Cover: Agora Theater Lelystad (NL) Architect: Ben van Berkel, UNStudio Amsterdam left: Arquin visitor centre, Heerenveen (NL) Architect: Bouwgroep Heeenveen/ BDG arch en ing right: Motorway service station at the St. Gotthard Tunnel (CH) Architect: Mario Botta below: Grosse Thermen, Xanten (D) Architect: Prof. Dr. Ing Polony und Partner GmbH

Enhancing architectural design with colours and finishes



The great variety of the Kalzip[®] System fosters a clear architectural identity and gives buildings an individual feel.

Today's complex and rapidly changing world is reflected in the amazing diversity of architectural design. At the same time, more and more people are striving to create a distinct style of their own.

Architecture provides us with an opportunity to fulfil this desire for originality. However, innovative design concepts can only be realised if the suitable materials and technology are at hand. With it broad and highly varied range of applications and versatility Kalzip[®] assists this creative process. And this is enhanced by the wide selection of colours and finishes now available. A whole range of RAL colours is available for both Kalzip[®] roof and façade systems. And clients' options have been further extended, as they can now choose special colours or create truly unique design by relying on new coating processes.

The benefits at a glance:

- Outstanding corrosion resistance
- Sophisticated design potential
- Blends in harmoniously with surroundings
- Low surface reflection



Modern building technology expects the materials used to meet the highest standards as regards weathering and corrosion resistance.

Coloured Kalzip[®] aluminium products are the result of state-of-the-art surface finishing and processing technology, and fully meet such requirements.

Consistent colour quality

The aluminium strips that are treated in the coil-coating process undergo a whole range of specialist work stages. Depending on the particular type of coating, they undergo different pre-treatment processes and are finished in the colour requested or sealed with a clear varnish.

Aluminium strips with single-sided coating are also given an outer surface boasting a protective varnish. Only high-quality stove enamels which have a polyester, PVDF or CFTE base are used in order to deliver a weather-resistant and colourfast coating. The coil-coating process is monitored in accordance with the standards of the European Coil Coating Association (ECCA), which emphasize the following important criteria: colour tone, degree of shine, thickness of finish, hardness of finish, bonding, and malleability of finish. Long-duration tests such as acid salt spray tests, QUV-B tests, condensation tests in an SO₂-saturated atmosphere, and outdoor exposure tests in severe environmental conditions are all carried out.

Our AntiGraffiti coating for long-lasting beauty

Corus offers a reliable coating for Kalzip® products that guarantees the complete removal of graffiti – affording protection against the increasing, unauthorised disfiguration of facades and walls through graffiti. The AntiGraffiti system is designed to be used to remove graffiti several times in succession. Featuring specially approved cleaning agents and the requisite cleaning technology the system, when used correctly, removes disfiguration entirely without harming the colour structure. The AntiGraffiti coating provides a colour composite made of PVDF and CTFE, and has similar properties to Teflon. High-quality Kalzip® facades protected with our anti-graffiti coating safeguard the value of private and public property and help to maintain the original appearance of the building. A test report, certified by an accredited test institute, is available on request.

- Coating thickness approx.: 35-40 μm
- AntiGraffiti is available in the following colours: RAL 9006, RAL 9007 and GoldMetallic
- Other colour tones on request



RAL 7036

RAL 9006

White aluminium

Platinum grey

RAL 7016 Anthracite grey



Greyish white



Zinc colour

All colour shades are based on a polyester coating. Due to the production process slight variations from the RAL colour code may occur. Minor production-related colour variations may also occur within a single delivery. Differences in colour in AluPlusZinc are typical of zinc, and are intentional. Differences in colour should be tolerated and do not represent a defect.

In the case of international orders, quantities must be calculated precisely in order to avoid increased costs incurred as a result of materials with an excessive or inadequate coating. We produce the flat sheets required for flashings from the coated coil. As such their thickness and durability is identical to that of the Kalzip® products ordered.



RAL 8014 Sepia brown



RAL 9007 Grey aluminium

Below: Experimental factory in **Magdeburg (D)** Architect: Sauerbruch und Hutton

Kalzip[®] – unique materials for trend-setting roofs and facades.

High-end finishes make an architectural mark and provide a wide range of individual design opportunities. The production technologies patented by Corus Bausysteme facilitate a perfect symbiosis of high-quality materials to mutually enhancing effect. Taking aluminium as the core material and combining it with zinc we have created exclusive materials with outstanding qualities such as flexible formability, light weight, great strength, and high corrosion resistance.





Innovative material symbioses through patented production technologies – with new trailblazing materials.

Stucco-embossed finishes

Standard Kalzip® profile sheets come with a stucco finish and non-colour coating. This natural metallic finish is achieved by means of treatment with additional embossing rollers. The extremely robust surface structure is thus able to withstand the slight mechanical damage that can occur during installation of the profile sheets. Furthermore, the surface diffuses light, reducing the risk of glare.

The benefits at a glance

- Reduced surface reflection in comparison with untreated aluminium
- Smooth metallic appearance
- Saline resistant
- Regular 'dulling' of the finish
 over time
- Resistant to weathering, including severe enviromental conditions

Kalzip[®] AluPlusPatina

Kalzip® AluPlusPatina extends the range of Kalzip® design options by featuring another metallic facet with a bright appearance. The pre-weathered profile sheets are made from resistant stucco-embossed or millfinish aluminium that have undergone additional finishing such that the aluminium surface has lost its natural shine, spelling a clear reduction in the diffuse reflection of light. The appearance of AluPlusPatina is comparable to aluminium that has weathered over the course of time. The natural ageing process the profile sheets undergo through weathering is in no way obstructed and follows its normal course. Special treatment creates a smooth, dirtrepelling finish.

The advantages

- Resistant to weathering, including severe environmental conditions
- Significantly reduced light reflection
- Pre-weathered finish creates elegant appearance
- High level of inherent stability makes it suitable for large spans

Kalzip AluPlusZinc®

Kalzip AluPlusZinc[®] is a high-quality, technically sophisticated with a matt, zinc-patinated surface. Giving a building a bright finish, typical of zinc. The timeless, aesthetic appeal of the pre-weathered zinc patina makes the material the ideal choice for prestigious downtown structures.

Kalzip AluPlusZinc[®] offers unique advantages

- · Zinc patina with surface protection
- Impressive, authentic visual appeal
- Dynamic effects through changing light conditions
- Durability thanks to aluminium core

Delivery lead times

Finish	Kalzip [®] 65/305		Kalzip [®] 65/333	Kalzip [®] 65/400				
	Th	ickness in r	nm	Thickness in mm	Thickness in mm			
	0,8	0,9	1,0	1,0	0,8	0,9	1,0	1,2
Plated stucco-embossed	-	-	-	-	-	-		-
Non-plated stucco embossed	*	*	0	*	*			*
RAL 7016 Poly	*	0	0	0	0	0		0
RAL 7036 Poly	*	0	0	0	0	0	0	0
RAL 8014 Poly	*	0	0	0	0	0	0	0
RAL 9002 Poly	*	0	0	0	0	0	0	0
RAL 9006 Poly	*	0			0			0
RAL 9007 Poly	*	0		0	0			0
Zinc Colour	*	*	*	*	*	*	*	-
AluPlusPatina stucco-embossed	*	-	0	0		-		*
AluPlusPatina mill-finish	*	-	0	0		-		*
AluPlusZinc	-	-	*	*	-	-		-
additional RAL colours	*	0	0	0	0	0	0	0

Finish		Kalzip® 50/333		Kalzip [∞] 50/429				
	Th	ickness in r	nm	Thickness in mm				
	0,8	0,9	1,0	0,8	0,9	1,0	1,2	
Plated stucco-embossed	-	-	-	-	-		-	
Non-plated stucco embossed	*	*	0	*			*	
RAL 7016 Poly	*	0	0	0	0		0	
RAL 7036 Poly	*	0	0	0	0	0	0	
RAL 8014 Poly	*	0	0	0	0	0	0	
RAL 9002 Poly	*	0	0	0	0	0	0	
RAL 9006 Poly	*	0		0			0	
RAL 9007 Poly	*	0		0			0	
Zinc Colour	*	*	*	*	*	*	-	
AluPlusPatina stucco-embossed	*	-	0		-		*	
AluPlusPatina mill-finish	*	-	0		-		*	
AluPlusZinc	-	-	*	-	-		-	
additional RAL colours	*	0	0	0	0	0	0	



Standard material Delivery in 3-5 weeks after finalized order placement. Please enquire about quantities of more than 2000 m².



Delivery in 6-8 weeks after finalized order placement. Minimum quantity 500 m². Please enquire about quantities of more than 2000 m².



Delivery in minimum quantities of 2000 m². Delivery lead time on request



Finish	Kalzip [®] AF/333		Kalzip [◎] AF/434			Kalzip® AS/422					
	Th	ickness in r	nm		Thickne	ss in mm		Thickness in mm			
	0.8	0.9	1.0	0.8	0.9	1.0	1.2	0.8	0.9	1.0	1.2
Plated stucco-embossed	-	-	-	-	-		-	-	-		-
Non-plated stucco embossed	*	*	0	*			*	*			*
RAL 7016 Poly	*	0	0	0	0		0	0	0		\bigcirc
RAL 7036 Poly	*	0	0	0	0	0	0	0	0	0	0
RAL 8014 Poly	*	0	0	0	0	0	0	0	0	0	0
RAL 9002 Poly	*	0	0	0	0	0	0	0	0	0	0
RAL 9006 Poly	*	0		0			0	0			0
RAL 9007 Poly	*	0		0			0	0			0
Zinc Colour	*	*	*	*	*	*	-	*	*	*	-
AluPlusPatina stucco-embossed	*	-	0		-		*		-		*
AluPlusPatina mill-finish	*	-	0		-		*		-		*
AluPlusZinc	-	-	*	-	-		-	-	-		-
additional RAL colours	*	0	0	0	0	0	0	0	0	0	0

Finish	Kalzip® facade systems Coil material in 1200 mm thickness 18/76 (991), TF 800 R (available only with 1 mm coating), 35/200, 30/167, 50/167, 40/185				Kalzip® facade systems Coil material in 1250 mm thickness 18/76 (1067), 35/200 with supporting base 45/150, 40/185 with supporting base			
		Thickne	ss in mm			Thickne	ss in mm	
	0.7	0.8	1.0	1.2	0.7	0.8	1.0	1.2
Plated stucco-embossed	-	-	-	-	-	-	0	-
Non-plated stucco embossed	0	0	\bigcirc	*	0	0	0	*
RAL 7016 Poly	\bigcirc	0	0	0	0	0	0	*
RAL 7036 Poly	0	0	0	0	0	0	0	*
RAL 8014 Poly	\bigcirc	0	0	0	0	0	0	*
RAL 9002 Poly	0	0	0	0	0	0	0	*
RAL 9006 Poly	0	0	0	0	0	0	0	*
RAL 9007 Poly	*	0	\bigcirc	0	0	\bigcirc	0	*
Zinc Colour	*	*	*	-	*	*	*	-
AluPlusPatina stucco-embossed	*	\bigcirc	\bigcirc	*	-	-	-	-
AluPlusPatina mill-finish	*	\bigcirc	\bigcirc	*	-	-	-	-
additional RAL colours	*	0	0	0	0	0	0	*



Standard material Delivery in 4-7 weeks after finalized order placement. Please enquire about quantities of more than 2000 m².

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Delivery in 7-10 weeks after finalized order placement. Minimum quantity 500 m². Please enquire about quantities of more than 2000 m².



Delivery in minimum quantities of 2000 m². Delivery lead time on request





Delivery lead times

Finish		Kalzip [®] Coil material, flat sheets and flashings							
				Thicknes	ss in mm				
	Coil width in mm	0.8 mm	0.9 mm	1.0 mm	1.2 mm	1.4 mm	1.9 mm		
Plated stucco-embossed H32	1250	-	-		-	-	-		
RAL 7016 Poly H42	1250	*	*		*	*	*		
RAL 7036 Poly H42	1250	*	*	0	*	*	*		
RAL 8014 Poly H42	1250	*	*	0	*	*	*		
RAL 9002 Poly H42	1250	*	*	0	*	*	*		
RAL 9006 Poly H42	1250	*	*		*	*	*		
RAL 9007 Poly H42	1250	*	*		*	*	*		
Zinc Colour H42	1250	*	*	*	*	*	*		
AluPlusPatina stucco-emb. H42	1200	*	-		*	*	-		
AluPlusPatina mill-finish H42	1200	*	*		*	*	-		
AluPlusZinc H42	579	-	-		-	-	-		
additional RAL colours H42	1250	*	*	0	*	*	*		
mill-finish H32	1250	*	*	0	*	*	*		



Standard material Delivery in 3-5 weeks after finalized order placement. Please enquire about quantities of more than 2000 m².

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Delivery in 6-8 weeks after finalized order placement. Please enquire about quantities of more than 2000 m².



Delivery in minimum quantities of 2000 m². Delivery lead time on request.



left: Veterinary clinic in **Amsterdam (NL)** Architect: Albers van Huut & Partners centre: Marxer industrial hall **Friedberg (D)** Architect: Dieter W. Hoppstaedter right: sewage treatment plant **Cottbus (D)** Architect: Arcus Architekten below: Arena Loefplein **'s-Hertogenbosch (NL)** Architect: Tvsqvets-Diaz & Assoc. u. B+D, Architekten



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