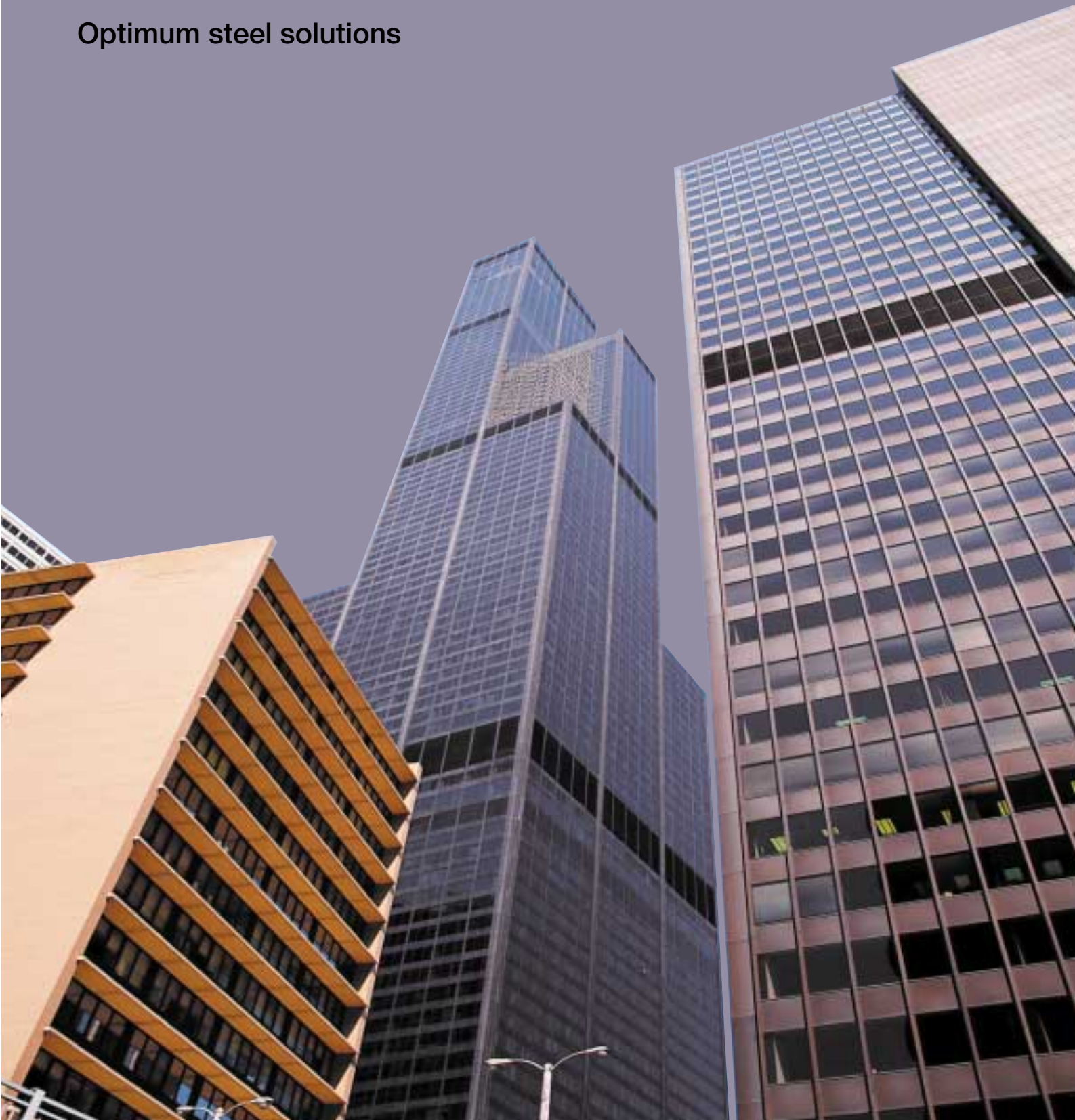


Corus Construction & Industrial

Steel plate

Optimum steel solutions



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Leading the way

High-quality steels combined with specialist expertise enable Corus to provide the optimum solution for projects large or small.

Corus offers one of the widest ranges of plate qualities, sizes and grades available anywhere in the world. At our state-of-the-art facilities, we manufacture steel plate to the highest standards, serving the needs of our customers across a whole range of industries.

Corus plate is used in some of the most demanding applications for steel, including oil and gas installations and major construction projects, as well as smaller applications requiring individual plates.

Our vast resources, proven track record and technical skills allow us to tailor our products and services to meet the requirements of specific projects or applications. By working closely with customers we ensure they gain the greatest value from the steel they buy.

With our forward-looking approach and extensive expertise, combined with world-leading steels, we are able to deliver innovative, world-class solutions to satisfy our customers' diverse requirements.

Increasing versatility

Steel plate from Corus is designed to meet the exacting requirements of many different markets.



Construction

We offer a wide range of structural steels, including weathering steel and a range of steel sections.

In partnership with customers, we have developed a process route for weathering grade steels, which considerably reduces carbon equivalent levels and improves weldability. This innovative steel will enter service on the Channel Tunnel rail link and on the new Newport Bridge in South Wales.



Earthmoving equipment and yellow goods

Corus is a key supplier of material for construction & earth moving equipment, quarrying equipment and fork lift trucks.

Our latest development is to offer a new range of steels aimed at improving wear performance in the field and our new range of carbon and lower sulphur steels improves crack resistance and provides higher levels of fracture toughness.



Engineering and machinery fabrication

Plate and profiling slab are used in a diverse range of fabricating and profiling activities for machinery and equipment in safes, vaults, materials handling and water treatment works.

We can supply material in a range of grades and thicknesses to accommodate extremes of temperatures and environments.



Mining and quarrying

ABRAZO steel plate products have been developed for long service life in abrasive conditions, particularly mines and quarries. They provide companies with a range of options suitable for most wear situations.

RQT is a high strength, weldable steel developed for use where strength, rigidity and long life are paramount.



Offshore oil, gas and pipelines

We supply plate designed for high-pressure pipelines for oil and gas, conductor pipe and other applications. Corus Energy can supply finished and coated high-grade pipe.

A full range of offshore structural products is supplied to European, American and other standards, backed up by world-class research and development.



Pressure vessels

Our world-class boiler and pressure vessel plate provides strength, durability and shape properties, under arduous temperature and pressure conditions.

We supplied boiler-quality plate up to 80mm thick for a series of pressure vessels for the White Rose Floating Production Storage and Offloading facility. They will be put to use in the demanding environment of the North Atlantic Ocean.



Renewable energy

Plates and components for onshore and offshore wind towers are supplied, as well as efficient design solutions and products for tower foundations.

Corus supplied high-strength steel plate for the 30 wind towers that make up the UK's first major offshore wind farm at North Hoyle. Ranging in thickness from 6 to 32mm, the plates were precision-cut to within 2mm tolerances on 13m-long, arc-shaped profiles.



Shipbuilding

Many plate products are supplied into the shipbuilding industry, as well as bulb flats, wide flats, and laser-processable steels. Corus can supply plate with guaranteed pre- and post-cutting flatness.

Precision engineering

Harnessing the latest steelmaking technology, Corus plate is precision manufactured to meet stringent specifications.



Plate products

Corus offers an extensive range of plate products. We have invested heavily in steelmaking, rolling and processing equipment, as well as advanced IT systems, to ensure we produce world-class plate products, offering excellent strength, durability and shape properties.

Corus plate is manufactured with five different delivery conditions:

1. As rolled
2. Normalised rolled
3. TMCR (thermomechanically controlled rolled)
4. Normalised
5. Quenched and tempered

We offer a full range of offshore structural EN10225:2001 grades and EN10025:2004 structural grades compliant with the EU Construction Products Directive CPD 89/106/EC. These include sophisticated steels, such as weldable finegrained grades and atmospheric corrosion resistant grades.

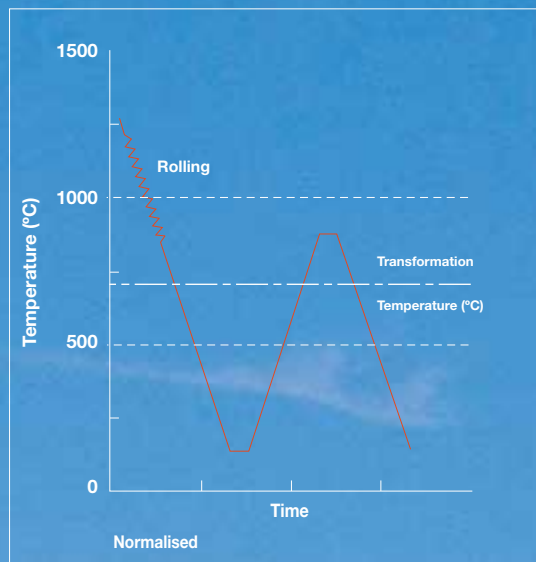


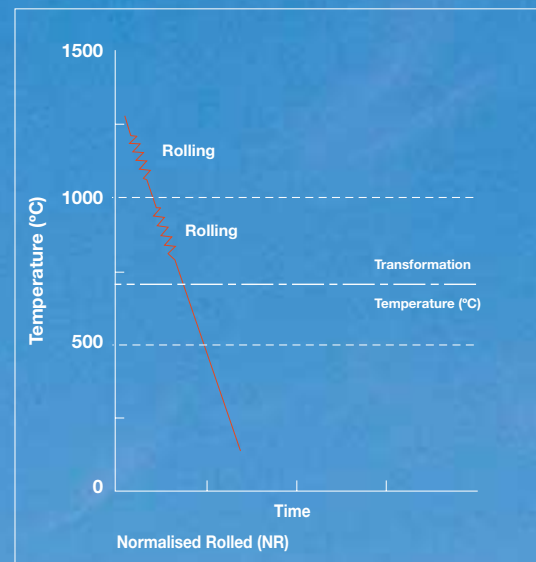
Plate properties

Plate sizes range from 5mm to 200mm thick, with widths up to 4m and lengths up to 25m. Plates with a nominal yield strength up to 355MPa can be supplied in either the as rolled, normalised or normalised rolled condition. Normalised plates are available up to 130mm thick, and are rolled from continuously-cast slab.

Normalised rolling is a process where the final deformation is carried out in a specific temperature range, (see below). This leads to a material condition equivalent to that obtained after normalising, enabling the specified mechanical properties to be retained. Normalised rolled plates are available up to 60mm thick.

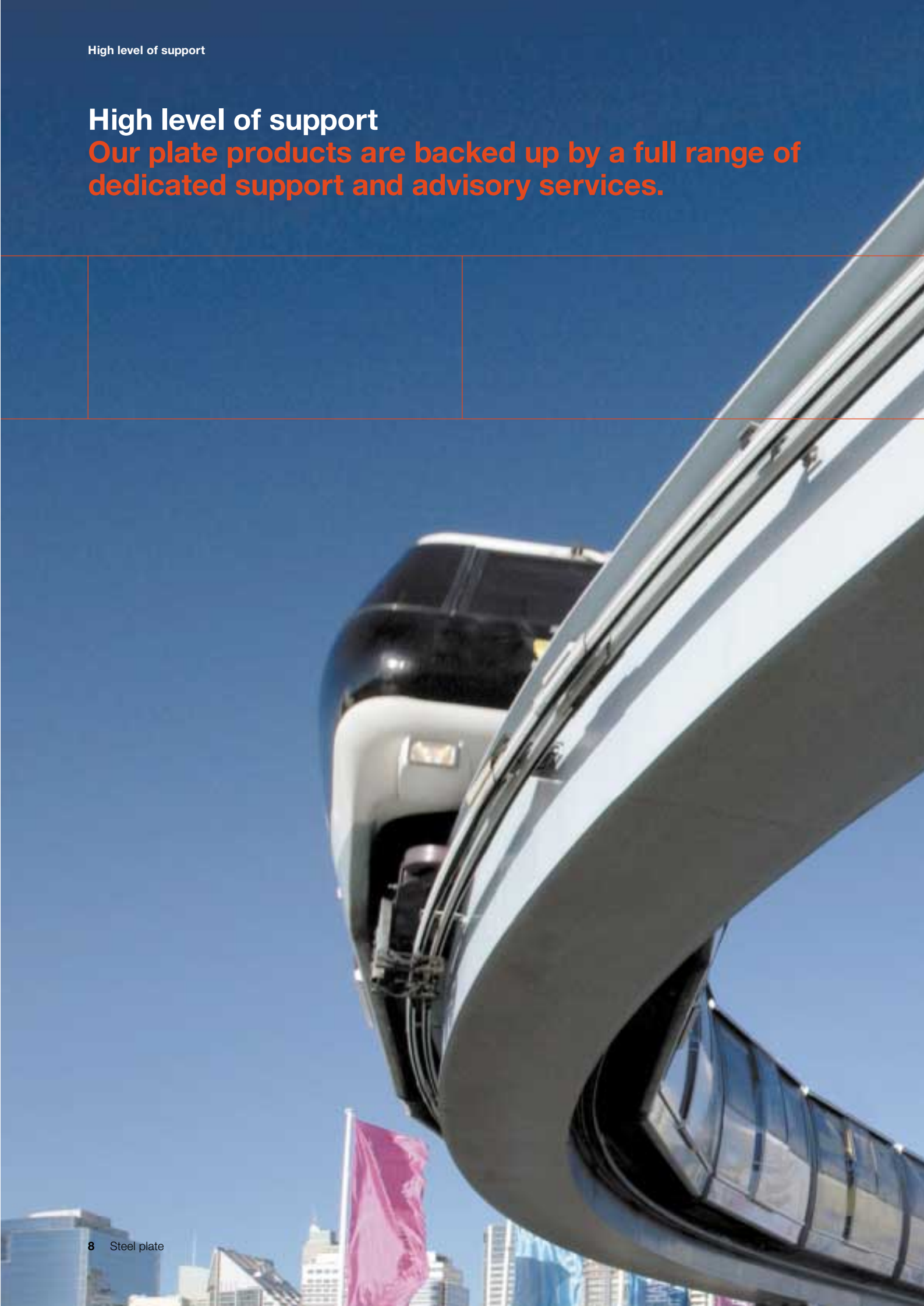
We maintain close control of chemical composition to produce clean steels with consistent strength and toughness properties. Corus steel grades meet all relevant national standards, and our state-of-the art levellers produce flat plates with controlled residual stress.

Detailed information about the plate sizes available can be found in our technical brochure, 'Plate products range of sizes.' Please contact us to request a copy.



High level of support

Our plate products are backed up by a full range of dedicated support and advisory services.



Account management

Our account managers offer a single point of contact, overseeing all aspects of customer enquiries, sales and service. They act as the interface between customers and other Corus departments, such as design, technology, engineering and logistics.

Supply chain specialists

Corus has been supplying diverse markets, from shipbuilding and offshore oil and gas to machinery fabrication and construction, for many years. We know that excellent delivery performance is essential, and have the systems and resources to ensure the whole supply chain operates efficiently, to meet the demands of our customers. We aim to spread the benefits of our expertise and high standards throughout the supply chains we serve.

Engineering excellence

Our long-standing expertise helps us to understand customer requirements and provide valuable support through project management and related engineering services, such as fabrication, installation, erection, operation, maintenance, plant condition monitoring and structural inspections.

Project management

We understand the importance of professional project management to ensure that major contracts are delivered on time. Our mill-based project management team coordinates each contract from pre-production

planning, through to post-production support. The project manager aims to understand and meet each customer's requirements fully, and organise our resources to ensure a smooth and successful delivery throughout the project.

Technical expertise

To help customers gain the greatest value from our products, we offer specialist support from experienced technical and metallurgical professionals. Close working relationships allow us to optimise customers', materials and streamline workflow methods.

Pre-fabrication services

Our extensive workshops offer a full range of pre-fabrication services including shot blasting and surface priming, high-quality welding, bending and can production, edge preparation, drilling and profiling to any shape. We have considerable experience in dealing with heavy engineering projects, such as manufacturing components for offshore installations.

Reliable delivery

The latest planning and scheduling systems, combined with our long experience of handling transport and shipping throughout the world, enable us to offer a reliable delivery service to meet the requirements of any project.

Meeting the challenge

At Corus, quality comes first, and our products and processes meet all relevant international quality assurance standards.

Our established track record in many industries assures customers of the quality of our steel and our services. We have a rigorous quality assurance programme that ensures all parts of the production process operate in compliance with the ISO 9001:2000 quality standard. This covers all our business systems, operations, inspection and testing.

With such meticulous attention to maintaining high quality standards, we have gained quality approvals for plate supply from Lloyds Register, Det Norske Veritas, Germanischer Lloyd, American Bureau of Shipping and the UK Ministry of Defence.

We also have approvals from leading offshore operators, including Shell, BP, Total, Phillips and Chevron.

Continuous improvement

At Corus we never stand still, and we are always developing and improving our systems, our processes, and our steels to ensure we continue to offer the highest quality products to our customers.





Main photo
Reichstag building
Berlin, Germany

Left
Docklands Light Rail Bridge
London, England

Fit for the future

Forward-looking and innovative, Corus is constantly developing to meet the evolving needs of its customers.



Looking ahead

Through ongoing research and development, we aim to continue to meet the ever-changing needs of our customers, whether they are involved in traditional markets, such as shipbuilding and construction, or emerging markets such as renewable energy generation.

Corus invests heavily in product development and research into the techniques associated with steel use. We are involved in many ground-breaking projects, including developing new technology to generate electricity from tidal flows. Areas of development in our world-class research facilities include structural integrity analysis, performance in service, corrosion protection, welding and fabrication.

The expertise we gain from such forward-looking development projects enables us to advise customers on the most cost-effective solutions for a wide range of existing and new applications.

Electronic advances

Corus is leading the way in the steel industry with the development of electronic communication systems. These give customers direct access to their orders and enable them to interact with Corus quickly and efficiently, 24 hours a day. A full range of services is available online, and we are continuing to enhance the way we harness the latest technology to make working with us simple and convenient.





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