

EN

zintek®



**THE
COLOR
LINE**

 **zintek**®
TITANIUM-ZINC IN ARCHITECTURE



THE COMPANY

Zintek Srl is present on the national and international market as the sole Italian manufacturer of zintek® titanium zinc rolled products for architectural use and is part of the Cordifin Group, a holding that operates in the real estate, industrial and financial sectors.

Zintek provides any solution related to the choice and application of the zintek® titanium-zinc rolled products and is a reference point for the construction of roofs, facades and sheet metal works suitable for any context, from the new building to the conservative restoration, up to the regeneration of disused buildings.

The zintek® production plant, active in Porto Marghera since 1936 on an area of 86 thousand square meters, is a historical reference point in the Venetian, Italian and international metallurgy.

Major works involving the use of zintek® include: the UniCredit Pavilion, Prysmian Headquarters

and San Luca Auxological Hospital in Milan; the Cittadella dell'Edilizia in Porto Marghera; the Alitalia headquarters in Rome; conservative restoration works: the Molino Stucky Hilton Hotel on the Giudecca Island in Venice; the Post Building in Trieste; the cupola of the Church of the Archangel Saint Michael in San Michele di Piave; requalification works in historical contexts: the headquarters of the Messaggero di Sant'Antonio in Padua; piers and kiosks in the historical center of Venice. Furthermore, the company has participated in internationally relevant projects, such as the requalification of Le Albere neighborhood in Trent, designed by Renzo Piano, and has continued its collaboration with the architect during the recent construction of a pediatric hospital in Uganda for Emergency.

Zintek has also broadened its horizon to include international markets, thanks to a line of innovative products offered via specific sales channels.



**THE
COLOR
LINE**

A project for your future

A FUTURE FOR YOUR PROJECTS

ZINTEK®: ALSO IN COLOR

Always attentive to the latest trends, Zintek is proud to present a in the world of architecture and design: six colors that emphasize the nature of titanium-zinc zintek®, while maintaining its properties intact.

Mediterranean Blue, Lagoon Green, Antique Red, Natural Earth Brown, Rock Grey and Graphite Black: color meets material and becomes an actual architectural element.

Choosing zintek® means choosing the visible and tangible pleasure of a material which is alive and long lasting, capable of maintaining its value intact over the course of the years.

ARCHITECTURE OF MATTER: THE VALUE THAT MAKES THE DIFFERENCE

INNOVATION

Zintek has launched on the market a line of colored rolled products obtained with a pigmentation coloring process that offers a wide range of possibilities for applications.

TECHNOLOGY

The colors have been developed to highlight the aesthetic quality of zintek® rolled products, while maintaining its technical and functional characteristics intact.

VERSATILITY

The zintek® rolled products are ideal for architecture and interior design, and they give personality and originality to every project, in full harmony with the environment.



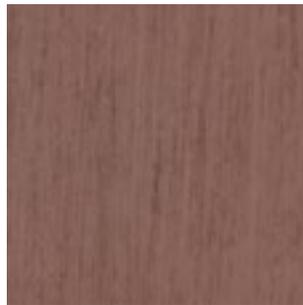
MEDITERRANEAN BLUE

The fascinating charm of the underwater world reproduced in a soft color tinged by striking venations, worthy of the king of the seas.



LAGOON GREEN

A tribute to the city of Venice and the changing colors of the waters overlooked by the bridges and palaces of the glorious Serenissima.



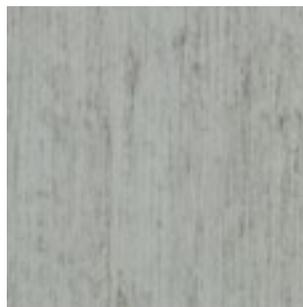
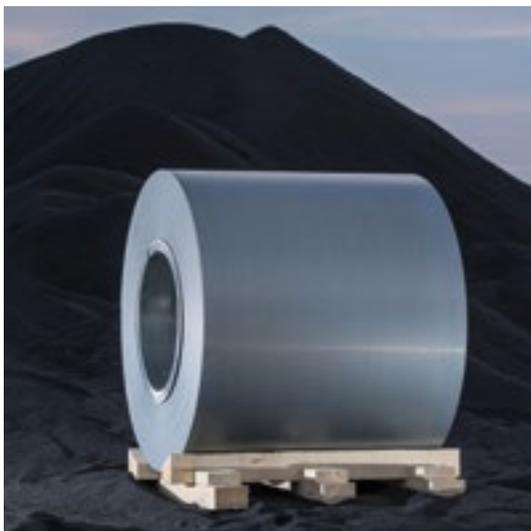
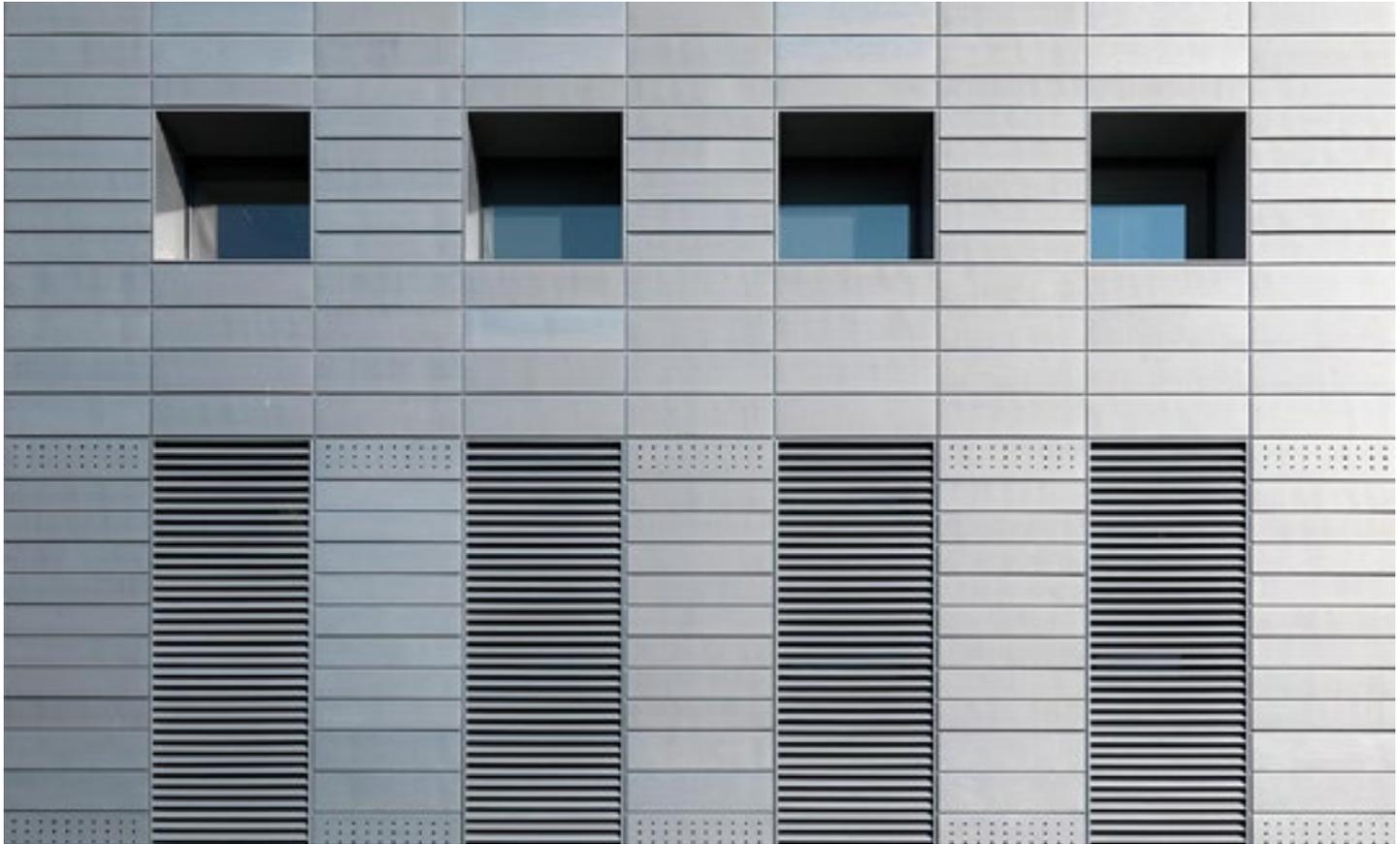
ANTIQUE RED

The red that has always defined the image of “home”, from the walls that protect to the roof that covers. Same color, revolutionary performance.



NATURAL EARTH BROWN

A tribute to the color of the earth, to the ground that sustains forests and cities. A fitting reminder of humanity's responsibilities towards the well-being of the planet.



ROCK GREY

The traditional color of zintek®, the strong and elegant grey which covers the main buildings of every city and, just like rock, stands the test of time.



GRAPHITE BLACK

Graphite is a mineral that, like very few of others... leaves a mark. Each work is born with the stroke of a pencil, which follows the project from concept to reality.

FIELDS OF APPLICATION

Today, Zintek supplies any solution related to the choice and installation of the titanium zinc rolled products. A reference point for the construction of titanium-zinc covering solutions, façades and tinsmithery, the company has entered the international market with a line of innovative products.

Its mission is to ensure the beauty, longevity and authenticity of buildings in every context, from new edifices to conservative restoration operations, up to the regeneration of constructions in disuse, thanks to the unique quality of its organization and of its product.



ROOFING SOLUTIONS

zintek® adapts to any design, allowing architects to express their full creativity.



FAÇADES SOLUTIONS

A homogeneous and elegant skin ensuring protection.



TINSMITHERY SYSTEMS

No detail is left to chance with zintek® accessories.

SECTORS OF USE

The increased commercialization and diffusion of titanium zinc rolled products in Europe and in the rest of the world can be explained within an ever

more innovative architectonic scenario where the demand for new materials, capable of adapting to unprecedented forms, is constantly growing.



CONTEMPORARY ARCHITECTURE

The rolled products can be subjected to pre-weathering procedures.



RESTORATION WORKS

A versatile material capable of natural integration in historical buildings.



BUILDING REGENERATION

A powerful ally when aiming to breathe new life into old and obsolete buildings.

TECHNICAL FILE OF ZINTEK® TITANIUM ZINC PRODUCTS

UNI EN 988 - COMPOSITION IN %				UNI EN 988 - MECHANICAL CHARACTERISTICS				MASS CALCULATIONS	
	MIN	MAX						NOMINAL THICKNESS mm	APPROXIMATE MASS Kg/m ²
Cu	0.080	1.000	Offset from proportionality unit load	0.20%	Rp 0.2	N/mm ²	min 100		
Ti	0.060	0.200	Tensile strength		Rm	N/mm ²	min 150	0.60	4.30
Al	—	0.015	Elongation percentage after break		A50mm	%	min 35	0.65	4.70
Zn	—	—	Sliding elongation percentage			%	max 0.1	0.70	5.00
Z1-quality zinc			Minimum hardness				HV 45	0.80	5.80
								1.00	7.0

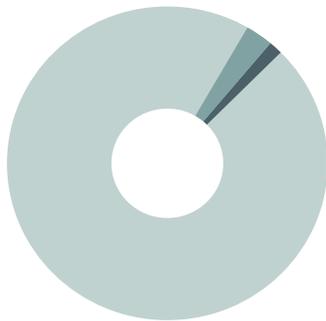
PHYSICAL AND TECHNOLOGICAL CHARACTERISTICS

Description	MEASUREMENT UNIT	Value
Density	Kg/dm ³	7.14
Melting point	°C	419
Specific heat at 20° C	kJ/Kg °C	0.401
Thermal conductivity at 20° C	W/m °K	109
Electrical conductivity at 20° C	m/ohm mm ²	17
Thermal expansion coefficient in parallel direction to the lamination	mm/m °C	0.022
Thermal expansion coefficient in transversal direction to the lamination	mm/m °C	0.017
Re-crystalization limit	°C	>300
Elasticity modulus	N/mm ²	>80,000
Erichsen value	mm	07-09
Bend test at 180° 20° C in longitudinal direction	n°	3 minimum
Bend test at 180° 20° C in transversal direction	n°	5 minimum
Rigidity	%	40-55
Non magnetic		
Non combustible		

MADE IN ITALY - MADE IN VENICE



ZINTEK®: AN ITALIAN PRODUCT



ZINC **ZN**

COPPER **CU**

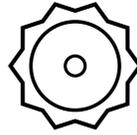
TITANIUM **TI**

Zintek® is an alloy composed of zinc, copper and titanium, produced with high-quality 99.995% zinc, in full observance of European standard EN 1179, with the addition of alloying elements. The zintek® rolled products complies with European standard EN 988 "Zinc and Zinc alloys - Specifications for flat rolled products and for construction works." The alloy components which improve the characteristics of zinc in the rolled products are titanium, which increases resistance to permanent deformation, and copper, which increases tensile strength. The combination of these two components reduces the alloy's expansion coefficient.



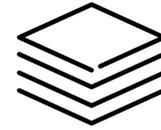
COMPANY

Zintek Srl, a Cordifin Group company, the sole Italian manufacturer of zintek® titanium zinc rolled products.



PLANT

Operational since 1936 in the Venetian industrial area, our plant covers an area of 86,000 sq. m., 48,000 of which are indoors.



PRODUCTION

The plant produces more than 100,000 tons of semi-processed zinc each year.



SALES AREA

Includes a direct sales channel for zintek® rolled products and accessories, offering cost estimate and post-sales support.



MARKETING AREA

Studies the best tools to increase the visibility of the product and company, through publications and attendance in fairs and events.



TECHNICAL AREA

Offers design-focused and technical consultancy, provides cost estimates and budgets, supplies informational material and manages the P.O.L. online estimate cost calculator service.



TRAINING AREA

Includes workshops for development of the product and an International Academy for installers and architects that organizes meetings and specialization courses.



GENERAL CONTRACTOR

In the case of major works, Zintek coordinates specialized companies to provide the full roofing package.

OPENING TO FOREIGN MARKETS



ZINTEK, FOR ECOLOGICALLY SUSTAINABLE ARCHITECTURE

In terms of eco-sustainability, Zintek complies with all requirements set forth by laws concerning its product: responsible use of resources, assessment of the life cycle of products and materials, as well as their conformity on an European level; the company has also achieved certificates that testify to the extremely high quality of zintek® rolled products.

Health, safety, environmental management, ethics: Zintek has chosen to certify its processes to ensure maximum reliability for its employees, partners and clients.



ZINTEK: AT YOUR SERVICE

SAMPLES

Ask for color samples

MATERIAL

Request technical information on the rolled products

CONSULTING

Advice for your projects

SUPPORT

Technical and installation assistance

TRAINING

Information on scheduled courses

EVENTS

Information on upcoming conferences

A PROJECT FOR YOUR FUTURE

Future for your projects

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LINE**

 zintek®

 GRUPPO CORDIFIN



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ZINTEK® PRODUCTION PLANT - 86.000 SQ. M.

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