

design
a more
sustainable
world with
Zn & Cu

(Metal Composite Panels)



AludecoR
Metal Composite Panel

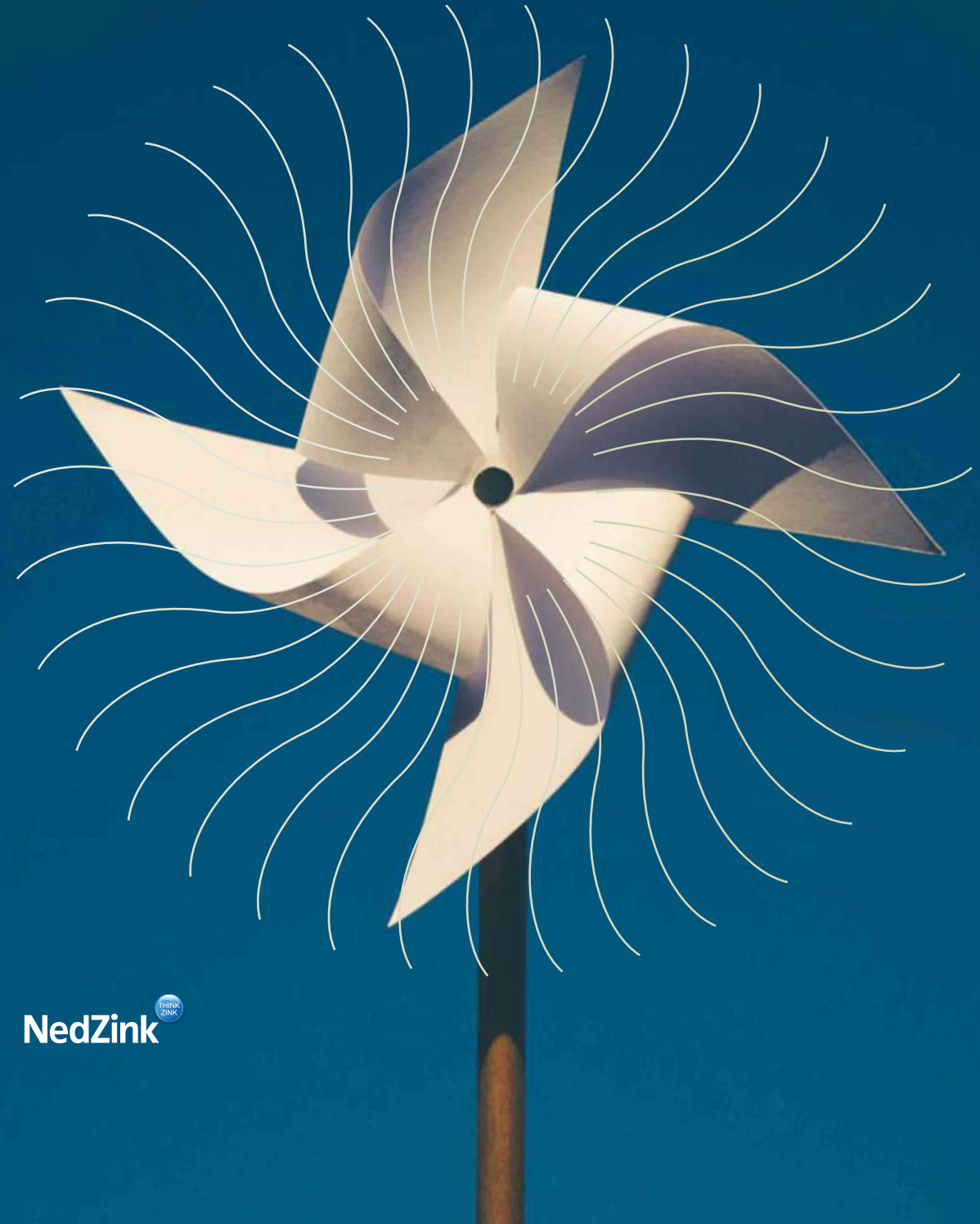
A place known for its quintessential windmills, idyllic canals, beautiful tulip gardens, authentic green villages and cycle pedals outnumbering car engines, is the Netherlands, a country where sustainability is truly a way of life.

Since time immemorial, the country has embraced a future-focused approach, investing heavily in eco-transportation, renewable energy and agri-food resources. Scoring high on the Sustainability Cities Index, this small country in Europe is making waves beyond its borders and setting a model for the world.

The reason behind this is simple. One-fifth of the Netherlands is under sea level with floods always being commonplace throughout history. It took teamwork and a collective approach to reclaim land and keep their feet dry. With this culturally-rooted teamwork, they make their sustainable circular economy work and thrive.

We at Aludecor, market leaders in metal composite panels on a conscious mission to bring innovation in architectural materials whilst taking care of our planet, are moved by this singular value of teamwork. So, we are partnering with NedZink from the heart of the Netherlands, a global pioneer in architectural zinc and a fore-fronter of sustainable building material with their mission being 'Together shaping the future with sustainable beauty' resonating with our own values.

With avant-garde future-oriented processes relying on mainly renewable energy, only the cleanest titanium zinc is produced 100% sustainably. Through this partnership and teamwork, we are bringing the re-invented Zinc Composite Panel series powered by NedZink to India, architectural and façade solutions that will help us design a more sustainable world.



NedZink

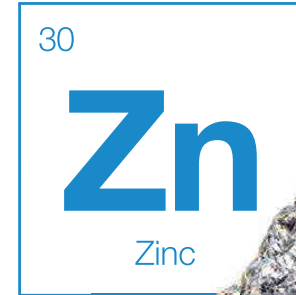


why ZINC

Zinc is a naturally occurring element that stands above par for its sustainable nature. It displays a unique 'Patination Effect' as it absorbs greenhouse gases through different weathering cycles. In this process, it is the only metal to self-heal its surface from cuts and abrasions, thereby requiring little to no maintenance. It is also highly durable and extremely long-living.

Zinc keeps its physical properties intact after recycling, gaining a very high metal value. Moreover, its low embodied energy uses less energy during production, making the production process further sustainable.

Whether natural or pre-weathered, zinc is a metal that's highly valued by architects, façade & interior designers, and professional roofers. It allows for creative freedom in architecture and lends a sleek aesthetic due to patination while being super sustainable and helping create timeless designs. Its versatility makes it perfectly suitable for any type of building and structural design, both in classical and modern architecture.

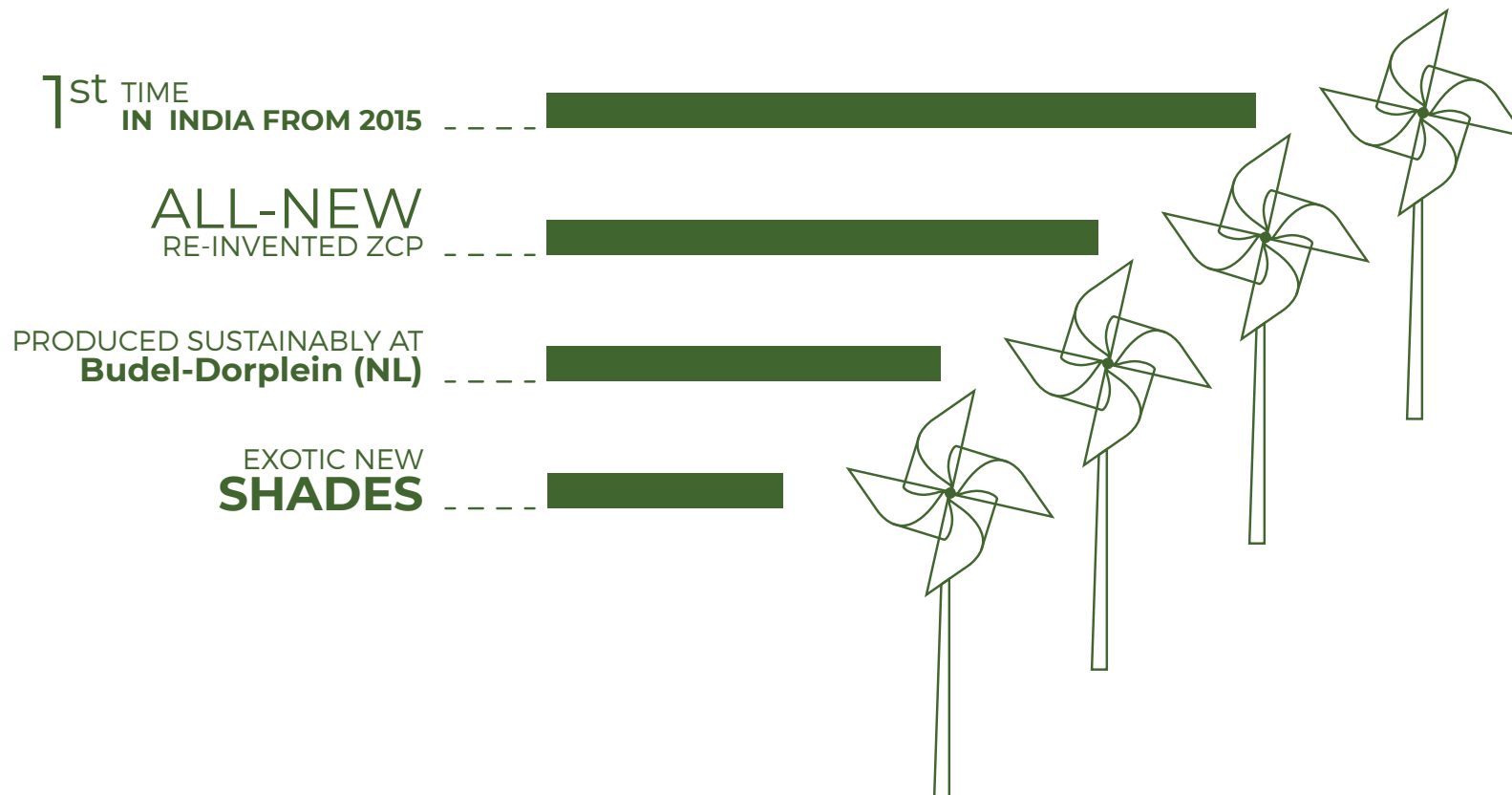


ZINC COMPOSITE PANELS **(ZCP)**

for greater design possibilities

Having introduced Zinc Composite Panels for the very first time in India, Aludecor now presents the all-new re-invented Zinc Composite Panels for architectural and façade applications powered by NedZink, one of the leading zinc producers in the world for architecture. The rolled titanium zinc is produced sustainably at the ultramodern plant in Budel-Dorplein (NL) with the latest production techniques to keep intact zinc's naturally sustainable nature.

NedZink's innovatively effective technology has created tantalizing exotic shades for more design possibilities that add to the aesthetics and sustainability of the buildings, also enabling them to classify for LEED points. These are available in natural and pre-patinated shades in both the normal and fire-retardant grades. They come in the form of sheets with a wide variety of dimensions and thicknesses that can be processed for façade claddings, roofings, interior panellings and other architectural details like dormers, chimneys, gables, balconies and canopies, giving you greater design possibilities while helping design a more sustainable world.



ALUDECOR NATUREL



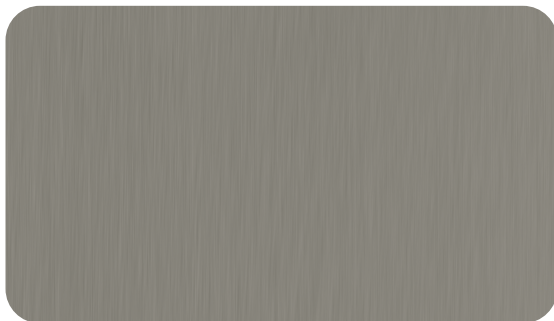
Aludecor NATUREL is natural titanium zinc that becomes increasingly attractive over the years through weathering thanks to its unique Patina Effect, imparting a lively appearance.

ALUDECOR NOVA



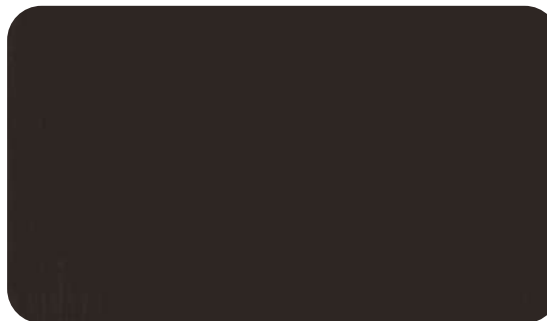
Aludecor NOVA is pre-weathered titanium zinc with a matte, subtle brushed surface in a natural medium-grey colour.

ALUDECOR NEO



Aludecor NEO is pre-weathered titanium zinc with a matte, subtle brushed surface in a mineral grey colour.

ALUDECOR NOIR



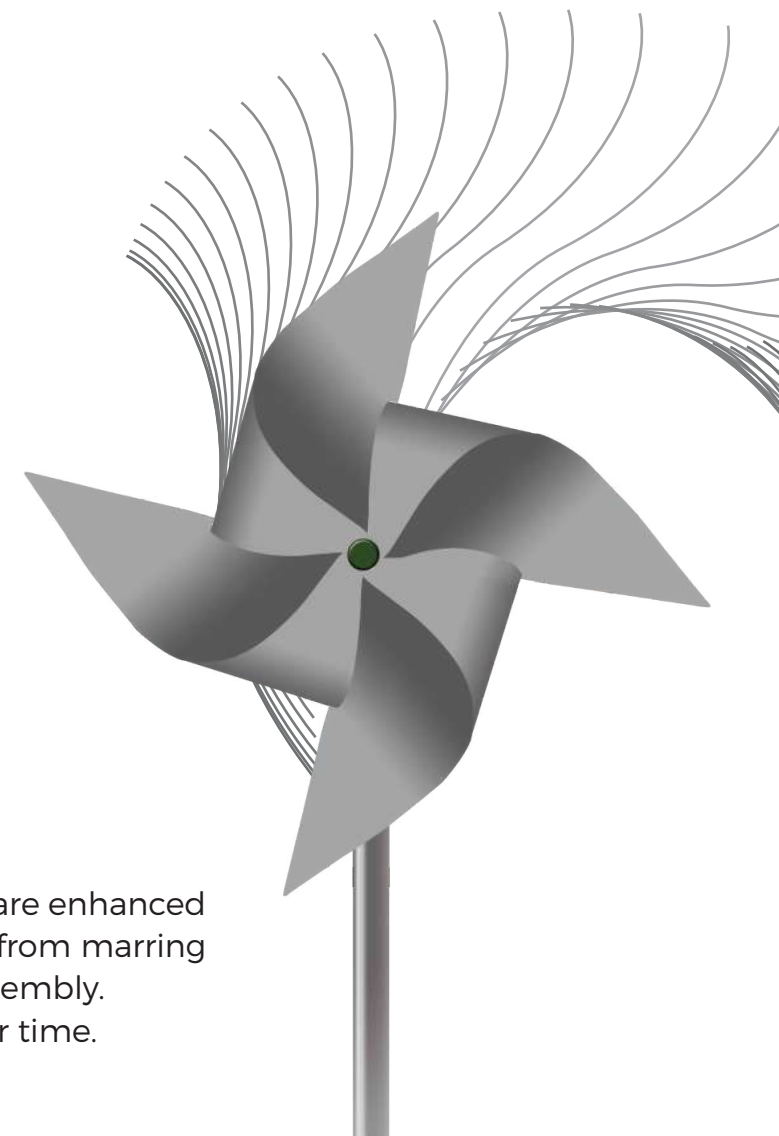
Aludecor NOIR is a pre-weathered titanium zinc in an anthracite black colour.

A-Z shades

OF ZINC COMPOSITE PANELS



Aludecor zinc composite in NOVA, NEO and NOIR shades are enhanced with AFP technology, a coating that prevents fingerprints from marring the ZCP's top surface during application, transport and assembly. This gives the material a slight shine which disappears over time.



ALUDECOR NUANCE Pre-Patinated Titanium Zinc

Aludecor NUANCE is pre-weathered titanium zinc provided with pigments. These results depend on the selected pigment in a pre-weathered zinc variant with a blue, red, brown or green colour nuance.

ALUDECOR NUANCE BLUE



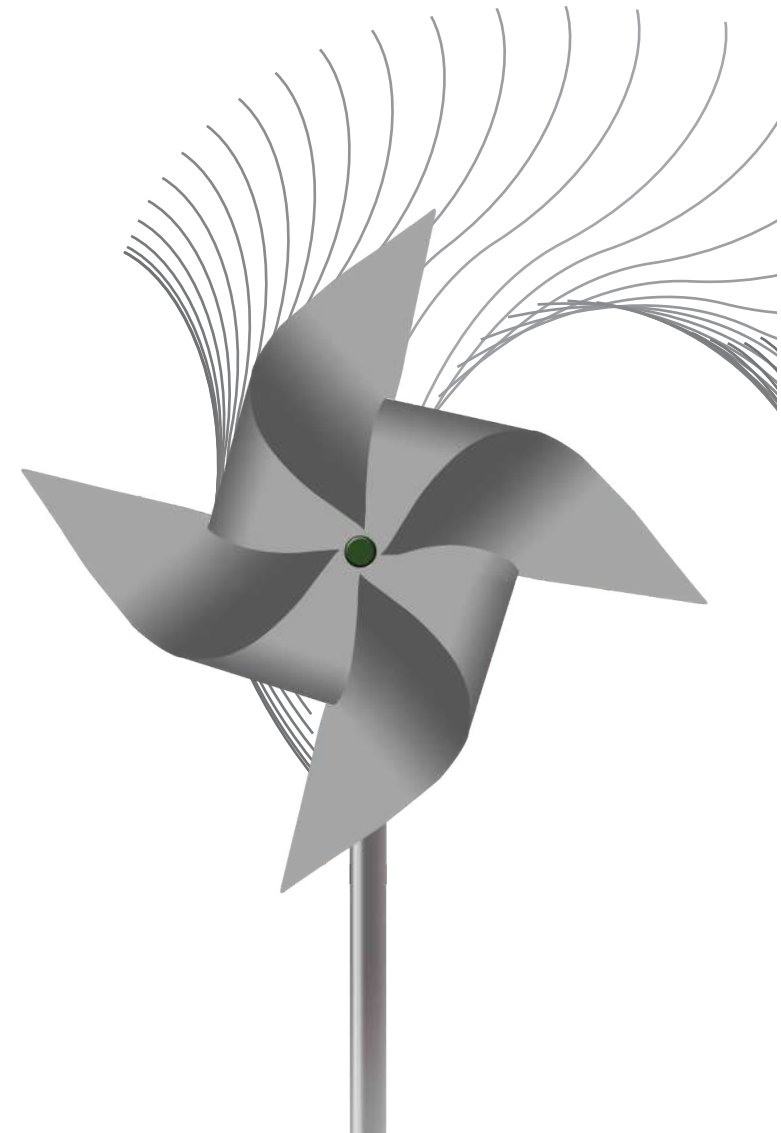
ALUDECOR NUANCE BROWN



ALUDECOR NUANCE RED



ALUDECOR NUANCE GREEN



ZCP TECHNICAL SPECIFICATIONS

DESCRIPTION OF TEST					ZCP				
	STANDARD	UNIT	ZCP	ZCP FR		STANDARD	UNIT	ZCP	ZCP FR
PRODUCT DETAIL AND THICKNESS		mm	4	4	WEIGHT		Kg/m ²	7.5	9.35
COIL THICKNESS ZINC ALLOY	EN 988	mm	0.5	0.5	TENSILE STRENGTH	ASTM E8	N/mm ²	50	50
COIL THICKNESS ALUMINIUM ALLOY	EN 485-2	mm	0.5	0.5	TENSILE YIELD	ASTM E8	N/mm ²	45	45
CORE			LDPE	MINERAL FILLED FR	ELONGATION	ASTM E8	%	10	10
MECHANICAL PROPERTIES					PEEL STRENGTH	ASTM D 903	N-mm	6	6
ZINC COIL	STANDARD	UNIT	ZCP	ZCP FR	FLEXURAL STRENGTH	ASTM D 790	N/mm ²	145	145
TENSILE STRENGTH	ASTM E8	N/mm ²	150	150	FLEXURAL MODULUS	ASTM D 790	N/mm ²	18x10 ³	18x10 ³
TENSILE YIELD	ASTM E8	N/mm ²	100	100	DEFLECTION TEMPERATURE	ASTM D 648	°C	240	240
ELONGATION	ASTM E8	%	35	35	WATER ABSORPTION	ASTM C 272	%	NIL	NIL
ALUMINIUM COIL	STANDARD	UNIT	ZCP	ZCP FR	FIRE PROPERTIES				
TENSILE STRENGTH	ASTM E8	N/mm ²	150	150	REACTION TO FIRE	EN 13501-1			CLASS B s1 d0
TENSILE YIELD	ASTM E8	N/mm ²	130	130	PRODUCT TOLERANCE Panel Width ±2.0mm; Panel Length ±4.0mm; Panel Thickness ±0.2mm; Maximum Squareness 5.0mm; Maximum Bow 0.5% of width and/or length; Coil Thickness ±0.03mm				
ELONGATION	ASTM E8	%	2	2					

a zillion architectural applications

Aludecor's natural ZCP sheets powered by NedZink, are processed for your ideal façade claddings, roofing, interior panelling, dormers, chimneys, gables, balconies and canopies. They allow you to creatively design for a wide range of architectural applications in buildings and construction ranging from corporates, institutions, and government to private houses, from contemporary to retro, all while placing utmost emphasis on both the quality and the environment.

ARCHITECTURAL SECTORS

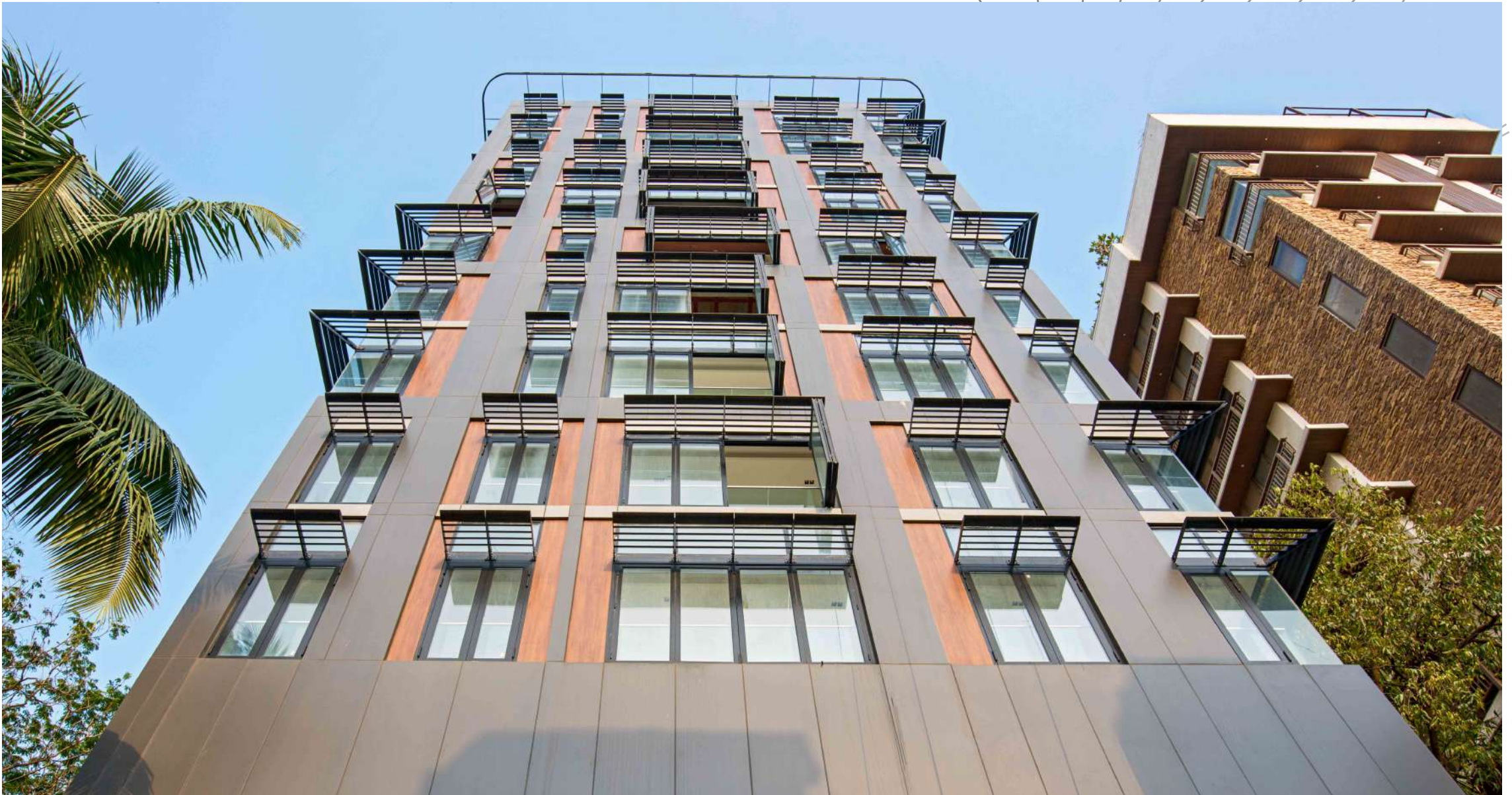
· CORPORATE · INSTITUTIONS · HOSPITALITY · COMMERCIAL · HEALTHCARE · INDUSTRIAL · RETAIL · RESIDENTIAL · GOVERNMENT · PUBLIC SPACES

FACADE CLADDINGS

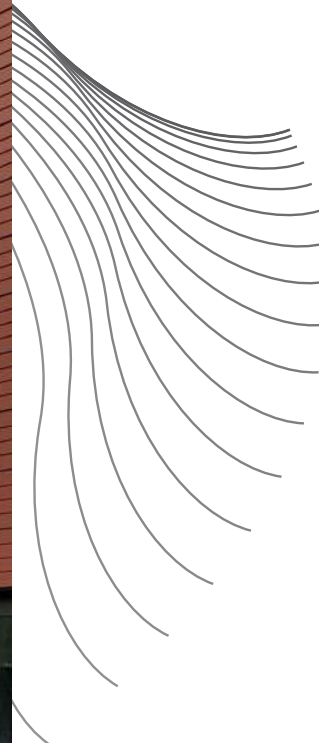
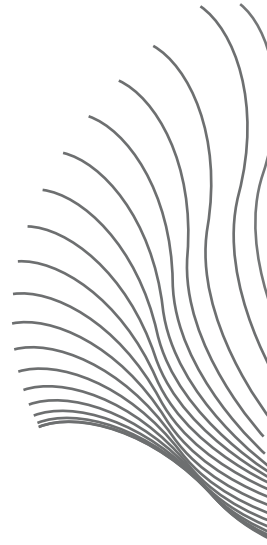


inspiration gallery

Find inspiration and excitement from a glimpse of wholly original and spectacular projects around the world consciously crafted with Zinc Composite Panels (ZCPs). Right from small to monumental projects, the buildings are enveloped in impeccable craftsmanship with a sustainable approach.







|||||





the zinc edge

With an extensive sustainable edge and lasting value, our Zinc Composite Panels stand par excellence and above all other Metal Composite Panels. Given its value realisation in the current society yearning for environmental-friendly beauty, its popularity has only been booming and is a trend here to stay in the future of façade design and architecture.

CERTIFIED QUALITY for the future

To access more details, scan the QR codes that take you to the relevant websites.



Website - aludecor.com



Website - nedzink.com

Aludecor's ZCP range powered by NedZink has been awarded all the relevant quality certificates and eco-friendly labels that allow you to blend exemplary quality, aesthetics and sustainability in your designs.

■ ZCP-FR

The Factory Production Control (FPC) Certification of Class B - s1 d0 in accordance with EN 13501-1 from Warringtonfire (now under Element Materials Technology) attests to the best quality product.



■ EPD CERTIFICATE

Environmental Product Declarations (EPDs) for the NATUREL, NOVA, NEO and NOIR shades are available and are issued by the independent German institute Bauen und Umwelt e.V. (IBU).



COPPER COMPOSITE PANELS (CCP)

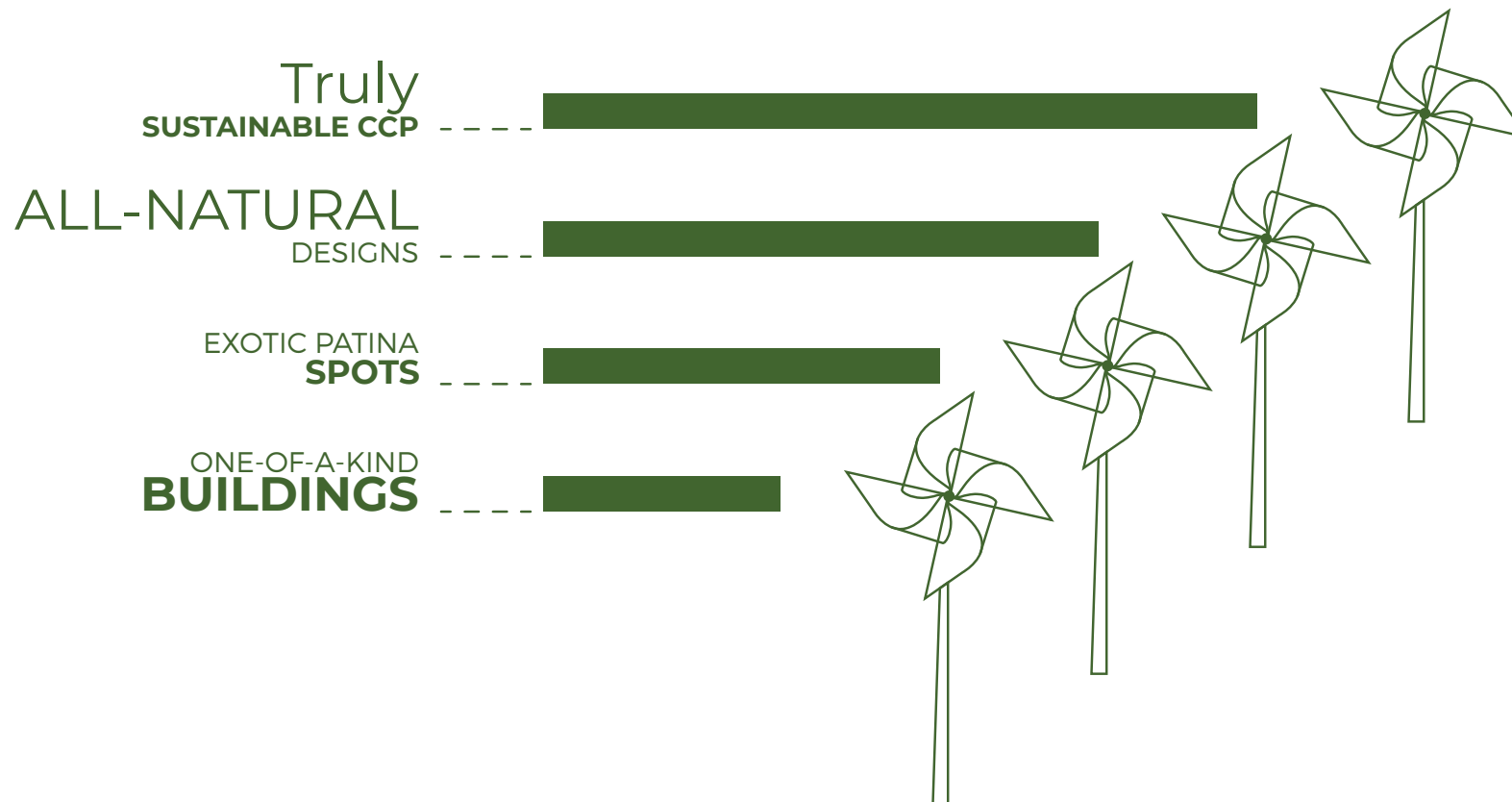
for dynamic, colour-changing abilities

Introduced in India for the first time by Aludecor, India's leading manufacturer of architectural, interior design and façade solutions, we present the truly sustainable Copper Composite Panel range made with copper coils imported from Europe.

The CCPs produced in-house breathe life into your design with their dynamically colour-changing abilities over time owing to their unique patination process (oxidation from weathering, rain, sunshine and humidity). This gives rise to unexpected and exotic patina spots and patterns emerging in dark brown, red to even pale green shades, creating the only-of-its-kind design for the buildings. The brilliant patina spots make the building look lively while protecting the facade from corrosion.

Aludecor's top-notch R&D in the range of certified fire-retardant MCPs with its in-house Fire Core allows for the CCPs to be made fire-retardant.

Aludecor's in-house CCP range is a naturally occurring, glossy copper shade in the form of panel sheets in different sizes for all your façade cladding, roofing and interior needs.



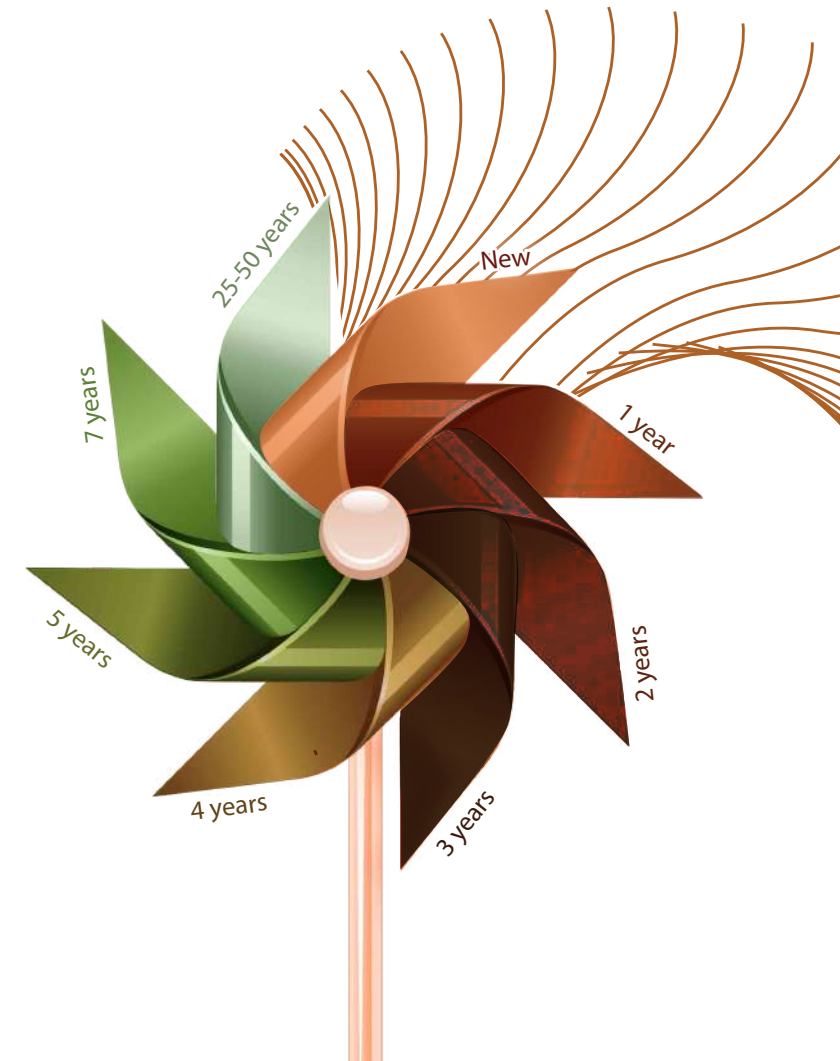
A-Z shades

OF COPPER COMPOSITE PANELS

COPPER CLEAR



Shade Code - CU-01
Natural Copper



CCP TECHNICAL SPECIFICATIONS

DESCRIPTION OF TEST

	STANDARD	UNIT	CCP	CCP FR
PRODUCT DETAIL AND THICKNESS		mm	4	4
COIL THICKNESS COPPER ALLOY	EN 1652	mm	0.21	0.21
COIL THICKNESS ALUMINIUM ALLOY	EN 485-2	mm	0.5	0.5
CORE			LDPE	MINERAL FILLED FR

MECHANICAL PROPERTIES

COPPER COIL	STANDARD	UNIT	CCP	CCP FR
TENSILE STRENGTH	ASTM E8	N/mm ²	240	240
TENSILE YIELD	ASTM E8	N/mm ²	180	180
ELONGATION	ASTM E8	%	8	8
ALUMINIUM COIL	STANDARD	UNIT	CCP	CCP FR
TENSILE STRENGTH	ASTM E8	N/mm ²	150	150
TENSILE YIELD	ASTM E8	N/mm ²	130	130
ELONGATION	ASTM E8	%	2	2

CCP

	STANDARD	UNIT	CCP	CCP FR
WEIGHT		Kg/m ²	6.64	8.8
TENSILE STRENGTH	ASTM E8	N/mm ²	45	45
TENSILE YIELD	ASTM E8	N/mm ²	40	40
ELONGATION	ASTM E8	%	10	10
PEEL STRENGTH	ASTM D 903	N-mm	6	6
FLEXURAL STRENGTH	ASTM D 790	N/mm ²	140	140
FLEXURAL MODULUS	ASTM D 790	N/mm ²	16x10 ³	16x10 ³
DEFLECTION TEMPERATURE	ASTM D 648	°C	240	240
WATER ABSORPTION	ASTM C 272	%	NIL	NIL

FIRE PROPERTIES

REACTION TO FIRE	EN 13501-1	CLASS B s1 d0
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PRODUCT TOLERANCE Panel Width ±2.0mm; Panel Length ±4.0mm;
Panel Thickness ±0.2mm; Maximum Squareness 5.0mm;
Maximum Bow 0.5% of width and/or length; Coil Thickness ±0.03mm

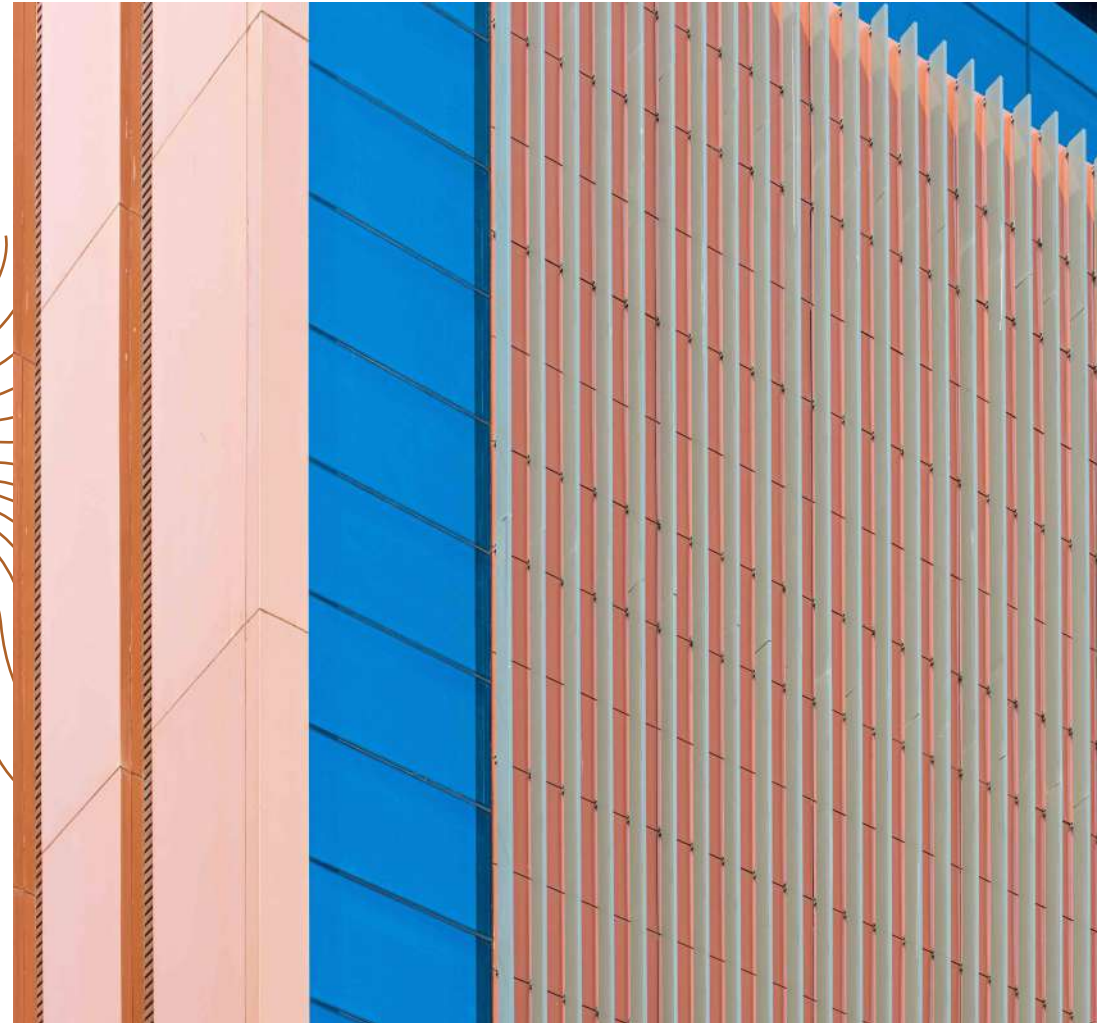
versatile architectural applications

The natural CCP sheets from Aludecor are ideal for your façade claddings, roofing and interior panelling for all big and small projects and help bring creative and versatile designs to life with their easy malleability and ductility while remaining super sustainable.

ARCHITECTURAL SECTORS

· CORPORATE · HEALTH CARE · HOSPITALITY · COMMERCIAL · RETAIL · INDUSTRIAL · RESIDENTIAL · GOVERNMENT

FACADE CLADDINGS

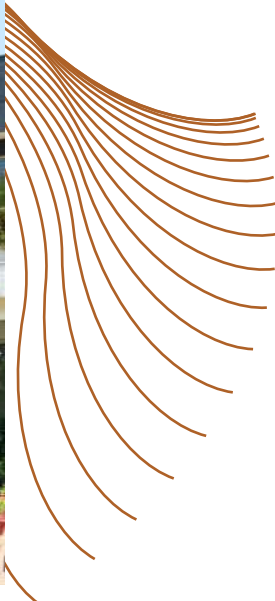


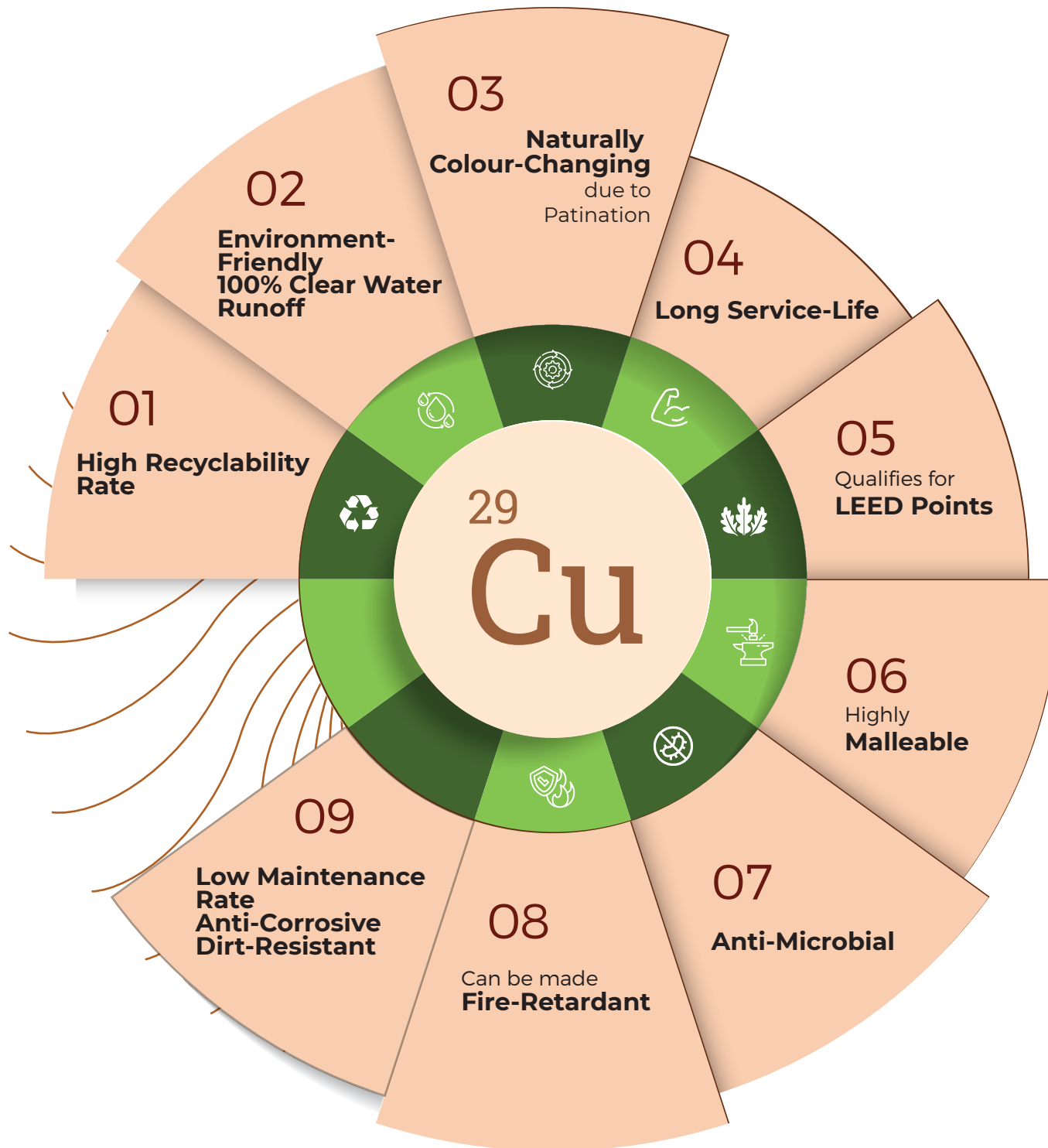
responsible minded projects

Here is a showcase of environmentally conscious buildings made with Aludecor's completely natural, colour-changing CCPs with an emphasis on health.









the copper edge

The pure natural copper core adds a host of environmental and hygienic benefits to the Copper Composite Panels (CCPs) from Aludecor that make it a wise choice for architectural spaces where both the planet's and our health are a priority.



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Zonal Offices - Delhi, Mumbai, Chennai



Branch Offices - Ahmedabad, Kochi, Pune, Hyderabad, Bangalore, Indore, Bhubaneswar, Guwahati & Nagpur

Scan this to know more about
our sustainable MCPs



Website - **aludecor.com**

A percentage of the proceeds from our sales is forwarded towards welfare purposes.

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