

Construction

cb Cooper & Turner[®]



Fasteners for Safety Critical Applications



From the Earth to the Sky
Helping to build the impossible
'The Burj Khalifa'

cb Quality is our Hallmark[®]

We are well established global company with an enviable pedigree in the supply of industrial fasteners to the civil engineering and construction markets.

We provide a true 'one stop shop' in the manufacture, fabrication and supply of industrial fasteners to the civil engineering market with all the cost and control benefits that this management of the whole supply chain brings.

We continue to be a leading authority in this market, both in the UK and abroad, advising and developing innovative, bespoke products to satisfy the exacting requirements of the construction industry.

The combination of a comprehensive product range coupled with quality fastener manufacturing and full product traceability has meant that our name is both well-known and trusted in the construction marketplace.

Key to this is the respect that the construction market holds for our range of added services that typically include - product picking, shipping to challenging deadlines and destinations and the

Indeed, our name is to be found on many of the most recent and exciting structural projects worldwide.

Key to this is the respect that the construction market holds for our range of added services that typically include product picking, shipping to challenging deadlines and destinations and the ability to trace key products back to the batch.



Tsing Ma Bridge, Hong Kong



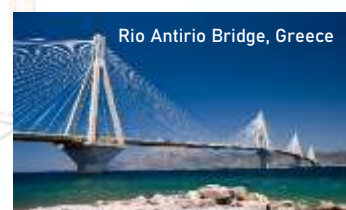
Al Burj Arab Hotel, Dubai



Dubai Marina



Hong Kong Exhibition Centre



Rio Antirio Bridge, Greece




We manufactured and supplied a range of ASTM A490M high grade assemblies ranging from M16 - M30 diameters for The Burj Khalifa (presently the tallest building in the world).

This range of heavy series 10.9 fasteners had a special protective coating applied which is especially durable in the desert conditions in Dubai.

There are some limited-edition presentation gifts of our bolting assemblies on offer in the gift shop at The Burj Khalifa.

PRODUCT OVERVIEW


We are one of the world's leading manufacturer of 'CE' marked bolting assemblies to the construction industry. Our products can be supplied in a wide variety of sizes, types, materials, grades and




DIAMETERS
M12 to M100



FINISHES
Galv, Sher, EZZP,
Xylan, Geomet,
Delta plus
specials



GRADES
4.6, 8.8, 10.9
& 12.9




HEAD SHAPES
Hex, C/sunk,
Cup Head, SQSQ
plus products to
drawings



**High Strength
Structural Bolting:**
ASTM A325M
& A490M



**High Strength
Structural Bolting
Assemblies:**
EN 14399-1




**Non-preload
Structural Bolting
Assemblies:**
EN 15048-1



**High Tensile
Structural Bolts
& Nuts:**
Non-preloaded
8.8



**Heavy Hex
Weathering Steel
Structural Bolting
Assemblies**



**BS 7419 Sq Sq
Holding Down
Bolts: 8.8**



**Tension Control
Bolts (TCB's)**



**Distributor for:
Fischer &
Lindaptor
products**

CONSTRUCTION SERVICES

We provide a total supply package to the construction industry delivering direct to sites throughout the UK on a next-day service.

We have an expertise in the picking, packing and labelling of comprehensive bolt lists, in construction phases, and delivering to time-slot schedules to rural and inner-city sites.

Product can be supplied packed and labelled to export standards.



PACKING SPECIFICATION

We have, with feedback from some major structural fabricators, developed several packing specifications and procedures specifically designed to aid the structural steel erectors. Thus, saving time and ultimately money in the ever-tightening time spans of construction.

**Structural Fastener Assemblies
Colour Coding - 14399 colour coded bags and labels.**

All our structural bolting assemblies are packed in colour coded bags for identification



M12



M16



M20



M24



M30



other sizes

Colour coded labels for fastener finish identification.



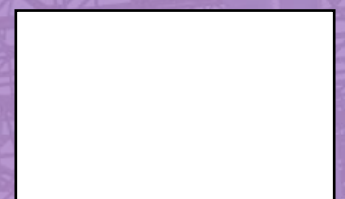
Galvanized
(orange)



Bright Zinc plated
(blue)



Sherardized
(pink)



Self-colour
(white)

BOLT HEAD IDENTIFICATION

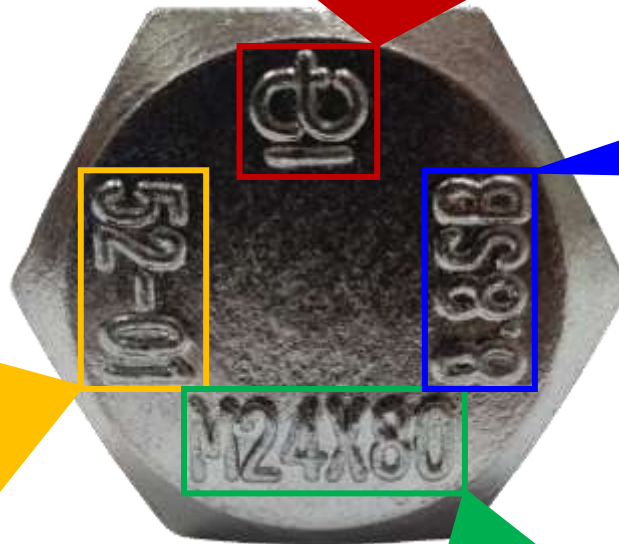
MANUFACTURERS HEAD MARKING (TOP)

This is a legal requirement and appears on all our manufactured bolts.

HEAT TREATMENT TRACEABILITY NUMBER (LEFT)

This is unique in the world of fasteners. Our bolts can be traced back to the raw material source simply by noting the number on the head. Extremely detailed manufacturing records are kept and a simple phone call to us relating this number will result in instantaneous traceability.

PROPERTY CLASS & GRADE (RIGHT)
This, too, is a legal requirement to satisfy CE marking requirements.



DIAMETER AND LENGTH OF BOLT (BOTTOM)

This is rarely seen on UK fasteners. It is an extremely useful addition in aiding erection teams on-site.

QUALITY IS OUR HALLMARK – quality & testing facilities

Our Commitment to Quality


Product quality is of paramount importance to us. Controls are rigid and because our fasteners are manufactured 'in-house', the highest standards and specifications can be guaranteed. Those fasteners that are manufactured elsewhere are rigorously audited throughout their manufacturing processes and systems. Further testing is carried out at the goods receipt stage at the 'in-house' testing facility for compliance with order instructions. All suppliers are regularly monitored to ensure that the same high standards are maintained.

Working Towards a Zero-Defect Culture

We operate a robust, controlled quality system maintaining traceability of products from their initial source of supply, into stock, right through to despatch to the customer.

Quality Assurance

We are approved to ISO 9001:2008, ISO 14001:2004 and OHSAS 18001. These systems ensure quality control is maintained throughout all stages of production.

 Quality is our Hallmark®

PROTECTIVE COATINGS

Most fasteners used in the structural fabrication market are supplied with some form of corrosion resistant coating, this is to give the product more durability in the connection enhancing lasting strength, visual appearance and ease of installation and dismantling.

Corrosion is caused directly by the environment it is exposed to, during both storage and service, so dependent on the levels of corrosive elements within the atmosphere we would suggest that one of the following three coatings be applied to the assembly.

ELECTRO ZINC PLATING

Cr6 Free : BS 7371-3:1993, BS 3382 Part 2 and ISO 4042

This is a bright zinc finish and generally would be a maximum of 8/10 microns of zinc coating, this should be used only for short term protection or in non-aggressive environments such as in Europe.

HOT DIP GALVANIZING

BS 7371-6:1998, DIN 267 Part 10 and ISO 1461

This is a deep grey finish and would always be a minimum of 45 microns, this coating has a very thick layer of zinc and would be recommended for highly aggressive environments such as those in the Middle East.

SHERARDIZING

BS 4921 Class 1

This is a matt grey finish (almost black) and would always be a minimum of 30 microns, this is a zinc dust diffusion process at high temperatures (320-500 degrees C). This coating again is recommended for highly aggressive environments such as those in the Middle East and has a very high salt spray resistance suitable for coastal use.



OTHER AVAILABLE COATINGS:

Mechanical Galvanizing

Greenkote®

Dacromet 320 Or 500

Sheraplex

Delta Coat

Delta Seal

Geomet

JS500

Xylan 1070

HYDROGEN EMBRITTLEMENT

During any zinc application by electroplating the supplier must ensure that hydrogen embrittlement does not occur during the process, this is the diffusion of hydrogen ions into the metal which causes high stresses in the structure of the steel and can give rise to delayed or spontaneous brittle fracture.

Embrittlement is caused by pre-treatments like pickling prior to electroplating, this is avoided by either very stringent cleaning procedures or by reheating the product after the zinc process for a period and at a set temperature based on ISO 4042:1989.

A selection of worldwide projects we have supplied

Yas Hotel Abu Dhabi



Chep Lap Kok Airport, Hong Kong



Wembley Stadium, London



Panama Bridge, Panama



The O2 Arena, London





Fasteners for Safety Critical Applications




Cooper & Turner Distribution Limited
Unit 2, Canklow Meadows Ind. Est.,
West Bawtry Road,
Rotherham, S60 2XL
England, United Kingdom

Cooper & Turner Distribution Limited
250 Helen Street,
Glasgow, G51 3JG
Scotland
United Kingdom

T: + 44 (0)1709 833 840
E: ctdsales@cooperandturner.co.uk

T: + 44 (0)141 445 3045
E: sales@mbw.co.uk

www.cooperandturner.co.uk

 Quality is our Hallmark®