REYNOARCH®
Zinc Composite Panel

THE REAL ZINC

A PRODUCT FOR 100 YEARS

In Technical Collaboration with IEQSA (America)

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ABOUT US

Reynoarch *is proud to bring you the Zinc Sheet Era. With the last 20+ years of market experience in the Industry bringing innovation is what* ***Reynoarch*** *does. And this time we are bringing you a combination of beauty and longevity.*

Zinc Composite Panels are acclaimed as being extremely resistant to all weather conditions since it is not susceptible to corrosion and rust. It is also important to note that Zinc is a recyclable material that can be reused over and over repeatedly without diminishing the quality, making this material cladding efficient and a great ally to the environment.

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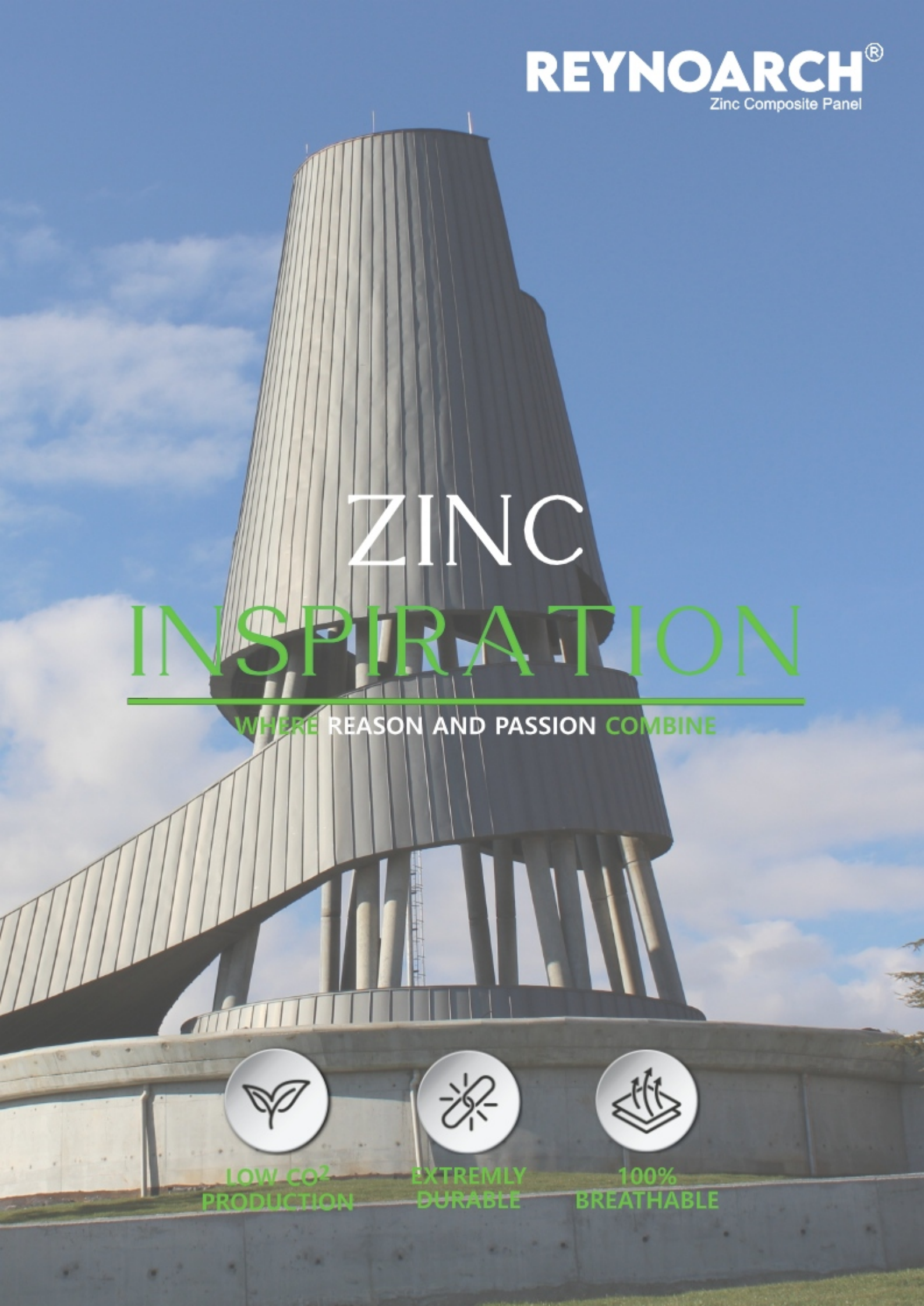
REYNOARCH®
Zinc Composite Panel
ZINC
INSPIRATION
WHERE REASON AND PASSION COMBINE
LOW CO^2 PRODUCTION
EXTREMLY DURABLE
100% BREATHABLE

ABOUT ZCP

Reynoarch ZCP *is a* ***zinc composite panel*** *made of a topside of chemically survived zinc, a core filled with non-combustible minerals, and a bottom side by either zinc or aluminium.* ***Zinc composite panel*** *is applicable for surface uses including soffits, canopies, citadels, rain defences, external claddings, and roofs, especially when you believe that traditional structure accoutrements are inadequate.*

HISTORY OF ZINC

Zinc is the 24th most abundant element in Earth's crust.
The oldest evidence of pure zinc comes from Zawar, in Rajasthan, as early as the 9th century AD.The first reference in any Persian text to zinc mined in India comes, in fact, from Abū'l Faẓl Ā'īn-i Akbarī, mainly compiled in 1595. He tells us: Zinc (jast) is deemed by some to be similar to mercury, by others to lead. Nothing about it is mentioned in scientific texts. It is mined near Jāwar (Zāwar) in the province of Ajmer. A large body of ancient Indian literature e.g. Mahabharata and Ramayana, Grihyasutra, Arthasastra, RasRatnakara, Rasaratnas amucchaya refer to zinc and brass i.e. termed as arakutah, riti or pitala, jasada etc. This literature also reveals the method of production of zinc. Prafulla Chandra Ray cites a passage from Rasarnava (twelfth century) in support of the extraction of zinc. Alchemists called it "philosopher's wool" or "white snow" or "false silver," In India, the use of retorts possibly owes its origin to its earlier application in liquor distillation reported from Taxila (150 BC–AD 150) and Shaikhan Dheri in NWFP Pakistan. In 1960s Zinc was produced by the zinc-lead blast furnace, in which rapid quenching of the gases is a key principle. Zinc resources total about 1.9–2.8 billion tonnes. Large deposits are in Australia, Canada and the United States, with the largest reserves in Iran.

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Certificate

BUREAU VERITAS
Certification

INACAL

INDUSTRIAS ELECTRO QUÍMICAS S.A.

ISO 9001:2015

KOMO®
Product certificate
K74662/03

kiwa

CERTIFICATE

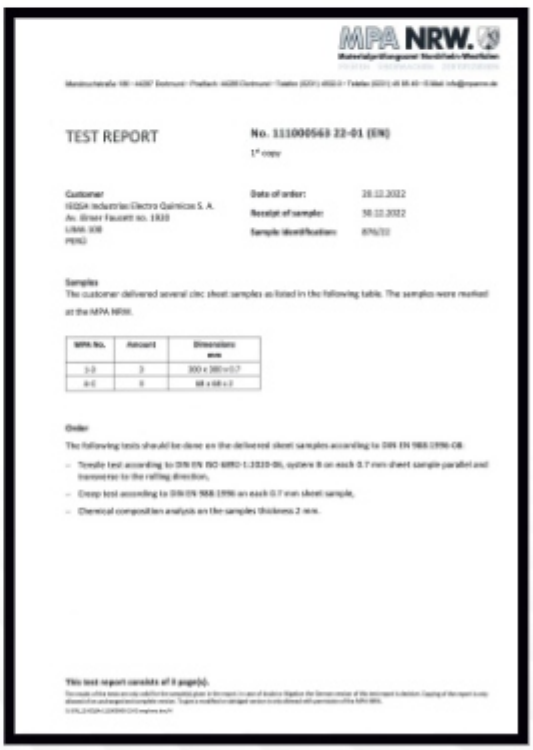
Industrias Electroquímicas S.A.

BUREAU VERITAS
Certification

INACAL

INDUSTRIAS ELECTRO QUÍMICAS S.A.

ISO 14001:2015



MPA NRW.

TEST REPORT

No. 111000563 22-01 (EN)

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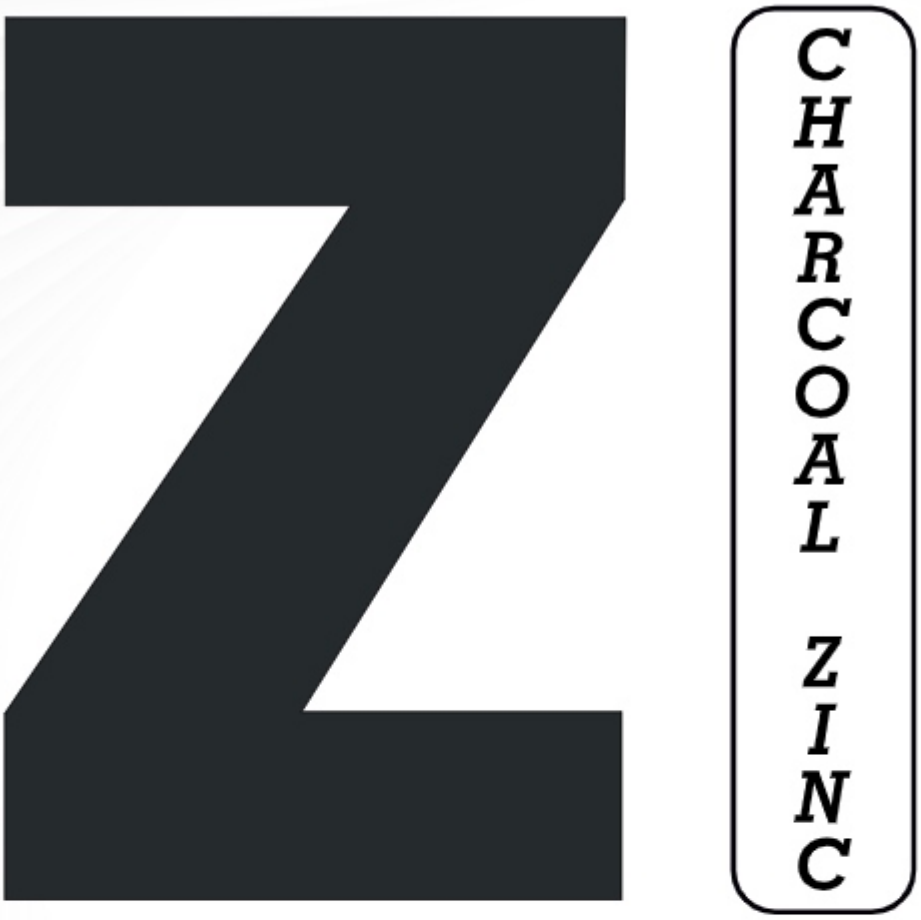

RA-176

Description

The pre-weathering process is the treatment of the surface that is made of Natural Zinc. The Charcoal Zinc product is not a painted product, therefore the variations in color between batches will give the appearance of natural stone rather than metallic.

SPECIFICATIONS

Colour
Charcoal Zinc

Thickness
4mm

Core
FR-B-1

Coil Size
1000 x 2440

Coil Thickness
Top - 0.5 Zinc;
Bottom - 0.5 Aluminium


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RA-175

Description

The second shade formation of Natural Zinc through natural patina development over time also known by the term matte grey patina is called Ash Zinc. When Ash Zinc is scratched it heals on it's own with the spend of time.

SPECIFICATIONS

Colour
Ash Zinc

Thickness
4mm

Core
FR-B-1

Coil Size
1000 x 2440

Coil Thickness
Top - 0.5 Zinc;
Bottom - 0.5 Aluminium


ROOF TOP APPLICATION
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Zinc Composite Panel

NATURAL ZINC

RA-189

Description

The shinny first stage of zinc formed by natural patina also known as Natural Zinc The development of the patina can take. several years depending on the location of the panels. But will take just few minutes to make your building facade shine.

SPECIFICATIONS

Colour
Natural Zinc

Thickness
4mm

Core
FR-B-1

Coil Size
1000 x 2440

Coil Thickness
Top - 0.5 Zinc;
Bottom - 0.5 Aluminium

Technical Data Sheet

Test Parameter	Unit	Result	Test Method
Zinc Plate Thickness	mm	0.5	Din1784
Aluminium Plate Thickness	mm	0.5	Din1784
Core Thickness	mm	3.0	Din1784
Total Panel Thickness	mm	4.0	Din1784
Panel Weight	kg/m^2	8.45	SOP/MECH/01:2019
Density	g/cm^3	2.31	ASTM D792
Heat Deflection Temp.	C	220	ASTM D648
Tensile Strength	N/mm^2	47.2	ASTM D638
Elongation	%	10.0	ASTM D638
Flexural Strength	N/mm^2	140	ASTM D790
Flexural Modulus	N/mm^2	22310	ASTM D790
Shear Strength	N/mm^2	34.2	ASTM D732
Shear Modulus	N/mm^2	36240	ASTM D732
Peel off Strength	N/mm^2	9.8	ASTM D903
Impact Resistance	—	No picking off after reserve impact cross-hatch test.	NCCA-11-5
Tensile Strength	N/mm^2	146.0	ATSM E 8
Yield Strength	N/mm^2	98.8	ATSM E 8
Elongation	%	29.0	ATSM E 8

Aluminium Alloy Skin (Bottom Layer)

Tensile Strength	N/mm^2	146.0	ATSM E 8
Yield Strength	N/mm^2	98.8	ATSM E 8
Elongation	%	29.0	ATSM E 8

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Data Sheet

For Zinc Coil

Properties	European Norm EN 988	ReynoZinc
	Chemical Characteristics	
Zinc quality	Z1 (99.995 %)	Zn 99,995 % En1179
Copper (%)	0.08% -1,0%	0,120% -0,140%
Titanium (%)	0,06% -0,2%	0,065% -0,075%
Aluminium (%)	0.015% max	0,003% -0,006%
Total Lead+ Cadmium (%)	not specified	very limited quantities, on average below 0.0025%
	Physical Characteristics	
Thickness Variation (mm)	±0,03mm	±0,02mm
Width Variation (mm)	+2mm/-0mm	+ 1mm/-0mm
Length Variation (mm)	+10mm /-0mm	+3mm /-0mm
Lateral Curvature (mm)	max. 1.5mm/m	max. 1.5mm/m
Flatness (mm)	max. 2mm	max. 2mm
	Mechanical Characteristics	
Elastic Limit (N/mm^2)	100 minimum	110 minimum
Tensile Strength (N/mm^2)	150 minimum	150 minimum
Yield (%)	min 35%	min 35%
Bending Test	does not exhibit cracks	does not exhibit cracks
Creep (%)	0,1% max	0,1% max
Erichsen deep drawing test (mm)	not specified	7.0 mm minimum

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Manufactured by

REYNOBOND INDIA

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CUSTOMER CARE

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