

CREATE
FORMIDABLE
FACADES WITH



INC

 **EUROBOND[®]**
BONDS THAT LAST

in Exclusive Collaboration with

 **RHEINZINK[®]**



For over two decades, EUROBOND has been the driving force behind transformative architecture, revolutionising the industry with the introduction of Metal Composite Panels in India. Our relentless pursuit of excellence has firmly established us as the leading brand in our homeland and beyond. Our global reach extends to more than 12 countries, underpinned by our state-of-the-art manufacturing hub in Umbergaon, Gujarat and a seamless Pan-India distribution network.

But our journey does not stop here. Innovation drives our growth as we make strides toward global recognition for architectural excellence. Welcome to Eurobond, where innovation knows no bounds.





With a legacy spanning 175 illustrious years, RHEINZINK - a part of the esteemed Grillo Group, traces its roots back to the establishment of the very first Zinc rolling mill in 1849. Today, RHEINZINK proudly wears the mantle of the world's No.1 manufacturer of architectural Zinc. Renowned for its unwavering commitment to excellence, RHEINZINK has left its mark on numerous iconic projects around the globe. Their legacy extends beyond history, with continuous innovation such as the exclusive and patented Pre-Patina process.

RHEINZINK now graces India through its exclusive collaboration with EUROBOND, redefining architectural possibilities.

RHEINZINK®

ZINC INSPIRATION

Zinc, a vital trace element and one of the Earth's top 10 abundant elements, have been a cornerstone of human existence. Its versatile role extends from our skin & hair to our DNA & immune system.

For over two centuries, Zinc has been a staple in roofing, façade cladding and roof drainage. Esteemed architects like Daniel Libeskind, Zaha Hadid and Nicholas Grimshaw have found it indispensable for their visionary designs, shaping modern and sustainable construction.



Zinc's allure goes beyond its time-tested sustainability. Its minimal CO₂ emissions and energy-efficient production make it an eco-conscious choice. It is lightweight, durable and fully recyclable, aligning seamlessly with the principles of responsible construction.

Yet, what truly captivates architects is Zinc's boundless design potential, evolving gracefully with a captivating patina over time.

FEATURES



Certifications



SELF HEALING

ZINC - THE SKIN OF TIMELESS ARCHITECTURE

The skin, in its function as a protective cover, has many functions, preventing foreign substances from entering our body is one of the most important. When injuries occur, the natural self-healing powers of the skin become active: small cuts or even scratches heal by themselves within a short time and are no longer visible afterwards.

The natural material titanium zinc has similar properties. CLASSIC and pre-PATINA ECO ZINC are high-quality surfaces, which over time form a blue-grey or graphite-grey patina which, like human skin, functions as a protective layer. This patina is also equipped with a natural self-healing effect and thus guarantees a long, low-to-no-maintenance life.



CLADDING OPTIONS

ZINC SOLID PANELS

For decades, Titanium Zinc Solid Sheets have charmed architects, reigning supreme in various architectural applications like roofing, façade cladding, ornamental details, rainwater systems and interior enhancements. This legacy of excellence in Zinc Solid panels thrives, blending tradition with innovation.

ZINC COMPOSITE PANELS

In the world of architectural innovation, Zinc Composite Panels are true masterpieces. They act as versatile canvases, offering sophistication and the ability to make bold statements, satisfying even the most intricate design visions. As architects aim to craft spaces that go beyond the ordinary, ZCPs represent this aspiration, seamlessly blending luxury with formability.

ZINC COMPOSITE PANEL				
COMPOSITE GRADE	PANEL THICKNESS	TOP SKIN	CORE	BOTTOM SKIN
4ZPLP (PLATINUM PLUS)	4.00 mm	Zinc 0.50 mm	LDPE Core 3.00 mm	Aluminium 0.50 mm
4ZPLPFRP (FIRE RETARDANT FR PLUS)	4.00 mm	Zinc 0.50 mm	70% Mineral Core 3.00 mm	Aluminium 0.50 mm

ZINC SOLID PANEL THICKNESS: 0.70 mm, 0.80 mm, 1.00 mm

PRODUCT TOLERANCE			
WIDTH	LENGTH	THICKNESS	
COIL	PANEL	COIL	PANEL
± 2.0 mm	± 4.0 mm	± 0.02 mm	± 0.20 mm

CLASSIC

NATURAL | ORIGINAL | EXPRESSIVE

The material CLASSIC is a natural material that develops a firmly adhering zinc carbonate patina during its lifetime of being exposed to the atmosphere.

Initially, the zinc surface reacts with the oxygen in the air to form zinc oxide. The effect of water (rain and humidity) leads to the formation of zinc hydroxide, which reacts with carbon dioxide in the air to form a dense, firmly adhering and water-insoluble coating layer of zinc carbonate (patina).

This protective layer is responsible for the high corrosion resistance of the zinc.



CLASSIC

A sample of the CLASSIC material is shown as a square. The majority of the square has a light gray, textured surface. In the center of this square is a solid black rectangle. The word "CLASSIC" is printed in white capital letters at the bottom center of the black rectangle.

ERZ 3001

WEATHERING

Classic is the utmost natural and pure form of architectural zinc, characterised by its robust weathering behaviour.

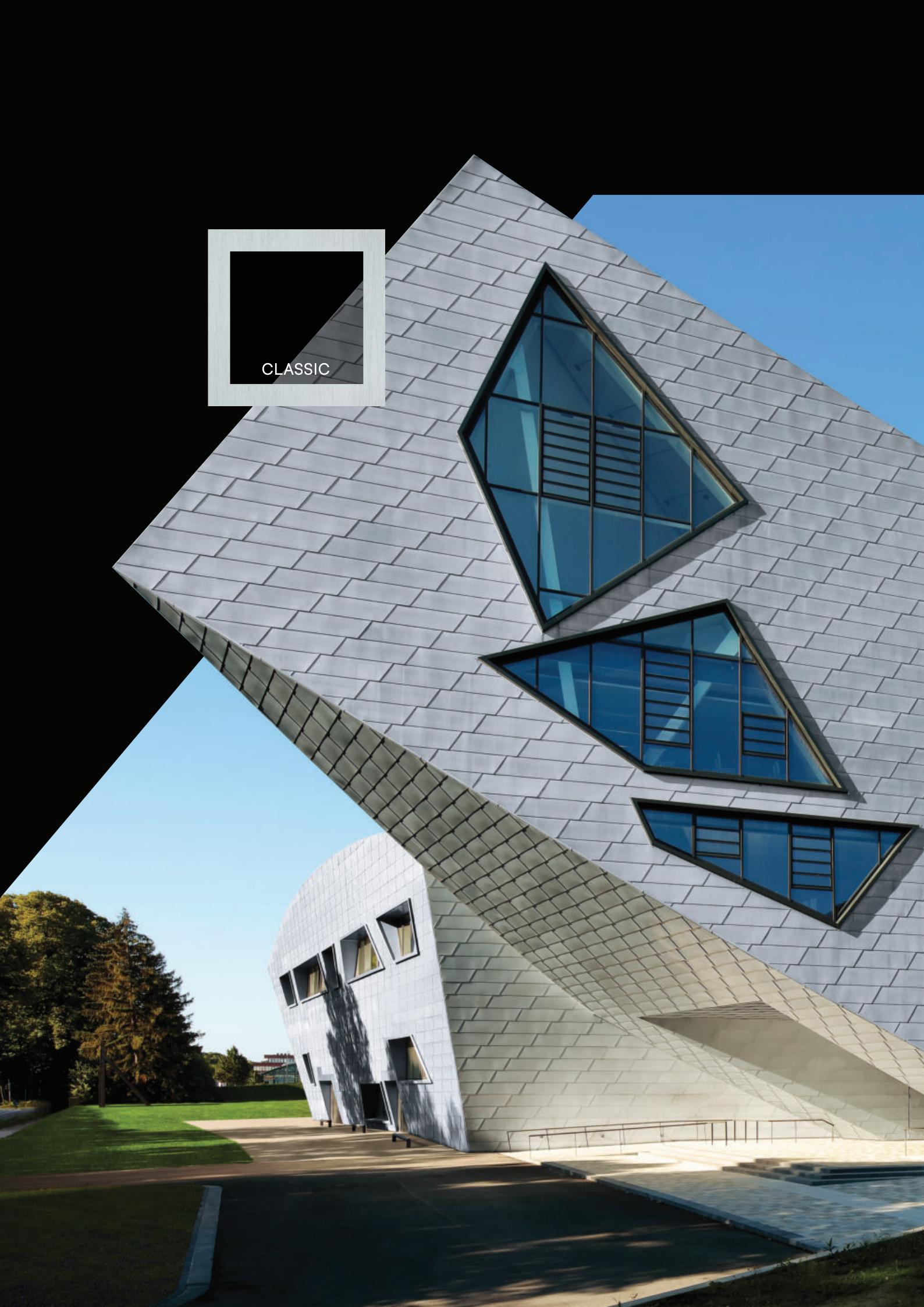
This weathering process does not take place simultaneously everywhere. First, droplet-shaped grey areas develop, which merge together as the protective layer continues to grow, creating the familiar uniform blue-grey patina.

Depending on the intensity of the external moisture, orientation and position of the building & the inclination of the clad area, the process can take months or years. As a basic rule, the more intensively or the longer rainwater remains on the surface, the quicker the patina develops.



This material property is often used by architects as a design tool to emphasise the building's natural ageing process.

While the basis of the protective layer is zinc carbonate, additional substances from the surroundings are also integrated into the protective layer. That is why the colour of the patina can vary slightly from one place to another.



CLASSIC

LEUPHANA UNIVERSITY
LÜNEBURG, GERMANY
ARCHITECT - STUDIO LIBESKIND



PRE-PATINA ECO ZINC

PRE-WEATHERED | SELF - HEALING | SUSTAINABLE

Pre-PATINA blue-grey and graphite-grey are the only products on the market, which has a truly natural patinated surface. They are neither coated nor varnished. The colour effect is in fact created by the metal alloy itself.

WHY ECO?

As the first manufacturer of construction zinc, RHEINZINK is taking a big step towards decarbonisation in raw material extraction.

The raw material of Pre-PATINA Eco Zinc is produced in Scandinavia with 50% less CO₂ from real renewable energies, certified and without compensation. This is verifiable and exclusive.

The conversion will save us more than 36,000 tons of CO₂ per year.

The 3P model of advanced sustainability:-

Procurement — Scandinavia with 50% less CO₂

Product — Zinc, naturally sustainable

Process — Patented natural pickling process



Carbon footprints in comparison

EUROBOND	pre-PATINA ECO ZINC	1.85 kg carbon/kg zinc	<div style="width: 18.5%;"></div>
Other	pre-PATINA	3.99 kg carbon/kg zinc	<div style="width: 39.9%;"></div>



PATENTED PICKLING PROCESS

Patent number: EP 1 444 381 B2

The patented pickling process creates the uniform blue-grey appearance of the zinc patina ex works - during the production process itself. This natural surface allows the original patina process of prePATINA ECO ZINC to take place afterwards.

The highlight: during the picking process, the natural surface properties are completely retained. Any scratches or stains after installations are evened out as part of the self-healing effect of the natural patina formation.



SELF HEALING



PATENTED



NATURAL SURFACE



ERZ 3002



ERZ 3003



BLUE-GREY



ALEXANDER FORBES INSURANCE
JOHANNESBURG, SOUTH AFRICA
ARCHITECT - PARAGON ARCHITECTS



GRAPHITE
-GREY



KIRSCH PHARMA BISSENDORF
WEDEMARK, GERMANY
ARCHITECT - KRÜGER CONSULT GMBH



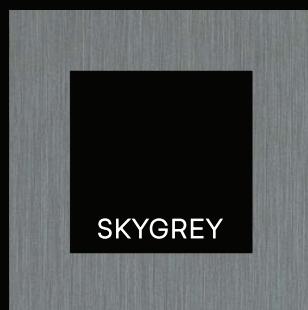
GRANUM

LONG-LASTING | WEATHER-RESISTANT | SUSTAINABLE

The Skygrey and Basalte surfaces of the GRANUM product line complement the existing product range. The luxury matte appearance is achieved by clinically pre-treating the surface based on state-of-the-art and environment-friendly production technology. The bright or dark colour of the granum range occurs due to the phosphating process on the surface.

The phosphate coating is durable, weather-resistant, and sustainable and implies the characteristic texture of a natural patina once installed. It brings out the basic material's typical texture.

The series offers limitless creative possibilities in architecture. It's captivating phosphating process combines refined aesthetics with sustainability, ensuring enduring designs. Versatile and durable, it suits any architectural style, from classical to modern, making it the ideal choice for any structure.



ERZ 3004



ERZ 3005

WEATHERING

For the Granum Range, the natural patina formation only begins with the gradual weathering of the phosphate layer. It is slowly “infiltrated” by natural reactions and over time a top layer of natural patina and phosphate layer is formed.

During this process, the dark surface of GRANUM Basalte may become brighter.



LE NID

NOISY-LE-GRAND, FRANCE

ARCHITECT - PATRIARCHE







BASALTE

CONTAMINAR MARINHA GRANDE
LEIRIA, PORTUGAL
ARCHITECT - CONTAMINAR ARQUITETOS



PRISMO

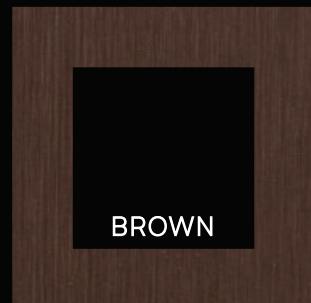
SUBTLE COLOURS | GLAZED FINISH | AESTHETIC

PRISMO is the organic-looking colour-coated product line from RHEINZINK. The base material is the phosphate surface GRANUM Skygrey, onto which a durable semi-transparent coating is applied. This results in a subtle coloured effect, which also brings out the underlying zinc texture.

With six colours, PRISMO offers diverse design possibilities.



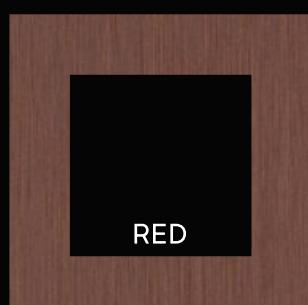
ERZ 3006



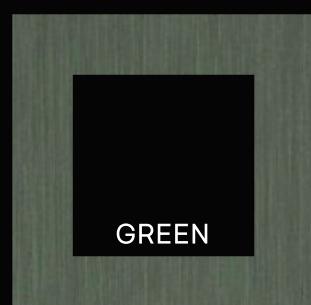
ERZ 3007



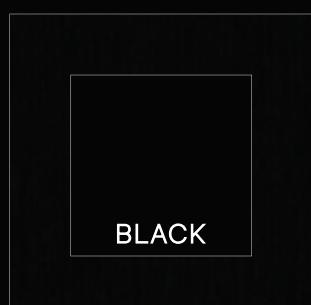
ERZ 3008



ERZ 3009



ERZ 3010



ERZ 3011

WEATHERING

The durable, semi-transparent coating protects the surface of the Prismo Range.

The penetrating scratches do not subsequently form a matching coloured patina, but a zinc-typical bluegrey patinated look.

The coating itself does not form a patina, but may change its appearance and become brighter due to environmental influences.







TWENTY CAMPUS
EVRY-COURCOURONNES, FRANCE
AU12 architecture





55 PORT CONDOS
MISSISSAUGA, CANADA

ARCHITECT - GIANNONE PETRICONNE ASSOCIATES INC

LEGACY PROJECT



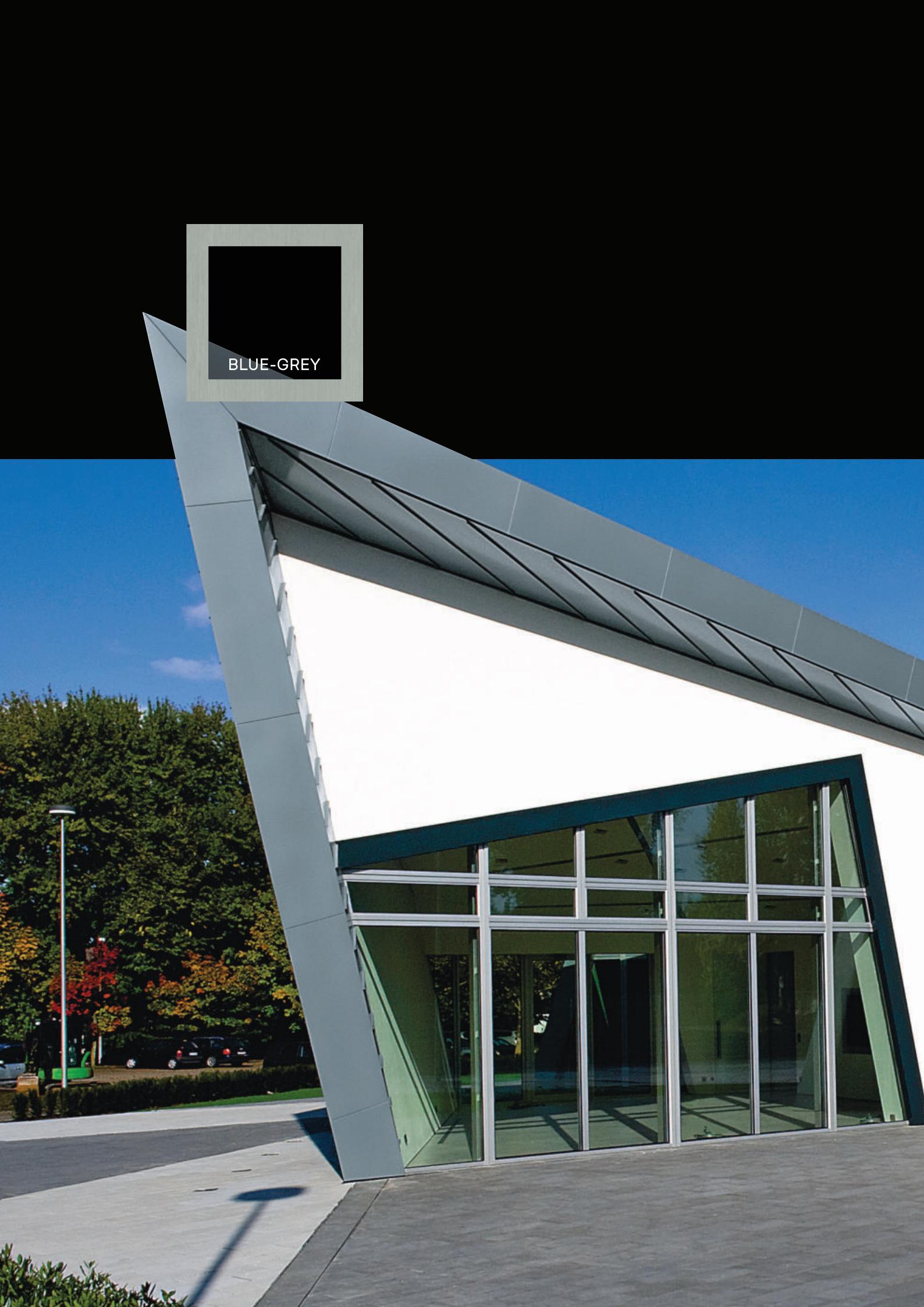
Ar. Zaha Hadid

Museum of Transport
Glasgow, United Kingdom





BLUE-GREY



LEGACY PROJECT



Ar. Daniel Libeskind

Libeskind - Villa
Datteln, Germany





BLUE-GREY

LEGACY PROJECT



Ar. Frank O. Gehry

Nationale Nederlanden - Dancing Building
Prague, Czech Republic



LONGEVITY.

DESIGN THE FUTURE WITH ZINC

MATERIAL FOR GENERATIONS

In today's throwaway culture, there's a growing desire for lasting value in architecture. Quality, eco-friendliness and durability are crucial considerations. Builders and planners face rising ecological responsibility demands. Eurobond products are ahead of the curve, meeting future requirements today. With over 175 years of experience, Zinc offers extreme longevity, leaving a valuable legacy for future generations.

FOREVER YOUNG

RHEINZINK is an enduring innovator, true to its essence. Despite 175 years the market, it remains one of architecture's most innovative materials. Its global prestige is built on timeless aesthetics and intrinsic value. Eurobond's product range, including prePATINA, Granum & Prismo, align with modern trends while embracing innovation. These ecological, maintenance-free products set lasting standards for future generations.

SELF-HEALING PATINA

EUROBOND pre-PATINA develops a protective blue-grey or graphite-grey patina over time, giving buildings a unique character. This natural process occurs in stages: oxygen leads to zinc oxide, moisture turns it into zinc hydroxide, and air transforms it into zinc carbonate. This patina effectively shields the material from weather and corrosion and boasts self-healing properties, gradually erasing scratches.

RECYCLING. ABILITY.

ZINC IS A MATERIAL AND RESOURCE AT THE SAME TIME

SUSTAINABLY VALUABLE CYCLE

Eurobond Zinc products have an eternal life and can be easily separated and collected for 100% recycling, without the need for extra production steps like paint stripping. Even production trim scrap is 100% re-melted into new products. In Germany, the construction zinc recycling rate is nearly 100%, ensuring minimal waste.

SYSTEMATIC RECYCLING

Waste from reconstruction or renovation is collected and sold to secondary smelting operations. Zinc scrap is sorted, melted and cast into zinc or zinc alloy. The waelz tube process is used for low zinc precursors in recycling, recovering zinc as waelz oxide in a filter after cooling.

CLEANING AND MAINTENANCE OF EUROBOND ZCP

EUROBOND ZCPs do not require high maintenance. You will go a long way in preserving its colour, sheen and beauty with a basic cleaning routine.

HERE IS A RECOMMENDED CHART FOR SETTING THE FREQUENCY OF YOUR CLEANING SCHEDULE.

Building Location	Frequency of Cleaning
Heavily Industrialised Area	Twice a year or enough to keep the cladding looking as desired and free from dirt deposits.
Low Rainfall or Coastal Area	Twice a year or enough to keep the cladding free from salt deposits - this is important.
Urban Area	Once a year
Rural Area	Once a year

ZCP SHEETS DO'S & DONT'S

Please follow the care instructions given below while cleaning your EUROBOND ZCPs to get optimum results:

- Always use mild alkaline solution to clean your ZCP surfaces.
- Ensure that you use room temperature water.
- Try to clean the cladding on cool days, in the shade.
- Wipe the surface dry with a soft, cotton cloth to avoid water stains on your ZCP surface.

DAMAGED PANELS

Since EUROBOND ZCP is made of a self-healing material, no action is required for light scratches and abrasion. However, if the panel is significantly damaged, please refer to a licensed contractor/distributor.

TECHNICAL MANUAL ZINC COMPOSITE PANELS (Z-A)

Zinc coil for manufacturing EUROBOND ZCP has been sourced exclusively from RHEINZINK.

The top layer of ZCP (Z-A) is titanium-zinc and the bottom layer is aluminium.

It's available in both FR and Non-FR grades.

ZCP TECHNICAL SPECIFICATIONS

DESCRIPTION OF TEST	STANDARD	UNIT	ZCP	ZCP FR PLUS
Product Detail And Thickness	-	mm	4	4
Coil Thickness Zinc Alloy	EN 988	mm	0.5	0.5
Coil Thickness Aluminium Alloy	EN 485-2	mm	0.5	0.5
Core	-	-	LDPE	Mineral Filled FR
Mechanical Properties				
Zinc Coil				
Tensile Strength	ASTM E8	N/mm ²	150	150
Tensile Yield	ASTM E8	N/mm ²	100	100
Elongation	ASTM E8	%	≥35	≥35
Aluminium Coil				
Tensile Strength	ASTM E8	N/mm ²	150	150
Tensile Yield	ASTM E8	N/mm ²	130	130
Elongation	ASTM E8	%	5-7	5-7
ZCP				
Weight	-	Kg/m ²	8.3	9.9
Tensile Strength	ASTM E8	N/mm ²	50	50
Tensile Yield	ASTM E8	N/mm ²	45	45
Elongation	ASTM E8	%	10	10
Peel Strength	ASTM D903	N-mm	≥6	≥6
Flexural Strength	ASTM D790	N/mm ²	145	145
Flexural Modulus	ASTM D790	N/mm ²	18 X 10 ³	18 X 10 ³
Deflection Temperature	ASTM D648	°C	240	240
Water Absorption	ASTM C272	%	Nil	Nil
Fire Properties				
Reaction To Fire	EN 13501-1	-	-	Class B s1, d0
Resistance To Fire	ASTM E119	hrs	-	3 hrs
Oxyden Index Test	IS 13501	%	-	>40%



Euro Panel Products Limited

(Formerly known as Euro Panel Products Pvt. Ltd.)

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