

# News release

## **ArcelorMittal develops new corrosion-resistant steel grade**

Luxembourg, 22 February 2012 - ArcelorMittal has developed a new 'low corrosion' steel grade for sheet piles that will revolutionise the design of port structures, allowing design engineers and port authorities to build more durable quay walls, breakwaters and jetties. This achievement is a result of the collaboration between the R&D centre in Esch-sur-Alzette, the steel shop in Differdange, the rolling mill in Belval and Commercial RPS (Rails, Piles, Special sections) as well as the mills in Bremen and Duisburg in Germany.

The key advantage of this product called AMLoCor™ is a significant reduction of the corrosion rates in seawater, specifically in low water zones and permanent immersion zones. Tests in European ports as well as laboratory tests have proved that corrosion is reduced by between three and five times when using AMLoCor™, compared to a standard structural steel.

"AMLoCor™ also leads to considerable savings in steel weight compared to an unprotected standard structural steel. That is a major advantage against alternative solutions that use concrete", says Jacques Hoffmann, Head of the ArcelorMittal Research Centre in Esch.

Thus the new steel grade will allow engineers to design even more cost-effective structures that will last for 50 years and more without any additional surface protection.

Further, AMLoCor™ protects steel from accelerated low water corrosion which follows biological activity speeding up the degradation of steel in some ports. The first quay wall using AMLoCor has already been built in the Port of Shoreham, on the south coast of England. This wall is equipped with special devices developed by ArcelorMittal's Research and Development (R&D) Centre in Esch-sur-Alzette that will monitor the residual thickness of the steel wall.

## **About ArcelorMittal**

### **Luxembourg**

*ArcelorMittal has its worldwide headquarters in Luxembourg. The group is present at 16 sites in the country, including corporate centers in Luxembourg-City and Esch-sur-Alzette, various steel production facilities of long, flat and wire products as well as distribution and steel service centers. ArcelorMittal also runs a R&D Center in Esch-sur-Alzette. ArcelorMittal Luxembourg is a top producer of long products like beams and steel sheet piles that provide innovative solutions to the modern construction industry. Heavy Jumbo sections and high performance steel grades from ArcelorMittal in Differdange have a worldwide reputation for use in high rise buildings and save up to 40% of material weight (and accordingly CO2). Steel sheet piles from ArcelorMittal in Belval have achieved leadership in this market segment through high quality and reliability. In Dudelange ArcelorMittal produces high added value flat steel sheets, which deliver lightweight solutions for the automotive industry. In 2011 ArcelorMittal produced 2.6 million tonnes of crude steel in Luxembourg.*

### **Worldwide**

*ArcelorMittal is the world's leading steel and mining company, with a presence in more than 60 countries. ArcelorMittal is the leader in all major global carbon steel markets, including automotive, construction, household appliances and packaging, with leading R&D and technology. The Group also has a world class mining business with a global portfolio of over 20 mines in operation and development, and is the world's 4th largest iron ore producer. With operations in over 22 countries spanning four continents, the Company covers all of the key industrial markets, from emerging to mature, and has outstanding distribution networks. Through its core values of sustainability, quality and leadership, ArcelorMittal commits to operating in a responsible way with respect to the health, safety and well-being of its employees, contractors and the communities in which it operates. It is also committed to the sustainable management of the environment. It takes a leading role in the industry's efforts to develop breakthrough steelmaking technologies and is actively researching and developing steel-based technologies and solutions that contribute to combat climate change. ArcelorMittal is a member of the FTSE4Good Index and the Dow Jones Sustainability World Index. In 2011, ArcelorMittal had revenues of \$94.0 billion and crude steel production of 91.9 million tonnes, representing approximately 6 per cent of world steel output. The Group's mining operations produced 54 million tonnes of iron ore and 8 million tonnes of metallurgical coal. 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 visit: [www.arcelormittal.com](http://www.arcelormittal.com).*

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