

VMZINC

AZENGAR® 3R

Rethinking zinc

100%
recycled
zinc



Architect: Line+ Studio



Copyright: Paul Kozłowski - Architect: Klein architecture

» « Building sustainably is more than just a trend; it's always been at the heart of our vision. »

Hendrik Deraedt
CEO VM Building Solutions

100% recycled zinc, an important step towards a more sustainable world.

For years, sustainability has been at the core of our architectural vision. With a forward-thinking approach, we continuously push boundaries and innovate to meet the environmental challenges facing the built environment of tomorrow.

AZENGAR® 3R: A Material Designed for the Circular Economy

As part of our ongoing commitment to responsible design, AZENGAR® 3R embodies the principles of the circular economy: **Reduce, Reuse, Recycle**. This next-generation titanium zinc offers architects and construction professionals a sustainable, high-performance alternative that aligns durability with environmental responsibility.

Endlessly Recyclable, Endlessly Relevant

AZENGAR® 3R is more than just a material. It marks a true paradigm shift. As the first circular titanium zinc in the industry, it can be recycled endlessly without any loss in quality. This breakthrough sets a new benchmark in the zinc sector, proving that technical excellence and environmental responsibility can coexist.

Refined Aesthetics, Enduring Appeal

Designed with a distinctive engraved surface and a light matte finish, AZENGAR® 3R offers a visually rich texture that interacts beautifully with natural light.

Its subtly reflective surface adds timeless character, making it an ideal choice for projects that value both design integrity and sustainable performance.

A New Standard for Responsible Architecture

AZENGAR® 3R redefines what building materials can achieve. It combines advanced technology with a deep commitment to sustainability. This is a material for architects who design with a long-term vision and a sense of environmental responsibility.



Copyright: John Gollings AM - Architect: Mc Bride Charles Ryan



AZENGAR® 3R fully embodies the 3R concept



REDUCE

AZENGAR® 3R represents a significant reduction in the use of raw materials. Thanks to an innovative production process, **we save at least 80% energy** using recycled materials and minimising energy-intensive processes.

What's more, with resource extraction reduced to the bare minimum, **we're cutting CO₂ emissions by 80%**.



REUSE

With AZENGAR® 3R, we offer a revolutionary product that **can be reused over and over again without any loss of quality**.

Made from 100% recycled titanium zinc, it retains its technical composition (EN988) and original performance.

Thanks to our closed-loop system, every kilogram of material is reintegrated **without loss or degradation**.

AZENGAR® 3R is a unique innovation in the construction sector.



RECYCLE

AZENGAR® 3R is manufactured entirely from recycled zinc scrap and is the heart of a closed raw materials cycle.

This **100% circular** product retains its quality and technical properties, so it can be used again and again. With AZENGAR® 3R, we are contributing to a sustainable future where resources are saved and reused.

AZENGAR 3R has the lowest embodied energy and carbon footprint of rolled zinc products on the market, with 0.7 kg CO₂ for the production and end of life of 1 kg (*).

*IBU AZENGAR 3R EPD-VMZ-20250162-IBA1-EN VM BUILDING SOLUTIONS.

A sustainable future starts today

At VMZINC®, we believe that everyone has a role to play in protecting our planet.

That's why we're introducing a take-back guarantee with AZENGAR® 3R, so that not a single piece of zinc goes to waste. We recover the used material and give it a new life – a true circular solution.

Whether you're an architect or contractor looking to make sustainable choices, or a homeowner concerned about the future of our planet: with AZENGAR® 3R, you choose innovation, responsibility and aesthetics in a single material.

Together, let's build a world where sustainability is the norm. Discover today how, with AZENGAR® 3R, you can make a difference. For tomorrow.



Copyright & Architect: VIVA Architecture

Qualifications and reference documents

We remind you that the prescription of complete construction systems for in particular, they must ensure that the use of the products prescribed is appropriate to the structural purpose of the structure and compatible with the other products and techniques used. For this guide to be used properly, knowledge of VMZINC® zinc and the metal roofer trade. When starting work, it is necessary to adapt to all the standards in force in the country where the work will be carried out. VM Building Solutions organises training courses for professionals.

Surface appearance

The choice by a professional of a VMZINC product® adapted to a building's environment must take into any constraints of use depending on the surface aspect considered. Each surface aspect of zinc can change aesthetically over time, depending on the type environment (, strong UV exposure, snow, etc.) and the application (roofing, facade, rainwater drains, unrinsed surfaces). Traces may form on surfaces that not exposed to regular rinsing by rain or maintenance. These visible and long-lasting marks may alter aesthetic perception of the product. They do not constitute a deterioration of the material and no impact on its lifespan.

Warning: in areas directly exposed to marine environment, it is not advisable to apply zinc to parts of the building that have not been rinsed by rainwater or maintenance, as traces may form. These traces in no way alter the intrinsic qualities of zinc, and durability but create an aesthetic mess.

For all questions about VMZINC®

Contact the VM Building Solutions team



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