elZinc® for facades and roofs

elZinc

Designing with elZinc®

www.elzinc.es

About elZinc®

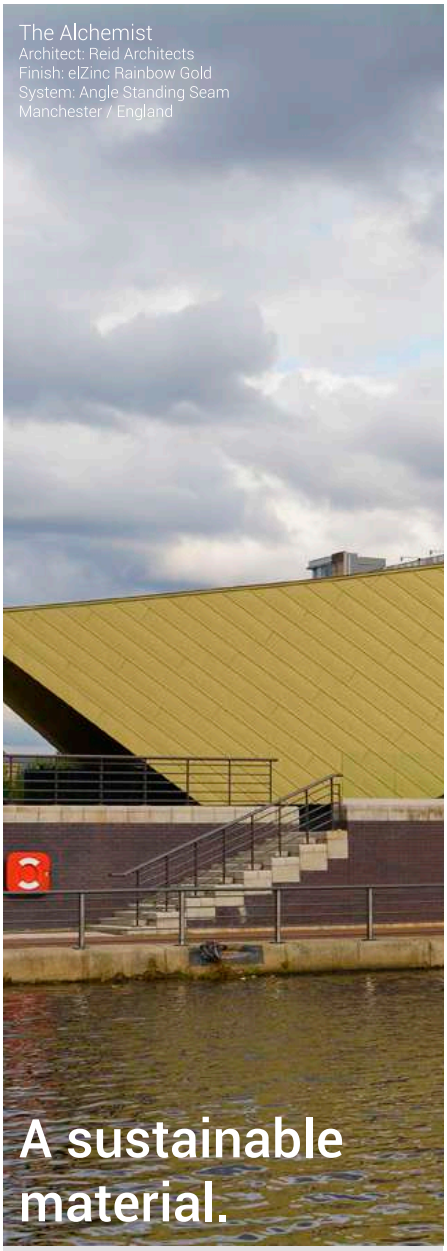
Established in 2006, Asturiana de Laminados, SA by virtue of its elZinc brand, has become one of the world´s main producers of rolled zinc for architectural metal cladding.

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 40 countries.

More than 120 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



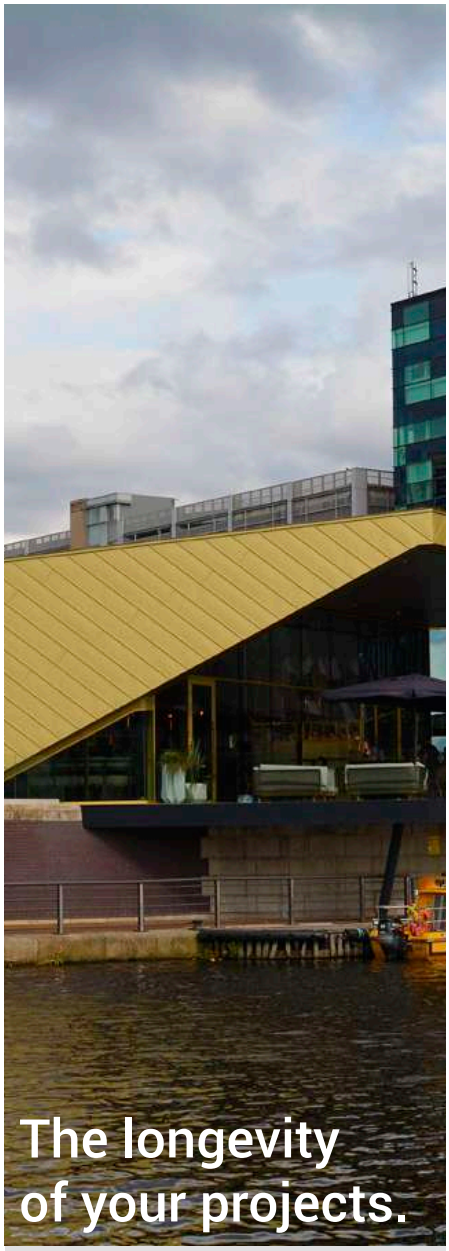
The Alchemist
Architect: Reid Architects
Finish: elZinc Rainbow Gold
System: Angle Standing Seam
Manchester / England

A sustainable material.

Zinc, a natural element found in abundance, is essential to all life. Used in the building, it contributes to respect for the environment.

Zinc is one of the few building materials that can be recycled indefinitely and 100% without losing any of its properties.

If you need information about the advantages of elZinc products in eco-construction, please contact our technical department.



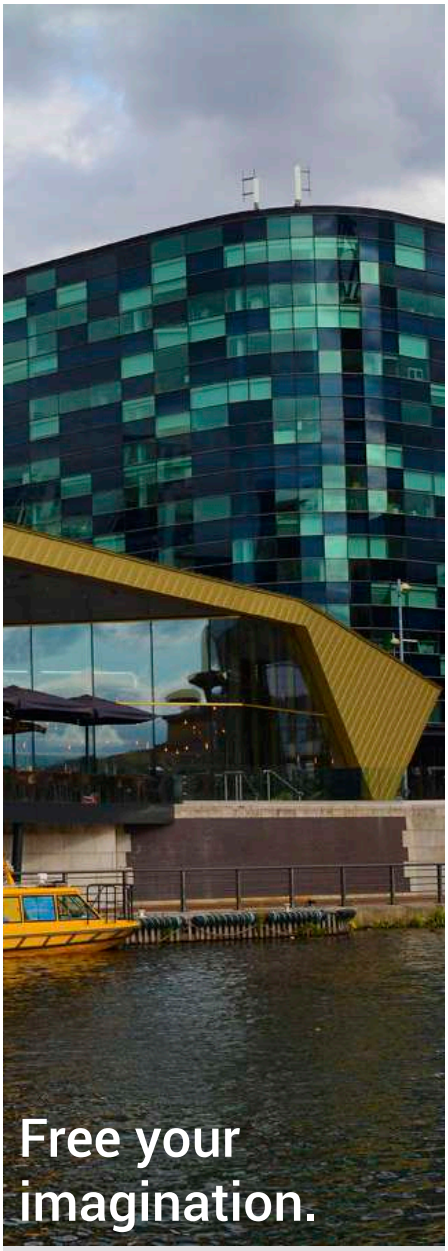
The longevity of your projects.

One of the main characteristics of titanium zinc is its high resistance to corrosion. A living material, it will develop a patina that will protect it for a long time.

These remarkable properties make it an impermeable coating that is resistant to atmospheric aggression.

Zinc does not require any special maintenance.

The combination of all these advantages makes elZinc® titanium zinc a sustainable investment.



Free your imagination.

Laminated zinc, a building material that appeared in the 19th century, has many aesthetic and functional advantages that adapt to all architectural styles.

Thanks to its exceptional malleability, elZinc® titanium zinc adapts to the most 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 simply to be used as a decorative element.

Our Finishes

Laminated 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: Use 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 laminated 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.

Maria Filotti Theatre
Finish: elZinc Slate
System: Flat lock
Brâila / Romania

elZinc Alkimi®

Camp Southern Ground
Architect: Perkins + Will
Finish: elZinc Slate
System: Flat lock
Georgia / USA

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.

elZinc® Natural

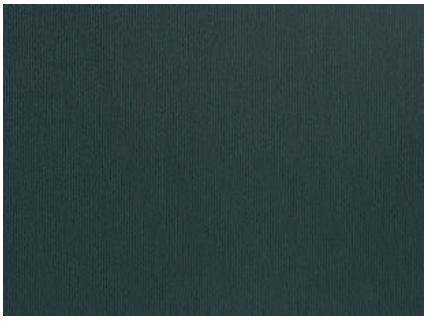
elZinc Slate®

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

Eugene Varlin School
Architect: Gaëtan Le Penhuel & associés
System: Standing seam
Pierrefitte-sur-Seine / 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®

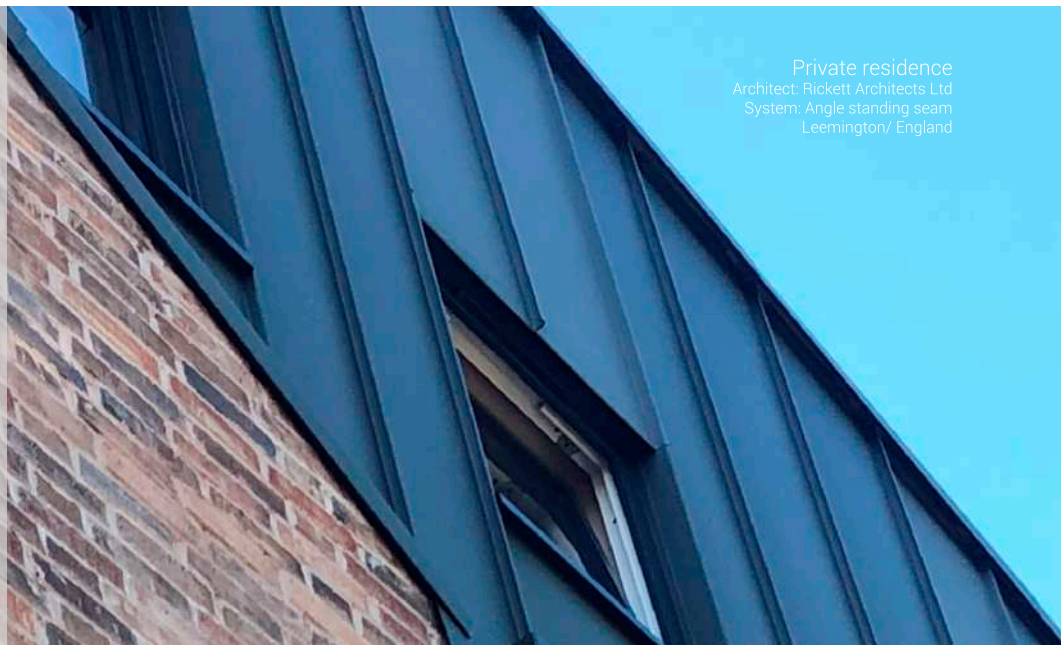
Changing reflections

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.

elZinc Rainbow®

The Alchemist
Architect: Reid Architects
Finish: elZinc Rainbow Gold
System: Angle Standing Seam
Manchester / England

Zinc doesn't have to be grey

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

elZinc Rainbow® is a range of colored architectural zinc which combines zinc 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 exiting opportunities for designers.

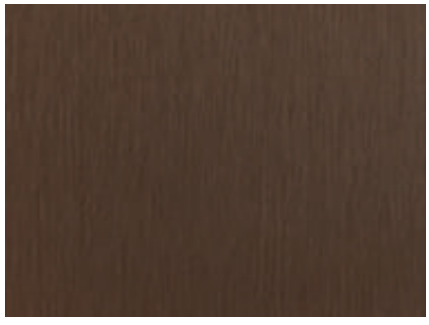
elZinc Rainbow® Green

elZinc Rainbow® Gold

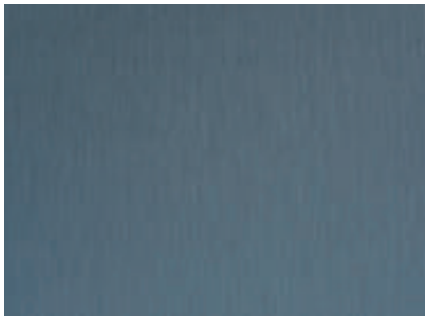
elZinc Rainbow® Red

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 Tech
System: Facade panel
Cape Town / South Africa

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

elZinc Rainbow®
Red

Chung Tai Chan Monastery
System: Custom tiles
Taiwan

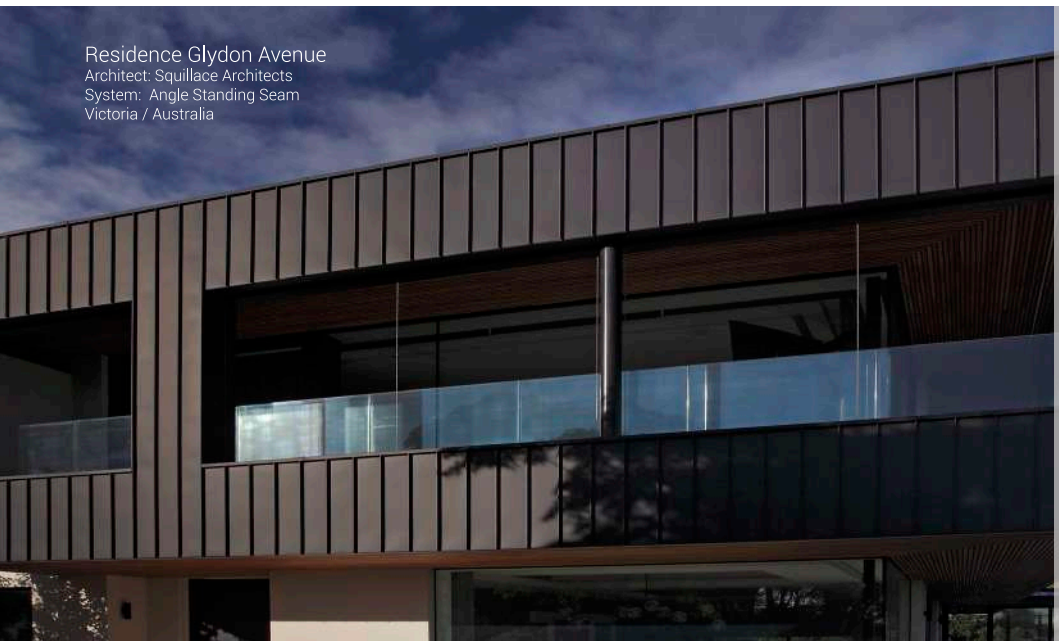
elZinc Rainbow®

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.

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

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.

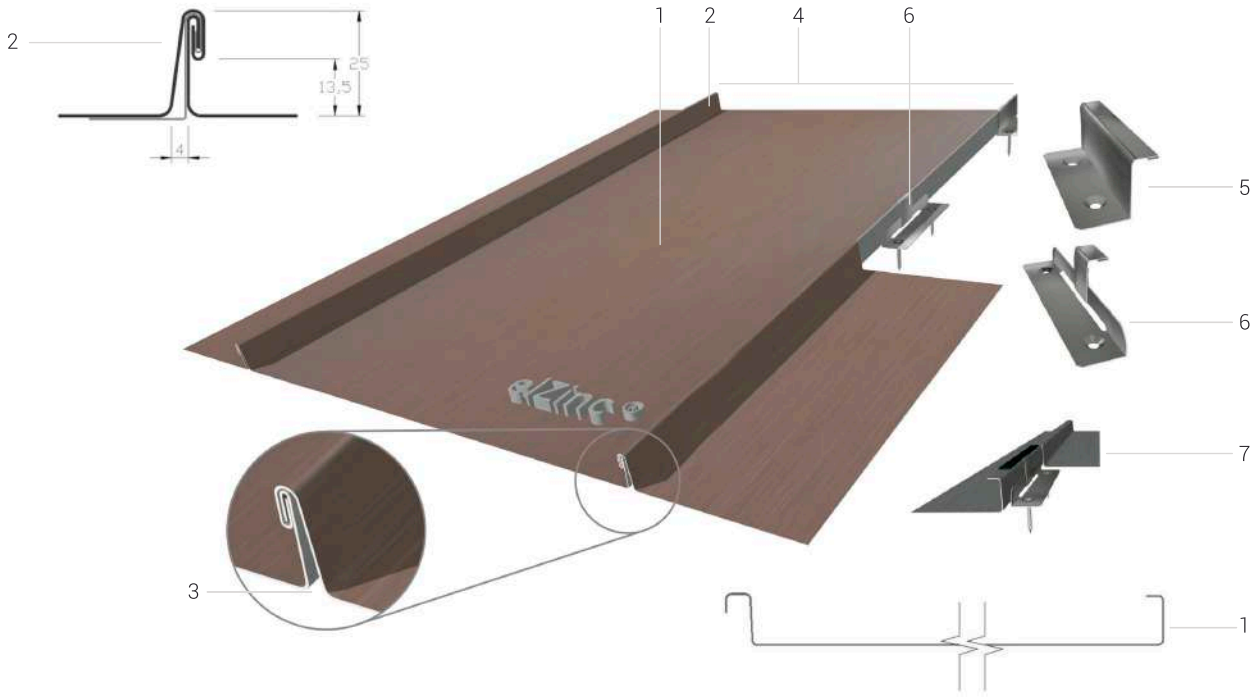
- Weather-tight down to 7º of pitch, 3º if seams are sealed.

- 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.

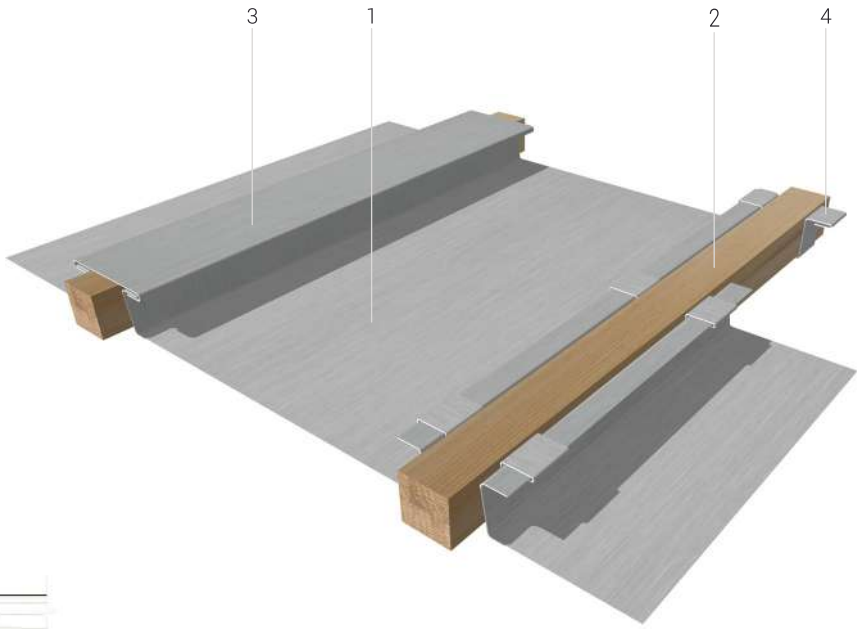


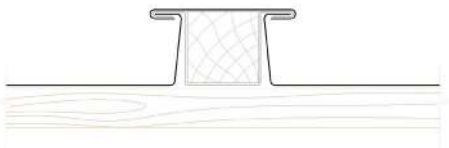
1. elZinc® Standing seam roofing tray, nominal max. length 10m
2. Standing seam joint (normally follow line of maximum pitch)
3. Expansion gap at seam base
4. Seam centres dimension. Normally from 430 to 600mm
5. Stainless steel 'fixed' clip – anchors the tray in position
6. Stainless steel 'sliding' 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

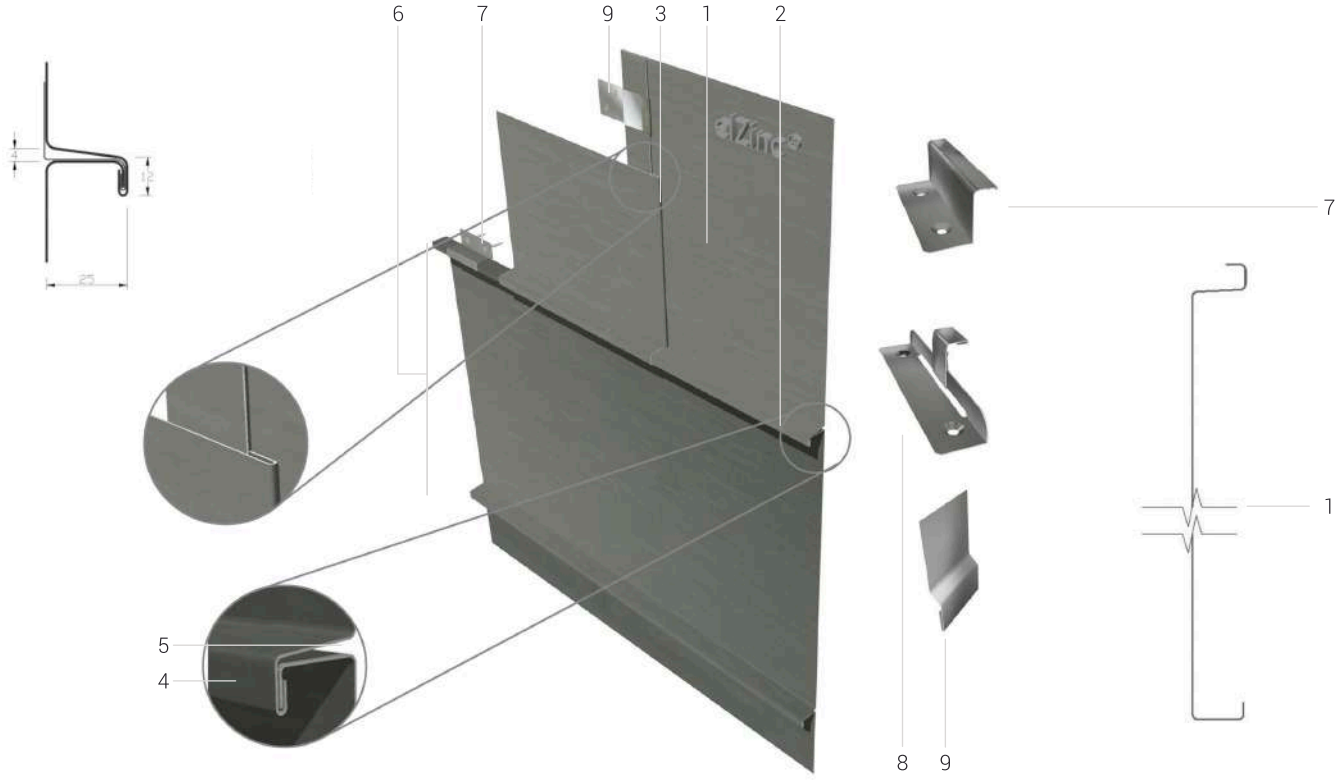
- Principally used in façade cladding, on flat or curved areas.

- 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



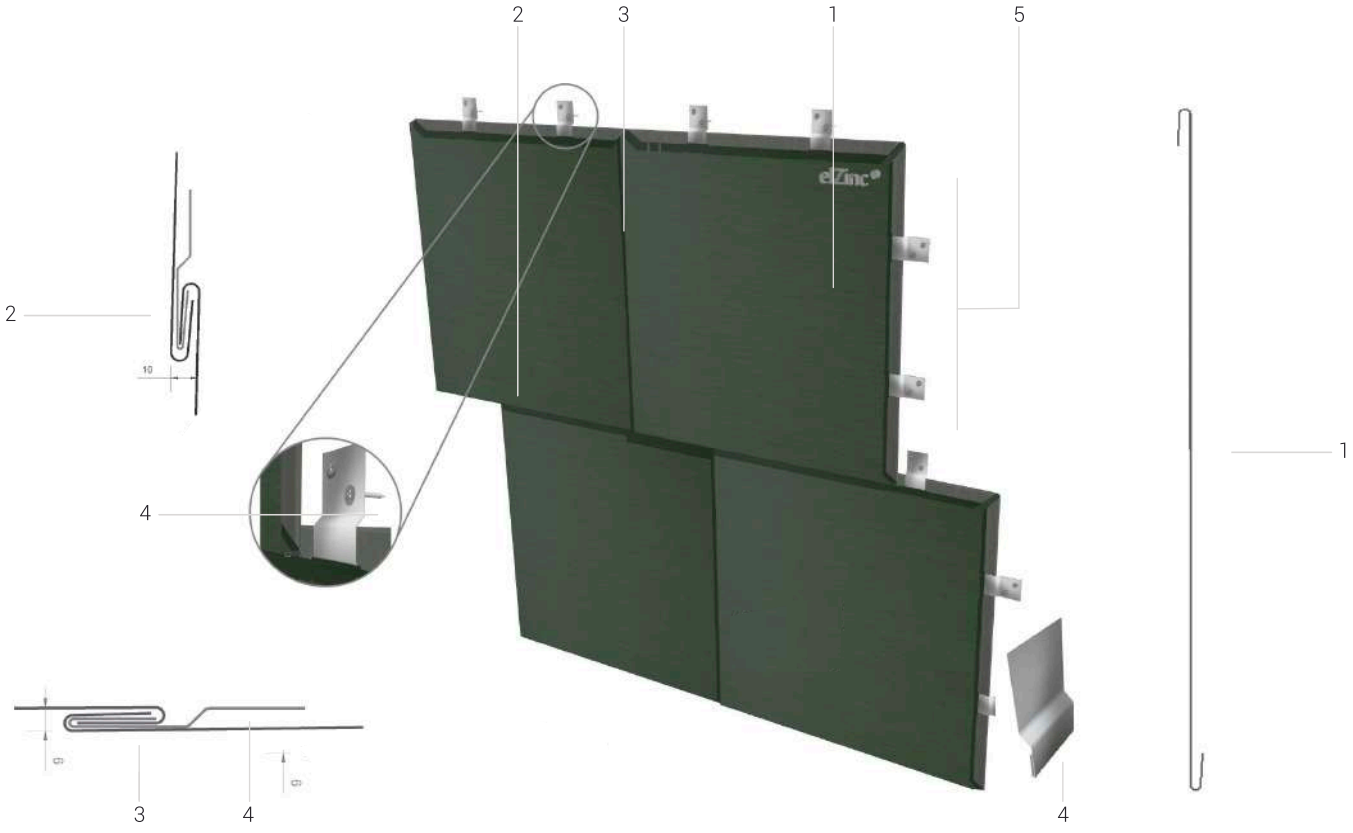
1. elZinc® angle standing seam roofing tray.
2. Angle Standing seam joint (horizontal, vertical or set at an angle).
3. Flat lock transversal joint.
4. Welt of angle seam.
5. Expansion gap at seam base.
6. Seam centres dimension, normally from 430 to 600mm.
7. Stainless steel 'fixed' clip – anchors the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

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

elZinc tiles

Key points

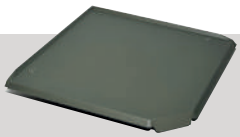
Made of elZinc® zinc-titanium (EN988 standard), they lend themselves to many styles of architecture, harmonising perfectly with the surrounding materials.

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:

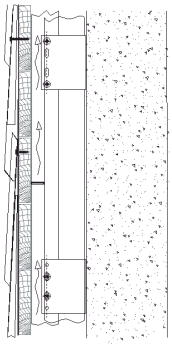
- Easy to install
- Suitable for most projects
- Highly corrosion resistant.
- Virtually maintenance free.

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.

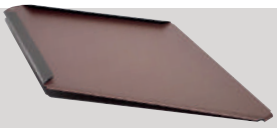


- **Elements number/m2:** 9.
- **Approx. weight/m2 (in 0,7 mm):** 7,3 kg/m2
- **Dimensions:** 400 x 400mm (parallel edges) 512mm x 555mm (height x width).
- **Piece nº/box:** 24
- **Pitches :** ≥25º
- **Geometry:** flat

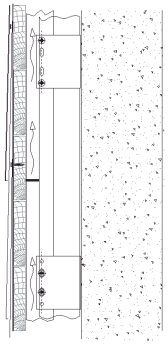


Rhomboid tile

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

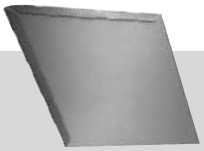


VITA Student acomodation
Architect: Fuse Studio
Finish: elZinc Slate
System: elZinc Rhomboid tiles
Newcastle / England

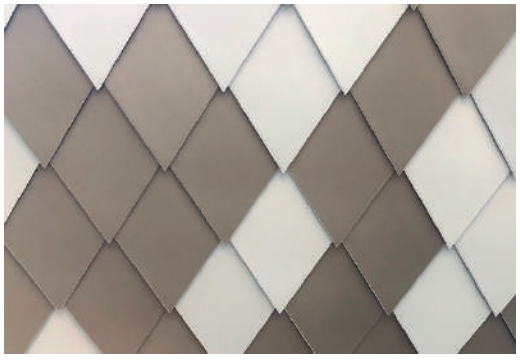
elZinc tiles

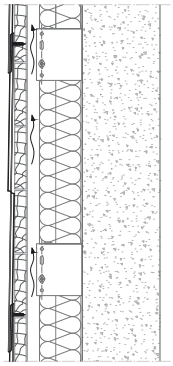
Diamond tile

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:** ≥25º
- **Geometry:** flat and slightly curved

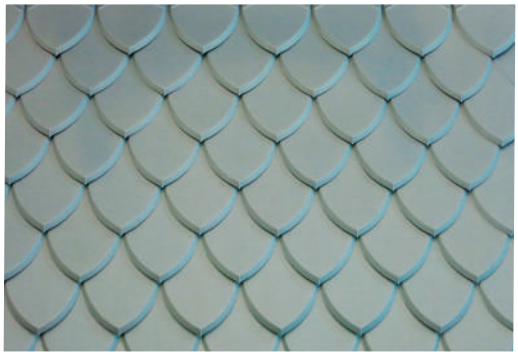


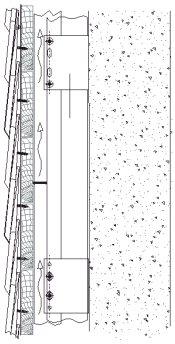


Pointed fish scale tile

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 :** ≥45º
- **Geometry:** flat and slightly curved

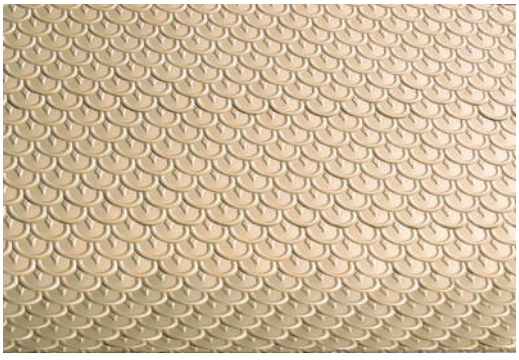


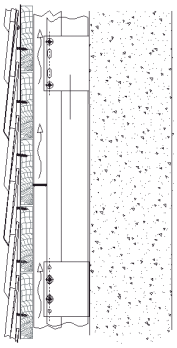


Rounded fish scale tile

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 :** ≥45º
- **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

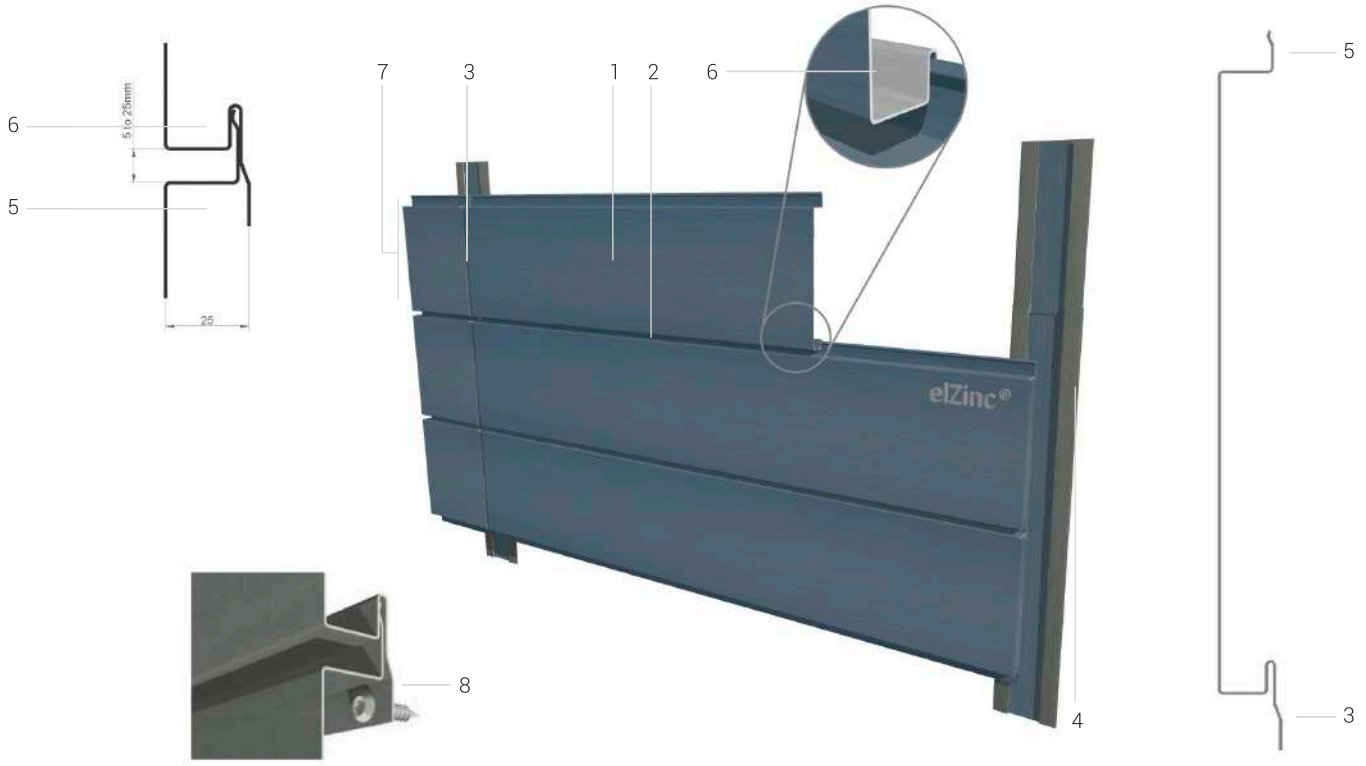
- Narrow aspect ratio – length up to a nominal 4m, width up to 300mm

- 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).

elZinc® composite material

Key points

- elZinc® faced composite material

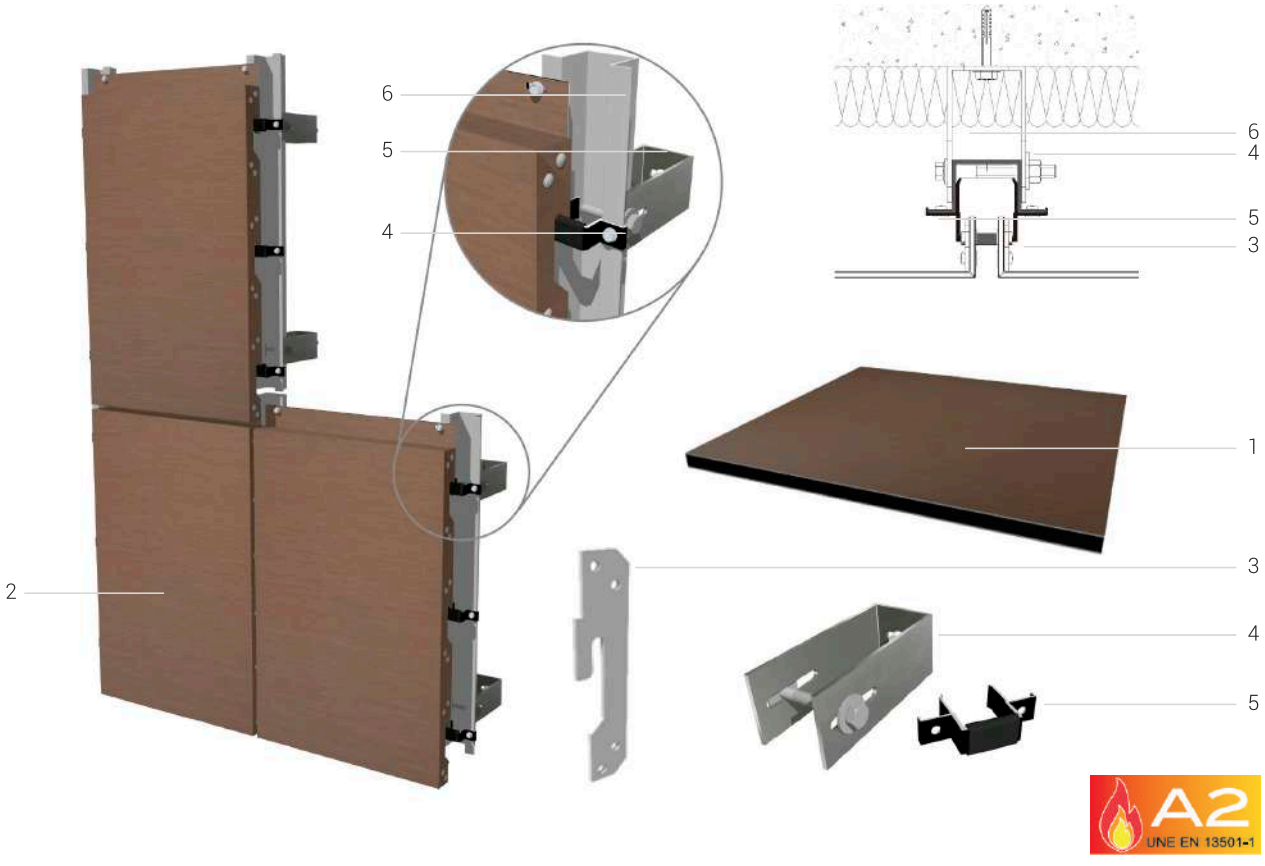
- Various fixing options and sub structure types available

- Large panel sizes possible (1000mm x 8000mm max.) depending on installation system

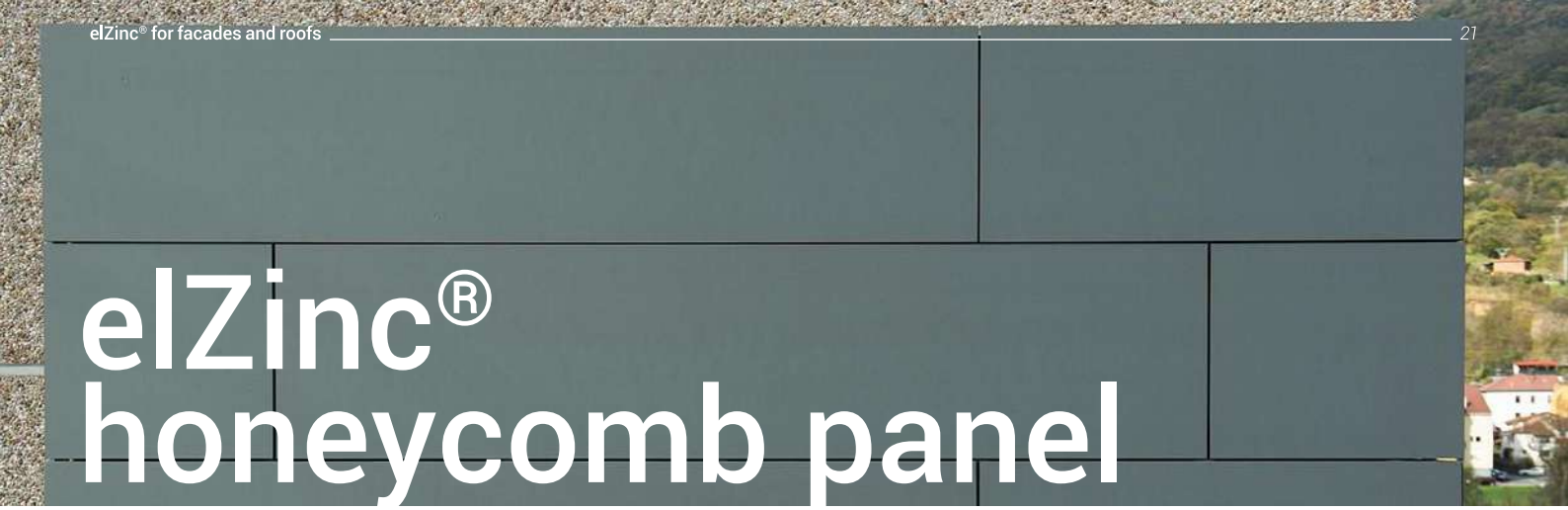
- PE (B-s 1, d0 according to EN13501) and FR (A2-s1, d0) cores available.

- Can be curved

- Excellent flatness and rigidity



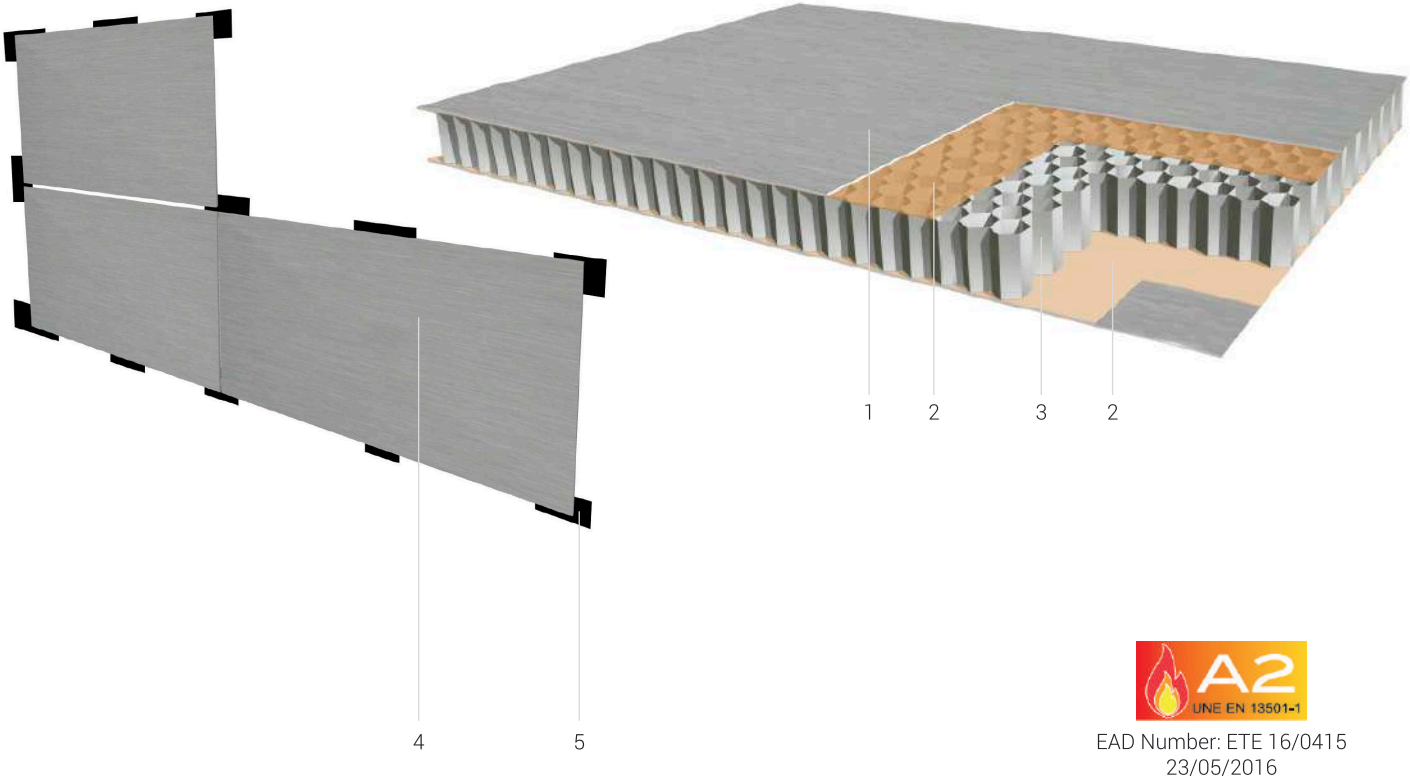
1. elZinc® composite material
2. elZinc® composite panel
3. Flange reinforcement
4. Adjustable wall bracket
5. Panel support with anti-vibration sleeve
6. Top hat profile



elZinc® honeycomb panel

Key points

- elZinc® faced aluminium honeycomb panel
- Perfect flatness
- Extremely rigid, very large panel sizes possible
- A2 fire rating (A2-s1, d0)
- Bespoke, point fixing system reduces sub structure costs
- Quick and easy precision installation
- 100% recyclable
- Wrap around edges for added safety



A2 UNE EN 13501-1

EAD Number: ETE 16/0415
23/05/2016

1. 0.5mm elZinc® panel skin
2. Adhesive
3. 14mm aluminium honeycomb core
4. elZinc® honeycomb panel
5. Point fixing system

Rainwater systems

Discover our complete range of products for rainwater drainage (gutters, downspouts and accessories) and our shaped elements for roof waterproofing and finishing.

A range that integrates into the architecture.

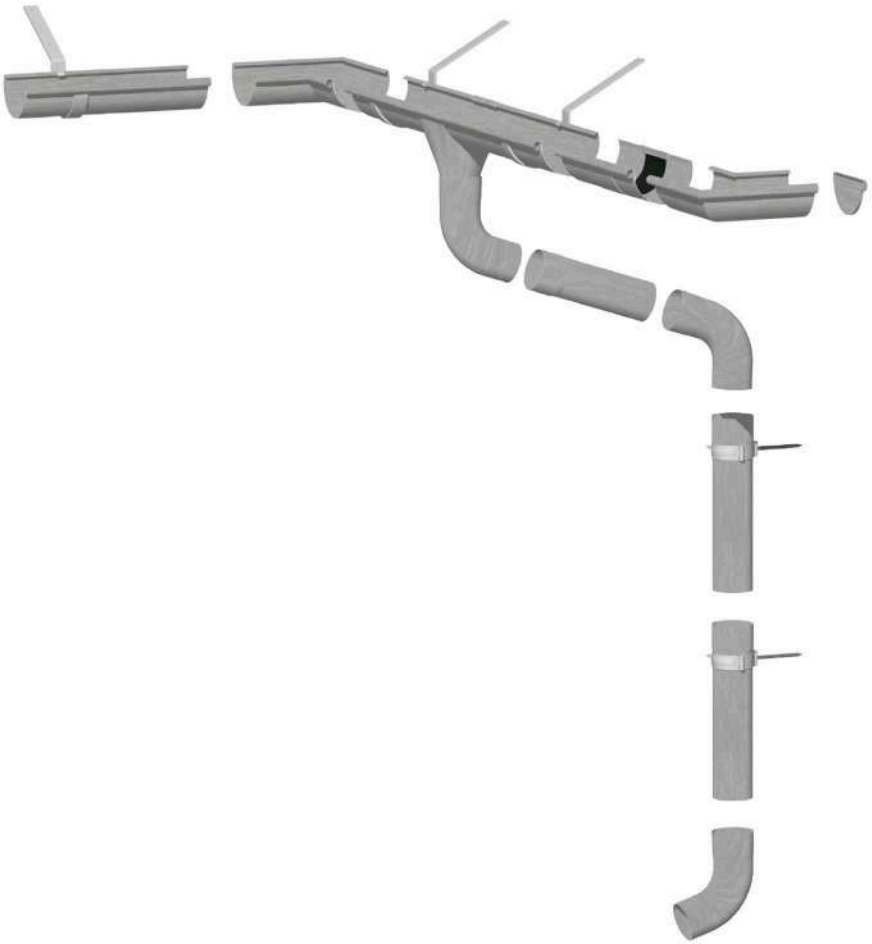
The variety of our range of gutters and accessories allows you to find the most appropriate aesthetic solution.

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 structures.

A range that meets all regional styles.

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

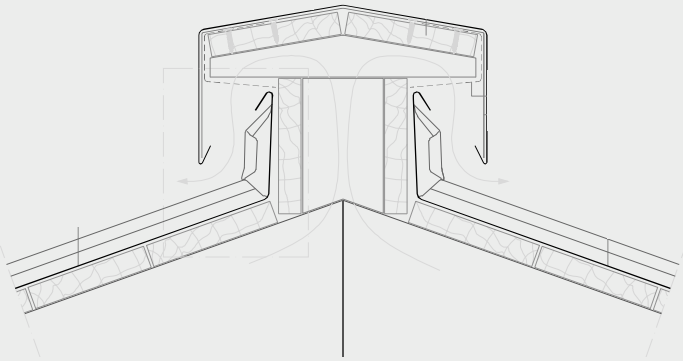


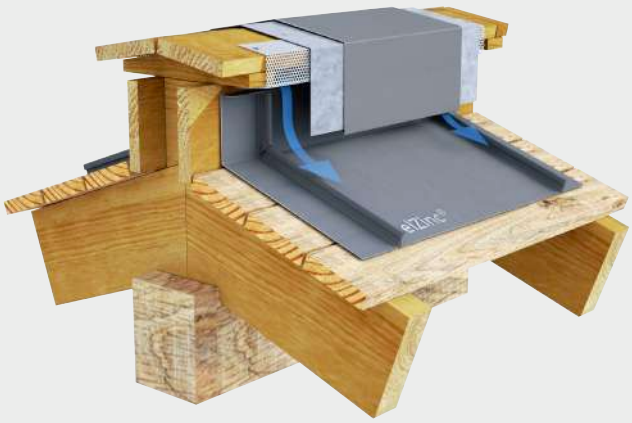
The rainwater drainage range is available in elZinc® natural, elZinc Slate®, elZinc Graphite® and elZinc Crystal®.

Our priority your satisfaction

Each project is unique, either because of its architectural complexity or its specific requirements. For this reason, elZinc® offers you personalized assistance throughout your project.

In order to assist you in the design and installation of your elZinc roof and façade projects, we have developed an exclusive section (on our website) that offers you a wide selection of architectural details and 3D models of the most common systems.





Within the framework of your projects, we offer you:

Various tools that will make your job easier:

- A library of BIM objects compatible with Autodesk Revit and ArchiCad
- Constructive details in Autocad
- 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...

For more information, contact our Technical Service Department and/or visit our web page www.elzinc.es

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