



ArcelorMittal

Solano®

Organic coated steels for roofing and cladding





Few materials are as colourful and versatile as Solano®. As a cladding for walls and roofs, Solano® is at the forefront of the battle against the elements. A sophisticated combination of organic material and steel guarantees the necessary protection and a longer life. Technology that is both practical and environmentally friendly, offering an infinite variety of colours and shapes. Processed by cold roll forming, stamping or bending as required, Solano® is one of the most flexible products in our range. Always surprising, playful and, above all, durable. It's almost as if memories of childhood guided our researchers in choosing the best materials...

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Credits

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Bakkers' house Kinrooi – Cladding: Habemo, As – Architects: Hippo Architecten –
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Staalbouw Overpelt – Architects: W. Van Hoof, Eksel – Photographer: Emiel Verhasselt;
Facade/elevation coffers – Pruszyński Company; Police station Beringen – Contractor:
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Theyskens' house Halen – Contractor: Schriers – Architect: L. Moelants – Photographer:
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Cladding: Habemo, As – Architects: Architectenbureau Ben Bomans – Photographer:
Emiel Verhasselt; ED-BUD Plaza, roof tiles Kron and facade/elevation coffers –
Pruszyński Company

p. 8:
Roof tiles Kron and facade/elevation panels – Pruszyński Company; Triselec – Cabinet
Urba Linea – Halluin – PAB; Tom D'Haenens (Cordeel)

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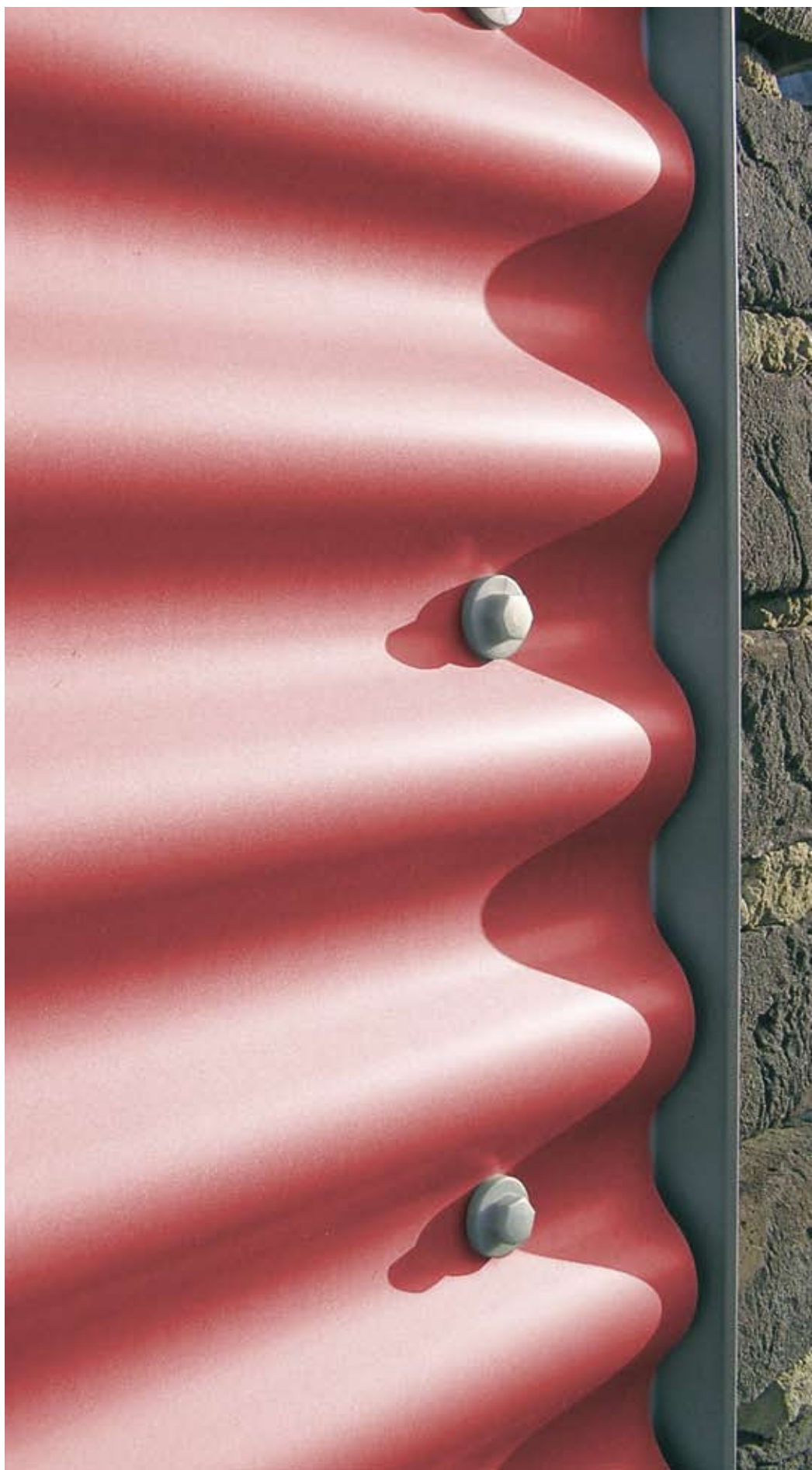
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Solano®

A range of organic coated steels that combine greater corrosion resistance and durability with improved environmental compatibility.

Solano® material is excellent for profiled roofing and cladding in production facilities.



Enhanced envelope technology

Our Solano® range of organic coated steels has been specially developed for roof and wall cladding applications in demanding situations – including industrial and coastal environments.

For greater corrosion resistance and durability, these products feature enhanced UV protection and an extended range of automatic guarantees. And, to ensure quality of life for end users, all our paints are based on phthalate-free paints.



Maximum durability – guaranteed

You can rest assured that Solano® is built to last. To prove it, we give you a guarantee for the entire envelope of up to 30 years – transferable to the building owner.

Excellent corrosion resistance

Solano® is supplied on a special metallic coated protective substrate that provides superior corrosion resistance – even on cut edges.

Advanced colour fastness

Solano® uses state-of-the-art thermoplastic paint technology with improved UV resistance. This is suitable for use throughout Europe – even in Southern continental European countries.

High aesthetic appeal

Solano® is available in a wide range of modern colours for both large surface areas and accent features. In addition, Solano® comes in a choice of up to seven different emboss patterns: smooth, leathergrain, grained, medium striped, fine striped, woodgrain, and the distinctive new Solano® logo emboss.

Meeting individual needs

The products in the Solano® range are designed to give you a choice of specifications and guarantees to meet the needs of your particular application.

Protecting quality of life

The Solano® range is phthalate-free and contains no heavy metals. In addition, as you would expect, the products are fully recyclable.

Easy to process

Solano® steels can be processed by bending, cold roll forming and deep drawing without damaging the top surface. They can also be assembled with joining techniques such as clinching, riveting and adhesive bonding. The thermoplastic paints provide high surface robustness and ease of handling during envelope construction.



Covering all your application needs – literally

Automatic guarantees and a range of specifications to meet all types of roof and wall cladding requirements.

Whatever your technical, environmental or budget requirements, the Solano® range offers you an optimum solution.

By combining different grades of metallic coated protective substrate with thermoplastic paint technology, these products provide a choice of performance levels.

		Size feasibility	Metallic coating thickness	Paint thickness	Surface
Solano® 30	The premium building envelope solution, Solano® 30 is designed for applications in demanding environments that require long-term durability.	0.3 to 1.8 mm 600x1550 mm	Galfan ZA265	200 µm	Choice between 7 emboss patterns
Solano® 20	This product is ideal for long-life building envelope applications in most external environments.		Z275 *		Choice between 6 emboss patterns
Solano® 10	A cost-effective alternative suitable for a wide range of external building applications.		Z225 *		

** Or equivalent metallic substrate selected by ArcelorMittal according to availability*

Extra reassurance where you need it.

The **Solano® 30** offers you a range of important features over and above those provided by Solano® 20 and Solano® 10:

- High corrosion resistance through 265 g/m² Galfan alloy coating – best in class for corrosion resistance on scratches
- Improved UV resistance that fully complies with European RUV4 classification (EN 10169/1 and EN 10169/2) and is covered by our automatic guarantee in Northern, Central and Southern Europe
- Up to 30 years guarantee against corrosion, and peeling and flaking of paint on cladding and roofing in demanding environments, orientation independent and with the same guarantee period for cut edges
- Maintenance-free, saving you time, trouble and cost
- The distinctive new Solano® emboss pattern (optional)



The Solano® range of guarantees

Our automatic guarantees are offered in many countries in Western and Eastern Europe. These guarantees don't require completion of a lengthy questionnaire. According to product type and location, a guarantee will automatically be assigned by the beneficiary to any new owner of a building that contains Solano®.

Solano® 30

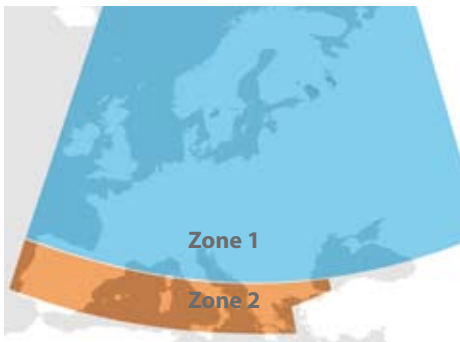
- Up to 30 years guarantee covering corrosion and non-delamination of paint film throughout Northern, Central and Southern Europe
- Orientation independent
- The same guarantee period on cut edges

Solano® 20

- Up to 20 years guarantee covering corrosion and non-delamination throughout Northern and Central Europe

Solano® 10

- A no-nonsense 10-year guarantee covering non-perforation and non-delamination in Northern and Central Europe



Corrosion and non-peeling guarantee (in years – Zone 1)

Colour categories *		Cladding walls		Roofing profiles	
		Inland	Coastal	Inland	Coastal
Solano® 30	Regular	30	25	30	25
	Intense	25	20	20	15
Solano® 20	Regular	20	20	20	18
	Intense	20	15	15	10
Solano® 10	Regular	10	10	10	10
	Intense	10	10	10	5

* For more information, please refer to the Solano® colour palette.

For Zone 2, only Solano® 30 covered by automatic guarantee up to 10 years.

Colour fastness guarantee (Zone 1 & Zone 2)

Colour categories *		Level of durability		Geographical location	
		Colour deviation	Gloss retention	Zone 1	Zone 2
Solano® 30	Regular	≤ 3	≥ 80%	5 years	2 years
	Intense			2 years	N/A
Solano® 20	Regular	≤ 5	≥ 30%	2 years	N/A
	Intense				
Solano® 10	Regular	–	–	N/A	N/A
	Intense				

* For more information, please refer to the Solano® colour palette.
N/A = Not automatically covered by guarantee

Cut edge corrosion guarantee terms

For Solano® 30, anti-corrosion and non-delamination of paint layer from cut edges is guaranteed for the entire minimum Guarantee Period.

Improved environmentally compatible design

Phthalate-free chemistry ensures a safe, healthy working environment.



Solano® is designed in accordance with ArcelorMittal's sustainable development policy. In addition to the environmental benefits of steel, such as durability and recyclability, these products contain no heavy metals and are now phthalate-free. The construction sector is increasingly seen as a key contributor to quality of life and a sustainable society. At ArcelorMittal, we are continually striving to advance the chemistry used in our products to ensure minimum environmental impact and to preserve the health and safety of end users.



Proven performance

To demonstrate its performance under different conditions, the Solano® range has been subjected to aggressive laboratory and outdoor testing.



Corrosion resistance

Following submission to 1000 hours of salt spray testing, Solano® 30 on Galfan ZA265 shows excellent corrosion resistance on scratches.

Colour fastness and UV resistance

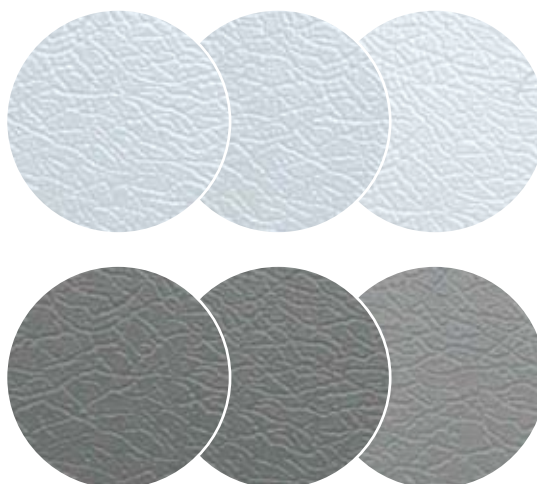
The coated sample was repeatedly exposed to natural weathering elements – e.g. light, water and temperature – over 2000 hours for RUV classification (European standard EN 10169/2). Each cycle consisted of four hours of dry UVA exposure at 60°C, followed by four hours of condensation exposure without light at 50°C. Gloss and colour were measured both prior to and following the test. According to these tests, Solano® 30 fully complies with European RUV4 classification with regard to artificial UV weathering. Solano® 20 complies with RUV2 classification.

For Solano® 30, the test was conducted over an extended period of 6000 hours to assess the product's performance limits. The paint demonstrated very good colour fastness.

Solano® 30 and standard PVC coating prior to testing

Solano® 30 after testing

Standard PVC coating after testing





We're here to help you

Ordering Solano®

Solano® is available in your region through our commercial network and Steel Service Centres.

Technical support

Comprehensive technical support is available through our Customer Technical Support team.

Design support

Our research centre, dedicated to steel construction solutions, is standing by to help you.

Organise your demonstration of Solano® today!

For further information, detailed catalogues or technical data, please refer to:
www.arcelormittal.com/fce

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