

Press release

Façade, roof and supporting structure: ArcelorMittal presents the latest steel solutions for sustainable construction at BAU in Munich

- ArcelorMittal's XCarb® steels make a positive contribution to the environmental balance of construction projects
- Business units showcase a wide range of steel applications



Granite® HDXtreme steel solutions are designed for buildings in particularly harsh environments. (© Tom Clausen/shutterstock.com, edited by Philippe Vandenameele)

Munich, 24 January 2023 – Robust, sustainable and as eye-catching as possible: steel as a material is playing an increasingly important role in resource-efficient construction. Steel is versatile, fully recyclable and – thanks to innovative technologies – can be manufactured with a smaller carbon footprint: The use of steel products with reduced CO₂ emissions represents further progress towards a climate-neutral construction industry. At the world's leading trade fair for the construction sector, BAU, from 17 to 22 April in Munich, ArcelorMittal's business units will present a wide range of products on offer: from façade solutions and load-bearing structures to roof structures for photovoltaic systems.

"This year our focus is on the topic of sustainable construction with steel, highlighting the role that low carbon emissions steel can play in reducing the carbon footprint of the construction sector. Manufacturing methods are changing, which means the use of renewable energies and scrap are increasing. As a durable, infinitely recyclable, but also very versatile material, steel is suitable for any use in the construction industry. And it is an important material in the energy transition, with low-carbon emissions steel needed for wind power or photovoltaics.

Visitors to BAU will be able to see this for themselves," says Tapas Rajderkar, Chief Marketing Officer of ArcelorMittal Europe – Long Products.

Carbon emissions reduction thanks to XCarb® steels

Sustainability, circular economy and ArcelorMittal's XCarb® range are in focus this year. This brings together all the group's manufacturing processes, products, initiatives and innovation projects aimed at reducing CO₂ emissions. XCarb® recycled and renewable produced steel is made in an Electric Arc Furnace (EAF), using 100% renewable electricity and up to 100% scrap, significantly reducing the carbon footprint of steel buildings. Emissions can be as low as 300 kilograms CO₂ per tonne compared with over two tonnes for steel produced conventionally. In the construction of an industrial hall, for example, recycled and with renewably electricity produced steel can save as many tonnes of CO₂ as the total steel tonnage required for the building envelope and supporting structure, without changing the construction method or the established building process.

Sustainability goes hand in hand with quality at the world's leading steel and mining group. In addition to the aesthetic aspect, the performance and recyclability of the materials and the construction elements used have an impact on the life cycle assessment of a building. The use of high-strength steels contributes to a reduction in the carbon footprint. For example, for the same load-bearing capacity, the carbon footprint of a beam can be reduced by 15 to 20 per cent. When using a composite deck instead of a conventional precast concrete one, the reduction is up to 30% percent.

Wide range of applications in construction

With the Granite® product family, ArcelorMittal offers a range of organic coated steels for building envelopes with more than 120 colours and textures, guaranteed for up to 40 years. For façade substructures, solar mounting structures, but also cable trays, composite floors, and many more applications, Magnelis® metallic coated steel resists corrosion three times better than regular galvanised steel. Both products are available as XCarb® recycled and renewably produced.

Since the beginning of the year, ArcelorMittal has been using a new type of coating process. The electrobeam technology for curing paints comes with almost no solvents and significantly reduces greenhouse gas emissions.

Special roof panels for photovoltaic systems

A few years ago, a solar/photovoltaic system was still a "nice to have", but today it is a standard feature and has even become mandatory for new commercial buildings. Among other things, ArcelorMittal specialises in the installation of photovoltaic modules on roofs and will be showing its portfolio at BAU. Whether renovating existing buildings or constructing new ones: the Ondatherm Solar® roof panel offers simple and quick installation for photovoltaic systems, is also robust and provides a high level of thermal protection. Various flexible solutions are available to customers and builders for mounting the modules.

Sustainable supporting structures

ArcelorMittal will also present its solutions for load-bearing structures at BAU. The Cofraplus® 80 composite floor profiles are approved by the building authorities as prefabricated steel floors and have a significantly lower carbon footprint compared to prefabricated concrete slabs. For structural applications, the high-strength HISTAR® steels provide cost and material savings. The weather-resistant Arcorox® steel grade with natural corrosion protection has a long service life and is already being used successfully in bridge construction projects.

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About ArcelorMittal

ArcelorMittal is the world's leading steel and mining company, with a presence in 60 countries and primary steelmaking facilities in 16 countries. In 2021, ArcelorMittal had revenues of \$76.6 billion and crude steel production of 69.1 million metric tonnes, while iron ore production reached 50.9 million metric tonnes.

Our purpose is to produce ever smarter steels that have a positive benefit for people and planet. Steels made using innovative processes which use less energy, emit significantly less carbon and reduce costs. Steels that are cleaner, stronger and reusable. Steels for electric vehicles and renewable energy infrastructure that will support societies as they transform through this century. With steel at our core, our inventive people and an entrepreneurial culture at heart, we will support the world in making that change. This is what we believe it takes to be the steel company of the future.

Decarbonisation is the most important aspect of ArcelorMittal's long-term strategy. We are aligning with the Paris Agreement's goals and the European Green Deal by committing to reduce European CO₂ emissions by 35% by 2030 and be net-zero by 2050.

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/>