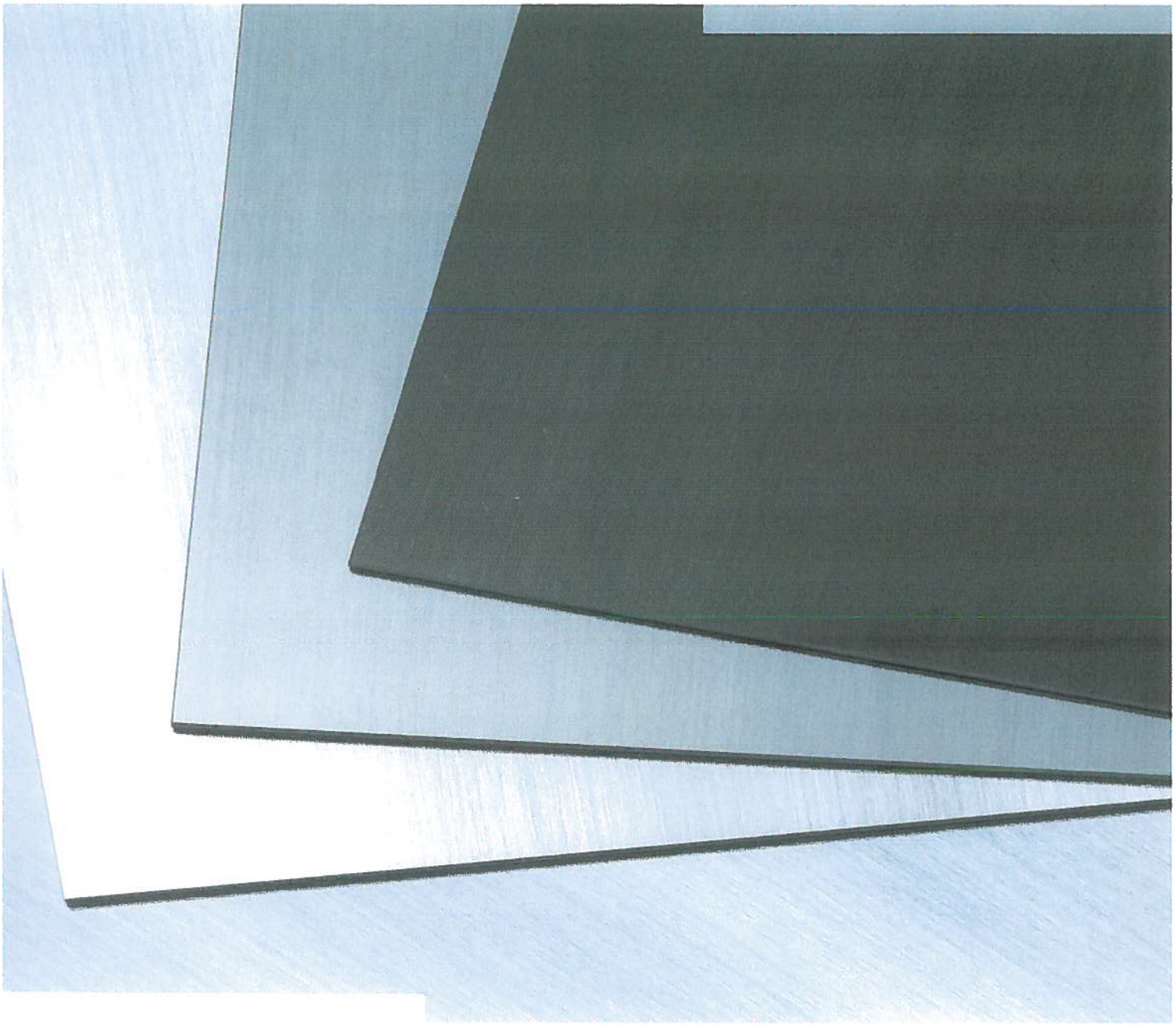
RHEINZINK®



THE PATINA LINE

Living Material – in three natural Surfaces

TITANIUM ZINC MADE IN GERMANY

IMPROVING WITH AGE
PURE THROUGH AND THROUGH FROM RHEINZINK



The PATINA LINE is the most classic material from the RHEINZINK range. With outstanding features, it has living beauty. With a natural surface that has a timeless elegance, it provides a permanent, flexible and durable solution. Developed as an economical roofing and facade cladding as well as for roof drainage, it offers quality and provides a timeless aesthetic. With 45 years unrivalled experience in the production of 99.995% pure zinc alloy, we lead where others follow. RHEINZINK prePATINA exemplifies sustainability in that it is durable, maintenance-free and will last for several generations.

The RHEINZINK-PATINA LINE – True Beauty through the Ages

Scarcely any material is as fascinating as RHEINZINK in its original version. Through the process of natural patination, RHEINZINK prePATINA will, over time, produce a unique and charismatic finish. As it ages and matures, to develop a unique surface character, to lend buildings a timeless elegance.

Living Material – in three natural Surfaces

The PATINA LINE is always the first choice when the aesthetics of a living material is required. It is available in three natural surfaces. RHEINZINK-prePATINA, when delivered straight from the factory is blue-grey in appearance, which with the highly polished version (RHEINZINK-prePATINA bright rolled) gives the context of natural weathering. RHEINZINK-prePATINA graphite-grey is the dark version of the environmentally friendly material. All three versions are vivid, distinct and unique.

RHEINZINK – always the right Choice

To give you even more design possibilities, we now offer our unique material in four different product lines. The PATINA LINE is the classic of these lines – as it ages with grace and its beauty improves over time. The PROTECT LINE has an invisible anti-aging coating, which preserves the aesthetic appearance of the material into the future. With COLOR LINE, we have introduced a palette of colours. And with the appealing INTERIEUR LINE, RHEINZINK can now be considered in the design of interiors.

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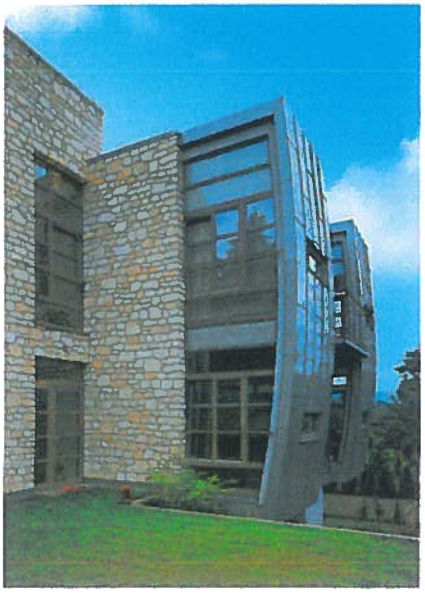
RHEINZINK is a material of the highest quality. The alloy is melted in a single operation, cast, rolled and wrapped into strips of different types and thicknesses. The high production level for all the product lines is guaranteed through regular monitoring and extensive laboratory testing. The QUALITY ZINC Seal is documented in the TÜV Rheinland (Prüf-Nr. 424-030012) certificate.

True Beauty comes from outside
The reaction with oxygen and carbon dioxide, added to the effects of water (rain, humidity), causes natural patination of the raw material, forming a dense, adherent and water-insoluble layer of basic zinc carbonate. In this way, layer-by-layer, it permanently protects the material from weather and corrosion. Therefore, this self-healing RHEINZINK surface makes any scratches short-lived, due to its natural weathering properties.

As it is a natural process, the climate and environmental conditions will impact on the shades of colours produced. In addition, the duration and intensity of the formation of the patina are also dependent on both these conditions, as well as on the angle of inclination of the material.

The results are conclusive, as the natural patination always has a stylish look. It is not only modern buildings that will benefit from this long lasting elegance, as it is equally relevant to the renovation of traditional buildings too.

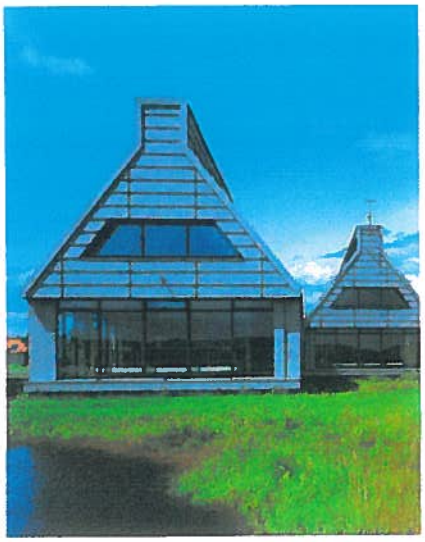




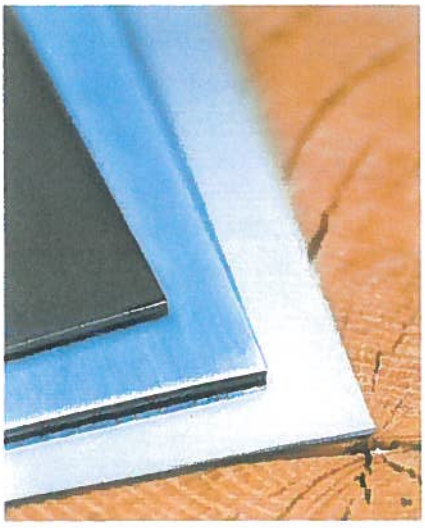
In Harmony with other Materials
Apart from the outstanding environmental characteristics of the product, are the aesthetic advantages and how they work in harmony with other materials, making the various RHEINZINK lines and their different variants so versatile. This rings true, regardless of the use – as a complete roof, extensive façade, roof drainage or specific architectural detail.

Anything but superficial

The outstanding environmental verification of the RHEINZINK material is documented in the IBU product declaration according to ISO 14025, Type III. Some years ago, the life cycle of RHEINZINK was reviewed (raw material extraction, processing, use and recycling) by the independent committee of the Institute Construction and Environment (IBU) and was declared as an environmentally friendly building material. It is inflammable, protects against lightning, and also shields against electromagnetic radiation (IGEF). The company RHEINZINK was certified under a voluntary, permanent foreign control, as an outstanding environmental management organisation according to ISO 14001:2004, and quality management according to ISO 9001:2008 and ISO 50001:2011 energy management.







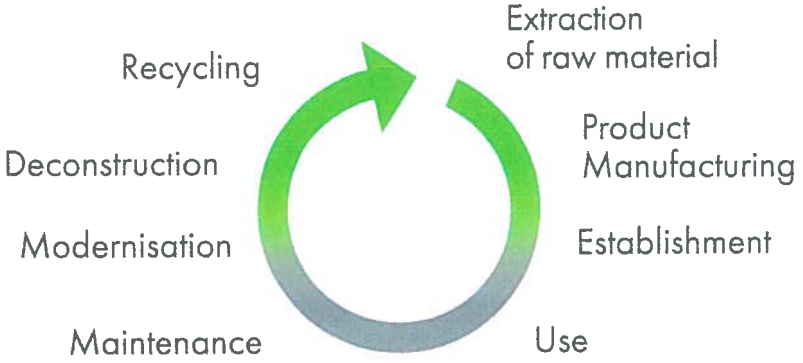
A sustainable Example

Choosing RHEINZINK is always a choice to support future generations, as few materials have such a similar positive environmental footprint. Such standards are set at the very beginning, in the extraction and processing of the raw materials. This is continued by the modern production methods that reduce the emissions in smelting and processing to a minimum. With the lowest CO_2 emissions in the production process, coupled with the least energy required for producing RHEINZINK, it is the least impacting of the construction metals.

Value preserving and maintaining Value

Even after its use as a roofing, cladding or roof drainage material, RHEINZINK still maintains its value: in the production process we recycle approximately 5% of the primary energy value by weight and by the time it can be considered as scrap metal value, up to 60% of the commodity price for refined zinc is achieved, making this a sustainable and economic choice.

Thanks to a recycling rate of over 95%, this portion can make up to a third of the secondary material produced. This is an impressive result, although due to the long life cycle of the product, it is not often that the material comes back into the recycling stream.



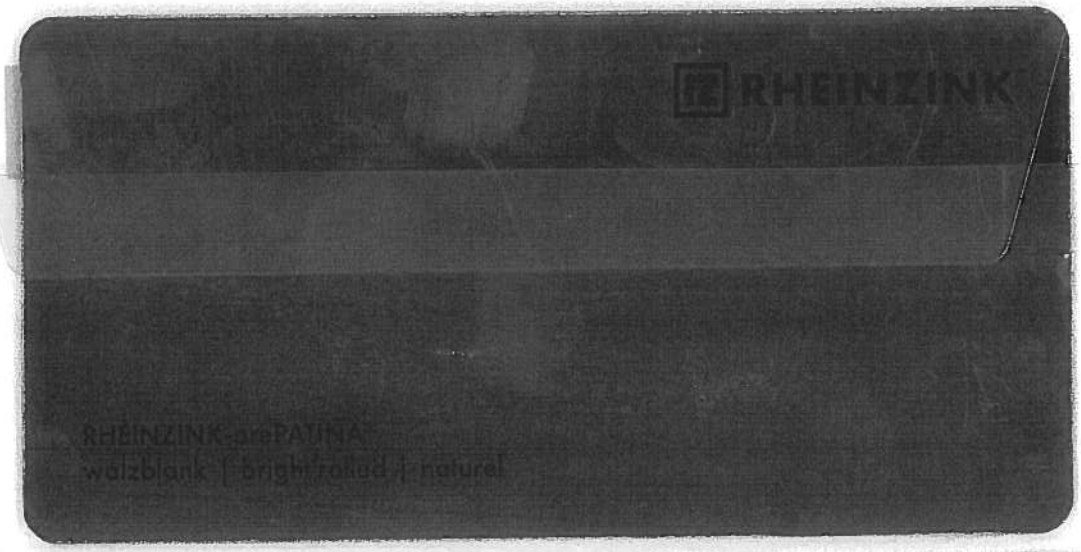
TÜVRheinland CERT ISO 9001 ISO 14001

Institut Bauen und Umwelt e.V.

IGEF

* *Federal Environment Agency recognized eco-label for construction*

RHEINZINK-prePATINA bright rolled



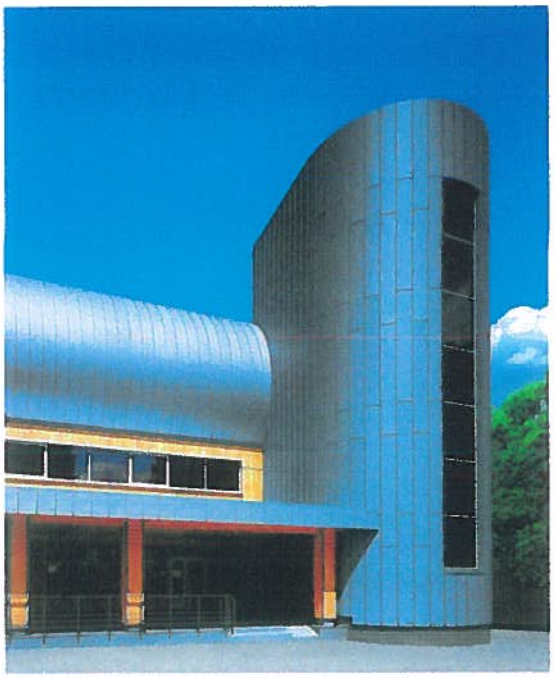
RHEINZINK-prePATINA blue-grey

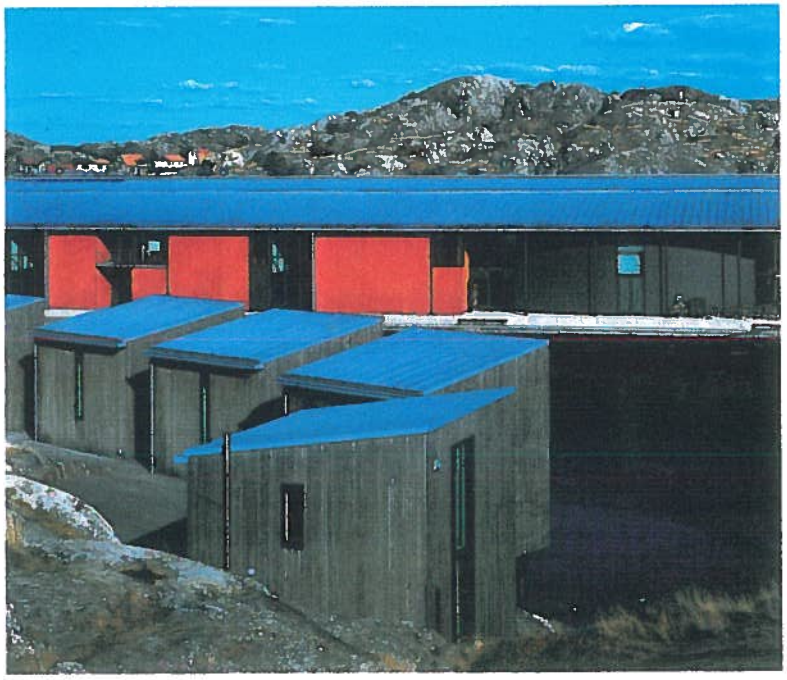


RHEINZINK-prePATINA graphite-grey



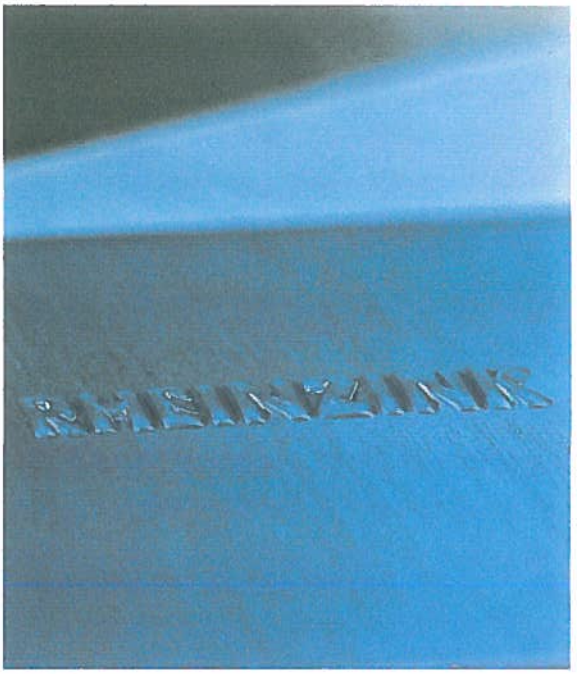




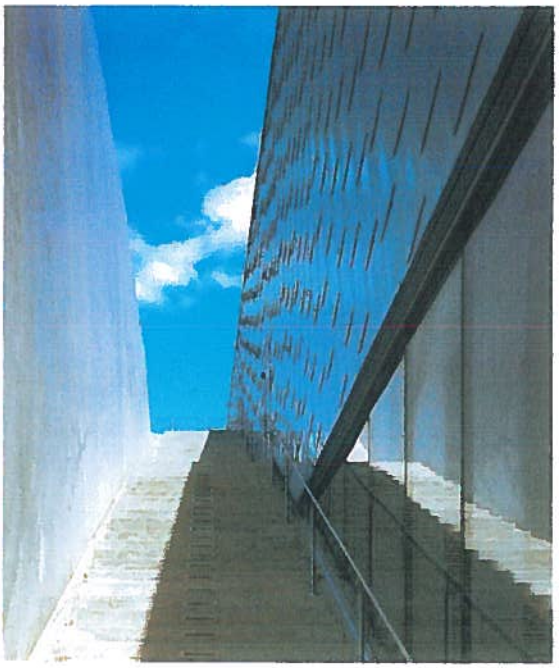


RHEINZINK











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To find out more about sustainable construction and our various product lines, please contact us.

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