



# Swimming Pools

## Complete Solutions



“ Inspiration and guidance  
for designing swimming  
pool building envelopes ”

# Complete envelope solutions for swimming pool environments

ArcelorMittal Construction offers a package of products which are specifically designed to work together in high hygrometry environments and give specifiers and contractors proven solutions for swimming pools, indoor water parks and even commercial laundry settings.

## Dedicated solutions, dedicated teams

Our global offer includes roofing, wall, and cladding products and a comprehensive choice of matching accessories, all on competitive lead times. Included within the range are long span decking options with outstanding acoustic performance, insulated panels with market leading insulation and highly durable cladding in a vast array of colours and finishes.

Our specialist team can advise on exactly the right combination to suit almost any project and provide expert technical support.

## Understanding the sector

We have been working in the swimming pool and leisure markets for many years and understand the unique challenges which these environments present for designers and contractors. Long spans,

high levels of humidity and challenging acoustics make huge demands on the building envelope, but our range of products have been specially designed and proven to cope.

Our range of flexible solutions come with all the design and innovation features that architects and contractors have told us they want, and all the performance guarantees we know that they need.

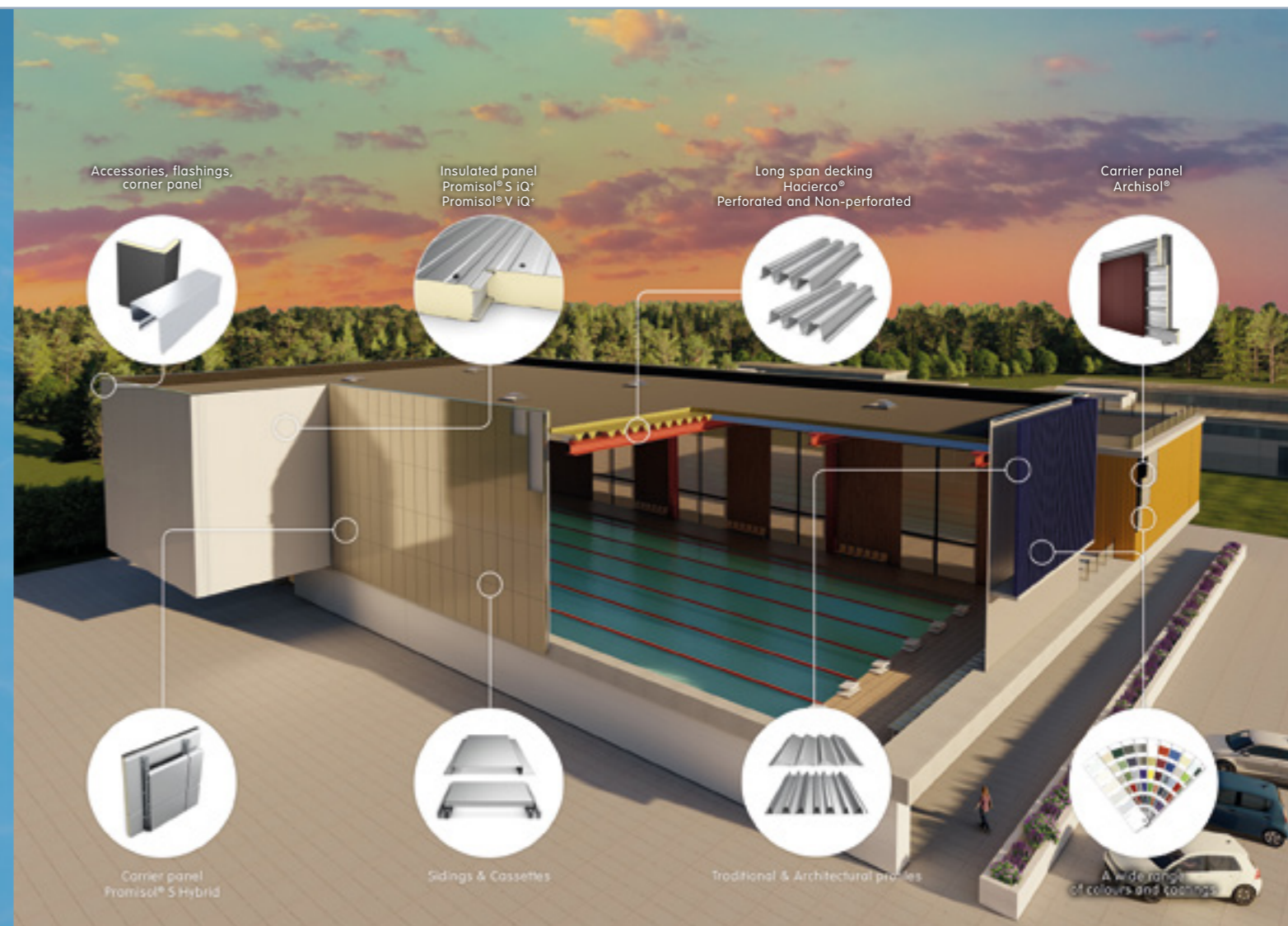
## Commitment to sustainability

Our business is built on our commitment to the environment and sustainability, delivering solutions that contribute to energy-efficiency, reduce the carbon footprint of buildings, and fit within the circular economy.

As part of our ongoing commitment to address environmental challenges through a program of innovation, we invest heavily in research and development and new industrial solutions

ArcelorMittal Construction is committed to the highest standards of environmental management, energy management, quality management and health and safety. We are certified to ISO 9001, ISO 14001, ISO 45001, ISO 50001.

Our swimming pool solutions include products certified *Cradle-to-Cradle (C2C) Certificate, BES 6001* and have Environmental Product Declarations.



## Comprehensive product range

**ArcelorMittal Construction offers solutions for the full scope of your building's envelope, including:**

- Long span roofing solutions to deliver your acoustic needs whilst enabling the flexibility that your project requires
- A selection of stylish, high-performance insulated panels and carrier panels to suit any aesthetic and any budget
- A wide range of cladding and accessories to simplify specification and installation
- All with our Colorissime® colour offering as standard
- And all with the durability that your project demands

Complete control of our supply chain means we can ensure quality manufacturing and service that delivers outstanding solutions – reliably and on time.

## Support from a specialist team

Our team of experts can provide all the support you need with design, performance and technical advice to help you get the most from our range.

## One stop shop

Fully integrated and fully compatible, our range gives architects the freedom to mix and match products from several different ranges and gives contractors the reassurance that all the products will fit together perfectly.

# Swimming pool roofs

In swimming pool environments, the challenge for any roofing system is to deliver:

**Longer spans**, which realise the architectural vision by reducing the number of supporting elements and make the most of the internal space.

**Optimal acoustic performance**, so that sound levels inside and out are kept within safe and comfortable levels.

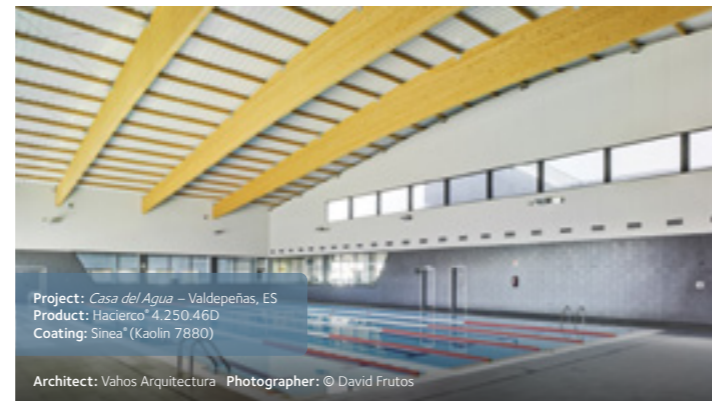
**Corrosion resistance**, in even the most humid conditions where chemical agents are present.

## Hacierco®

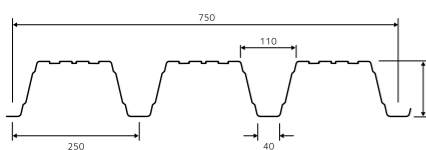
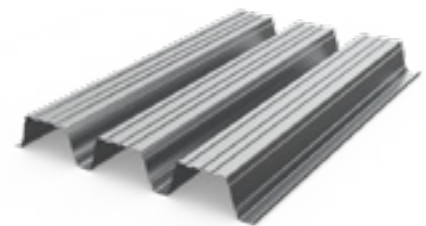
ArcelorMittal's Hacierco® long span decking range meets all of these challenges with ease.

- Long span decking solutions that can easily reach 8.0 m spans without purlins or beams
- Maximum architectural freedom
- Optimal use of internal space
- Proven outstanding acoustic performance\*
- Corrosion resistance even with perforated acoustic profiles
- Huge choice of protective coatings to increase durability
- Vast range of Colorissime® finishes

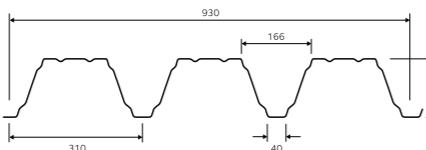
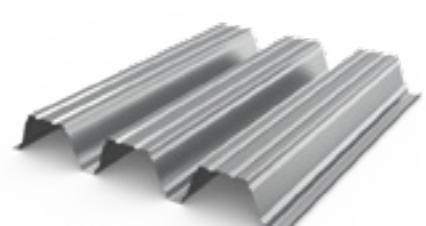
And all our long span decking solutions come with Cradle to Cradle (C2C) Material Health Certificate, BES 6001 and Environmental Product Declarations.



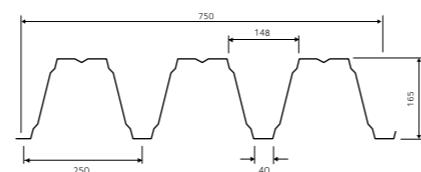
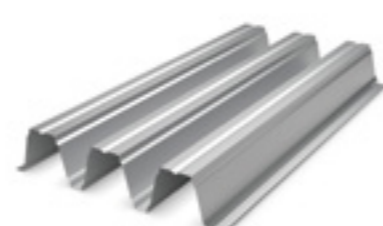
### Hacierco® 3.250.106



### Hacierco® 3.310.135



### Hacierco® 3.250.170



\* Sound Absorption Coefficient in a Reverberation Room according to ISO 354 and Rating of Sound Absorption according to ISO 11654

## Span table of Hacierco® Long Span Decking (perforated)

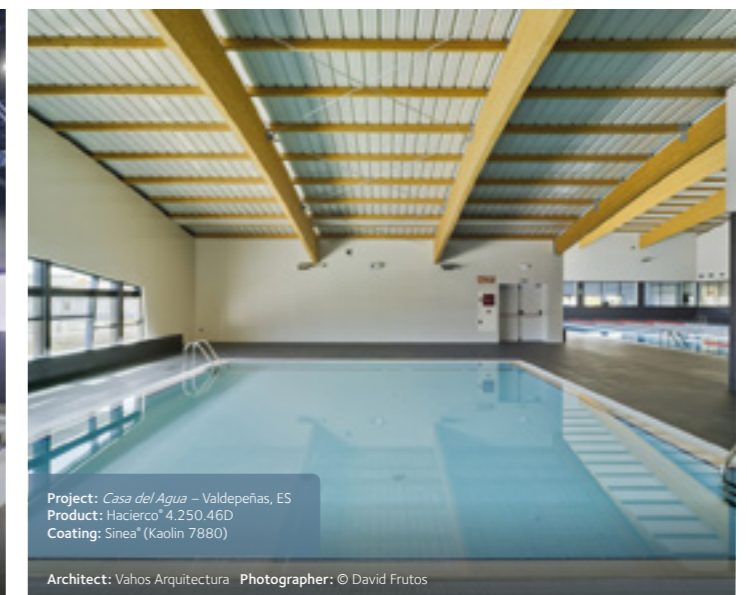
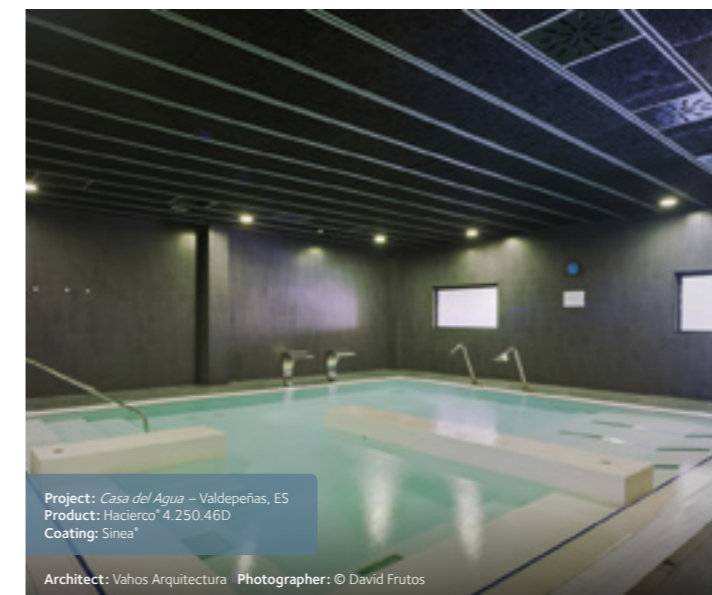
Span table of Hacierco® Long Span Decking (perforated)

Steel grade: S320GD, Profile thickness: 0.75 mm, Internal support width: 60 mm, End support width: 50 mm

Pressure Load Table (kN/m²)																						
Support	Long Span Decking Profile	Span (m)																				
		5.50	5.60	5.70	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	7.00	7.10	7.20	7.30	7.40	7.50
2 Supports 50-50 mm ▲	106-250-750	0.68	0.65	0.62	0.59	0.56	0.54	0.52	0.50	0.48	0.46	0.44	0.43	0.41	0.40	0.39	0.37	0.36	0.35	0.34	0.33	0.32
	135-310-930	1.05	1.00	0.95	0.91	0.87	0.83	0.79	0.76	0.73	0.70	0.67	0.65	0.62	0.60	0.58	0.56	0.54	0.52	0.50	0.48	0.47
	170-250-750	1.75	1.65	1.56	1.48	1.40	1.32	1.25	1.19	1.13	1.07	1.02	0.97	0.92	0.87	0.83	0.79	0.75	0.72	0.68	0.65	0.62
3 Supports 50-60-50 mm ▲ ▲	106-250-750	1.16	1.11	1.07	1.03	0.99	0.96	0.92	0.89	0.86	0.83	0.81	0.78	0.75	0.73	0.71	0.68	0.66	0.64	0.62	0.60	0.59
	135-310-930	1.02	0.99	0.97	0.94	0.91	0.89	0.86	0.84	0.82	0.80	0.78	0.76	0.74	0.72	0.70	0.68	0.67	0.65	0.63	0.62	0.61
	170-250-750	1.92	1.87	1.81	1.76	1.71	1.67	1.62	1.58	1.54	1.50	1.46	1.42	1.38	1.35	1.32	1.28	1.25	1.22	1.19	1.17	1.14
4 Supports 50-60-60-50 mm ▲ ▲ ▲ ▲	106-250-750	1.16	1.11	1.07	1.03	0.99	0.96	0.92	0.88	0.84	0.80	0.77	0.74	0.71	0.68	0.66	0.64	0.61	0.59	0.57	0.55	0.53
	135-310-930	1.23	1.20	1.17	1.13	1.10	1.07	1.05	1.02	0.99	0.97	0.94	0.92	0.90	0.88	0.85	0.83	0.81	0.80	0.78	0.76	0.74
	170-250-750	2.32	2.25	2.19	2.13	2.07	2.02	1.96	1.91	1.86	1.81	1.76	1.70	1.65	1.60	1.55	1.50	1.45	1.41	1.37	1.33	1.29

Suction Load Table (kN/m²)																						
Support	Long Span Decking Profile	Span (m)																				
		5.50	5.60	5.70	5.80	5.90	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	7.00	7.10	7.20	7.30	7.40	7.50
2 Supports 50-50 mm ▲	106-250-750	0.68	0.65	0.62	0.59	0.56	0.54	0.52	0.50	0.48	0.46	0.44	0.43	0.41	0.40	0.39	0.37	0.36	0.35	0.34	0.33	0.32
	135-310-930	1.07	1.02	0.97	0.93	0.88	0.85	0.81	0.77	0.74	0.71	0.68	0.66	0.63	0.61	0.59	0.56	0.55	0.53	0.51	0.49	0.48
	170-250-750	1.96	1.86	1.77	1.69	1.61	1.54	1.47	1.41	1.35	1.29	1.24	1.19	1.14	1.10	1.06	1.02	0.98	0.94	0.91	0.88	0.85
3 Supports 50-60-50 mm ▲ ▲	106-250-750	1.20	1.16	1.12	1.09	1.05	1.02	0.99	0.96	0.93	0.90	0.88	0.85	0.83	0.81	0.79	0.76	0.74	0.72	0.69	0.67	0.65
	135-310-930	1.64	1.58	1.53	1.48	1.43	1.39	1.34	1.30	1.26	1.23	1.19	1.16	1.12	1.09	1.06	1.03	1.01	0.98	0.96	0.93	0.91
	170-250-750	2.68	2.59	2.50	2.42	2.34	2.27	2.20	2.13	2.06	2.00	1.94	1.89	1.83	1.78	1.73	1.69	1.64	1.60	1.56	1.52	1.48
4 Supports 50-60-60-50 mm ▲ ▲ ▲ ▲	106-250-750	1.22	1.16	1.10	1.05	1.00	0.96	0.92	0.88	0.84	0.80	0.77	0.74	0.71	0.68	0.66	0.64	0.61	0.59	0.57	0.55	0.53
	135-310-930	1.97	1.87	1.78	1.69	1.61	1.54	1.47	1.40	1.34	1.28	1.23	1.18	1.13	1.08	1.04	1.00	0.96	0.93	0.89	0.86	0.83
	170-250-750	3.33	3.22	3.11	3.01	2.91	2.81	2.70	2.57	2.46	2.35	2.25	2.16	2.07	1.98	1.91	1.83	1.76	1.69	1.63	1.57	1.51

\*Maximum spans calculated for pressure loads and perforated profiles (perforation ratio of 15-23% in profile's web). For other load configurations, non-perforated performance and further specific data, contact our specialists



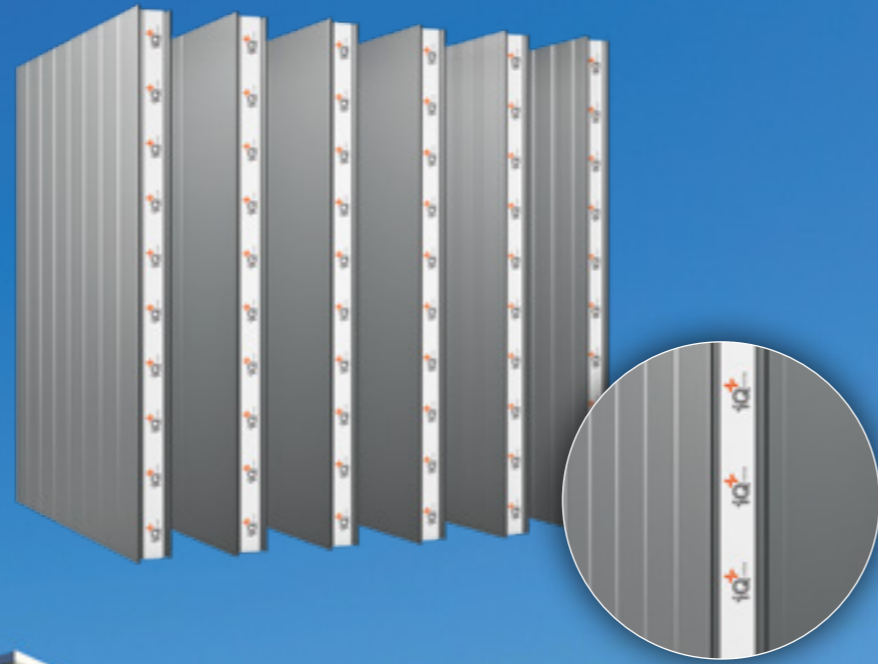
# Swimming pool walls

Like roofs, the wall and facade system has to deliver:

**Corrosion resistance**, in even the most humid conditions where chemical agents are present.

**Thermal performance**, to minimise the building's environmental footprint by increasing its energy efficiency.

**Aesthetics**, to ensure that the façade enhances the look of the building and fits effortlessly into its surroundings.



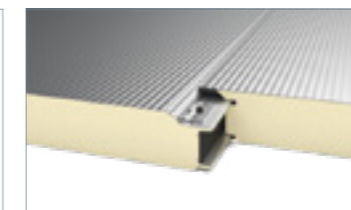
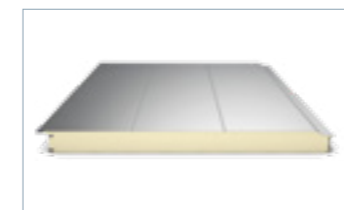
Project: Swimming pool Waalslag, NL  
 Architect: Wind Architecten Adviseurs  
 Photographer: LT Photography

## About Promisol®

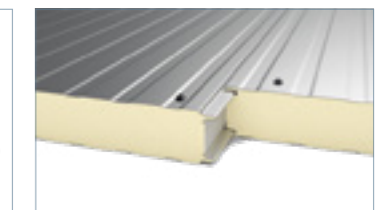
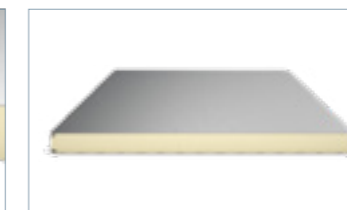
ArcelorMittal's Promisol® S and Promisol® V insulated panels and Promisol® S Hybrid carrier panel solution are the ideal combination. All come with:

- A range of protective coatings and Colorissime® finishes to increase durability in even the most corrosive conditions
- Our iQ+ System® which offers the highest levels of insulation available in the market
- Compatibility with many cladding materials including: wood, fibre-cement and aluminium
- A choice of geometries and colours to give designers and architects the freedom and flexibility to create something which stands out or blends in
- For projects clad in steel, there are lots of options in our own cladding portfolio which open up a wide range of possibilities

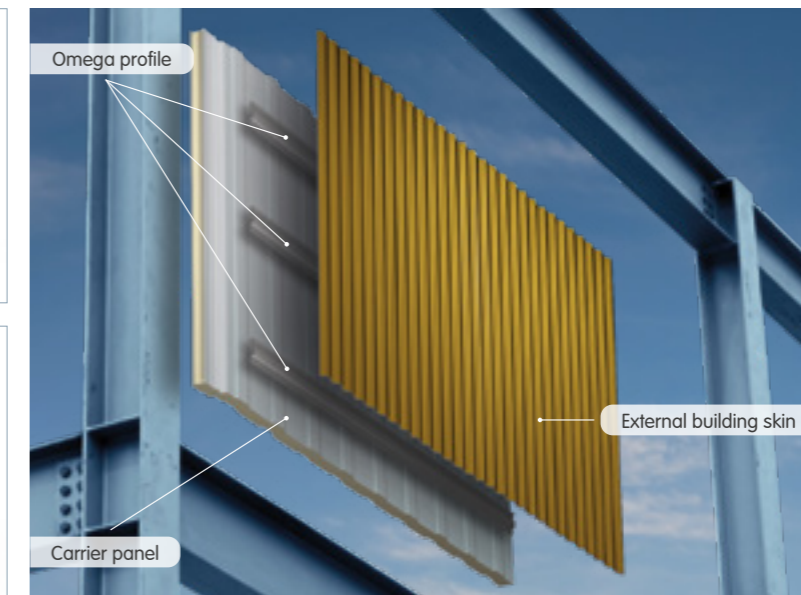
### Promisol® S iQ+ 160mm



### Promisol® V iQ+ 160mm



### Promisol® S Hybrid



Omega profile

Carrier panel

External building skin



Vertical panel mounting



Horizontal panel mounting

## Technical data and certifications

Thickness	mm	80	100	120	140	160
Thermal conductivity $\lambda^*$	W/mK	0.018				
Thermal transmittance $U_c$	W/m <sup>2</sup> K	0.222	0.178	0.149	0.128	0.112
Thermal resistance $R_c$	m <sup>2</sup> K/W	4.33	5.45	6.54	7.64	8.76
Fire reaction	-	B,s1-d0				
Airtightness	m <sup>3</sup> /m <sup>2</sup> h	Over Pressure 50Pa ≥ 5x10 <sup>-15</sup>				
		Under Pressure 50Pa ≥ 0.0057				

\*  $\lambda$  accordingly to EN13165 & Position Paper NB-CPR/SG19/N165

# Swimming pool cladding, screws and flashings

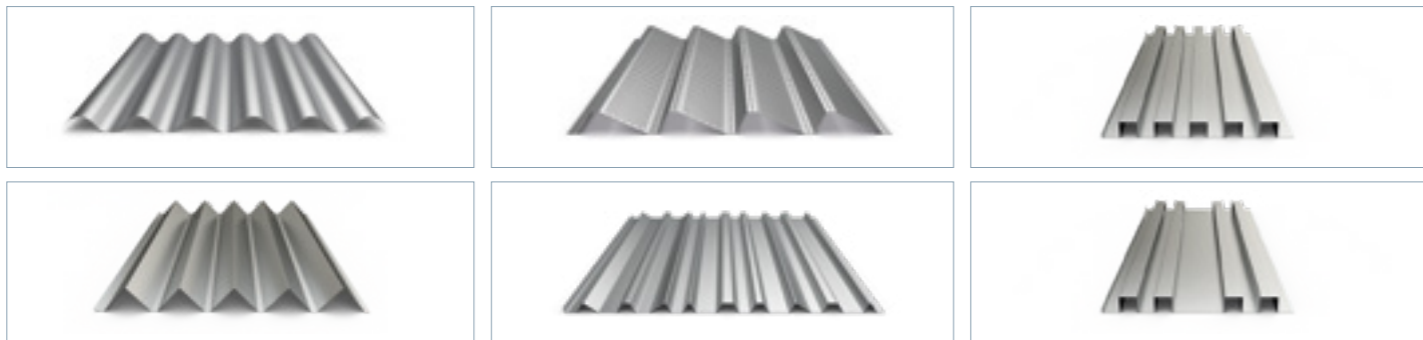
One of the key benefits of choosing ArcelorMittal products for your swimming pool project is the fact that our roof and façade products come with a complete range of fully compatible cladding options, and specially designed accessories and fixings to make installation as fast and straightforward as possible.

## Cladding

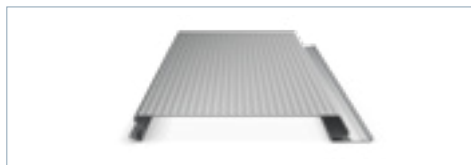
Our cladding solutions allow you to be as creative as you dare, with a wide range of geometries that are either standard or tailored to your design. Moreover, they can be used on our Promisol® S Hybrid and Archisol® Carrier Panels for maximum thermal performance or on any other structure of your choice.

Complete control of our supply chain means we can ensure quality manufacturing and service that delivers outstanding solutions – reliably and on time.

### Façade Profiles (Traditional and Architectural)



### Sidings



### Cassettes



Contact our team for more possibilities from our Portfolio.



Project: Swimming pool Het Biljoenbad, NL  
Product: Creneo  
Coating: Hairexcel® (colour match NCS)

Architect: Slangen+Koenis architecten Photographer: LT Photography



Project: Swimming pool Waalslag, NL (External view)  
Product: Isis 79 (perforated)  
Coating: Irysa® (Isatis 79WG)

Architect: Wind Architecten Adviseurs Photographer: LT Photography

## Flashings

Flashings, finishing elements and screws – which make our solutions compatible with every structural choice, including concrete, timber and steel. Solving construction problems and providing timesaving, complete solutions.



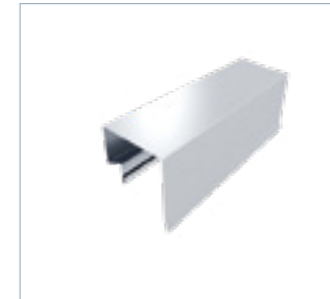
Omega Profiles



Drip Flashing



Corner Junction



Parapet Cap

## Screws

Available in a choice of corrosion protection solutions (Stainless Steel and Organic coated galvanized). All according to your technical specifications.



Bracket and screws for MD hull



Panel screw, timber structure (Stainless Steel)



Stitching screws (Organic coated galvanized steel)



Stitching screws (Stainless Steel)



Project: Swimming pool Aat de Jonge, NL  
Product: Eclectic® 50  
Coating: Intense® Anti-Graffiti (Skynight 1522)

Architect: VenhoevenCS architecture+urbanism Photographer: Lighthouse productions

# Swimming pool coatings

First and foremost, our coating products provide protection for the steel, even in the most severe environments. However, they also, of course, help to define the building's aesthetic.

## Colorissime®

ArcelorMittal's market leading finishes providing all the durability, textures and finishes your project demands.

### Colour freedom

Our wide range of coatings satisfies all the aesthetic and technical requirements needed for your project.

Discover our palette of outstanding colours, including iridescent and pearl finishes in our Colorissime range, or create your own

To date, we've helped our customers create more than 2,000 different colours using our Colour Matching service.

Our coatings deliver the highest performance, covering the highest protection levels of RC5+ and RUV5 for outdoor use, and up to CPI5 for indoor environments.

### Coatings

Colours are available in Hairexcel® and Sinea®. Discover our full range of colours in our Colorissime®.



● HAIREXCEL® 60    ○ SINEA® 85

## ZMevolution®

ArcelorMittal Construction's products are galvanized using our unique ZMevolution® process. This produces a strong, pliable, resilient steel that looks fantastic. But, perhaps most importantly, the system has significant environmental benefits too. Compared to standard Zinc galvanizing processes, ZMevolution® reduces CO<sub>2</sub> emissions by 46% and since its introduction, has contributed to an impressive cumulative saving of 90 million kg of carbon dioxide.

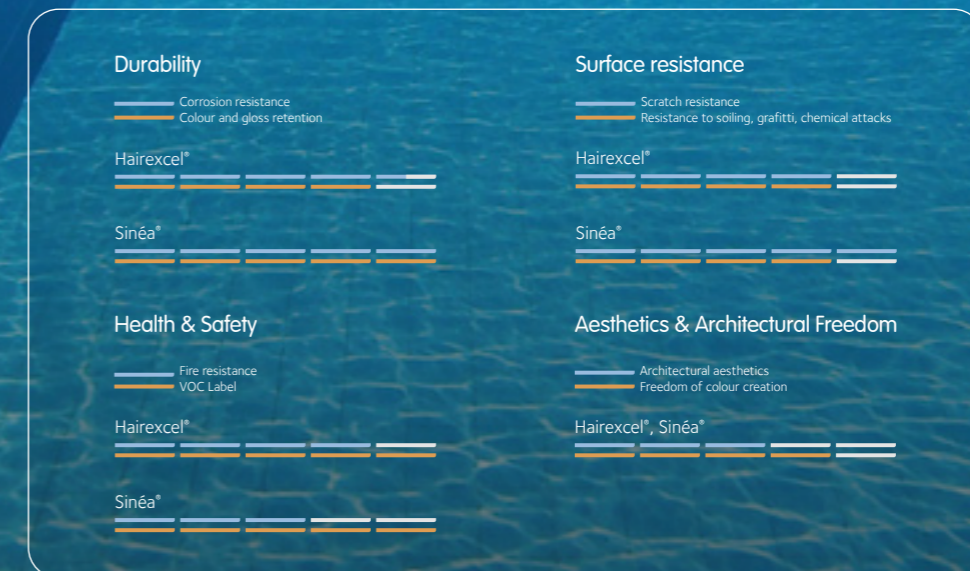
## Guarantees

Corrosion resistance is obviously critical in these kinds of swimming pool environments. Therefore, we provide a guarantee of up to 10 years on our Hairexcel® and Sinea® coatings used indoors and 10 years on our perforated Hacierco® long span decking using Sinea®. Used outdoors, Hairexcel® comes with a 35 year guarantee and Sinea® with 40 years.



## Performance tables

Multi-dimensional and based on our coatings' key features, the tables below will help you choose the coating that best suits your project requirements.





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