

ArcelorMittal Sheet Piling



ArcelorMittal

Think steel first!



Project development is now as easy  
as making coffee

Building infrastructure projects with our innovative  
solutions and unmatched services facilitates the  
delivery of global goods right to your doorstep.

# Think steel first!

## Easy | Fast | Long lasting | Sustainable

Steel is essential to modern construction.

Flexible, adaptable, strong, durable, reusable and entirely recyclable, steel is the material of choice for sustainable solutions in today's economy.

Choose ArcelorMittal steel sheet piling solutions and turn your ideas into reality. Our professional teams stand behind you to ensure the success of your projects, from start to finish.

Our advanced and sustainable solutions take your projects further, with unmatched technical support, careful planning and certified quality.



**Water  
Transport  
Solutions**

Breakwaters, quay walls, jetties, dolphins, locks, canals and land reclamation...



**Hazard  
Protection  
Solutions**

Dykes, dams, river embankments, flood protection barriers, tidal defences and reservoirs...



**Mobility  
Infrastructure  
Solutions**

Road and railway bridge abutments, tunnels, underpasses, noise barriers, foundations, basements and underground car parks...



**Environmental  
Protection  
Solutions**

Containment structures, water management, polluted soil remediation, landfill conversion and leachate cut-off...



# Cost-effective and sustainable water transport infrastructures

**Water-based transport is essential to our global economy. Maritime and fluvial transport requires a safe and reliable infrastructure network.**

For over a hundred years, steel sheet piling products have been chosen to build all types of maritime infrastructures such as breakwaters, quay walls, jetties, canals and locks.

Steel sheet piling solutions are cost-effective, quick to execute and durable, with low maintenance requirements throughout their service life.

ArcelorMittal's engineering and R&D teams continuously enhance our products and services. We collaborate with research institutions and consultants to develop **design software like AMRetain® and Durability**, as well as new construction methodologies.

**AZ®-M combined wall and AS 500® cellular systems** are ideal solutions for deep-water port construction and land reclamation. These systems reduce the total life-time cost of the project.

Steel sheet piles are 100% recyclable and a highly sustainable solution. Specific **European Environmental Product Declarations** are available for ArcelorMittal Sheet Piling's product range.

## Facts and figures

- + Up to **13% cost reduction** and **20% shorter construction time**
- + **AMLoCor® steel grades** are up to **5 times more corrosion-resistant** than standard steel
- + **Steel sheet pile walls** have up to **25% lower carbon-footprint** than equivalent concrete walls



## Container terminal, Køge, DK

**AMLoCor® corrosion-resistant steel grades** used for the expansion of the port ensure long-lasting and maintenance-free maritime infrastructures.



# Faster construction of flood protection barriers with steel sheet piles

**Keeping us safe with steel sheet piling solutions. Steel sheet piles help safeguard our communities from natural disasters.**

Dykes and flood protection barriers made of steel sheet piles are one of the most efficient ways to protect against flooding and rising sea levels. Requiring little equipment, they can be easily installed even in remote locations with **certified quality** anywhere in the world. **Dixeran® on-site declutching detectors** ensure the integrity of the installation.

In seismic areas, emerging **performance-based design** methodologies reveal the true potential of steel sheet piling solutions to withstand earthquakes. ArcelorMittal's engineering teams help design safe steel sheet piling structures by simulating the effects of earthquakes or fire.



Simulation of a seismic loading with PLAXIS™ software

## Facts and figures

- + AZ®-800 are 14% wider to allow a faster installation
- + Fast delivery from stock for emergency situations
- + Steel's natural ductility makes sheet piling the safest choice in seismic areas



## Flood barrier, Littlehampton, UK

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



# Less disruptive, cost-effective and quicker infrastructure constructions

**Efficient and reliable mobility infrastructures make your journey smoother and safer.**

The unique properties of steel sheet piles make them an excellent option for building road and railway infrastructures.

Projects are delivered faster, thanks to shorter installation times, reducing costs. Sheet piles can be installed in complex configurations. **Silent and low-vibration installation techniques** minimise impacts on the community in urban settings.

Our technical departments support project developers and engineers in selecting and designing the optimal steel solutions, with the help of ArcelorMittal **design software**, such as **AMRetain™**, **ProSheet**, **Durability**, **SAFIR** or **VLoad**.

Building Information Modelling (BIM) digital objects are available for ArcelorMittal steel sheet piles.

## Facts and figures

- + Steel sheet pile walls **cost up to 50% less** than traditional concrete walls
- + Building bridge abutments with steel sheet piles is **10% faster** and reduce **traffic disruption**
- + **15% less economic impact on the community** over service life, from shorter construction time and reduced maintenance



## Underground car park, Aalst, BE

The steel sheet piles first used to support the excavation, also serve as the permanent outer walls of the car park. They were installed with low-vibration techniques to preserve the surrounding city centre.



# Impervious, reusable and sustainable containment structures

**Steel helps to protect our future.  
When faced with pollution, containment is vital.**

Steel sheet piles are used on a temporary or permanent basis in landfill conversion, polluted soil remediation, riverbed cleaning operations and pollution containment.

Impervious enclosures can be created quickly with AZ®-800 wide steel sheet piles, to safely retain contaminated material as part of a remediation plan. ArcelorMittal's wide range of sealing solutions ensure complete water-tightness, even in the presence of highly aggressive chemicals.

**Steel is a permanent material: never consumed, but continuously transformed and reused, thus reducing the pressure on limited natural resources.**

Steel sheet piles are a major contributor to the circular economy. They are reusable and 100% recyclable.

ArcelorMittal's **EcoSheetPiles™** are produced from 100% recycled steel.



## Facts and figures

- + AKILA® is a high-performance sealant suitable for contact with groundwater
- + Steel sheet piles can be **reused several times** to reduce the carbon footprint of temporary retaining walls
- + **Customised fabrication and assembling** solutions adapted to customers' requirements



## Water treatment plant, Paris, FR

To protect a water treatment plant near Paris, a 300,000 m<sup>3</sup> retention basin was built using steel sheet piles and specifically designed to reduce the impact on the nearby forest.

# 5 reasons to think steel first!

## ArcelorMittal steel sheet piles are manufactured in Europe.

Our values are sustainability, quality and leadership. We offer the widest range of products and services, focused on bringing the best added-value to our customers.

ArcelorMittal Sheet Piling provides cost-competitive solutions and certified quality for its customers, while considering society's expectations for a more circular and less carbon-intensive economy.

### 2 Certified quality

Steel sheet piles allow for long-lasting structures with on-site integrity control and limited maintenance requirements.

### 3 Customised solution

Development of individualised steel solutions from an extensive range of products, accessories and bespoke fabrication.

### 1 Fast execution

Projects with steel sheet piling solutions expedite execution, need less equipment and reduce impact on the environment.

### 4 Outstanding support

Throughout the project we support our clients with professional engineering, customised delivery plans and installation support.

### 5 Sustainable material

ArcelorMittal sheet piles can be used multiple times. All sheet piles are 100% recyclable and made from recycled steel.

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