

elZinc<sup>®</sup>  
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the purity  
of the element

H																	He					
Li	Be															B	C	N	O	F	Ne	
Na	Mg															Al	Si	P	S	Cl	Ar	
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr					
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe					
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn					
Fr	Ra	Ac	Rf	Db	Sg	Bh	Hs	Mt														
			Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu						
			Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr							



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# the company

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ASTURIANA DE LAMINADOS S.A., operating under the brand name elZinc<sup>®</sup>, has in just a few years become a reference within the rolled zinc sector, and is nowadays the third largest producer worldwide.

elZinc<sup>®</sup> products comply with the highest quality standards and outdo the requirements outlined in the EN988 standard. Thanks to our investment in R&D+i and the use of the best and latest technology, elZinc<sup>®</sup> achieves top-quality products and services.

Our product portfolio and our variety of finishes (natural and preweathered zinc) combined offer great flexibility, making a wide range of solutions available to our clients.

Our Commercial and Technical departments at elZinc<sup>®</sup> deliver a personalised customer service in all countries, adapting to our clients' needs.

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# international vision

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elZinc® is currently developing its activity all over the world.

The efforts being made in our internationalization reflect elZinc's vision: to be a world leader in the rolled zinc sector by developing quality products and offering a new alternative to our clients.

In the coming years, we intend to strengthen this leadership, consolidating and developing the positions we have achieved in our international markets and expanding our presence in other potential regions.

Activities in foreign markets represent 98% of our consolidated sales.

Distribution of elZinc's products worldwide:





# quality

Our dedication and commitment to our clients, and the pursuit of the improvement of our products and services, are the basis of our Quality Policy.

As a result of this continual pursuit of improvement, we have obtained the Quality Certification according to the UNE-EN ISO 9001:2008 standard, thus ensuring a comprehensive control of all of our processes and products.

eZinc undergoes thorough internal and external quality examinations that ensure excellent properties, thus exceeding the requirements established by standard EN 988.

Our client's trust constitutes one of the Company's essential pillars; for this reason, studies have been conducted by independent experts, such as the prestigious German consulting firm Zinkberatung Ingenieurdienste GmbH (ZID), specialized in zinc alloys, which have confirmed the high Quality of our material.



Test criteria for eZinc's standard rolled zinc:

Product Requirements	EN 988 Standard	eZinc titanium zinc
<b>CHEMICAL COMPOSITION</b>		
Zinc	Zn 99,995 (Z1 as per DIN EN 1179)	Zn 99,995 (Z1 as per DIN EN 1179)
Copper	0.08 - 1.0%	0.08 - 0.2%
Titanium	0.06 - 0,2 %	0.07 - 0.12%
Aluminium	max. 0.015%	max. 0.015%
<b>DIMENSIONS/TOLERANCES FOR STANDARD PRODUCTS</b>		
Thickness of sheets/coils	± 0.03 mm	± 0.02 mm
Width of sheets/coils	+ 2 / - 0 mm	+ 1 / - 0 mm
Length of sheets	+ 10 / - 0 mm	+ 2 / - 0 mm
Straightness	max. 1,5 mm/m	max. 1,0 mm/m
Flatness	max. 2 mm.	max. 2 mm.
<b>MECHANICAL AND TECHNOLOGICAL PROPERTIES IN THE DIRECTION OF ROLLING</b>		
Yield strength elasticity (Rp 0,2)	min. 100 N/mm <sup>2</sup>	min. 110 N/mm <sup>2</sup>
Tensile strength (Rm)	min. 150 N/mm <sup>2</sup>	min. 150 N/m <sup>2</sup>
Breaking elongation (A50)	min. 35%	min. 40%
Vickers hardness (HV3)	–	min. 45
Bending test	No cracks at the edge of fold	No cracks at the edge of fold
Bending back after folding test	–	No cracks
Erichsen test	–	min. 7,5 mm
Remaining stretch in creeping behaviour test (Rp0,1)	máx. 0,1%	máx. 0,1%



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# environment

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elZinc is committed to environmental protection, promoting practices that ensure sustainable development by using the best and most advanced technologies available in the market to develop our activity.

elZinc, in collaboration with the prestigious German Institute of Construction and Environment (IBU) has produced an Environmental Product Declaration (EPD) for its products. For those professionals who strive towards ever more sustainable construction it provides all the relevant information, broken down and checked, on the environmental impacts of our products.

Another key factor in our environmental management is the selection of our suppliers. Our procurement policy is chiefly based on making environmentally-friendly purchases and contracts, prioritising suppliers that incorporate sustainability criteria in their management, while always ensuring the high quality of the products and services they provide.

Our main supplier of raw materials is located in the same region (Asturias) as our facilities ensuring minimal environmental impact from transport.



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# R&D&I

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Our highly qualified research, development and innovation team are continuously working to improve and extend our product range in order to respond to clients' requests and requirements as quickly as possible.

The key is understanding our clients in each country, anticipating their needs, getting them involved and building loyalty. This is why eIZinc devotes a great deal of human and financial resources to research; in order to continuously improve its products and to perfect a sustainable, high-quality, durable construction material which leads all professionals in the building industry to regard it as the best choice for their projects.

The permanent collaboration of our R+D+I department with renowned technological centres and universities, allows us to progress in the development of new products and to consolidate the Know-How already attained.



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# the products

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Whether natural or pre-weathered, zinc is a material which is highly valued by architects and professional roofers. It allows great freedom in terms of aesthetics and architecture. It is perfectly suitable for all types of construction both in classical and modern architecture.

eZinc's manufacturing process guarantees a quality product in each of its phases.

The precision in the composition of the alloy used and the implementation of controlled lamination, which define the thermo-mechanical processes and the material's micro-structural changes, are the keys to both the process's and the product's excellence.

eZinc's products are characterised by:

- High malleability, regardless of the direction of rolling
- High stability once conformed
- Optimal electrowelding performance due to its low surface oil content
- Limited fragility at low temperatures.

All eZinc's rolled products exceed the requirements established by the EN 988 standard.





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# elZinc Natural

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**elZinc Natural's** life starts with a metallic grey colour.

After exposure to weathering, the naturally formed patina layer protects it and provides it with exceptional resistance against corrosion while giving it its final color (grey).







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# elZinc Slate<sup>®</sup>

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**elZinc Slate<sup>®</sup>** is a matt grey pre-weathered zinc. It is used in roofing and on façades, or for interior work where the patina takes longer to form.

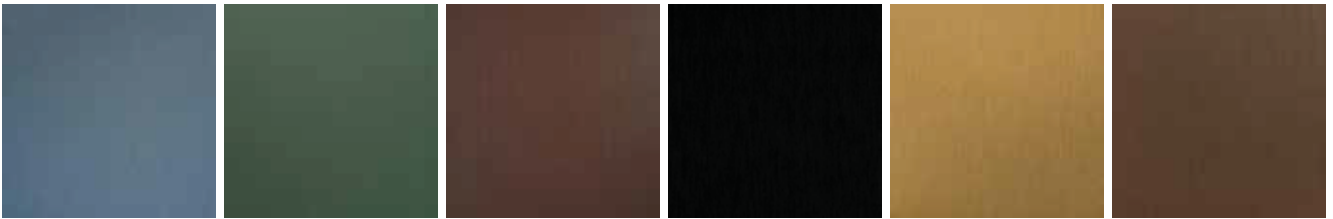
**elZinc Slate<sup>®</sup>** is also used in restoration and renovation since its initial colour allows it to blend in easily with the already existing zinc easily.

The pre-weathering is performed using a non-polluting phosphate treatment that gives it a uniform appearance that would have been achieved after several years of exposure to the open air while preserving its initial properties.









elZinc Rainbow® blue

elZinc Rainbow® green

elZinc Rainbow® red

elZinc Rainbow® black

elZinc Rainbow® gold

elZinc Rainbow® brown

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# elZinc Rainbow®

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**elZinc Rainbow®** is a rolled zinc-titanium, which meets the European standard EN988, manufactured from elZinc Slate® (with the exception of elZinc Rainbow gold) by applying mineral pigments. The 35 organic coating provides additional anti-corrosion protection.

Its attractive, natural and warm tones give it great aesthetic value for both interior and exterior applications. Each shade in the range lends its own personality to a project, fitting in perfectly with its surroundings.









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