



*The Arcus campus is formed as a Venetian square and features Granite® HDX throughout.*

# Impressive steels transform our built environment

ArcelorMittal's Granite® range of steels for facade and roofing solutions is available in an amazing array of colours and textures. Colours can even be tailor-made to transform our built environment into a work of art. As they are part of our Nature range and ECCA Premium® certified, you can be assured that ArcelorMittal's Granite® products are free of harmful chemicals and heavy metals. Good for the environment, good for life.

## Granite® HDX allows Arcus College to reach for the sky

Arcus College in Heerlen (the Netherlands) provides vocational training for up to 4,000 students each year. The College completed construction of its new campus using Granite® HDX from ArcelorMittal Europe – Flat Products. By utilising Granite® HDX, the architect achieved the unique combination of colour and finish the customer required, but at a significantly lower cost.

IAA Architecten initially designed the building to be completed in a gold-coloured aluminium facade which is highly fashionable, but actually found everywhere across the Netherlands. Instead Jack Muller BV, a leading steel service centre in the Netherlands, proposed a truly unique solution – ArcelorMittal's Granite® HDX in a champagne-gold finish.

### Guarantee unmatched by alternative materials

Granite® HDX comes with a guarantee of up to 35 years thanks to its 55 micron coating. "This guarantee was highly attractive to both IAA Architecten and the customer, and could not be matched by the proposed aluminium solution," notes Anita van Stiphout, commercial manager at Jack Muller BV which sourced the Granite® HDX



The champagne-gold colour of the Granite® HDX was specially created for Arcus.

Photography: ©Little Planet

coils from ArcelorMittal and cut them into sheets. Jack Muller BV then sent the cut sheets to ZND Nedicom who arranged for them to be finished in Germany.

Each panel was created in a complex pressing operation. "The architect chose this look to create a unique design," says Jack Muller, director and owner of Jack Muller BV. "It was created in a single step by a specialised company in Germany. The resulting long lines look like they are

reaching for the sky, emphasising the strength and height of the buildings." The lines also give the panels uniformity, further reinforcing the cohesive look across the entire site.

Another factor that swung the decision in favour of Granite® HDX was cost, explains Coen van Gorp, key account manager for ArcelorMittal in the Netherlands: "Normally when someone proposes an alternative material to an architect it is more

expensive, but the Granite® HDX solution we suggested was more cost effective."

### Living colour adds complexity

Colour flexibility was also very important for the architect. The champagne-gold colour used to coat the Granite® HDX changes subtly in different lights, adding complexity to the building facade. "It's a living colour, not a flat metallic surface," notes Glenn Muller, chief technical officer at Jack Muller. "The colour had to be created by ArcelorMittal, so it is completely unique and makes the Arcus College campus stand out. The architect and builder ZND Nedicom only approved the finish after the third colour match."

"Everyone is impressed by the colour and the material," notes Coen van Gorp. "That was only possible thanks to the magnificent teamwork between all parties involved." It's a sentiment that is echoed by Glenn Muller: "The architect would not have opted for Granite® HDX without the support of ArcelorMittal, Jack Muller BV, and ZND Nedicom. We are very proud to have been involved in creating such a beautiful, practical, and durable building."



Each panel was formed in a complex pressing operation to create long, clean lines.



© Kurp-dach

St Bartholomew's in Troszyn (Poland) features a new Granite® Impression roof.

## Granite® Impression gives new life to St Bartholomew's church

**Granite® Impression** from ArcelorMittal Europe – Flat Products has been used to create the new roof of St Bartholomew's fieldstone church in Troszyn (Poland). The organic coated steel was selected to replace the existing roof which had deteriorated significantly.

ArcelorMittal's Granite® Impression – Brown Agate was chosen for the new roof due to its authentic look, excellent corrosion resistance, light weight, and low cost compared to traditional solutions such as copper or clay tiles. It has a 35 micron coating and is offered with an automatic guarantee of up to 15 years.



© Kurp-dach

Granite® Impression is suitable for deep drawing into the most extreme profiles.

### Finishes inspired by Nature

Developed specifically for roofing and facade applications, Granite® Impression provided the perfect combination of aesthetics and functionality for this sensitive roof renovation project. It is available in five different finishes which are inspired by elements from nature including: Agate, Cloudy, Elephant, Snake and Wood. All colours are stable over time thanks to the excellent UV resistance (RUV4) of Granite® Impression. With its brownish-red shade, Granite® Impression – Brown Agate includes polished patterns which imitate the surface of copper, but at a significantly lower cost.

The solution was selected by Kurp-dach, a local Polish fabricator of steel roofs and long-time ArcelorMittal customer. ArcelorMittal supplied Kurp-dach with almost 16 tonnes of Granite® Impression – Brown Agate steel.

### Flexible paint system simplifies forming

Two different metallic substrates were utilised: S250 Z275 and S320

Z275. Almost 12 tonnes of S250 was supplied in coils 0.6 mm thick and 1,250 mm wide. Around 4 tonnes of S320 was supplied in coils 0.7 mm thick and 1,222 mm wide.

The roofing profiles were manufactured by Kurp-dach and then transported to the site. Granite® Impression has been specially developed for deep drawing into the most extreme profiles without any damage. This ensured the panels used on St Bartholomew's roof could be formed without affecting the paint layer.

Granite® Impression is unique in Europe thanks to its aesthetic characteristics. It was recently certified with the ECCA Premium® label, a quality and sustainability certification which is awarded by the European Coil Coating Association (ECCA). The ECCA Premium® label gives users of pre-painted steel a guarantee that the product has been made to the highest possible standards and with respect to the environment, people, and health.