

Beautiful steel



The Steel envelope initiative is part of the dialogue between ArcelorMittal Europe – Flat Products and architects, engineers, contractors and manufacturers.



Steel is a uniquely beautiful, resilient and sustainable building material. 'Steel envelope' is designed to showcase this potential and give a flavour of ArcelorMittal's steel construction solutions - combining inspiration, performance and building protection to suit your projects and the users of your buildings.

The palette of steels within Steel envelope is an invitation not only to discover ArcelorMittal steel, but to continue the dialogue with us so that we can create, co-engineer and construct the most inspirational of steel buildings together.

Lakshmi N. Mittal
Chairman and CEO ArcelorMittal



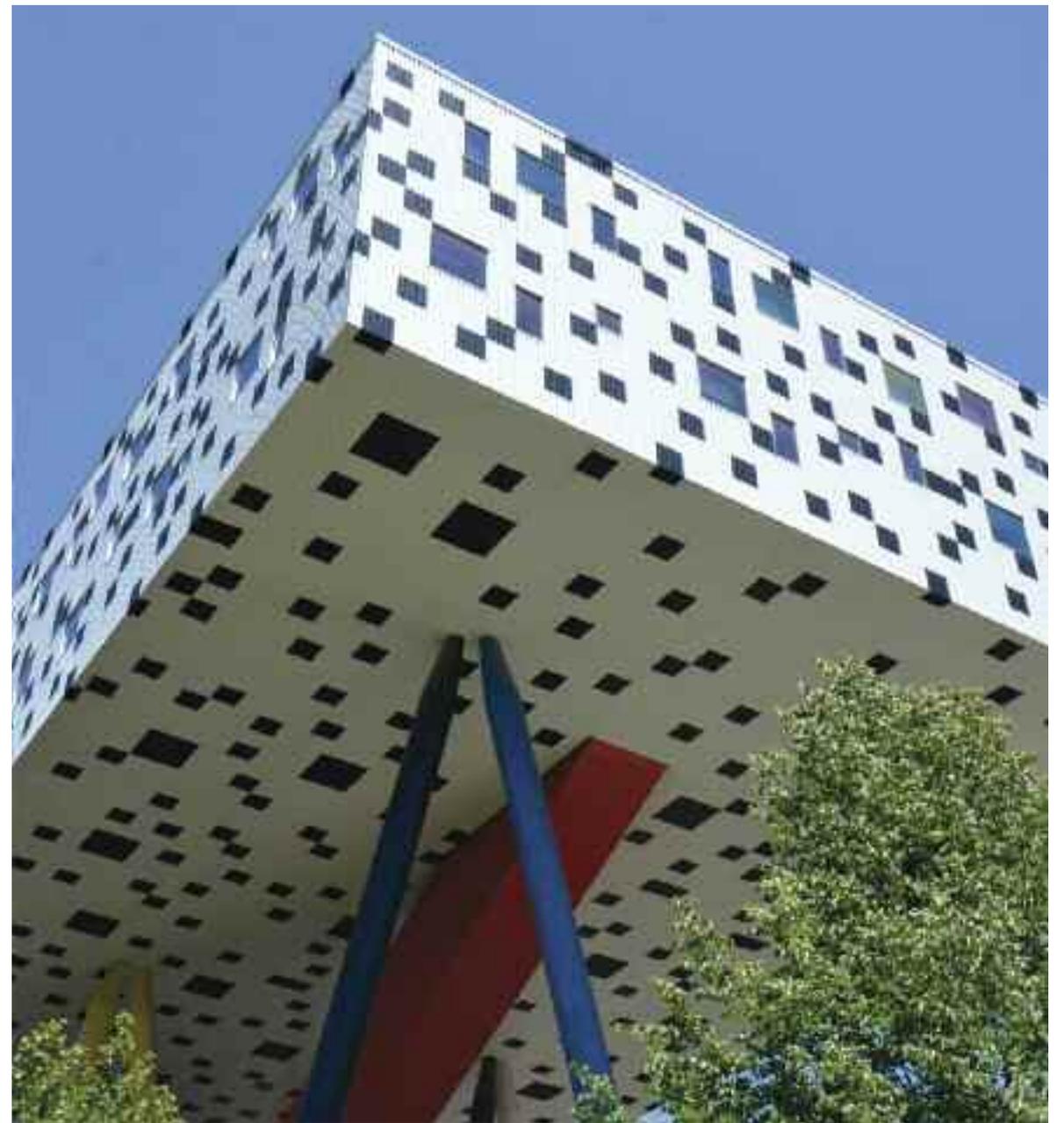






Left Project: Portia Winery in Ribera del Duero, Spain Architect: © Nigel Young, Foster + Partners Photography: © Foster + Partners

Right Project: Ontario College of Art & Design (OCAD) Architect: © Alsop Architects and Robbie/Young + Wright Architects Photography: © Terri Meyer Boake, University of Waterloo Architecture



Sustainable steel

The mechanical resistance to mass ratio of steel is exceptionally high.

Using steel to construct means lighter buildings, smaller foundations, lower quantities of material to transport, dry and rapid construction on site – with the obvious associated environmental benefits.

Added to this is the potential for steel to be 100% recycled.

It can be dismantled, reclaimed, restored to its original strength and re-used. Steel has no ‘end of life’. Endless recyclability means lower consumption of natural resources.

Building with steel can simply mean consuming less.

Vibrant steel

As well as its ability to perform, steel really is beautiful.

Expanding ranges of exciting new textures, patterns and colours offer the specifier startling and generous design opportunities – from subtle, smooth shades, to bold, deeply textured or matt patterns, to scintillating bare metal. There are even surfaces that change over time, evolving according to their physical contexts, responding to and enriching their environments.





Left Project: Zenith de Rouen, France Architect: Bernard Tschumi, Bernard Tschumi Architects
Photography: © Peter Mauss

Right Project: Centre de Maintenance Cargolux, Luxembourg-Findel Architect: © Jean-Luc Dupanloup, chef de projets, Jean-François Schmit Architectes
Photography: © Gaston Bergeret



Resilient steel

Few materials are as resilient as steel.

Steel will cope with hostile weather conditions, extreme temperatures and aggressive environments.

Steel can keep its sparkle, even by the sea; retain unblemished elegance in highly trafficked, prestige corporate interiors; hold its rich deep colour, even through Mediterranean summers.

Steel will perform and endure over time, keeping the weather out but helping control the temperature within, retaining its aesthetic impact, staying easy to clean, requiring little or no maintenance. Steel can resist fire, it is light and robust and therefore can even help people and buildings survive earthquakes - it makes our built environment a better and safer place to be.

Versatile steel

Ease of handling, excellent strength to weight ratios, formability and adaptability all make steel an ideal candidate for off-site prefabrication which speeds up construction.

Complete building sections, such as pre-tested facade, partition or roofing elements can be made off-site, reducing build timescales, increasing productivity and improving working conditions and safety.

This simplifies construction and allows faster return on investment along with prompt satisfaction of user demand - whether for residential, commercial or industrial space.



Communicate, collaborate, co-engineer, construct

ArcelorMittal is here to help you design and construct the best possible buildings.

By 'best' we mean highest performing, most beautiful, cost-effective, sustainable, enduring, iconic and the most fit for purpose.

To be able to do this, our experts are not only fully conversant in the characteristics and potential of our own products, but in new processing and building techniques or systems, and environmental best practice as well. They are experienced in the delivery of their knowledge to you in the form of guidance, online tools, face-to-face meetings, drawings and specifications.

Optimum results come from shared knowledge, ours and yours.

We want to talk to you about your buildings: to co-engineer, to collaborate and to construct with you to create the best.

*Project: Metal Foundation Asturias, Spain Architect: © [baragaño]architects
Photography: © Mariela Apollonio Fotógrafa de arquitectura*

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