

**VM ZINC®**  
**A DIFFERENT WAY TO LOOK  
AT ZINC**

**Meet us at Batimat  
Hall 1 - Aisle G - Stand 54**

From November 7th to 12th 2005  
Parc des Expositions  
Portes de Versailles (Paris)

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A Umicore brand





# VM ZINC®

## The innovation is colour

Batimat 2005... a vintage year for Zinc!

An opportunity to preview new products and technical innovations on the stand. They bring a new modernity to this noble material, providing more inspiration for architects, easier installation for roofers and ever better performance:

- PIGMENTO® pre-weathered zinc colours your world,
- Butyl-Aluminium - a new acoustic system - arrives,
- New insulation thicknesses make their debut in VM ZINC® Structural Roofing,
- A full range of zinc and lead ridge caps and accessories add the finishing touch to all tile roofs,
- A 90° laser welded bend combines aesthetics and strength.

### PIGMENTO®

## A different way to look at zinc

Zinc is naturally grey. Today, VM ZINC is branching out with new colours. Facades and roofs are taking on red, green and blue shades, opening up new horizons for architectural creation.

PIGMENTO® is... constantly changing reflections, which play with light, the environment and volumes. Zinc blends perfectly with regional specificities and can be combined with other coloured materials (tiles, bricks, etc.).

The textured aspect of the pre-weathered zinc shows through the colour, just as the grain in wood is visible through its coat of varnish. Thus, the zinc retains its essential character

Audacious and attractive, PIGMENTO® pre-weathered zinc combines quality and durability, aesthetics and the avant-garde. Emotion and tradition are expressed in contemporary, personalised architecture.

**Application :**

- All types of buildings
- All standing seam roof shapes with a slope of  $\geq 5\%$
- All types of facades in standing seam, interlocking panel, flat-lock panel, sine wave profile and cassettes.

**Colours :** PIGMENTO® autumn red / PIGMENTO® lichen green / PIGMENTO® ash blue

**Thickness:** 0.7 mm / 1 mm / 1.50 mm

**Widths:** 500 mm / 600 mm / 650 mm / 670 mm / 1,000 mm

**Packaging:** Sheets (500 kg pallet) and small coils (6 x 100 kg pallet) for profiling or preformed sheets on request

## Butyl-Aluminium Compound New acoustic VM ZINC® system

This compound reduces the noise generated by the impact of rain thanks to the strip of Butyl- Aluminium compound glued to the underside of the zinc. There is a 10 dB(A) acoustical gain, that is, a 21% reduction in the average sound level and a 50% reduction in sound as perceived by the human ear.

- Practical system for installation stages: 200 mm wide Butyl-Aluminium strip adheres to the underside except in joint areas; easy to cut and remove for flashing.
- Adaptability: versatile solution can be used on all buildings, all roof slopes (3 to 60°), all shapes (flat, curved or conical) and for cold or warm standing seam roofs.
- Tailor-made sheets, an exclusive VM ZINC service.

## VM ZINC® Structural roofing

### New thicknesses

VM ZINC has been developing its warm roof construction system for buildings with low to intermittent high hygrometry in anticipation of the new RT 2005 thermal regulations.

- This system combines a VM ZINC PLUS standing seam roof with adjustable thickness rock wool insulation on a substructure (steel, wood or concrete). The structural roof can be installed on all slopes (3 to 60°) of all shapes (flat, curved or conical).
- A full range of fixing accessories allows the VM ZINC® Structural Roof to adapt to any insulation thickness, from 50 to 180 mm: without any intermediate profiles, without cutting the insulation and with minimised thermal bridging.
- Avis Technique (Technical notice Fr.) n°5/02-1632

## New VM ZINC zinc and lead ridge caps and accessories

A collection that caps and ventilates all tile roofs - Perfect pleats

This completely redesigned line has expanded to meet the expectations of roofers and the regions:

- Available in 21 combinations, the VM ZINC ridge cap - 3 widths of lead (90 / 120 / 140 mm) and 4 colours (brick, rose, brown and natural lead) - covers all roof configurations without exception (VM ZINC ridge cap on the market in the 1st half of 2006 - flashing strips and wall flashing later).
- Robust materials: 100% zinc, 100% lead, skirt 100% resistant to lifting.
- Performance: ventilation of 100 sq. cm per linear metre of ridge and perfect watertightness of wall flashing.
- Lead skirt - Cleverly sewn and pleated - provides greater resistance, is easier to mould to the tiles and is completely watertight.
- Easy to install: ridge cap skirt packed more compactly and lead easier to mould.

## The new 90° bend Robust and aesthetic

This one-piece bend is laser welded for stronger and more aesthetic downpipes.

### **Universal application:**

- All types of work: new or renovation
- All types of junctions: direct or swivelling
- All types of pipe: conical or cylindrical
- All dimensions: 80 mm diameter available immediately, 100 mm diameter available in the 1st half of 2006

This range is available in Natural VM ZINC, QUART-ZINC® and ANTHRA-ZINC®.

## Kicking off the second edition of the TROPHEE ARCHIZINC by FOCUS ON ZINC

Intended for French and international architects, this Trophy continues the adventure begun two years ago to highlight architects' creations and reward the best projects in VM ZINC® by featuring them in the architectural magazine, FOCUS ON ZINC.

There are four building categories: Collective Housing, Individual Housing, Public Buildings and Commercial Buildings.

The registration files - inserted in the July 2005 edition of FOCUS ON ZINC - will be available on the VM ZINC stand at Batimat: Hall 1 - Aisle G - Stand 54.

All registration materials must be received before December 31 2005.  
A jury of professionals will meet in February 2006 to judge the entries.

The "Trophées" and three Special Prizes for "Innovation", "Tradition" and "Sustainable Development" will be awarded at an official ceremony in May 2006.  
The prize-winning creations will be published in a Special Issue of FOCUS ON ZINC in September 2006. With 80,000 copies distributed in over 10 countries, both architecture and material will be displayed to their full advantage. A real opportunity for the prizewinners to present their philosophy of architecture to the world.

### Composition of the jury :

**Dominique Boudet**, journalist and consultant with the "Le Moniteur" group, Chairman of the ARCHIZINC Trophy Jury.

**Frédéric Borel**, architect - Paris.

**Jean-Pol Borremans**, Past Chairman of the board of the Belgian Conseil National de l'Ordre des Architectes.

**Gilles de Mont-Marin**, architect DPLG, Deputy Director SEMAPA (SEM Aménagement de Paris).

**Lluís Dilmé**, architect, Estudi Dilmé & Fabrè architectural office in Spain.

**Lionel Dunet**, architect DESA, member of the French national board of the Ordre des Architectes, France.

**Jacques Fazilleau**, engineer, graduate of the Ecole centrale de Paris, Chairman and Managing Director of the Société GEC, member of the board (building), SYNTEC Ingénierie, Treasurer of the OPQIBI.

**Dimitris Kontargyris**, architectural engineer, NTUA (National Technical University of Athens) in Greece.

**Simone Kosremelli**, architect MDUP (Masters Degree in Urban Planning) Columbia University, New York, member of the Order of Architects, Lebanon.

**Tomasz Markowski**, architect, owner of ECT - The Architect Company - in Poland.

**Dirk Jan Postel**, architect, Head of the Kraaijvanger Urbis architectural office in the Netherlands.

**Anick Schooner**, architect, member of the Ordre des Architectes, Québec and the Ontario Association of Architects, Canada.

# Close up on Zinc

VM ZINC® skilfully combines the essential tools for architectural creation. Its wide range of products offers distinctive and original surface aspects. This warm, luminous, highly expressive material responds freely to the play of light, its colours shifting to reflect the changing hues of the sky. The material inspires and desires transformation in the workshop or on the building site.

- **Natural VM ZINC** has a slightly shiny metallic aspect initially. It develops its semi-matte light grey patina within six months to two years depending on its environment and the location of the building.

- Pre-weathered zinc products have a patina on installation.

QUARTZ-ZINC® is a pre-weathered zinc with a velvet grey aspect close to the aspect of Natural VM ZINC after it has been exposed for several years on a roof. It is especially popular for renovations where it merges with older zinc. It is often used on facades or roof undersides where the patina takes longer to form.

- ANTHRA-ZINC® NG is a slate grey pre-weathered zinc which blends perfectly with slate with which is often combined.

- In 2006, an innovative addition to the range, PIGMENTO® coloured zinc will join the VM ZINC® range (See New Products section).

- Bilacquered VM ZINC is obtained by applying a polyester lacquer.

It is available in six colours: stone white, tile brown, copper green, macao brown, slate grey, sky blue. It provides truly aesthetic solutions for contemporary projects and can easily be combined with other materials. Scratches do not cause scaling or rust marks. The zinc exposed in this way protects itself by forming its natural patina.

The qualities of VM ZINC are the foundation of architectural expression:

## ■ Aesthetics

VM ZINC® is available in 12 surface aspects. Because of its mechanical and aesthetic flexibility it lends itself to the creation of an often original, sometimes unexpected, but always happy marriage with other materials: wood, brick, cement, glass, etc.

### ■ Malleability

Architects have unlimited creativity. The material is applied in strips and can therefore adopt any shape. It can be bent to fit curves with low radiuses and form complex shapes which are difficult to realise with other materials.

### ■ Optimum Investment

One of the remarkable qualities of zinc is its durability. The metal stands up to the test of time because of its exceptional resistance to corrosion. Zinc protects itself by developing a patina. It requires no maintenance. Because of the properties of the metal it lasts for up to 40 years in an aggressive urban environment and up to 100 years in a protected rural environment.

### ■ Easy to specify

Zinc can be laid on slopes from 5%, to vertical. It allows a varied range of construction layouts and the management of complex details which are impossible to realise with other materials.

It adapts to local professional particularities and to regulation or comfort requirements specific to each building.

### ■ Natural and recyclable

Zinc is a natural material which can be recycled indefinitely, to the advantage of all the actors in its life cycle. It contributes to the environmental performance of buildings and is favourably situated with regard to several of the HQE® (High Environmental Quality) approach.

At the design and construction stages and throughout the lifetime of a building (Eco-Construction / Management), zinc contributes to:

- The harmonious integration of the building into its immediate environment (target 1),
- Limiting the impacts of the building on its external environment and improving its adaptability and durability (target 2),
- Reducing building site pollution (target 3) in particular, site waste, noise and dust pollution.
- VM ZINC systems can adapt endlessly to the requirements of thermal regulations (target 4) and are perfectly compatible with rainwater reuse systems (target 5).

During the building's lifetime, zinc optimises its users' comfort by contributing to their hygrometric (target 8) and acoustic comfort (target 9).

To learn more about zinc and the environment: the new CD-ROM, "VM ZINC® , an environmentally friendly solution for the building industry" is available on request at Batimat.

A traditional metal, zinc has long since convinced roofers of its advantages. Today architects and owners demonstrate their attachment to the material. Their enthusiasm is expressed in the application of zinc to all the functions of a building and in the adaptation of the material to all architectural styles.

The architect can now see his projects taking form in the expert hands of the roofer who transforms the zinc. The building envelope comes into being, light and contrasting shadows play with one another. Zinc asserts itself...

## VM ZINC® partner supplier

VM ZINC® considers itself to be the guarantor of perfect quality zinc, from production plant to installation on the building site. This high standard of quality is ensured at all times by experienced professionals throughout the technical and sales chain.

Before, during and after purchase, all the brand's services are available to owners, architects, design offices, contractors and zinc roofers.

### **Design Assistance Office for specifiers:**

Made up of architects and draughtsmen its mission is to:

- carry out feasibility analyses with 3-D models,
- develop specifications for buildings in zinc,
- design working drawings and detailed plans for the installation of zinc,
- establish a cost approach and quantity estimate for tailor-made products for complex shapes,
- study and develop innovative ideas.

### **Technical Assistance to contractors:**

The technicians based at Bagnolet or in the regions, are busy every day: they manage the typical situations encountered in the field reliably and quickly. They:

- provide information on the products in the catalogue,
- provide material on the installation of VM ZINC,
- advise contractors at the start of a project,

- provide information on the regional distribution network,
- offer the rental of high-performance building site machines,
- carry out studies for simple tailor-made Roll Cap and Standing Seam solutions.

#### **PRO-ZINC courses:**

These training modules are designed to help perpetuate the profession of zinc roofer.

This programme is aimed at professionals and offers training courses in roof, facade, rainwater evacuation systems and ornamentation installation techniques for VM ZINC.

These courses are given at the PRO-ZINC training centre or in professional secondary schools, CFA, in the company or on the building site... in real life working conditions with life-size mock-ups.

The Claims Department is available to support any expertise, in the event of problems arising after installation or within the framework of the ten-year guarantee.

**Because of its comprehensive, reliable and innovative solutions, VM ZINC® is an indispensable partner for building professionals.**

# VM ZINC®

## Our story

VM ZINC® is the international brand of rolled zinc products made and sold by the Building Products Unit of the international Umicore Group, specialised in metals and materials.

Present in over 30 countries, Umicore has five sectors of activity: Precious Metals - Services, Precious Metals - Products and Catalysts, Advanced Materials, Zinc and Copper.

VM ZINC® has been known by roofers in France for over 160 years under its old name of "Vieille Montagne".

The activities of VM ZINC®, all ISO 9001 certified since February 1998 are divided among three production sites in France: Auby (51) - Viviez (12) - Bray-et-Lû (95) and an administrative site in Bagnolet (93).

In France, the sheets, coils, small coils, roofing or cladding components, rainwater evacuation accessories and the flashing, ventilation and waterproofing range are distributed through a network of 250 selected VM ZINC® centres.

This exclusive distribution system is one of the strategic choices of the brand. In order to guarantee a perfect quality of zinc, the company ensures the competence of its services through experienced professionals.

Since August 2000, the Ateliers d'Art Français have become the Umicore Group's ornamentation brand. Heirs to a secular tradition, ornamental metal workers (since 1839) contribute their services to our architectural heritage. Their philosophy is to develop the quality of a unique craft.

Shaped, stamped, assembled and often hand soldered, the large ornaments are manufactured according to plans, drawings or old models, the reproductions of which the Ateliers d'Art Français keeps in its archives. Weathervanes, weathercocks, rooftop finials, balustrades, bull's eye windows, campaniles... can be designed to the customer's specifications.