

ArcelorMittal Projects



ArcelorMittal

Services and products



Company profile

ArcelorMittal

ArcelorMittal is the world's number one steel company, with 310,000 employees in more than 60 countries. It has led the consolidation of the world steel industry and today ranks as the only truly global steelmaker. ArcelorMittal is the leader in all major global markets, including automotive, construction, household appliances and packaging.

The Group leads in R&D and technology, holds sizeable captive supplies of raw materials and operates extensive distribution networks. Its industrial presence in Europe, Asia, Africa and America gives the Group exposure to all the key steel markets, from emerging to mature. ArcelorMittal will be looking to develop positions in the high-growth Chinese and Indian markets. ArcelorMittal key unaudited financials for 2007 show revenues of US\$ 105.2 billion, with a crude steel production of 116 million tonnes, representing around 10% of world steel output. ArcelorMittal is currently listed on the stock exchanges of New York, Amsterdam, Paris, Brussels, Luxembourg and on the Spanish stock exchanges of Barcelona, Bilbao, Madrid and Valencia.

ArcelorMittal Projects

ArcelorMittal Projects' mission statement is "to provide complete steel foundation solutions to its customers on a worldwide basis". In order to answer to the needs of steel supply of complex projects in the civil engineering and foundation business, ArcelorMittal Projects established a large network of stocking locations, fabrication and production facilities and sales agencies throughout the world. In 2007 ArcelorMittal Projects employed approximately 700 associates and delivered steel solutions to customers in 35 different countries. It shipped over 1 mio ton of steel and realized a turnover in 2007 of 900 million euros. The headquarters of ArcelorMittal Projects are in Luxembourg.

ArcelorMittal Projects in Europe - Middle East - Africa

Our central hub for delivery of the steel foundation solutions to our customers is based in the Netherlands, close to the port of Rotterdam. With access to a deep-water port, ArcelorMittal Projects owns a state-of-the-art spirally welded piping production facility dedicated to the foundation business. With the possibility to make pipes up to 3000 mm diameter and 25 mm wall thickness, ArcelorMittal Projects is able to answer in close collaboration with its colleagues of ArcelorMittal Commercial RPS to a large scale of demands for foundation applications. ArcelorMittal Projects also has different fabrication halls to prepare material for direct use such as: welding clutches for combined walls, welding pipes to length, fabricating special piles such as box piles, MV-piles, etc. ArcelorMittal Projects has large stocks of sheet piles produced by ArcelorMittal RPS, pipes and other material related to foundation applications. For creating optimized solutions ArcelorMittal Projects can supply engineering support such as calculations, driving plans, optimizations.



products

Steel sheet piles

Steel sheet piles of ArcelorMittal are used worldwide in a broad range of applications. This is the result of continuous development and extension of the sales program. ArcelorMittal Projects offers a wide range of sheet piles. For each project with its typical conditions an optimized profile can be chosen. ArcelorMittal sheet piles are characterized by unexcelled properties like weight/section modulus ratios, drivability properties, corrosion resistance, etc.

The complete range of steel sheet piles consists of:

- Z sections (AZ)
- U sections (AU, GU, PU and PU-R sections)
- Straight web sections (AS)

We can also offer the following cold formed sheet piles :

- Z sections (PAZ)
- U sections (PAU and PAL)
- Trench sheeting walls (RC)sts.



AZ sections

The unique characteristics of the Z sheet pile are the continuous form of the web and the specific location of the interlocks on the outside of the profile, presenting the following advantages:

- An extremely competitive relation section modulus/mass;
- An increased inertia reducing the deflection;
- No reduction of bending moment due to oblique bending or displacement of the neutral axis.



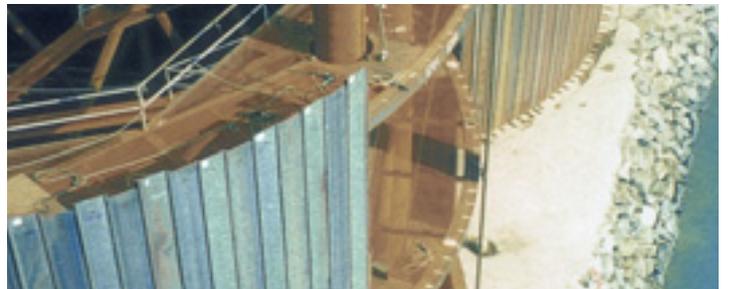
AU, GU, PU and PU-R sections

Since the beginning of the 20th century millions of tons of U sheet piles have been used all over the world for every kind of structure. The advantages of U piles are multiple:

- A wide range of sections forming several series with various geometrical characteristics, offering the choice of the section technically and economically best suited for a specific project;
- Easy fixing of tie rods and swivelling attachments, even under water.

AS sections

ArcelorMittal's straight web sheet piles are the strongest in the world. Thanks to the triple contact in the interlocks, an interlock strength of 5500kN/m can be obtained (AS 500-12.7).



Products

Steel tubes

ArcelorMittal Projects has an unequalled experience in tube deliveries for foundation purposes.

With the bundling of activities of our companies formerly known as ARBED Damwand and De Boer Buizen a unique combination was created with roots in several pipe mills and trading companies.

In the 80's we saw an increased number of big projects in the Rotterdam area. For the foundation of these quay walls, tunnels, etc., a large quantity of big diameter pipes was used. Both De Boer Buizen and ARBED Damwand played a crucial role in the development and optimisation of steel pipes for foundation purposes.

This enormous experience will be used every day for our clients to guarantee the best solution for their steel tube foundations.

Some purposes that we reckon to be our specialties are:

- Combi piles
- Foundation piles for jetties, off-shore platforms and LNG-terminals
- Mooring piles, dolphins, etc.
- Foundation piles for bridges and on-shore foundations
- Micro-piles
- Struts in building pits

In order to be the best supplier for steel pipe foundations we have the following pillars to rely on:



Spiral mill

The spiral mill is located in Dintelmond. This mill is especially designed for spirally welded pipes for foundation purposes.

It's strong points are:

- Production 100 % controlled and certified with delivery of 3.2. certificate according to EN 10204:2004.
- Pipes can be produced with diameters up to 3000mm and wall thicknesses up to 25mm.
- All requested steel grades are possible due to our worldwide network of coil suppliers.
- Pipes can be produced in lengths up to 49m without butt-weld. Longer tubes can be achieved by welding.
- Coating facility present at the same location as the production entity.
- Several specialized welding facilities placed in line with the spiral mill for executing specific works like welding clutches or other steel parts and making butt welds.



Stock

ArcelorMittal Projects created, through its long experience in sales of steel pipes, an extensive network of pipe mills with whom direct relations were established.

Due to the "no-risk" policy in the oil- and gas industry, steel pipes are produced in excess in case of planned pipelines. After executing these projects, the present reserves are sold for other purposes.

ArcelorMittal Projects purchases these high quality overrollings for its stock.

Ten thousands of tons of stock pipes are at your disposal for your foundation projects. In our welding halls we will make finished products out of these base materials. Our sales team is at your disposal to work out a custom-made solution at your convenience.



Other tubes

If our spiral mill and our present stock can't foresee in the solution to your inquiry we can rely on our global network of pipe mills.

In this light we can mention pipe mills producing longitudinally welded pipes with heavy wall thickness or small diameter pipes.

products

combined walls

The speciality of ArcelorMittal Projects is the delivery of combined walls. The combined wall is the most economical solution for retaining walls resisting heavy loads. In case ordinary sheet pile walls are not sufficient anymore, a huge range of possibilities in combined walls occurs.

Combined walls are to be divided in two types:

1. HZ-system

The HZ-system combines HZ-beams as structural supports with AZ sheet piles as intermediate infill elements.



2. Combined walls with tubular piles

The combiwall combines tubular piles as structural supports with Z- or U-shaped sheet piles as intermediate infill elements. ArcelorMittal Projects logically makes use of the unbeaten Arcelor sheet piles.



For the tubular piles we can use our own pipes produced in the ArcelorMittal Projects Spiral Mill. Besides this we can also fall back upon a huge stock of pipes consisting of surplus pipes or overrollings. In case tubular pipes are required beyond the scope of the spiral mill we can offer you our long lasting relation with specialized tube mills with their specific strengths and production ranges.



Because of this unique combination of the most performing sheet piles worldwide, our own pipe production facility and a huge stock, we will always be able to fulfil the client specific requirements and topics in an unexcelled way. To be mentioned are:

- Walls with high strength and stiffness
- Most economic solution
- Quick delivery time
- Specific diameter or wall thickness
- Specific anchorage distances

For producing both the HZ-system and the combiwall additional welding works need to be done. For both solutions we have fully adjusted welding facilities to ensure high volumes with a high quality level in an economic way.

State-of-the-art is the fully automatic clutch weld machine standing serial after the spiral mill. The production of complete end products is integrated in one process.

Products

HP steel bearing piles

HP bearing piles are special H beam sections with web and flange of the same thickness.





In comparison to conventional H beam sections, HP sections have the following advantages:

- Higher stability of form during driving thanks to the higher web stiffness;
- Higher durability because of the uniform cross section;
- Higher bearing capacity due to a better weight/perimeter ratio.



HP foundation piles can be charged with compression as well as tension. According to the application, the piles can be modified by enlarging the toe or by injecting grout during the installation process (MV piles). Injected piles can take very high tensile forces (≥ 500 tons per pile).

HP piles can be delivered in several steel grades in accordance with EN 10025:2004, 10113-3:1993 and HISTAR 355 and 460. HISTAR 500 can be delivered on request.



Services

Fabrication of end products

ArcelorMittal Projects has its own construction workshops. All client specific requirements can be produced in our welding facilities executed by 100% certified people under high safety regulations.





Some of our value adding services are:

- Construction of:
 - piles for combined walls by bringing the piles on the right length and providing them with interlocks
 - special sheet piles
 - bended sheet piles
 - box piles
 - walings and struts to support sheet pile walls
 - MV piles
- Sealing of the sheet pile interlocks:
 - Beltan: bituminous sealer for interlocks
 - Roxan: water-swelling polyurethane
 - welding of the threaded interlocks of double or triple sheet piles
- Coating:
 - When the end products need a protective coating, Arcelor Projects also provides in this.



Services

Technical support

Utilizing all the possibilities mentioned before, a team of engineers is at your disposal to help you in creating the best solution. Our people can translate the client's needs into a best-fit design taking into account all important conditions.

Services



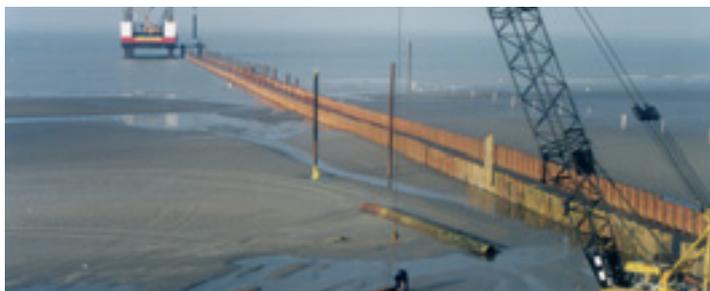
Rental / buy-back

For temporary use of steel foundation products ArcelorMittal Projects can offer you rental or buy-back contracts.



Steel sheet piles are very suitable for use in temporary constructions such as building pits, pipe trenches, dams, etc. Steel sheet piles can easily be removed and re-used.

ArcelorMittal Projects has a large stock of used sheet piles for sale, rent or buy-back. Also HZ profiles, from temporary combined walls, are regularly to be found on stock. Besides sheet piles and HZ profiles we can deliver tubes for temporary works, for example struts.



Services



logistics

ArcelorMittal Projects takes care of the logistic process from base product to end product and delivery on the jobsite. The logistic department arranges the national and international transport by truck, train or vessel. We can provide all the necessary transport and export documents as well as the insurances.



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Foundation solutions

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