

**VMZINC**

Sustainable building



Centre for Academic Research, Cincinnati (USA) - Architects : Harley Ellis Devereaux and Studios Architecture - Photos : Scott Gilbertson - ravpixel.com/freepik

**VM BUILDINGSOLUTIONS**

# Sustainable building

VMZINC® solutions provide many advantages to meet the requirements of sustainable building references (HQE, LEED, BREEAM, etc.).

Solutions for the circular economy

## Durable

Thanks to its self-protective coating, VMZINC® rolled zinc has a lifespan of 80 to more than 100 years <sup>(1)</sup>.

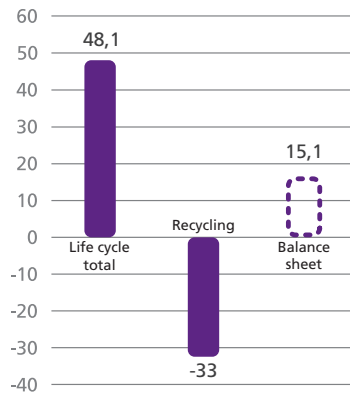
## Recyclable

Rolled zinc, which is 100 % recyclable through simple re-melting, has an actual recycling rate of à 98.9 % in France <sup>(2)</sup>.

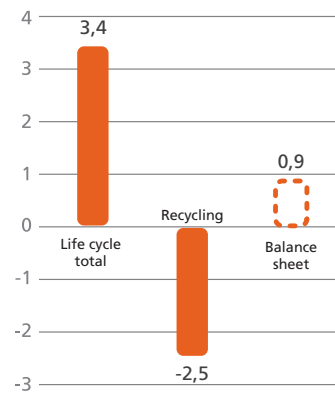
Buildings with rolled zinc envelopes therefore provide an urban zinc stock for future generations.

Solutions for positive energy and low carbon buildings

VMZINC® rolled zinc's "energy-carbon" balance sheet for its entire life cycle, including the benefits of recycling, undoubtedly makes it one of the most pertinent metals for positive energy and low carbon buildings <sup>(3)</sup>.



Energy balance sheet for 1 kg of VMZINC rolled zinc



Carbon footprint for 1 kg of VMZINC rolled zinc

Numerous Product Environmental Declarations

VMZINC® makes numerous Product Environmental Declarations (PEDs) available to its clients. These PEDs comply with the EN 15804 standard and are checked by a third party:

**FDES**  
for the HQE label



**IBU**  
Certificates for the LEED reference



**BRE**  
Environmental Profiles for the BREEAM method



All these PEDs are available in the "sustainable building" section on the vmzinc.fr website, and in dedicated public databases such as the INIES database in France for FDES.

(1) La durabilité du zinc laminé – UMICORE - 2004

(2) Recyclage du zinc laminé - I+C - VM Building Solutions, A3M, ADEME, CAPEB IDF, SNED - 2018

(3) IBU - NATURAL ROLLED ZINC – VMZINC - 2014

The advantages of VMZINC® solutions for sustainable building references

The advantages of VMZINC® solutions	HQE®	HQE™ Sustainable building for all*	LEED®	BREEAM®
<ul style="list-style-type: none"> <li>• Varied range of aspects and colours</li> <li>• Extensive choice of roofing and facade systems</li> <li>• SRI = 30 for VMZINC® natural rolled zinc.</li> </ul>	Target 1	Objective 8	«Sustainable site»	«Ecology»
<ul style="list-style-type: none"> <li>• Manufactured at ISO 14001 ISO 9001 certified sites</li> <li>• Durables (100 years)</li> <li>• Recyclables (100%)</li> <li>• Pre-consumers content = 33%, and post-consumers content = 21%</li> <li>• Very little cleaning or maintenance</li> <li>• SDS</li> <li>• FDES compliant with the NF EN 15804 standard and its national complement</li> <li>• IBU Certificates compliant with the EN 15804 standard</li> <li>• BRE Environmental Profiles leading to classification of VMZINC® solutions ranging from A to A+ in the Greenbook live</li> </ul>	Target 2	Objectives 4, 5, 7 and 8	«Materials and Resources»	«Materials»
<ul style="list-style-type: none"> <li>• Little or no off-cut when installed (&lt; 5%)</li> <li>• Off-cut 100% recyclable</li> <li>• No emissions into water, air or the ground during installation.</li> </ul>	Target 3	Objective 5	«Materials and Resources»	«Waste»
Compatibility of VMZINC® systems with the most effective and/or most specified high thickness insulation -> contributes to good thermal performance of the envelope.	Target 4	Objective 4	«Energy and atmosphere»	«Energy»
AFSSET test A+ Classification (Best in class) (evaluation of VOC emissions and formaldehyde) for PIGMENTO® and STRAT® solutions, demonstrating the healthy nature of VMZINC® solutions.	Target 12	Objective 1	«Indoor Environmental Quality»	«Health & Well being»

\*HQE Sustainable building for all = new HQE benchmark of May 2015.

- SRI: Solar Reflectance Index
- Pre-consumers: Waste generated during the product manufacturing phase, prior to the product fulfilling the purpose for which it was designed
- Post-consumers: Waste generated after the product use phase, during which the product fulfilled the purpose for which it was designed
- SDS: Safety Data Sheet
- FDES: Fiche de Données Environnementales et Sanitaires - Environmental and Sanitary Data Factsheet
- IBU certificate: Certificate issued by the Bauen und Umwelt Institute
- BRE Environmental Profile: environmental profiles issued by the British Research Establishment
- AFFSET: Agence Française de Sécurité Sanitaire de l'Environnement et du Travail - French Agency for Environmental and Workplace Health and Safety



**VM Building Solutions**  
Tours les Mercuriales  
40, rue Jean Jaurès - CS 20084  
93176 Bagnolet cedex  
Tel. : 01 49 72 42 42

info@vmbuildingsolutions.com  
www.vmbuildingsolutions.com

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