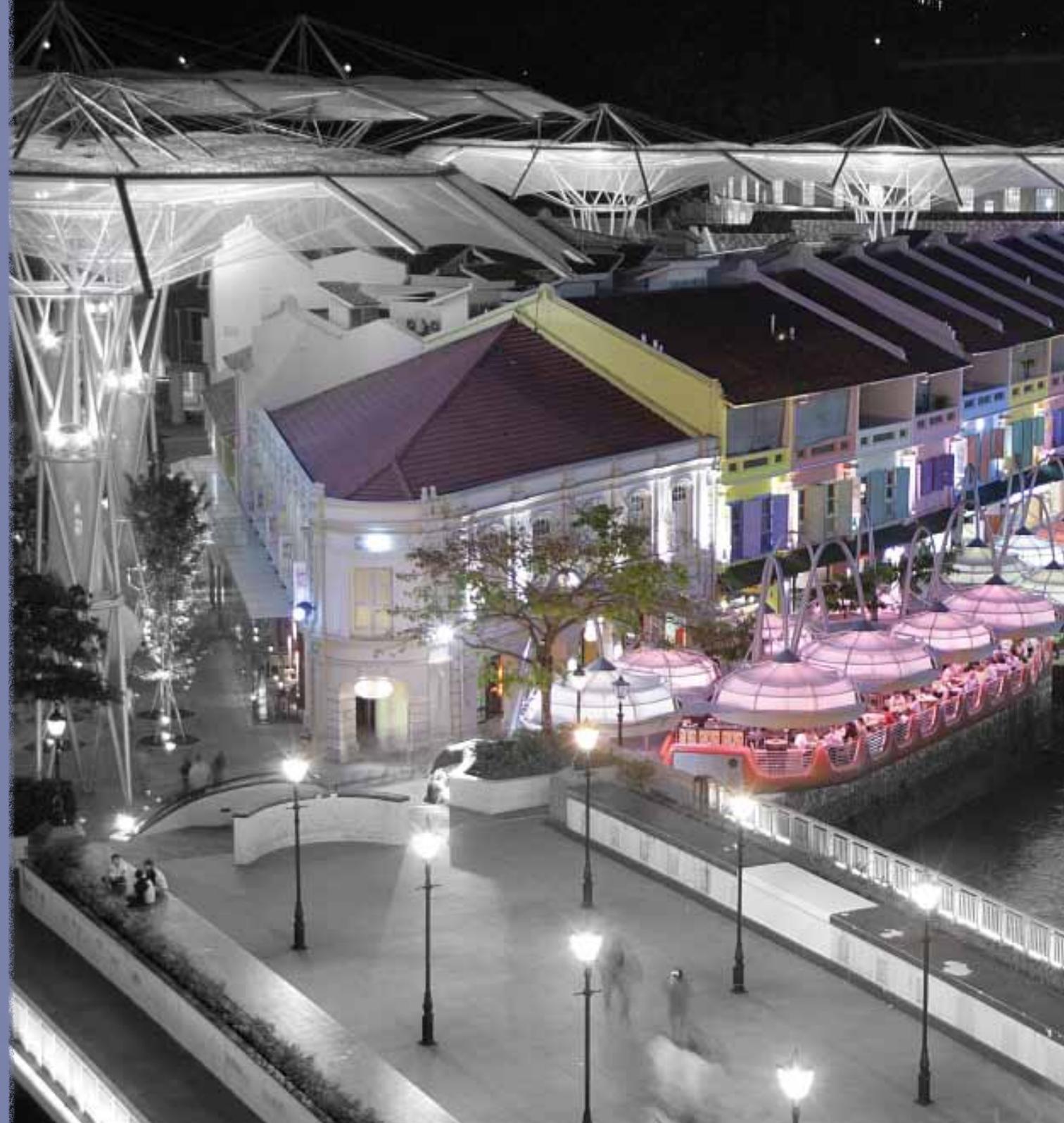
Tension Structures

Macalloy pioneered the concept of Tensile Structures in the early 1980's, through the construction of the Renault Building in Swindon, widely regarded as the first structure of its type in the world.

Since its original concept, Macalloy has remained at the forefront of Tensile Structures technology, leading the way in the design and manufacture of bar and cable systems for the construction industry.

The Macalloy 460 and 520 Tensile Structure systems in both stainless and carbon steels, offer elegant architectural solutions with engineering strength. Its know-how in the field of tensioning and load measurement has enabled engineers to design even more innovative structures. Many of Macalloy's products now support some of the most intricate structures around the world, including many airports, stadia and bridges.

Both carbon and stainless systems carry the European CE mark.



Clarke Quay, Singapore Year of Completion 2007

Each new ETFE cushion clad roof was tensioned by the use of galvanised Macalloy 460 tension rods.



Façade Engineering

Macalloy Façade Engineering is dedicated to providing an integrated service for the design and manufacture of all types of lightweight glass façade support structures.

By developing relationships with the architect, structural engineer and glass supplier, Macalloy has been the catalyst to many exciting façade projects around the world. These structures are probably most in evidence in international airports such as Dubai, London Heathrow and Changi, Singapore.

Macalloy offers solutions to suit all budgets, in both carbon and stainless steel, in bar or cable format.

Changi Airport, MRT Arrival and Departure Halls, Singapore Year of Completion 2000

This structure incorporates a 35m high glass wall, supported by 25 tonnes of 24mm diameter Macalloy 460 tendons.

Groundwork engineering

By applying the same knowledge and experience to threaded bar systems below ground, as to above ground structures, Macalloy has developed a range of ground engineering systems for a series of different applications.

Its sheet piling tie bar system, using either the Macalloy 17MHS system or the Macalloy 500 system, supports many sheet pile walls at home and abroad.

Macalloy can also supply the Macalloy 1030 system and Macalloy 500 system for use as a ground anchor or for use as soil nails or rock bolts.



Reykjavik Harbour, Iceland

Year of Completion 2002

Utilising over 1000 tonnes of
Macalloy tie rods, in diameters of M100.

Khalifa International Stadium, Doha, Qatar

Year of Completion 2005

Macalloy tendons in M90 and M76, provide the support for the large arch.



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Image taken by Nick Leonard