



ArcelorMittal

news release

ArcelorMittal Solutions - Think steel first!

ArcelorMittal launches new initiative on solutions in sheet piles

Munich, 29 January 2019 – Whether it be protecting people and land from flooding, or whether it be building bridges or quay walls to ensure smooth mobility and transportation: steel sheet piles from ArcelorMittal offer smart and efficient solutions - easy and fast to install, long-lasting and sustainable over the entire life cycle of the infrastructure. At Bauma 2019, the world's leading construction machinery trade fair from 8 – 14 April in Munich, ArcelorMittal will launch its new initiative ArcelorMittal Solutions - Think steel first!, unveiling the true potential of steel sheet piling solutions to the construction business, as announced today at a Bauma media event in Munich. During the trade fair in April, ArcelorMittal will show its sheet piling solutions in Hall C5, booth 338.

Steel is essential to the modern world. Strong, flexible, adaptable as well as fully reusable and recyclable, it does not only contribute to the circular economy, but it is the material of choice for sustainable construction solutions in today's world.

Focused around 4 application domains, ArcelorMittal's unique sheet piling solutions offer exceptional benefits that help improve everyday life and ensure quick, cost-effective and environment friendly completion of the construction projects.

Water transport solutions

Building deep maritime infrastructure such as quay walls and breakwaters with ArcelorMittal unique steel sheet piling solutions, like the HZ®-M combined wall systems and the AS 500® circular cells, the life-time cost of the project can be drastically reduced. AMLoCor® corrosion-resistant steel grades reduce the effect of corrosion by a factor of up to 5 times, allowing for longer-lasting infrastructure. Made from fully recycled and recyclable steel, covered by an Environmental Product Declaration, steel sheet piles help reducing the environmental impact of the projects.

Hazard protection solutions

Dykes and flood protection barriers made from steel sheet piles are one of the most efficient ways to protect against flooding and rising sea levels. Requiring little equipment, sheet piles can be easily installed even in remote locations, with particularly short installation times thanks to AZ®-800, the widest sheet piles on the market.

ArcelorMittal's engineering and R&D teams continuously develop software and design methodologies with research institutions and consultants. They help designing steel sheet piling structures as well as simulating the effects of earthquakes and fire, respectively.

Mobility infrastructure solutions

Steel sheet piles are an excellent option for building bridges, underpasses, underground car parks, foundations, retaining walls or noise barriers.

Short installation times and efficient vibration-less installation techniques help delivering projects faster, saving costs and minimising the impact on the community. For example, building permanent bridge abutments with steel sheet piles significantly reduces the traffic disturbance and achieves up to 15% cost savings over the entire lifetime of the structure. The connection between concrete and steel can be designed with VLoad software. Building Information Models (BIM) digital files are available for ArcelorMittal sheet piles.

Environmental protection solutions

When faced with pollution, containment is vital. Steel sheet piles are used on a temporary and permanent basis in landfill deployment, soil remediation, riverbed cleaning operations or pollution containment. Impervious enclosures can be created to safely retain contaminated material and devise a remediation plan, thanks to ArcelorMittal's wide range of sealing solutions including AKILA®, an environmental-friendly sealant suitable for contact with drinking water.

Finally, ArcelorMittal offers customized solutions, tailored to the needs of their customers.

Outstanding support via technical teams, available around the world, underline the unique competitive edge of ArcelorMittal steel sheet piling solutions, leading to the conclusion: ArcelorMittal Solutions - Think steel first!

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Case studies for publication are available on the following topics:

Underground car park, Aalst

The steel sheet piles, which were first used to secure the excavation on the construction site, are now serving as the outer walls of the car park. This shows, how sheet piles can be used for multiple purposes, and be installed in complex configurations that fit into dense urban areas.

Port of Køge, Denmark

The port's extension doubled its size using AMLoCor® sheet piles. AMLoCor® is a corrosion resistant steel grade that ensures a long-lasting life span of maritime infrastructures.

Flood defence, Littlehampton

The HZ®-M combined wall system was found to be the most economic and technically feasible solution to improve the tidal flood defences in Littlehampton, on the South Coast of England.

Containment structure, Paris

The new, extra wide AZ-800 sheet piling range, together with the sophisticated sealing systems AKILA® of ArcelorMittal help to protect the largest water treatment plant in Paris from potentially hazardous flooding.

About ArcelorMittal

Sheetpiling

ArcelorMittal is the world's largest producer of hot-rolled steel sheet piles, cold formed sheet piles, bearing piles and foundation solutions. These are produced at Belval and Differdange in Luxembourg, Dąbrowa Górnicza in Poland (for U-shaped hot rolled sheet piles); 'Palfroid' in Messempré, France (for cold formed sheet piles) and Dintelmond in the Netherlands (steel tubes for foundations). ArcelorMittal Belval is the rolling mill of hot rolled steel sheet piles offering the largest product portfolio and has been playing a leading role in the development of piling technology for over 100 years.

Steel sheet piles are used worldwide for the construction of quays and harbours, locks and breakwaters, and for bank reinforcement on rivers and canals. Other applications are the protection of excavations on land and in water and excavation works for bridge abutments, retaining walls, foundation structures, etc.

ArcelorMittal's piling series are especially suitable for building reliable structures rapidly and cost-effectively. They are characterised by excellent section modulus to weight ratios and high moments of inertia.

The group offers worldwide comprehensive services and customised support to all the parties involved in the design, specification and installation of sheet and bearing piles, such as consulting engineers, architects, regional authorities, contractors, academics and their students.

<http://sheetpiling.arcelormittal.com>

Worldwide

ArcelorMittal is the world's leading steel and mining company, with a presence in 60 countries and an industrial footprint in 18 countries. Guided by a philosophy to produce safe, sustainable steel, we are the leading supplier of quality steel in the major global steel markets including automotive, construction, household appliances and packaging, with world-class research and development and outstanding distribution networks.

Through our core values of sustainability, quality and leadership, we operate responsibly with respect to the health, safety and wellbeing of our employees, contractors and the communities in which we operate.

For us, steel is the fabric of life, as it is at the heart of the modern world from railways to cars and washing machines. We are actively researching and producing steel-based technologies and solutions that make many of the products and components people use in their everyday lives more energy efficient.

We are one of the world's five largest producers of iron ore and metallurgical coal. With a geographically diversified portfolio of iron ore and coal assets, we are strategically positioned to serve our network of steel plants and the external global market. While our steel operations are important customers, our supply to the external market is increasing as we grow.

In 2018, ArcelorMittal had revenues of \$76 billion and crude steel production of 92.5 million metric tonnes, while own iron ore production reached 58.5 million metric tonnes.

ArcelorMittal is listed on the stock exchanges of New York (MT), Amsterdam (MT), Paris (MT), Luxembourg (MT) and on the Spanish stock exchanges of Barcelona, Bilbao, Madrid and Valencia (MTS).

For more information about ArcelorMittal please visit: <http://corporate.arcelormittal.com/>