



# FAÇADE CLADDING

System Solutions for Curtain Walls



## Foreword

If the best material curtails creativity, what good is it? If the best idea cannot be achieved, what good is it? Materials that foster creativity and lend form to ideas are required for individual solutions, as are consulting services that take technical perfection, structural physics and aesthetics into consideration.

RHEINZINK offers all of the above. Not only does the name stand for unique creative material to clad roofs and facades, but also for exemplary service to implement your ideas – regardless of the size of your project – big or small. We offer solutions that are as unique as your project. A comprehensive range of RHEINZINK facade and roofing along with diverse installation techniques, make it easy to find a perfect solution for every design.

RHEINZINK is extremely malleable; it is compatible with every architectural environment and its aesthetic is timeless. Furthermore, requirements for sustainable building using natural material are met without difficulty. RHEINZINK is absolutely maintenance and service free. Its lifetime comprises several generations and that, in and of itself, sets standards; its ecological balance is exemplary.

The examples in this brochure illustrate the design potential of RHEINZINK, along with various options available to you by using this ecological material.

Frimley, December 2012



TRUMPF Sachsen GmbH, Neukirch, Germany



Terrace-shaped building,  
Oswaldgasse, Vienna, Austria



New Lecture Hall, Victoria University,  
Werribee Campus, Werribee, Australia

## RHEINZINK-Flat-Lock Tiles

Flat-lock tiles are used primarily for large curtain wall areas. This is where the visual effect is the most impressive. By using different sizes of tiles and by changing up the layout of the seam lines, the planner has many options for facade designs. RHEINZINK-Flat-Lock Tiles are available in RHEINZINK-prePATINA blue-grey and graphite-grey preweathered versions, as well as in the bright rolled version. The bright rolled version opens up additional design potential; natural weathering of this material enhances the nuance of colour of each individual tile, creating a very special effect. For quality assurance and optimal material usage efficiency custom production is recommended.

We produce flat-lock tiles on demand in the surface qualities RHEINZINK-PROTECT and RHEINZINK-COLOR.

- Individual tile sizes
- High degree of design freedom
- Standard surface qualities  
RHEINZINK-prePATINA  
bright rolled, blue-grey and  
graphite-grey
- Environmentally declared product

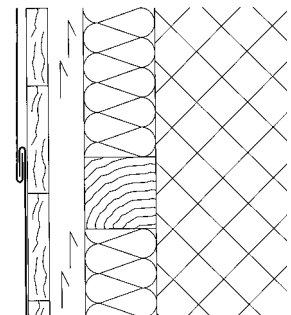
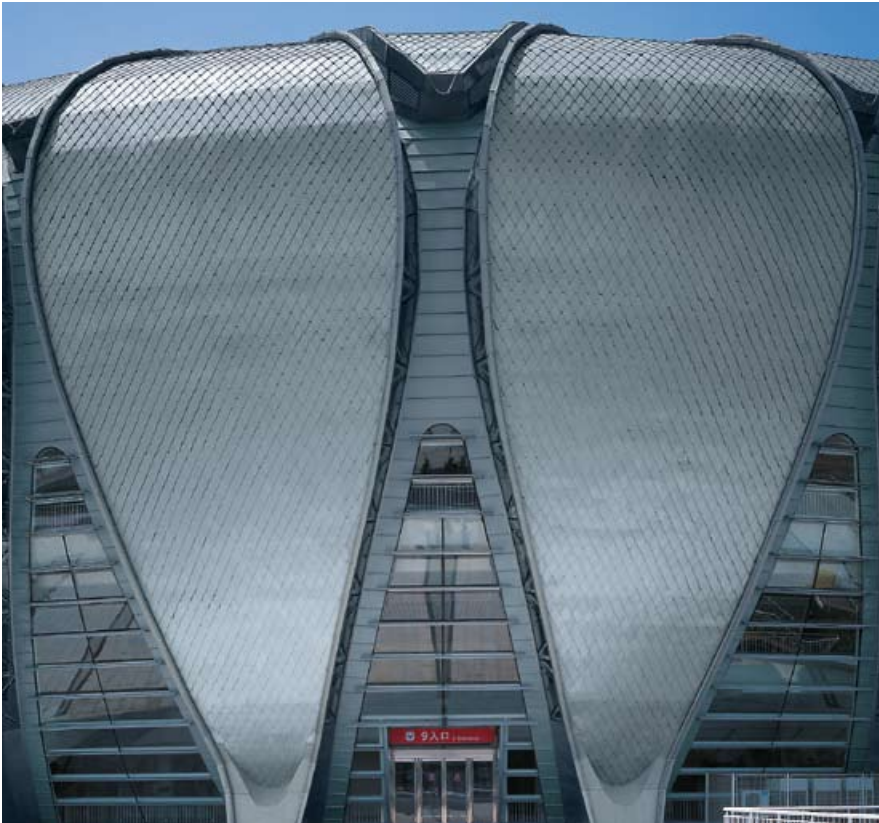


Fig. Cover Page: Operations Building, Montegrano, Italy





Olympic Stadium, Jinan, China



Head Offices of Berlinwasser Holding AG, Berlin, Germany

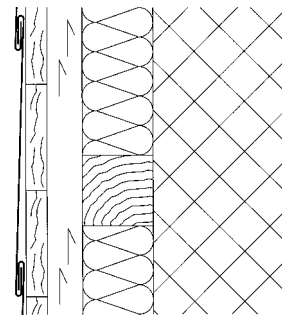
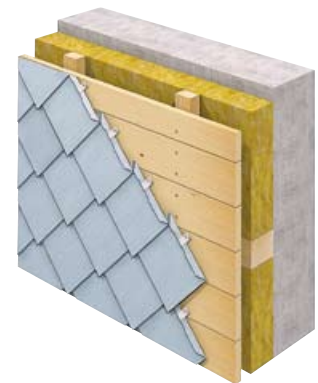


Sir Colin Campbell Building, University of Nottingham, Great Britain

## RHEINZINK-Small Tiles

Square and diamond-shaped tiles make up RHEINZINK's small tile group. Contrary to sheets or shingles, these tiles have forward facing edges on the top surface and backward facing edges on the lower surface to form simple lock joints. The small format of these tiles permits secure and aesthetically pleasing solutions to be realized, particularly for geometrically complicated buildings. Virtually all corners and curves can be accommodated. Dormer, chimney head and roof edges are some of the more conventional applications for small tiles.

- Available in various sizes
- Flexible adaptation to building shapes
- Standard surface qualities  
RHEINZINK-prePATINA  
bright rolled, blue-grey and  
graphite-grey
- Durable and maintenance free





Private Residence, Schmerlitz, Germany



Apartment Building and Business Center, Lehrte, Germany

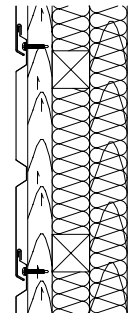


Multiple Dwelling, Neumünster, Germany

## RHEINZINK-SP-Line

New and innovative, the SP-Line is a complete system. It consists of a base panel and prefabricated adjustable flashings; it can be installed both horizontally and vertically. One panel is plugged into the other. "Random designs", uniform seam patterns and "installation using slave profiles" can be realized without difficulty and without waste. Details are solved efficiently and economically. The modern look of the RHEINZINK-SP-Line is impressive; it is a very reasonable, yet high quality alternative to wood, stone and synthetic materials.

- Simple planning and installation
- Complete modular system
- Uniform seam grid
- Made of RHEINZINK-prePATINA blue-grey







Zinkhaus, Copenhagen, Denmark



Perth Convention & Exhibition Centre, Perth, Australia



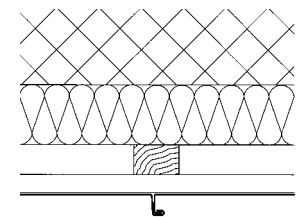
Villa, Prague, Czech Republic

### RHEINZINK-Seam Technology

RHEINZINK-seam systems join individual panels longitudinally. The angled standing seam is used primarily for curtain walls. Its distinguishing feature is the bold accentuation of its seams (ca. 12 mm width). A variety of panel lengths and widths, allows even the most elaborate shapes to be realized using seam technology. The availability of machines guarantees efficient and consistent forming of panel edges and closing of seams.

We produce seam systems on demand in the surface qualities RHEINZINK-PROTECT and RHEINZINK-COLOR

- Suitable for almost every building shape or style
- A variety of panel widths is available
- Standard surface qualities  
RHEINZINK-prePATINA bright rolled, blue-grey and graphite-grey
- Little or no maintenance or service required





Private Residence, Cantù, Italy



Telenor, Fornebu, Norway



FERI, Maribor, Slovenia

### RHEINZINK-Horizontal Panel System

Horizontal panels are similar to reveal panels in appearance. The panels are fabricated with flanges to close their ends; they are attached indirectly via a precisely-defined 20 mm groove, using a special RHEINZINK-mounting clip. This ensures that thermal expansion can be accommodated without any difficulty. We produce horizontal panels on demand in the surface qualities RHEINZINK-PROTECT and RHEINZINK-COLOR.

- Horizontal facade segmentation
- Panels are available in various widths
- Sliding fastening system
- Standard surface qualities RHEINZINK-prePATINA blue-grey and graphite-grey
- Panel lengths of up to 6,0 m are available

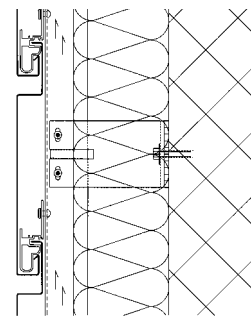


Fig. right: Private Residence, Straden, Austria









*Train Station Passageway, Uster, Switzerland*



*Private Residence, Empel, Netherlands*



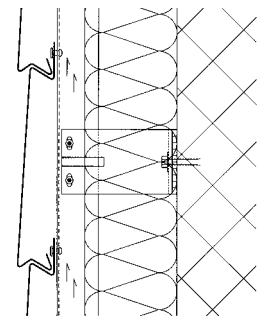
*MG AVU Galerie der modernen Kunst  
Akademie bildender Kunst, Prague,  
Czech Republic*

## RHEINZINK-Shi lap Panel

Due to its layered characteristics and shadowless joint, the shi lap panel is a particularly unique facade cladding, reminiscent of wooden facades. When exposed to light and shade, interesting shadows and sharp contours appear because of its profile geometry. Precision profile manufacturing (in accordance with detailed planning and pre-defined panel dimensions) guarantees efficient and optimum installation on site.

We produce shi lap panels on demand in the surface qualities RHEINZINK-PROTECT and RHEINZINK-COLOR.

- Layered sheath look
- A variety of panel widths are available.
- Standard surface qualities  
RHEINZINK-prePATINA  
blue-grey and graphite-grey
- No maintenance or painting





University of Nottingham, Business School, Nottingham, Great Britain



Theater am Marientor (previously: Les Misérables), Duisburg, Germany



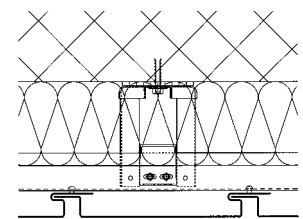
Tropical Islands, Briesen-Brand, Germany

## RHEINZINK-Reveal Panels

The benefit of the reveal panel is the choice of bay widths (200-333 mm) and variable joint widths of 0-30 mm. With the flexibility of vertical and diagonal installation, the reveal panel offers the architect an exceptional amount of freedom in implementing their design ideas. Configured panels with an extremely wide range of shapes can be realized. Therefore, permanent quality solutions can be implemented very quickly when it comes to renovations or retrofitting insulation.

We produce reveal panels on demand in the surface qualities RHEINZINK-PROTECT and RHEINZINK-COLOR.

- A panel system, with different visual effects
- Choice of reveal and panel widths
- Standard surface qualities  
RHEINZINK-prePATINA  
blue-grey and graphite-grey
- Environmentally declared product







Private Residence, Berlin, Germany



Multisport Complex, Walferdange, Luxembourg

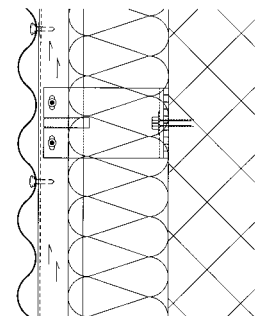


Private Residence, Datteln, Germany

### RHEINZINK-Corrugated Profiles

The fluid design of the conventional sine wave gives the corrugated profile a filigreed look. Various types of installation – horizontal, vertical or diagonal – permit detailed panelization or clearly visible segmentation of the facade image, panel by panel. The soft interplay of light and shadow creates a vitality on these large surfaces that is both aesthetically interesting and appealing.

- Flexible application as a result of large formats
- Accentuated facade design
- Standard surface quality RHEINZINK-prePATINA blue-grey
- Diverse corrugated formats upon request





Verbier Gondola Station, Verbier, Switzerland



Rosenberg School, Neuhausen, Switzerland

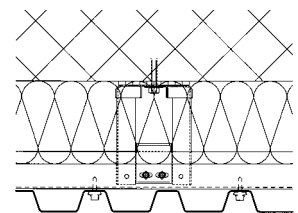


Verbier Gondola Station, Verbier, Switzerland

## RHEINZINK-Trapezoidal Profiles

The sharp-edged rib-shaped design of the trapezoidal profile conveys a cool language of form whether arranged horizontally, vertically or diagonally. The strong contrast which is produced when light strikes it, is of greater intensity than in the corrugated profile, which is somewhat subdued. The option of choosing between A or B as the visible side, makes this a facade cladding with two faces.

- Flexible installation by using large formats
- Clean design lines
- Standard surface quality  
RHEINZINK-prePATINA blue-grey
- Diverse bead formats upon request





### The Material with a Future.

In the context of the discussion on sustainable construction the environmental compatibility of building products is given great significance and accordingly influences the making of decisions by building owners and planners when selecting materials. In this focus, in addition to a long life, an important consideration is the expenditure of energy during the manufacture of the material, the recycling rate and the energy saving to be made as a result of the high recycling rate.

In the case of RHEINZINK the environmental compatibility traditionally has a high value. Ecological yardsticks are already set during the extraction and processing of the raw material: The consumption of energy is extremely low. The most modern of production facilities reduce emissions to a minimum. RHEINZINK is a 100% recyclable and sets a yardstick with a life of many decades in use. Its use as a roof covering, facade cladding and roof drainage alone is accorded a high value: Since the consump-

tion of energy in the recycling amounts to only around 5% of the primary energy content and today in the market for used metals a value of up to 60% of the raw material price for high-purity zinc is achieved, the decision to use RHEINZINK is also of great benefit to future generations. Thanks to the high recycling rate of over 95% a further reduction of the energy requirement is achieved. In the RHEINZINK manufacturing process production scrap is passed to the melting process without further pre-handling.

In addition to exemplary ecological characteristics RHEINZINK is convincing in terms of its aesthetic appearance. It can be delivered in various product lines and versions.



RHEINZINK PATINA is the classic line. The bright rolled version (prePATINA bright rolled) first takes the form of a natural patina in the course of time – due to

atmospheric influences. With the pre-weathered variants prePATINA blue-grey and graphite-grey, the natural material has on the first day a classical, typical zinc blue-grey or graphite-grey appearance. On the other hand the pre-weathered variants of this product line change again during the course of the year, the blue-grey and graphite-grey appearance of the RHEINZINK-PROTECT LINE is protected from ageing in the longer term by an invisible coating.

With the RHEINZINK-COLOR LINE there is now also a coloured RHEINZINK version available. This opens up other possibilities in the design of roof, facade and architectural details, since also the COLOR LINE has the outstanding RHEINZINK processing characteristics. Currently it is available for delivery in the colours RHEINZINK-blue, RHEINZINK-tile-red, RHEINZINK-moss-green, RHEINZINK-pearl-gold and RHEINZINK-nut-brown.



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- 1 QUALITY ZINC Certificate
- 2 TÜV Certificate  
ISO 9001:2008,  
ISO 14001:2004 and  
ISO 50001:2011
- 3 IGEF Certificate
- 4 IBU Environmental Declaration

Please see [www.rheinzink.com](http://www.rheinzink.com) for many other exemplary solutions for working creatively with RHEINZINK. We would also be pleased to send you detailed information on the diverse RHEINZINK-Program!





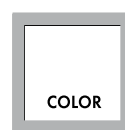
Diversity instead of Monotony –  
The RHEINZINK-Product Lines



**PATINA LINE**  
Living Material



**PROTECT LINE**  
Pure and durable



**COLOR LINE**  
Unlimited Finishes

**Surface Finishes:**

prePATINA bright rolled  
prePATINA blue-grey  
prePATINA graphite-grey

**Surface Finishes:**

PROTECT blue-grey  
PROTECT graphite-grey

**Finishes (according to colour catalogue):**

RHEINZINK-blue  
RHEINZINK-tile-red  
RHEINZINK-moss-green  
RHEINZINK-pearl-gold  
RHEINZINK-nut-brown

**Delivered forms:**

Sheet and strip, roof and facade systems, roof drainage products. Profiles are finished with service edging on request. Backside coating if required.

**Delivered forms:**

Sheet and strip. Profiles are manufactured with service edging on request.

**Delivered Forms:**

Sheet and strip. Pre-formed profiles and flashings are available on request.

**Convincing arguments:**

- Natural material
- Natural patina formation
- Tried and tested processing characteristics
- For roof, facade, roof drainage and architectural details
- Long life and maintenance-free
- 100% recyclable

**Convincing arguments:**

- Natural material
- Durable surface protection
- Protective transparent coating
- Tried and tested processing characteristics
- For roof, facade and architectural details
- Long life and maintenance-free
- 100% recyclable

**Convincing arguments:**

- Natural material
- RHEINZINK material quality with coloured coating
- Unlimited design variations
- Proven processing characteristics
- For roof, facade and architectural details
- Long life
- 100% recyclable



RHEINZINK U.K.  
Wyvern House · 55-61 High Street  
Frimley · Surrey GU16 7HJ  
United Kingdom

Tel.: +44 1276 686725  
Fax: +44 1276 64480

[info@rheinznk.co.uk](mailto:info@rheinznk.co.uk)  
[www.rheinznk.co.uk](http://www.rheinznk.co.uk)