elZinc® for facades and roofs

www.elzinc.es

Designing with elZinc®

About elZinc®

Established in 2006, Asturiana de Laminados, SA by virtue of its elZinc brand, has become one of the world´s main producers of rolled zinc for architectural metal cladding.

The use of the latest technologies in casting, rolling, slitting and cutting coupled with the implementation of the most rigorous quality control protocols, allows elZinc to better the tolerances established in the current European and American standards, namely EN988 and ASTM B-69.

Our success is founded upon a constant strive to improve and satisfy the market´s most demanding requirements. Thanks to the work carried out in R&D&I, we offer a wide range of roofing and cladding products and finishes, and are already present in more than 50 countries.

More than 160 professionals place their expertise at your disposal, providing customized technical and commercial assistance aimed at construction professionals that may require it in any part of the world.

Monash University (roof)
Architect: John Wardle Architects
Finish: elZinc Slate
Systems: Standing Seam & Flat Lock
Victoria / Australia

Lifetime warranty

elZinc Lifetime Warranty:
A lifetime warranty for long-lasting cladding.

One of the main characteristics of titanium zinc is its high corrosion resistance. As a living material, it will naturally develop a patina that will protect it during its entire life. Zinc´s remarkable properties make it a waterproof and weather-resistant builing skin. Produced with the most advanced technology and according to a rigorous quality protocol, elZinc® zinc-titanium is of exceptional quality.

This is why we can offer a lifetime guarantee on all our elZinc Alkimi® finishes, a UNIQUE guarantee on the market that reflects the absolute confidence we have in our products.

What do we guarantee?

- The manufacture of our elZinc Alkimi® range of finishes is in accordance with the requirements set out in EN 988 and EN 1179, as well as with elZinc® technical specifications, for the duration of the product's service life.

- That the surface of elZinc® Natural and those of the elZinc Alkimi® range will not crack, blister, peel, flake or chalk.

- That during their service life, elZinc Alkimi® finishes will not discolour or fade to a colour that is not characteristic of zinc, or that cannot be associated with naturally aged zinc or naturally weathering zinc.

In the unlikely event that your elZinc® product has a manufacturing defect, elZinc® will replace or repair it in accordance with the terms of the warranty.

* For more information visit our web page: www.elzinc.es

Private residence
Architect: Feichtinger Architekturbüro & Fürtbauer GmbH
Finish: elZinc Slate
System: Standing sean
Austria

A sustainable material

An abundant element in nature, zinc is essential for life. When used in construction, it contributes to respecting the environment. Highly durable, zinc is one of the few building materials that can be 100% recycled over and over again without losing any of its properties.

elZinc in sustainable architecture

Environmental protection has now become an imperative. Designing buildings with a view to reducing their impact on the environment is good for nature, but also for the people who work or live in them. Therefore, we develop quality solutions that meet the requirements of sustainable construction and manage our processes within the framework of a production model geared towards full environmental compatibility. With a clear focus on neutrality, we constantly fine tune our production processes to preserve natural resources and contribute to the fight against climate change.

To find out more about the advantages of elZinc products regarding sustainable construction, please contact us.

Our commitment to the environment

Our commitment to the environment has led us to develop high quality products that meet the requirements of sustainable construction, while controlling the ecological impact of our activities. We are committed to providing you with the peace of mind you need when you decide to build with elZinc.

ISO 50001 ISO 14001 GlobalEPD A VERIFIED ENVIRONMENTAL DECLARATION

Safer with elZinc

Fire safety of buildings depends on several factors, including the fire resistance of the materials used. For this reason, elZinc titanium zinc is an ideal material for projects that require an exterior cladding that is functional, attractive and also non-combustible.

All our aesthetic zinc finishes (elZinc Alkimi and elZinc Rainbow) and our technical finishes (elZinc Advance and elZinc Protect+) have the best reaction to fire. They are classified as A1, which corresponds to 'no contribution to fire' - the highest level.

Our Finishes

Rolled zinc, a building material that appeared in the 19th century, has many aesthetic and functional advantages that allow it to adapt to all architectural styles. Thanks to its exceptional malleability, elZinc® titanium zinc adapts to the most unusual and complex geometries.

Its versatility in terms of implementation systems and surface aspects allows it to be installed inside and outside, to cover the entire building, or to be used as a simple decorative element.

We offer you a wide range of timeless and elegant aesthetic surface aspects that will integrate harmoniously into your building.

- **elZinc Alkimi®** range: Our 5 pre-patinated grey surface aspects reveal the shapes, volumes and textures of the architecture.
- **elZinc Rainbow®** range: Introduce colour into your projects and combine the elegance of zinc with the richness of colour.

In order to reinforce the technical characteristics offered by our rolled zinc while preserving their aesthetics, discover our technical solutions:

- **elZinc Advance®** is the ideal solution for projects exposed to a corrosive environment and requiring additional protection.
- **elZinc Protect+®** allows the use of elZinc® laminated zinc on substrates normally incompatible with zinc

Logistic Center Mayoral
Architect: Santiago Pérez y Rafael Urquiza
Finish: elZinc Natural
System: Standing seam
Málaga/ Spain

Single-family home Madreselva
Architect: David Olmos Arquitectos
Finish: elZinc Slate
System: Angle standing seam
Asturias/ Spain

Warranty for life

elZinc Alkimi®

Pure elegance

Zinc cladding and roofing allows a great deal of freedom when designing. The elZinc Alkimi® aesthetic finishes give character and authenticity to your architectural projects.

Manufactured from elZinc® Natural, according to EN988 and ASTM B-69 standards, through a unique surface treatment carried out with elZinc technology and know-how, the elZinc Alkimi® range respects and maintains intact the zinc´s original properties.

Zinc cladding and roofing contributes to create a unique style and confers undeniable aesthetic value to buildings. Used alone or combined, the shades that compose elZinc Alkimi® - currently the widest on the market - reveal the shapes, the volumes and the textures of architecture.

The entire elZinc Alkimi range is guaranteed for life. See conditions.

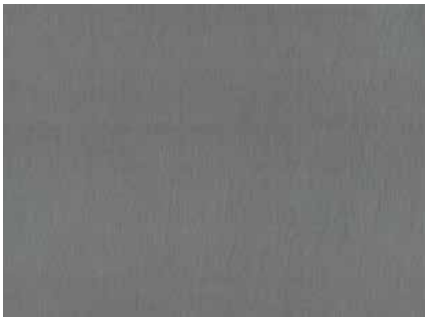
elZinc Natural

elZinc Slate®

elZinc Graphite®

elZinc Crystal®

elZinc Lava®



elZinc Oliva®

Terminus Nord Hotel
Architect: Axel Schoenert
System: Batten roll
Paris / France

elZinc Natural

A timeles classic

elZinc® Natural is original titanium zinc fresh from the rolling mill.

elZinc Slate®

Everlasting beauty.

elZinc Slate® is a pre-patinated matt grey zinc having a very similar appearance to naturally weathered zinc

Soccer stadium
Architect: Saucier+Perrotte / Hcma
System: Angle standing seam
Montréal / Canada

Pierre Mazeaud Sports Centre
Architect: OLGGA
System: elZinc® square tile
Saint-Cyr-l'Ecole / France

elZinc Graphite®

A touch of elegance

elZinc Graphite® is architectural zinc pre-weathered to a very dark, almost black, shade of grey.

Lady Bee Marina
Architect: ECE Architecture
System: Square tile elZinc
Shoreham / England

elZinc Crystal®

Changing reflections

Pearl grey pre-patinated zinc, elZinc Crystal® creates striking effects that personalize your façades.

elZinc Oliva®

A natural tendency

elZinc Oliva® is a dark grey pre-weathered zinc with subtle greenish and bluish hues.

Private residence
Architect: Rickett Architects Ltd
System: Angle standing seam
Leemington/ England

Private residence
System: Standing seam
Chaves / Portugal

elZinc Lava®

A metal with character

Basalt grey in colour, elZinc Lava® offers a wide range of combinations thanks to its natural and authentic character.

Technical finishes

elZinc Advance®

To provide long-lasting protection to your roofs and facades in particularly corrosive environments, elZinc® has developed elZinc Advance®.

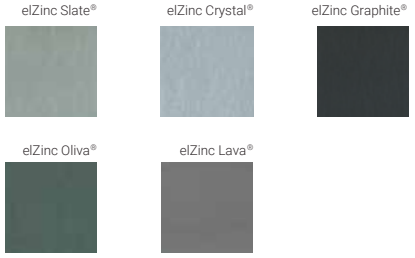
It is the ideal technical solution for projects requiring additional protection.

Zinc-titanium rolled according to EN988 and coated on the exposed side with a transparent organic layer, elZinc Advance® widens the technical possibilities of zinc.

Impermeable to external corrosive agents, it minimises the adhesion of salts and inorganic substances that can cause staining and in severe circumstances, corrosion, in coastal areas.

Principal applications:
- Locations with high atmospheric contamination
- Coastal areas
- Other aggresive climates (please feel free to consult with our technical department)

Available in:



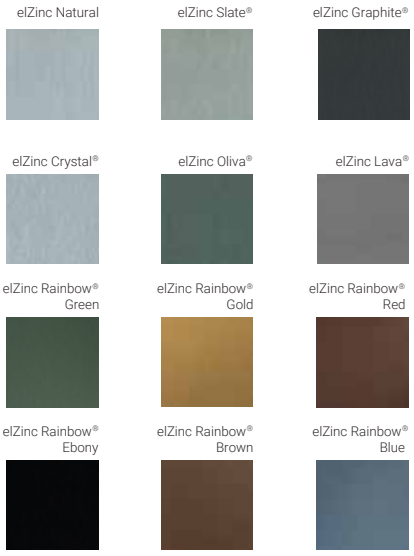
elZinc Protect+®

elZinc Protect+® is rolled titanium zinc in compliance with the European standard EN988.

Coated on the underside with an organic coating, elZinc Protect+® provides the underside of the zinc cladding with additional protection against corrosion and therefore allows zinc to be installed on otherwise incompatible substrates.

Main applications:
- On substrates incompatible with zinc.
- On roofs and facades requiring increased corrosion protection on the underside.

Available in:



Institut de Réadaptation d'Achères
Architect: Forma 6
Finish: elZinc Rainbow Gold
System: Angle Standing Seam
Achères / France

elZinc Rainbow®

Zinc doesn't have to be grey.

Colour is an essential component of architecture which forms an integral part of the building´s identity. Versatile and aesthetic, zinc doesn´t have to be grey.

elZinc Rainbow® is a range of colored architectural zinc which combines zinc´s elegance with the richness of colours. Available in 6 standard attractive finishes – red, blue, green, black, gold and brown – **elZinc Rainbow®** harmoniously integrates into its surroundings.

Produced according to EN988 and ASTM B-69 standards, **elZinc Rainbow®** is made by applying mineral pigments to our pretreated zinc. Its organic coating is a very attractive and durable finish that provides additional protection against corrosion.

**elZinc® has also developed a process* which allows it to offer custom colours.
Don´t hesitate to ask about personalized finishes**

The shimmering, iridescent effects of **elZinc Rainbow®** combine modernity and tradition, to be enjoyed by all. Its subtle, versatile shades are suitable for all types of architecture, opening up exciting opportunities for designers.

elZinc Rainbow® Green

elZinc Rainbow® Gold

elZinc Rainbow® Red

elZinc Rainbow® Ebony

elZinc Rainbow® Brown

elZinc Rainbow® Blue

UEA Student residence
Architect: LSI Architecture
System: Honeycomb panel
Norwich / England

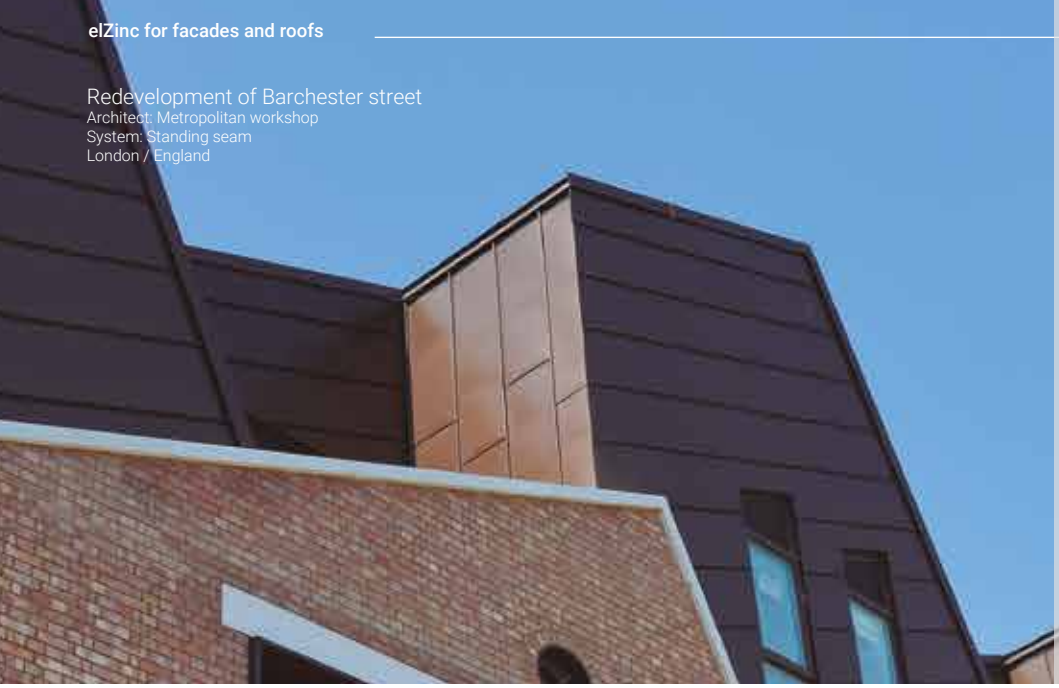
elZinc Rainbow®
Gold

elZinc Rainbow®
Green

Indvidual residence
Architect: BjK Architectural Techn
System: Facade panel
Cape Town / South Africa

Private residence
Architect: David Coles Architects
System: standing seam
England

elZinc Rainbow®
Red



Redevelopment of Barchester street
Architect: Metropolitan workshop
System: Standing seam
London / England

elZinc Rainbow®

Brown

elZinc Rainbow®

Blue

Chirens nursery school
Architect: ARCANE Architectes
System: Angle standing seam
Chirens / France

Residence Glydon Avenue
Architect: Squillace Architects
System: Angle Standing Seam
Victoria / Australia

elZinc Rainbow®

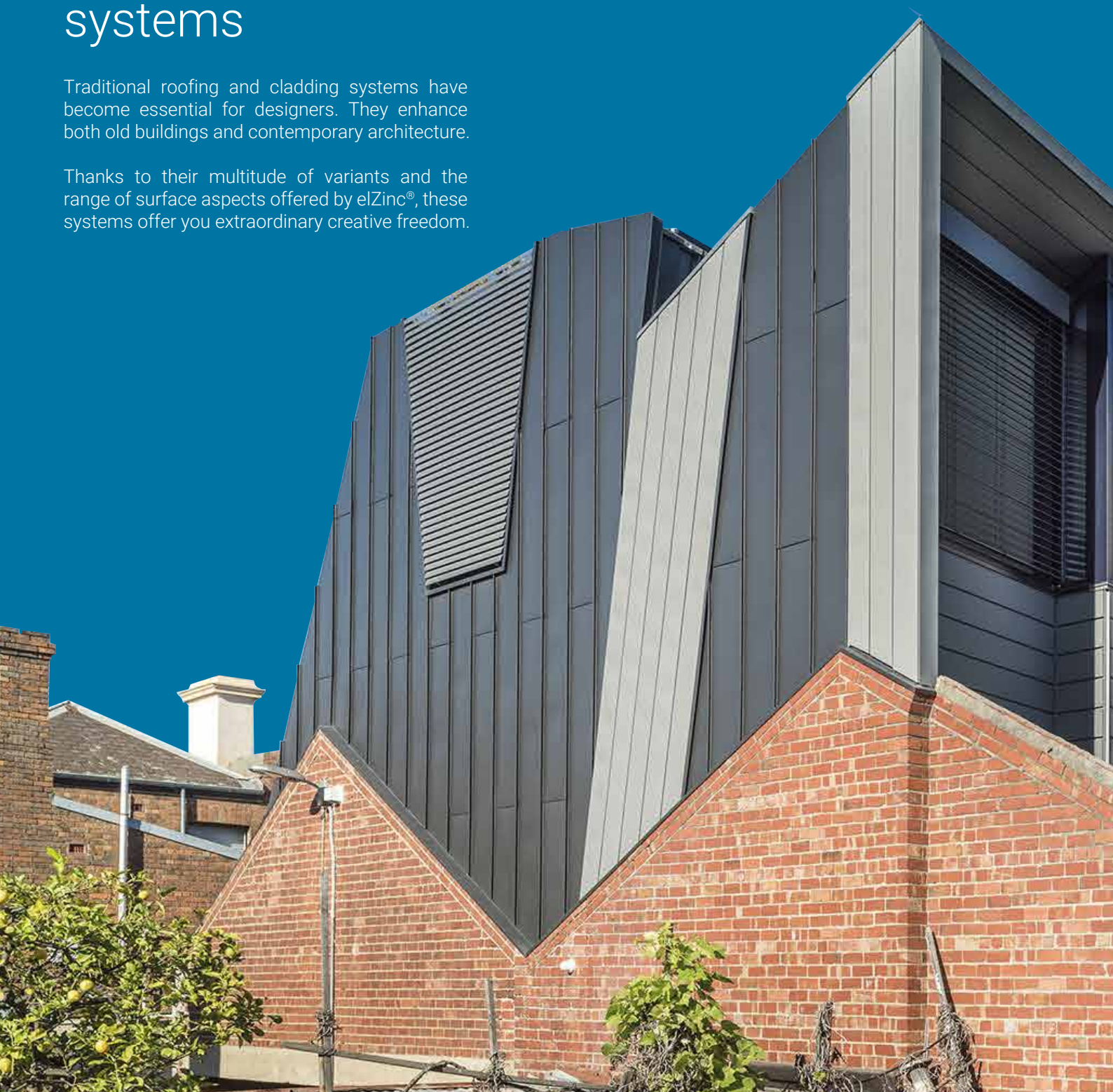
Ebony

The Systems

Traditional systems

Traditional roofing and cladding systems have become essential for designers. They enhance both old buildings and contemporary architecture.

Thanks to their multitude of variants and the range of surface aspects offered by elZinc®, these systems offer you extraordinary creative freedom.



Technical systems

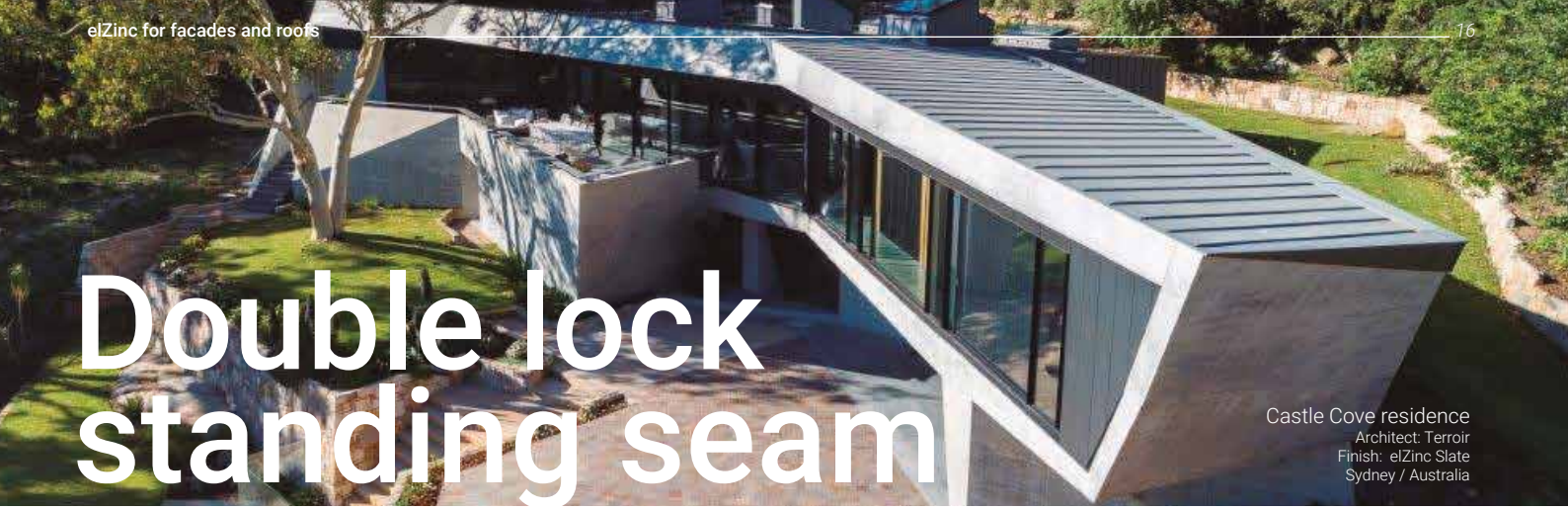
The technical systems are composed of self-supporting panels that are fixed on a wooden or metal frame.

These relatively new techniques offer you new design possibilities. They are an alternative to traditional techniques and bring a new aesthetic to your project.

Perforated systems

Perforated zinc facades provide numerous functional and decorative advantages for cladding.
Thanks to the properties of elZinc and the wide range of perforated formats, unique appearances can be designed into the facade that are perfectly adapted to the technical requirements of the building in terms of thermal performance and comfort.

Individual residence
Architect: Jesse Judd
Finishes: elZinc Slate and elZinc Rainbow ebony
Systems: Angle standing seam and Façade panel
Melbourne / Australi



Double lock standing seam

Castle Cove residence
Architect: Terroir
Finish: elZinc Slate
Sydney / Australia

Key points

- Proven, versatile system for roofing flat, curved and ‘free-form’ roofs.

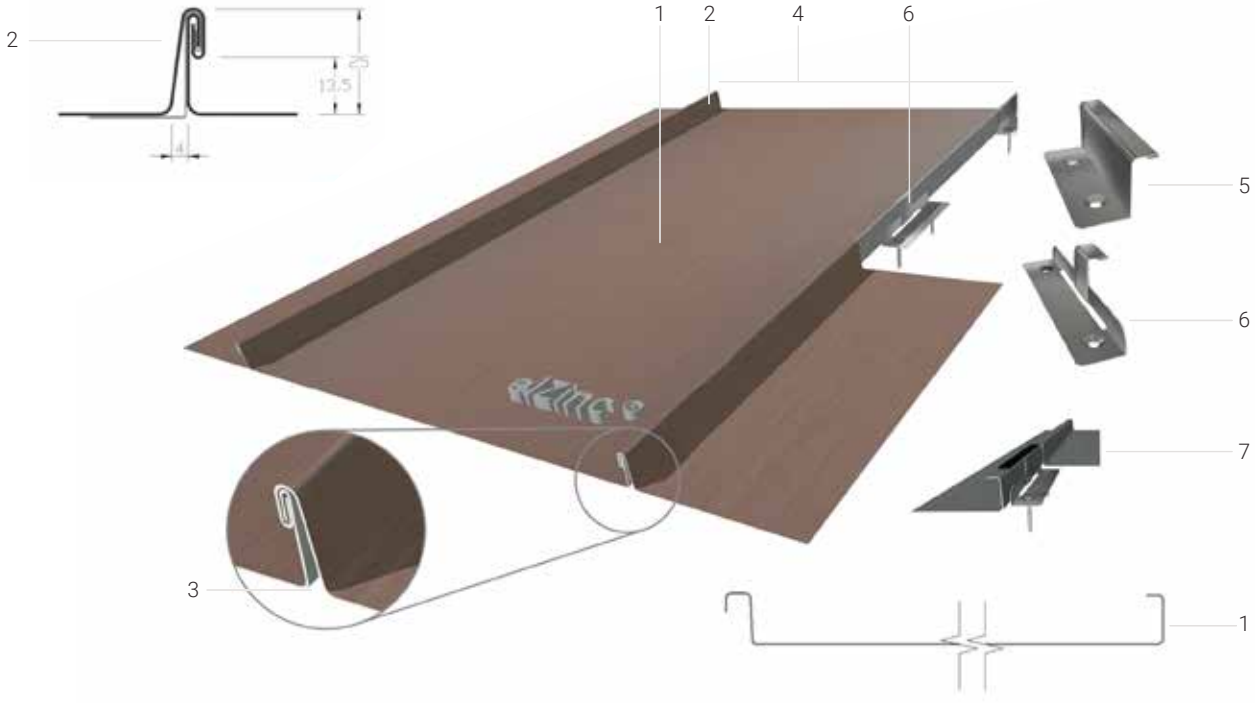
- Weather-tight down to 7º of pitch, 3º if seams are sealed.

- Items such as snow guards and life line attachments are readily available.

- Modern profiling and seaming machines facilitate short installation times.

- On-the-roof detailing uses folding techniques or soldered joints – no mastic!

- Discrete joints give a light, elegant appearance.



1. elZinc® Standing seam roofing tray, nominal max. length 10m
2. Standing seam joint (normally follow line of maximum pitch)
3. Expansion gap at seam base
4. Seam centres dimension. Normally from 430 to 600mm
5. Stainless steel ‘fixed’ clip – anchors the tray in position
6. Stainless steel ‘sliding’ clip - allows longitudinal expansion
7. Self-expanding sealing strip for roofs pitched under 7º

Batten roll

Key points

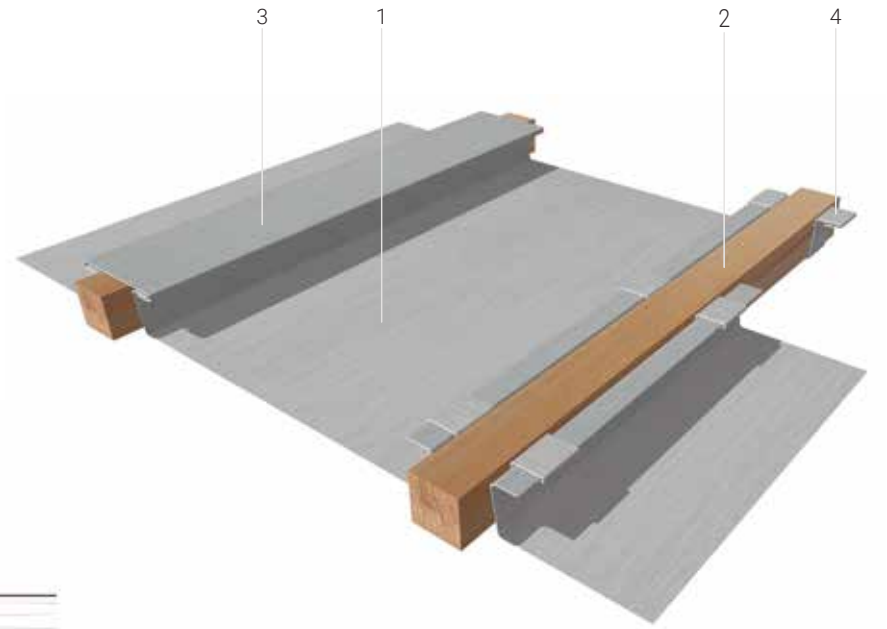
- A traditional, more structured appearance than the standing seam

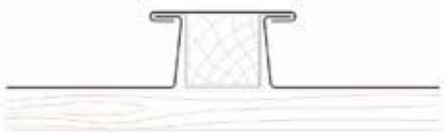
- Can by used in combination with standing seam to ‘modulate’ roofs and facades.

- Resistant to heavy foot traffic

- Weathertight down to 3º without sealing

- Alternative variations exist (Traditional French, Belgium).





1. Roofing tray
2. Softwood batten
3. Batten capping
4. Roofing tray clip

Tongliao Arts Center
Architect: Sr. Li xin gang
Finish: elZinc Slate
Neimenggu / China

Angle standing seam

Key points

- Traditional cladding system based on the double lock standing seam

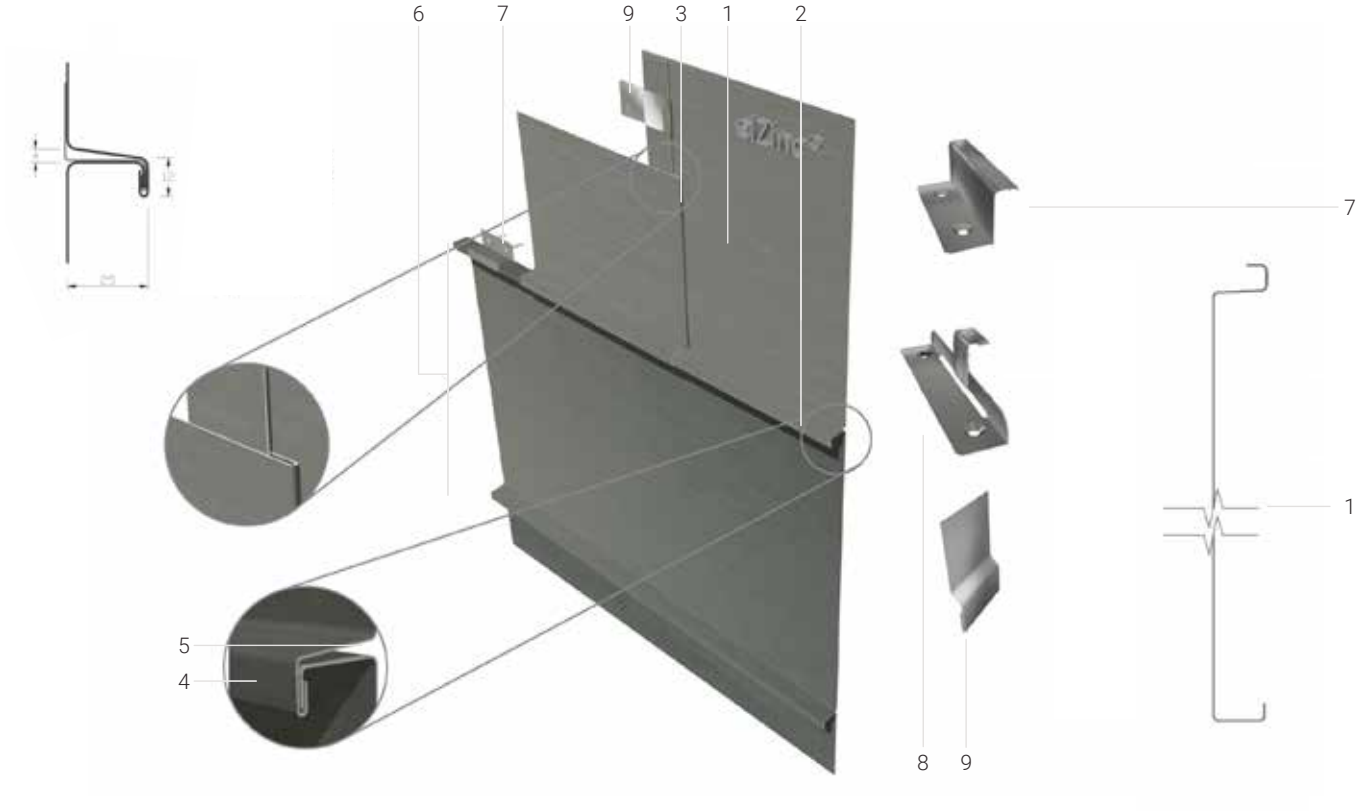
- Principally used in façade cladding, on flat or curved areas.

- Can use semi continuous substrate

- Attractive design layouts complement different architectural styles

- Suitable for ventilated façade designs

- Weather-tight from 25º of pitch and above if used in roofing. 35º in regions with heavy snowfall



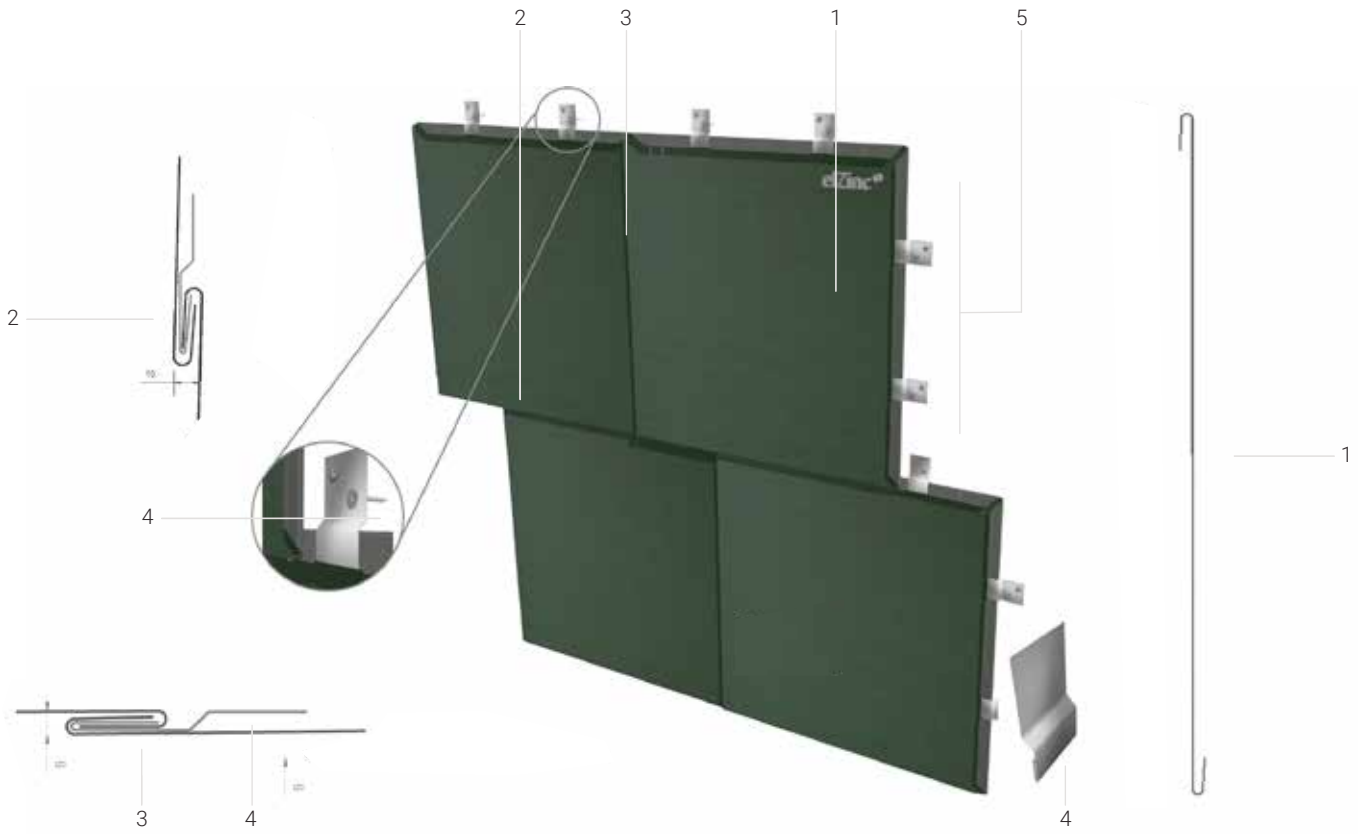
1. elZinc® angle standing seam roofing tray.
2. Angle Standing seam joint (horizontal, vertical or set at an angle).
3. Flat lock transversal joint.
4. Welt of angle seam.
5. Expansion gap at seam base.
6. Seam centres dimension, normally from 430 to 600mm.
7. Stainless steel 'fixed' clip – anchors the tray in position.
8. Stainless steel 'sliding' clip
9. Stainless steel flat lock clip

Adelaide Convention Center
Architect: Woods Bagot
Finish: elZinc Rainbow red
Adelaide / Australia

Flat lock shingles

Key points

- Traditional cladding system using interlocking panels
- Principally used in façade cladding, on flat or curved areas
- Weather-tight from 25º of pitch and above if used in roofing
- Attractive design layouts.
- Suitable for ventilated façade designs
- Can use semi continuous substrate



1. elZinc® flat lock shingle tray.
2. Flat lock dominant joint.
3. Flat lock transversal joint.
4. Stainless steel clip (can also be made of the same zinc as the cladding).
5. Seam centres dimension, normally 430 to 600mm.

elZinc tiles

Key points

Made of elZinc® zinc-titanium (EN988 standard), they lend themselves to many styles of architecture, harmonising perfectly with the surrounding materials.

Whether for new-build or refurbishment projects, the elZinc range of five distinct tile designs are a great solution for wall cladding and for weathering roofs pitched over either 25º or 45º, depending on the designs chosen.
In addition to their ecological and aesthetic: qualities, they are:

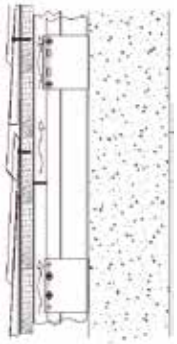
- Easy to install
- Suitable for most projects
- Highly corrosion resistant.
- Virtually maintenance free.

Square tile

elZinc®'s square tile with polystyrene backing is notable for its ease of installation. Its clean design gives the cladding an elegantly neat appearance.

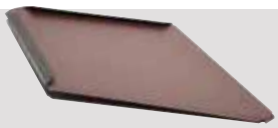
If an A1 reaction to fire classification is required, the tile can be supplied without the polystyrene backing. Contact elZinc for more information on the fire rating of the polystyrene backed tile.

- **Elements number/m2:** 9.
- **Approx. weight/m2 (in 0,7 mm):** 7,3 kg/m2
- **Dimensions:** 400 x 400mm (parallel edges) 512mm x 555mm (height x width).
- **Piece nº/box:** 24
- **Pitches :** ≥25º
- **Geometry:** flat

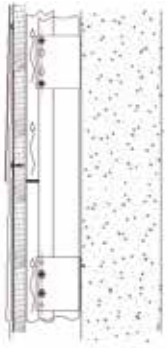


Rhomboid tile

The elZinc® rhomboid tile gives a stylised look to roofs and façades. The sleek interlocking tile highlights verticality, and is suited to both modern and traditional architecture.



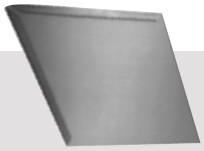
- **Elements number/m2:** 14.
- **Approx. weight/m2 (in 0,7 mm):** 7,8 kg/m2
- **Dimensions:** 560mm x 280mm.
- **Pieces number/box:** 35.
- **Pitches :** ≥25º
- **Geometry:** flat and slightly curved



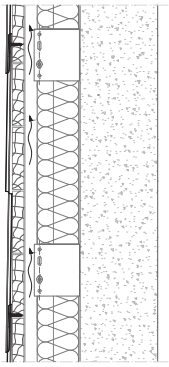
ARZAK Restaurant
Architect: Estudio LYMA Arquitectura
Finish: elZinc Custom
System: elZinc Rhomboid tiles
Gipuzkoa / Spain

Diamond tile

The diamond tile elZinc® offers the architect a modern and attractive option. A larger format tile suitable for a wide range of applications.



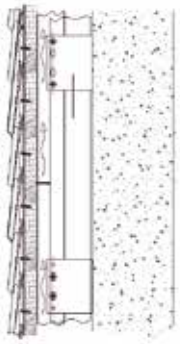
- **Elements number/m2:** 9,12
- **Approx. weight/m2 (in 0,7 mm):** 7,2 kg/m2
- **Dimensions:** 611mm x 415 mm
- **Pieces number/box:** 20
- **Pitches:** ≥25°
- **Geometry:** flat and slightly curved



Pointed fish scale tile

This elZinc® tile brings to mind images of baroque architecture. It provides, in its simplicity, a discreet, raditional feel to the building.

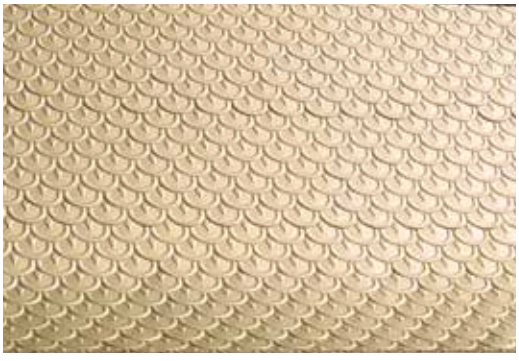
- **Elements number/m2:** 72
- **Approx. weight/m2 (in 0,7 mm):** 10,9 kg
- **Dimensions:** 240mm x 142mm
- **Pieces number/box:** 144
- **Pitches :** ≥45°
- **Geometry:** flat and slightly curved

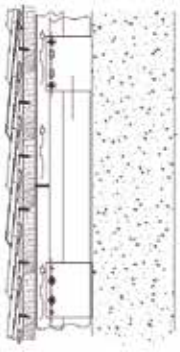


Rounded fish scale tile

A new twist on a classic model. elZinc's® rounded fish scale tile is inspired by a shape commonly used in classical European architecture.

- **Elements number/m2:** 41
- **Approx. weight/m2 (in 0,7 mm):** 7,4 kg/m2
- **Dimensions:** 280mm x 200mm
- **Pieces number/box:** 104
- **Pitches :** ≥45°
- **Geometry:** flat and slightly curved





Balmain Residence
Architect: SJB
Finish: elZinc Rainbow Ebony
Australia

Façade panel

Key points

- Single skin self-supporting panels with tongue and groove joint

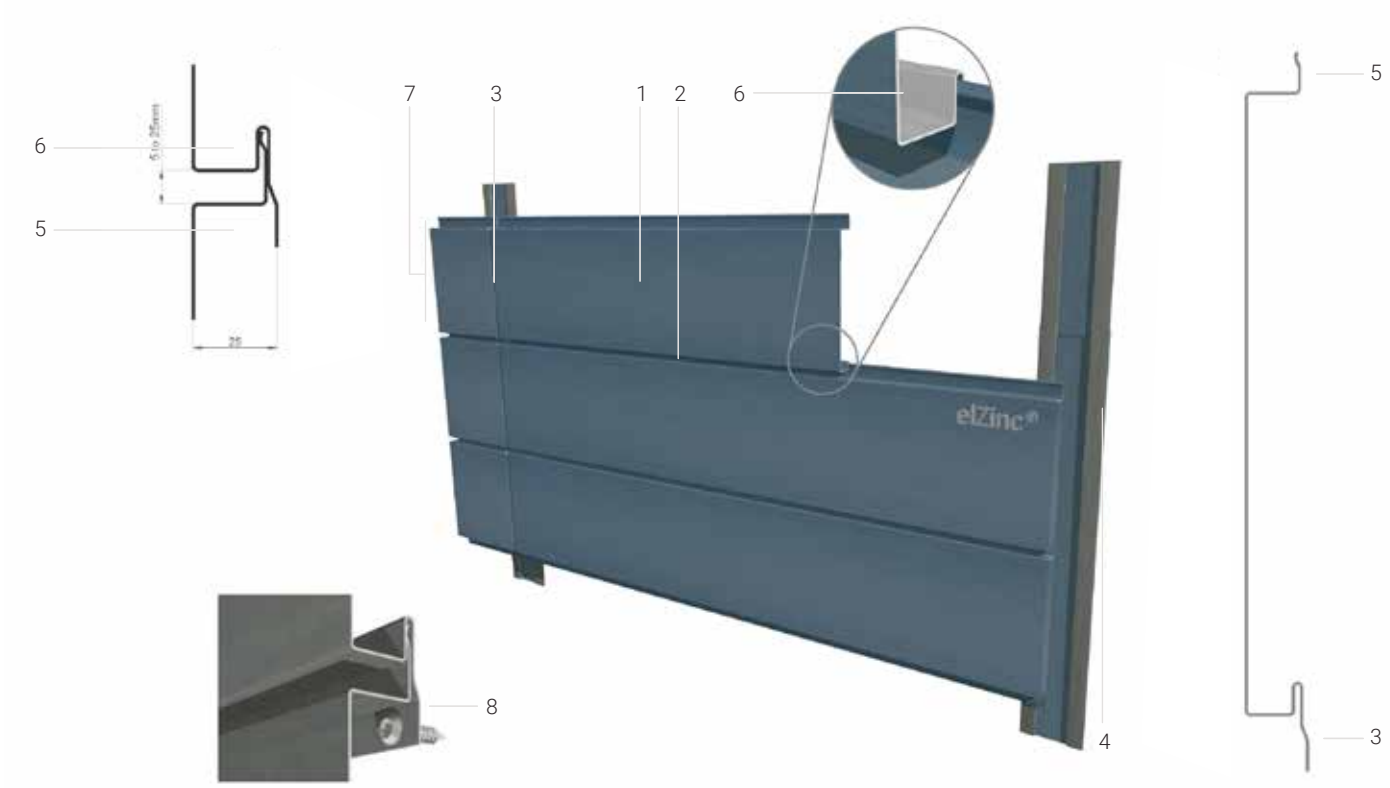
- Narrow aspect ratio – length up to a nominal 4m, width up to 300mm

- Suitable for flat or gently curved façades and soffits

- Panels are normally installed in either a horizontal or vertical direction

- Uses 1mm thick elZinc®

- Direct fixing using screws or rivets to metal rail substructure



1. elZinc® profiled Façade panel. Maximum length nominally 4m.

2. Tongue and groove joint, can be varied from 5 to 25mm wide.

3. Transversal shadow joint.

4. Vertical weathering strip.

5. Tongue profile. Adjusts in length to vary joint width.

6. Groove profile

7. Joint centres dimension.

8. Direct fixing using self-drilling screws or rivets to rail profile sub structure (not shown).

Panels elZinc®

elZinc composite panel

Key points

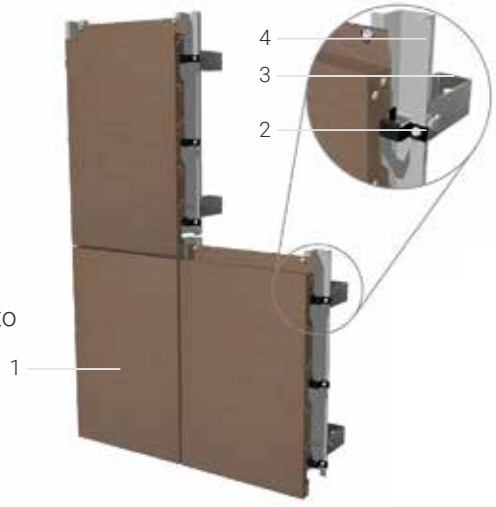
- Offer excellent flatness and rigidity.

- Panels of large dimensions are possible.

- Can be used on flat or curved facades

- Core is available in PE y FR (FR: Bs1d0, according to EN13501).

- Various fixing methods and supporting structure systems are available



1. Composite material elZinc®

2. Adjustable wall bracket

3. Panel support with anti-vibration sleeve

4. Top hat metal rail

elZinc Honeycomb Panel

Key points

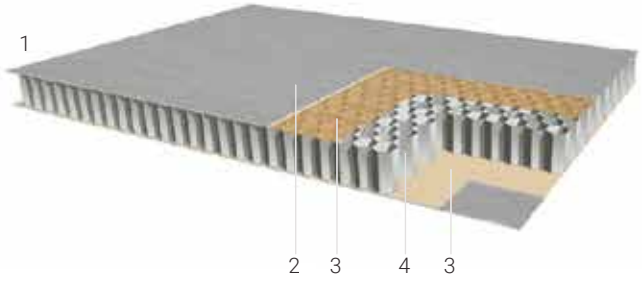
- Aluminium honeycomb panel skinned with elZinc

- Perfect flatness.

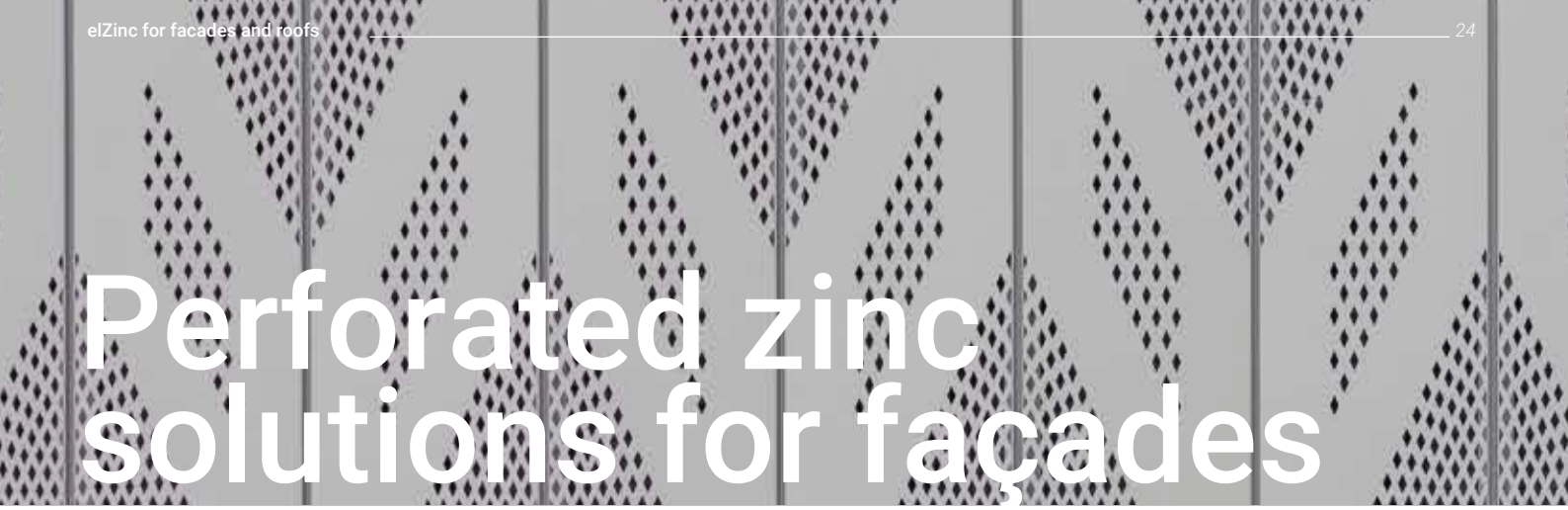
- Extremely ridged, big panel sizes possible

- Precise, quick and easy instalatión.

- Special point-anchor system that reduces substructure costs.



1. elZinc material
2. elZinc skin
3. Adhesive
4. Honeycomb core



Perforated zinc solutions for façades

Key points

- Controlled transparency.
- Singularity and Character.
- Versatility.
- Proven durability
- Thermal comfort.
- Doesn´t require post-painting treatment.

Standard perforations

With its ten standard patterns and three different layouts, the elZinc® standard perforated range of standard patterns provides aesthetic and functional cladding for your façades.

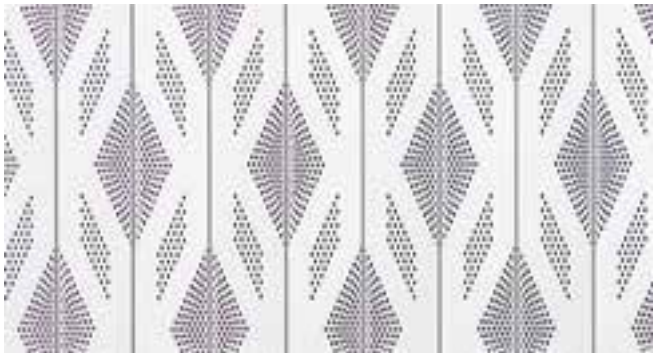
Format:
- RWTP
- RWMP
- RWUP

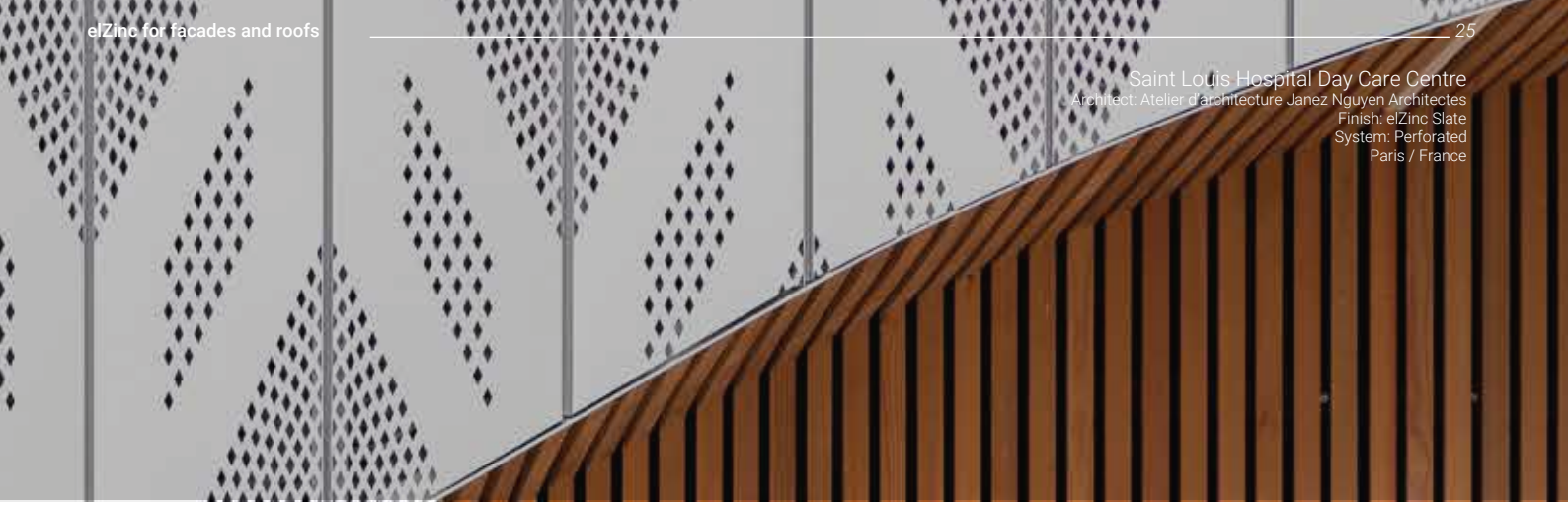
Delivery formats
- Coil:
Width (mm): 500 - 1000 - 1330
Length (mm): Depends on thickness
Thickness (mm): 0,7 - 0,8 - 1,00 - 1,50
- Sheet:
Width (mm): 500 - 1000 - 1330
Length (mm): 2000 & 3000
Thickness (mm): 0,7 - 0,8 - 1,00 - 1,50mm

Special perforations

In collaboration with Atelier d'architecture Janez Nguyen Architectes, authors of the St-Louis Hospital nursery (Paris), we have created three exclusive perforated designs.

Delivery formats
- St-Louis:
Width (mm): 250 panel face width
Length (mm): Up to 4000
Thickness (mm): 1,00
- St-Michel:
Width (mm): 250 panel face width
Length (mm): Up to 4000
Thickness (mm): 1,00
- St-Germain:
Width (mm): According to the tile
Length (mm): According to the tile
Thickness (mm): 1,00





Saint Louis Hospital Day Care Centre
Architect: Atelier d'architecture Janez Nguyen Architectes
Finish: elZinc Slate
System: Perforated
Paris / France

elZinc image

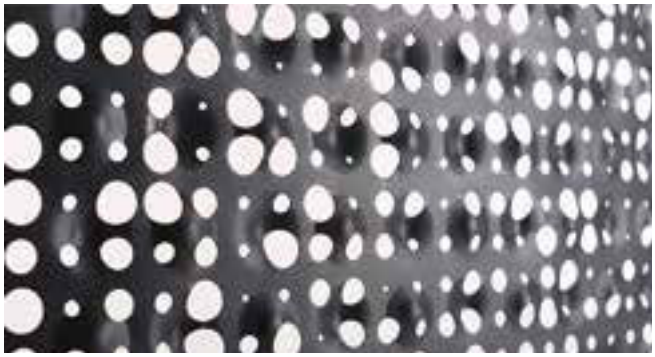
By interpreting the images and converting them into perforation patterns of different densities and sizes, the architect can "draw" on the entire façade and fully customise it.

Delivery formats
- Sheet
Width (mm): 1000 - 1250mm
Length (mm): Project defined, up to a maximum of 6000
Thickness (mm): According to project

elZinc 3D

By combining perforation technology with pressing processes, it is possible to create screens with a three-dimensional structure.

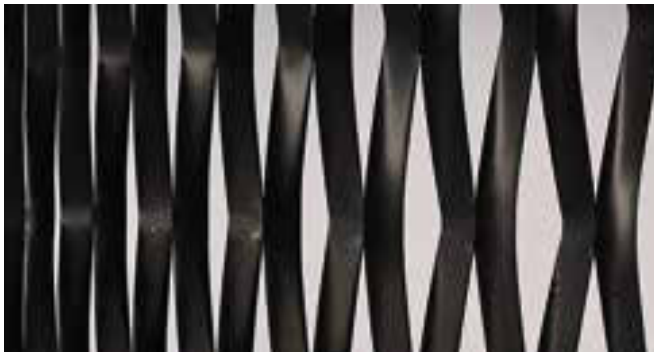
Delivery formats
- Rounded 3D Design
Width (mm): 1000
Length (mm): 1000 & 2000
Thickness (mm): 1 or 1,5 on request
- Square 3D Design
Width (mm): 1000
Length (mm): 1000 & 2000
Thickness (mm): 1 or 1,5 on request



elZinc expanded

Stylish and robust, these panels are ideal for areas requiring good aeration such as multi-storey car parks, plant rooms or industrial facilities.

Delivery formats
- Large format architectural panels
Width (mm): 1000 - 1250 - 1330
Length (mm): 2000 - 3000
Thickness (mm): 1,5
- Coil:
Width (mm): 1000 - 1250 - 1330
Length (mm): According to project requirements
Thickness (mm): 0,7
- Sheet
Width (mm): 500 - 1000 - 1250 - 1330
Length (mm): 2000 - 3000
Thickness (mm): 0,7

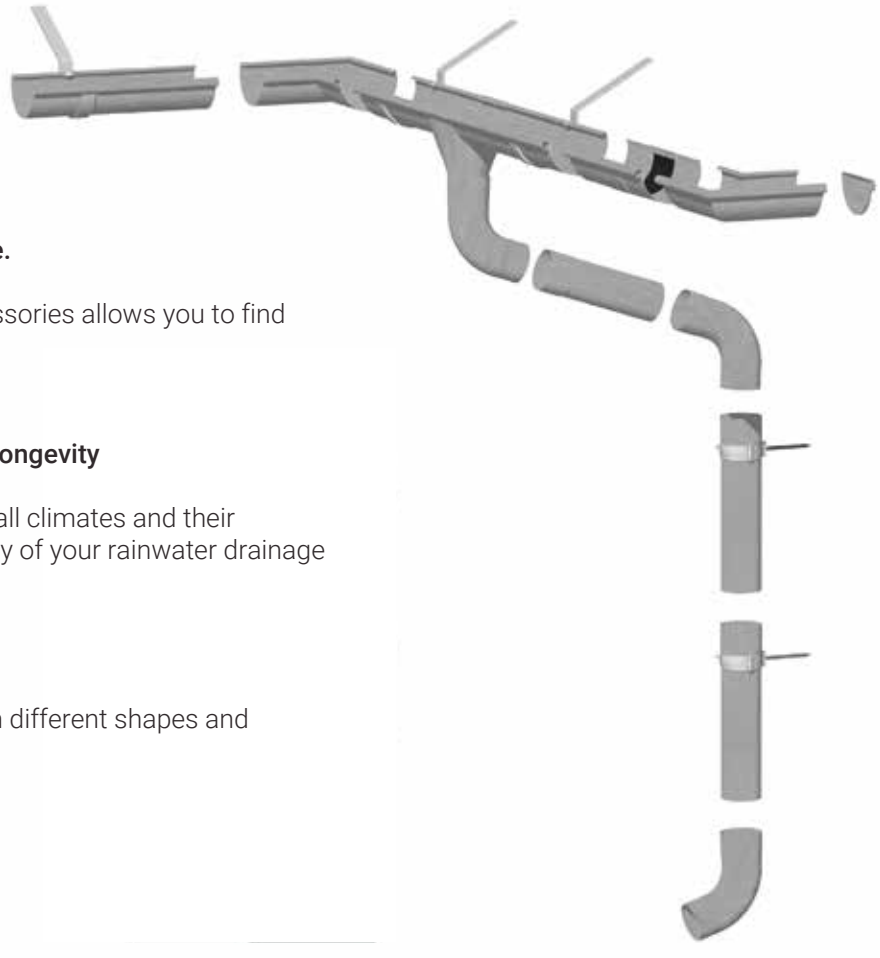


Rainwater systems

Discover our complete range of products for rainwater drainage (gutters, downspouts and accessories) and our line of zinc flashings (valley gutters, eaves profiles etc.) for roof drainage and finishing.

The gutters and accessories in this range, in addition to the complementary profiles and roof flashings, are produced using elZinc zinc titanium which is manufactured in accordance with the requirements of standard EN988.

These elements are suitable for all weather conditions and their high level of resistance to corrosion helps to ensure the longevity and integrity of the buildings that they are fitted on.



A range that integrates into the architecture.

The variety of our range of gutters and accessories allows you to find the most appropriate aesthetic solution.

Our commitment to quality, a guarantee of longevity

Our products are highly durable, suitable for all climates and their corrosion resistance guarantees the durability of your rainwater drainage system.

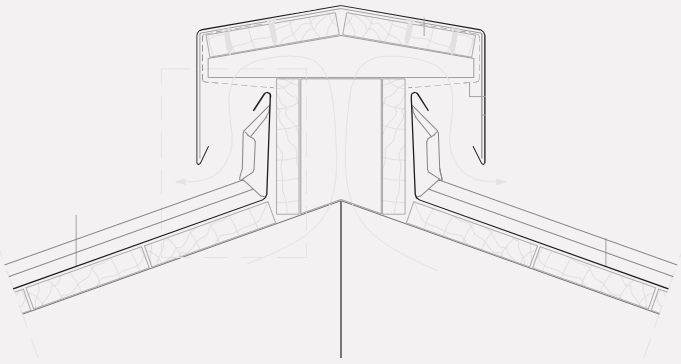
A range that meets all regional styles.

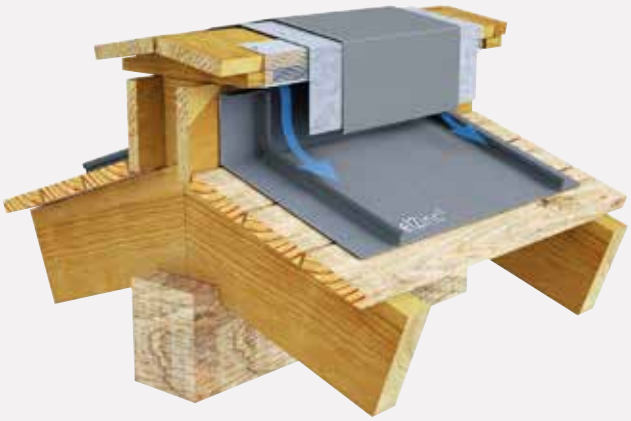
Round, square or regional, we offer gutters in different shapes and sections.

The rainwater drainage range is available in elZinc® Natural, elZinc Slate®, elZinc Graphite® and elZinc Crystal®.

Personalised technical assistance

Each project is unique, be it due to their architectural complexity or other specific requirements. That is why elZinc offers a customised assistance throughout the whole design process of each project.





For your Project we offer:

Various tools that will help you in your work:

- A BIM object library compatible with Autodesk Revit y ArchiCad
- AutoCAD construction details
- Many 3d models
- Our descriptive memoirs
- Etc...

Personalized assistance:

- Advice on the choice of appropriate products and systems.
- Support throughout the study
- Help to find an installer in your area
- Etc...

To help you design your elZinc® façade or roof project, we have developed a series of BIM objects of the most representative installation systems. Available in BIMobject, our objects contain detailed technical information and high definition textures of all our surface aspects.

For more information contact our Project Assistance Service and / or visit our web page:
www.elzinc.es

elZinc®

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April 2023

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