



Kalzip® Foldable Aluminum
Surface Treatments for Roof and Façades



From Traditional to the Future

Building and Material – Impressive

Zinc for roof coverings and façades, coupled with skilled metal working techniques, have a long tradition in European building culture, spanning more than 200 years. Many historical buildings are a testament to the design variety and lasting value of the material.

Ideal for commercial, industrial, office and residential buildings, the material is setting trends in today's architecture.

For many years, Falzinc and Titan Silver have been used for expressive roof and façade designs. This foldable range of aluminium products offered by Kalzip provide a traditional and elegant finish.

This surface finish accentuates the visual appearance and brings together the contrasts and characteristics of the materials and colour variation.

Economy and Ecology

By utilising less material it is environmentally friendly and sustainable. The material is 100% recyclable and provides extended durability across the life span of the building. The aluminium material is also beneficial when considering whole life costing analysis.





EON Ausbildungszentrum Lüneburg (D), Architekt: Dipl.-Ing. Rolf Schröder

Safe Planning, Accurate Processing Idea and Execution – Perfection

Kalzip foldable aluminium is the ideal material for traditional metalworking techniques. Almost every roof shape and façade form can be achieved. FalZinc and TitanSilver perfectly compliment with traditional and modern planning concepts. The pre-weathered material resists the impact of even the most severe environments and provides a durable appearance for buildings and long lasting protection against the elements.

Folding, tilting, flanging and pulling – FalZinc, TitanSilver and UltraDark are quickly and precisely processed. Roofs and facades solutions are produced with conventional methods and standard tools. In addition, they provide optimal formability – even in low temperatures – with ease of handling and efficient installation. Kalzip foldable aluminium retains its shape, even under high structural loads.

The material properties and manufacturing processes lead to a highly efficient and low waste product. This allows it to be used economically.

For Planners:

- Design freedom due to unlimited formability
- Choice of products such as FalZinc, TitanSilver, Bronze AL40 and UltraDark
- Attractive price versus performance ratio
- Planning, construction time, and cost certainty owing to simple fabrication and installation methodologies.
- Optional separation layer between Kalzip Foldable Aluminium and timber formwork
- Highly corrosion-resistant, leading to low whole life costs
- Cost efficient compared to existing hard metals

For Installers:

- Tried and tested installation techniques
- Optional separation layer between Kalzip Foldable Aluminium and timber formwork
- Easy installation even in cold temperatures
- Very lightweight, facilitating easy handling on site
- Attractive price versus performance ratio
- Reduced waste, as the most efficient solution (sheet or coil) can be provided
- High cost stability, providing certainty in pricing



Feuerwehr Frickingen (D), Architekt: Manfred Fetscher



Nordkopf Tower, Wolfsburg (D)
Architekt: Schulz und Schulz Archite

Surface Variety

FalZinc, TitanSilver, Bronze AL 40 und UltraDark

Aesthetics, functionality and durability in roof and façade design utilising foldable aluminium are now enhanced by a new and elegant variant: Bronze AL40 and UltraDark with a metallic finish still provides all the benefits of the Kalzip product range and is, like FalZinc and TitanSilver, a premium product for the demanding design of the building envelope.

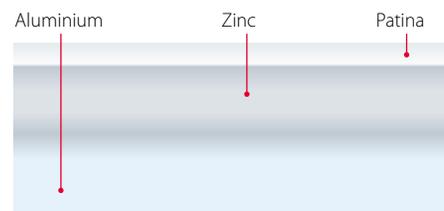
In addition to its light weight, Kalzip foldable aluminium is characterised by its high strength and corrosion resistance. The pre-weathered surfaces harmonise with natural or coated metallic surfaces and combine with other building materials to enhance buildings performance and aesthetics.

FalZinc is manufactured using a unique, patented PEGAL processing technique. In this way, Kalzip combines the traditional appearance of the pre-weathered zinc surface

with the advantages of the lightweight aluminium core.

TitanSilver, shows a subtle matt pre-weathered aluminium surface which, even under adverse weather conditions, maintains the desired surface finish.

Fig. 1: Schematic drawing



Kalzip Foldable Aluminum – The Premium Qualityt

Kalzip foldable aluminium offers outstanding value with an excellent price versus performance ratio. It provides maximum certainty for calculations and price stability. In addition, the delivery options of either sheets or coils ensures minimal waste and economic use:

FalZinc

- Classic pre-weathered zinc appearance
- Maximum corrosion resistance, confirmed by analyses performed according to DIN 50017 and HCT tests
- Resistant aluminium-zinc compound with low degradation rate



TitanSilver

- Pre-weathered, silver matt surface finish
- Maximum corrosion resistance
- Low incident light reflection
- Waste water regulation compliant



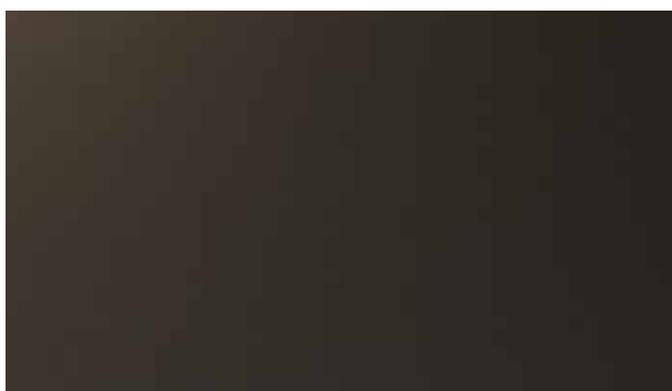
Bronze AL 40

- Paint patinated surface with a metallic bronze aesthetic
- Attractive appearance for new and refurbished buildings
- Highest corrosion resistance
- Anti-graffiti Surface - easy to clean finish providing protection against vandalism - making it ideal for exterior applications



UltraDark

- Paint patinated surface with a metallic bronze aesthetic
- Attractive appearance for new and refurbished buildings
- Highest corrosion resistance
- Anti-graffiti Surface - easy to clean finish providing protection against vandalism - making it ideal for exterior applications





Colourful Variety

FalzColour Stone Grey R and FalzColour Anthrazite Grey R

20 Year
Warranty

Inspired by the sensory elegance of natural surfaces, Kalzip expands the possibilities of traditional hard metal products with foldable aluminium in a variety of new metallic paint finishes.

The new FalzColour in shades of stone grey and anthracite grey is manufactured utilising a high-technology coating on a polymer basis. The surface is characterised by its slightly rough texture and matt gloss value of just 3%. It is extremely robust and is highly resistant against chalking and UV radiation.

The excellent workability of FalzColor is identical to the performance of the other metallic surfaces of: FalZinc, TitanSilver and Bronze AL 40; all of which can be profiled on standard equipment and easily and safely formed with the appropriate tools.

The FalzColour matt finish provides a low key and elegant aesthetic to roofs and facades, which harmoniously integrates with the rest of the building.

With the environmentally friendly coating process using FalzColour is a pro-active contribution to environmentally sound building design. Falzcolor is available with a 20 year Warranty.



Protective Film

Unlike other finishes and paints FalzColour does not require a protective film due to the robust nature of the matt surface. This reduces time and waste making installation quicker and environmentally friendly.

Specifications

Colour, gloss and structure deviations may occur when using coils from different production runs. It is important to ensure that the coils that are installed on the facade or on the roof come from the same manufacturing batch.

Advantages of FalzColour

- Versatile application, easily profiled and machined
- Unique robust and rough surface
- Only 3% gloss - leading to low surface reflection
- High UV and chalking resistance
- Low weight (see Table 1 on page 8 for additional information)
- Long service life - no corrosion
- 100% recyclable
- Easily processed even at low outside temperatures
- Waste Water regulation compliant



Roof and Façade – Precision Down to the Smallest Detail

Kalzip foldable aluminium is produced on state-of-the-art machines under strict quality controls according to the required standards, manufacturer’s specifications or individual customer needs. Narrow production and thickness tolerances allow highly precise forming of the material with the existing standard devices and machines used for traditional metal work. Kalzip roofs and façades offer optimal thermal insulation, saving energy, and protecting resources. Kalzip foldable aluminium provides protection for buildings whilst simultaneously giving them an attractive exterior. System accessories for roof drainage and components for integrating snow guards are available from approved distributors.



Petrus-Jakobus-Kirche, Karlsruhe (D), Architekt: Peter Krebs, Büro für Architektur

Table 1: Delivery forms and dimensions

	FalZinc	TitanSilver	Bronze AL 40	UltraDark
Coils* standard dimensions	0,7 x 500/600/670 mm	0,7 x 600/1.200 mm	0,7 x 600/1.200 mm	0,7 x 600/1.200 mm
	1,0 x 600 mm***	1,0 x 600/1.200 mm***	1,0 x 600/1.200 mm***	1,0 x 600/1.200 mm***
Standard coil weights	100 kg (ID** 400)	100 kg (ID** 400)	100 kg (ID** 400)	100 kg (ID** 400)
	500 – 2.400 kg (ID** 508)	500 – 2.400 kg (ID** 508)	500 – 1.000 kg (ID** 508)	500 – 1.000 kg (ID** 508)
OD (approx.) Outer diameter, in each case with 600 mm range	100 kg = 490 mm	100 kg = 490 mm	100 kg = 490 mm	100 kg = 490 mm
	500 kg = 810 mm	500 kg = 810 mm	500 kg = 810 mm	500 kg = 810 mm
	1.200 kg = 1.100 mm	1.200 kg = 1.100 mm	1.200 kg = 1.100 mm	1.200 kg = 1.100 mm
	1.600 kg = 1.230 mm	–	–	–
	2.400 kg = 1.470 mm	–	–	–
Flat sheets	all standard measurement of 2,000 to 6,000 mm length available only with protective film			
Weight	1,98 kg/m ² (0,7 mm Dicke)	1,90 kg/m ² (0,7 mm Dicke)	1,90 kg/m ² (0,7 mm Dicke)	1,90 kg/m ² (0,7 mm Dicke)
	2,82 kg/m ² (1,0 mm Dicke)	2,72 kg/m ² (1,0 mm Dicke)	2,72 kg/m ² (1,0 mm Dicke)	2,72 kg/m ² (1,0 mm Dicke)

* Standard delivery with paper inserts, protective foil with optional processing border available for an additional charge, other coil sizes on request.

** ID = inner diameter



Interboden, Düsseldorf (D) Architekt: Ingenieurbüro Meyer, Bonn



Freie Scholle Bielefeld (D);
Architekten: BKS Architekten GmbH - Krauß Stanczus Schurbohm + Partner

A Product Needs Service For Designers and Installers – Based on Partnership

We provide guidance and information to allow you to achieve your day-to-day tasks. Our technical team can provide: design advice, specifications, detailed CAD drawings and the contact details of our approved distribution partners.

Our Technical Service

- Specifications to meet your project requirements.
- Technical support to solve detailed issues

You can find more
details at www.kalzip.com

Kalzip premium distributor for Foldable Aluminium:



www.kalzip.com

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Kalzip is a Donges Group Company



www.donges-group.com

Kalzip Ltd.

Haydock Lane

Haydock

St Helens

Merseyside WA11 9TY

T +44 (0) 1942 295 500

F +44 (0) 1942 295 508

E enquiries.uk@kalzip.com