This brochure shows a variety of VMZINC® panel shapes and profiles proposed by Umicore Building Products, the makers of VMZINC. This is a comprehensive overview of zinc wall and roof systems.

These systems and products are engineered by the manufacturer, providing a complete set of design options that address: scale, texture, performance and price requirements.

Further necessary information on zinc in architecture, such as colors, technical and environmental data is available on www.vmzinc-us.com. CAD details, drawings, Sketch-Up models, specifications, and installation guides are also downloadable.

Tailored solutions with VMZINC are available upon request.

Umicore Building Products USA, Inc.
3600 Glenwood Avenue
Suite 250
Raleigh NC 27612

Telephone: 919.874.7173
Fax: 919.874.7140
Website: www.vmzinc-us.com
Email: info@vmzinc-us.com
Blog: www.ZINCsense.com
VMZ COMPOSITE MATERIAL ZCM

Maximum Sheet Dimensions
QUARTZ-ZINC
146” L x 48” W
ANTHRA-ZINC
146” L x 38” W

Minimum Sheet Radius
1.5” Pre-formed

Sheet Thickness
4mm, 6mm

Sheet Weight per ft²
4mm with 0.5 skin: 2.57 lb
6mm with 0.5 skin: 3.15 lb
4mm with 0.7 skin: 2.93 lb
6mm with 0.7 skin: 3.60 lb

Please visit www.alpolic-nothamerica.com for more information.

DRI-DESIGN® WALL CASSETTE

Maximum Dimensions
On Center
QUARTZ-ZINC & ANTHRA-ZINC
10’ - 0” L x 24” W
30” x 30”

On Center
PIGMENTO
6’ - 0” L x 24” W
24” x 24”

Reveal
5/8” - 1”

Material Thickness
.8mm, 1mm, 1.5mm

Weight Per Panel
Under 3 lb per ft²

This product is available through Dri-Design. Please visit www.dri-design.com for more information.
VMZ INTERLOCKING WALL PANEL

**Material**

Colors: ANTHRA-ZINC®, QUARTZ-ZINC®, PIGMENTO® Blue, PIGMENTO® Red, PIGMENTO® Green

**Maximum Dimensions**

Horizontal Orientation
- 20’ - 0” L

Vertical Orientation
- 12’ - 0” L

**On Center**

- 8”, 10”, 12”

**Reveals**

- 1/4”, 1/2”, 3/4”

**Minimum Radius**

Convex
- R1 100’ field
- R2 10’ field*

Concave
- 100’ field
- 10’ field*

*Only for panels with no end folds

**Panels per Crate**

- With No End Folds: 50
- With End Folds: 26

**Coverage**

- Per LF
- CC x LF

**Thickness**

1mm

**Weight per ft² installed**

~2.00 lb for 12” OC Panels

---

VMZ FL CASSETTE WALL PANEL

**Material**

Colors: ANTHRA-ZINC®, QUARTZ-ZINC®, PIGMENTO® Blue, PIGMENTO® Green

**Maximum Dimensions**

Horizontal Orientation
- 20’ - 0” L

Vertical Orientation
- 12’ - 0” L

**On Center**

- 8”, 10”, 12”

**Reveals**

- 3/4”

**Radius**

Convex
- R1 100’ field
- R2 10’ field*

Concave
- 100’ field
- 10’ field*

*Only for panels with no end folds

**Panels per Crate**

- With No End Folds: 50
- With End Folds: 26

**Coverage**

- Per LF
- CC x LF

**Thickness**

1mm

**Weight per ft² installed**

~2.00 lb for 12” OC Panels

---

ASTM TESTED
HORIZONTAL & VERTICAL
PANEL END FOLDS ON REQUEST
PERFORATED PANELS ON REQUEST

**Horizontal & Vertical Concealed Fasteners**

**Greatest pull out resistance.**

**Economical.**
VMZ CORRA-LOK WALL PANEL

Material
Colors:

VMZ METAFOR WALL PANEL

Material
Colors:
**VMZ CORRUGATED WALL PANEL**

- **Maximum Dimensions**
  - 10’ - 0” L

- **On Center**
  - QUARTZ-ZINC & ANTHRA-ZINC
  - 37 3/8” x 9’ - 6”
  - PIGMENTO
  - 29 3/8” x 9’ - 6”

- **Corrugation Dimensions**
  - 2.67” W x 7/8” H

- **Radius**
  - Convex
  - Concave
  - R1 120” pre-fab
  - R1 130’ field
  - R2 30” field

- **Panels per Crate**
  - 50

- **Coverage**
  - Per Installed 10’ Panel
    - 29.59 ft² (23.25 ft² for PIGMENTO)
  - Per Crate for Installed Panels
    - 1,479 ft² (1,162 ft² for PIGMENTO)

- **Thickness**
  - 1mm

- **Weight per ft² installed**
  - 2.00 lb (2.09 lb for PIGMENTO)

**VMZ FLAT LOCK WALL PANEL**

- **Maximum Dimensions**
  - On Center
    - Horizontal Orientation
      - 10’ - 0” L x 20” W
      - 10’ - 0” L x 16” W for PIGMENTO
    - Vertical Orientation
      - 6’ - 0” L x 20” W
      - 6’ - 0” L x 16” W for PIGMENTO

- **Radius**
  - Convex
  - Concave
  - R1 15’ field
  - R2 15’ field

- **Panels per Crate/Box**
  - 150

- **Coverage**
  - Per 16” x 36” Installed OC Panel
    - 4 ft²
  - Per Crate 16” x 36” Installed Panels
    - 600 ft²

- **Thickness**
  - 1mm

- **Weight per ft² installed**
  - ~2.00 lb for 16” x 36” OC Panels

---

**Material Colors:**

- QUARTZ-ZINC
- ANTHRA-ZINC
- PIGMENTO® Blue
- PIGMENTO® Red
- PIGMENTO® Green
1” VMZ SINGLE LOCK STANDING SEAM WALL PANEL

**Maximum Dimensions**
- **Horizontal Orientation**
  - 20’ - 0”
- **Vertical Orientation**
  - 15’ - 0”

**On Center**
- QUARTZ-ZINC & ANTHRA-ZINC
  - 20”
- PIGMENTO
  - 16 7/8”

**Seam**
- 1”

**Radius**
- Convex
- Concave
  - R1 48” pre-fab 130’ field
  - R1 30’ pre-fab 130’ field
  - R2 10’ field 10’ field

**Panels per Crate**
- 40

**Coverage**
- Per LF of Installed Panel
  - 1.66 ft² (1.4 ft² for PIGMENTO)

**Thickness**
- .8mm

**Weight per ft² installed**
- 1.35 lb for 20” OC Panels
- 1.38 lb for 16 7/8” OC Panels

VMZ DEXTER® WALL PANEL

**Dimensions**
- **On Center**
  - 32 7/8” L x 15 3/4” W

**Seam**
- 1 1/2”

**Panels per Box**
- 6

**Coverage**
- Per Installed Panel
  - 3.59 ft²
  - Per Box for Installed Panels
    - 21.5 ft²

**Thickness**
- .7mm

**Weight per ft² installed**
- 1.55 lb

ASTM TESTED
HORIZONTAL & VERTICAL CONCEALED FASTENERS

QUARTZ-ZINC & ANTHRA-ZINC
PIGMENTO

Quick installation.
Out of the box system.
An economical alternative to standing seam.

Vertical, horizontal, and diagonal installation.
VMZ ADEKA® WALL PANEL

Panel Dimensions
- On Center
  - Horizontal: 22 1/16”
  - Vertical: 16 1/16”
- Radius
  - Convex: 33’
  - Concave: N/A

Panels per Box
- 24

Coverage
- Per Installed Panel: 1.22 ft²
- Per Box for Installed Panels: 29.28 ft²

Thickness
- .65mm

Weight per ft² installed
- 1.4 lb

Material Colors:
- QUARTZ-ZINC®
- ANTHRA-ZINC®
- PIGMENTO® Blue
- PIGMENTO® Red
- PIGMENTO® Green

Quick installation. Economical textured look.

VMZ FLAT LOCK DIAMOND WALL PANEL

Maximum Dimensions
- On Center
  - 28” Vertical x 28” Horizontal

Radius
- Convex: 15’ field
- Concave: 15’ field

Panels per Crate
- 150

Coverage
- Per 28” x 28” OC Panel: 5.4 ft²
- Per Crate 28”x 28” Installed Panels: 810 ft²

Thickness
- 1mm

Weight per ft² installed
- ~1.9 lb

Material Colors:
- QUARTZ-ZINC®
- ANTHRA-ZINC®
- PIGMENTO® Blue
- PIGMENTO® Red
- PIGMENTO® Green

A classic look.
**1” VMZ DOUBLE LOCK STANDING SEAM ROOF PANEL**

**Maximum Dimensions**
48” - 0”

**On Center**
QUARTZ-ZINC & ANTRA-ZINC
20”

**Material Colors:**
- QUARTZ-ZINC®
- ANTRA-ZINC®
- PIGMENTO® Blue
- PIGMENTO® Red
- PIGMENTO® Green

**PIGMENTO™**
16 7/8”

**Seam**
1”

**Radius**
Convex Concave
R1 48” pre-fab 130’ field
R1 30’ field 130’ field
R2 10’ field 10’ field

**Panels per Crate**
40

**Coverage**
Per LF of Installed Panel
1.66 ft² (1.4 ft² for PIGMENTO)

**Thickness**
0.7mm

**Weight per ft² installed**
1.17 lb for 20” OC Panels
1.20 lb for 16 7/8” OC Panels

**A time proven system.**

**1.5” VMZ DOUBLE LOCK STANDING SEAM ROOF PANEL**

**Maximum Dimensions**
48” - 0”

**On Center**
QUARTZ-ZINC & ANTRA-ZINC
20”

**Material Colors:**
- QUARTZ-ZINC®
- ANTRA-ZINC®
- PIGMENTO®

**PIGMENTO™**
15 7/8”

**Seam**
1.5”

**Radius**
Convex Concave
R1 72” pre-fab 130’ field
R1 40’ field 130’ field
R2 10’ field 10’ field

**Panels per Crate**
30

**Coverage**
Per LF of Installed Panel
1.66 ft²

**Thickness**
0.7mm

**Weight per ft² installed**
1.23 lb for 20” OC Panels
1.28 lb for 15 7/8” OC Panels

**Recommended for snowy climates.**
**VMZ DEXTER® ROOF PANEL**

**Material Colors:**
- QUARTZ-ZINC®
- ANTHRA-ZINC®
- PIGMENTO® Blue
- PIGMENTO® Red
- PIGMENTO® Green

**Dimensions**
- On Center: 32 7/8” L x 15 3/4” W

**Seam**
- 1 1/2”

**Panels per Box**
- 6

**Coverage**
- Per Installed Panel: 3.59 ft²
- Per Box for Installed Panels: 21.5 ft²

**Thickness**
- .7mm

**Weight per ft² installed**
- 1.55 lb


---

**VMZ ADEKA® ROOF PANEL**

**Panel Dimensions**
- On Center:
  - Horizontal: 22 1/16”
  - Vertical: 16 1/16”

**Radius**
- Convex: 33’
- Concave: N/A

**Panels per Box**
- 24

**Coverage**
- Per Installed Panel: 1.22 ft²
- Per Box for Installed Panels: 29.28 ft²

**Thickness**
- .65mm

**Weight per ft² installed**
- 1.4 lb

Quick and easy installation for an economical tile look.
This product is available through Ornametals.
Please visit [www.ornametals.com](http://www.ornametals.com) for more information.

### HALF ROUND GUTTER

<table>
<thead>
<tr>
<th>Size</th>
<th>5” (280mm)</th>
<th>6” (333mm)</th>
<th>7” (400mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauge</td>
<td>.7mm</td>
<td>.7mm</td>
<td>.7mm</td>
</tr>
<tr>
<td>Length</td>
<td>18’ (5.5m)</td>
<td>18’ (5.5m)</td>
<td>18’ (5.5m)</td>
</tr>
</tbody>
</table>

### DOWNSPOUT

<table>
<thead>
<tr>
<th>Size</th>
<th>3.1” (80mm)</th>
<th>4” (100mm)</th>
<th>4.7” (120mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gauge</td>
<td>.7mm</td>
<td>.7mm</td>
<td>.7mm</td>
</tr>
<tr>
<td>Length</td>
<td>9’ - 10” (3m)</td>
<td>9’ - 10” (3m)</td>
<td>9’ - 10” (3m)</td>
</tr>
</tbody>
</table>
**COMPASS WEATHER VANE**

**Height:**
- 19.69” (50 cm)
- 31.50” (80 cm)
- 39.37” (100 cm)

For a small fee all weather vanes can be modified to fit your specific roof pitch. Shafts can be modified to four, six or eight sides.

Anchors and custom finials are also available.

This product is available through Ornametals. Please visit [www.ornametals.com](http://www.ornametals.com) for more information.

---

**DORMER**

**Height:**
- 66.93” (170 cm)

**Width:**
- 51.18” (130)

**Diameter:**
- 19.69” (50 cm)

Dormers are perfect for period home restoration or new home construction. Dormer 2 is made of .8 - 1mm grade metal.

Dormer vents also available.

This product is available through Ornametals. Please visit [www.ornametals.com](http://www.ornametals.com) for more information.
VMZINC products sold in North America meet the ASTM B69-11 norm for Architectural zinc type 1

**DIMENSIONS AND PERMISSIBLE VARIATIONS**

8.1 Thickness - The permissible variations in thickness of rolled zinc shall be as specified in Table 3, along the length of the coil shall be made within 12 in. (305 mm) of each other, nor shall measurement in any one line across the width of the coil be used as a basis of rejection.

8.2 Width - The permissible variations in width of all types of rolled zinc shall be as specified in Table 4.

8.3 Length - The permissible variations in length in all types of rolled zinc shall be as follows: sheets, strips, and plates may be ordered to exact lengths with the following variations in length permitted, +0.125 in. (3.2 mm), or to a tolerance range agreed to by buyer and seller. For Architectural Rolled Zinc (ZXXXXX), the permissible variation in length is +0.2 in. (±5 mm).

8.4 Slidewise Bend and Curvature (Camber) - Type I rolled zinc in length over 10 ft (3048 mm) shall not exhibit sidewise bend or curvature in excess of 1 in. (25.4 mm) in any length of 10 ft, or to a tolerance range agreed to by buyer and seller.

**CHEMICAL COMPOSITION OF ROLLED ZINC ALLOYS**

<table>
<thead>
<tr>
<th>Alloy (UNS)</th>
<th>Cu</th>
<th>Pb</th>
<th>Fe</th>
<th>Cd</th>
<th>Ti</th>
<th>Al</th>
<th>Sn</th>
<th>Mn</th>
<th>Mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural Rolled</td>
<td>0.08 to 0.20</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>0.07 to 0.12</td>
<td>0.001 to 0.015</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Zinc Type 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Zinc: balance by difference. The total of Pb, Fe, Sn, Mn, and Mg must not exceed 0.005% max.

**MECHANICAL PROPERTIES OF ROLLED ZINC ALLOYS**

| Alloy (UNS)            | Tensile Strength | Elongation | Hardness
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural Rolled</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc Type 1</td>
<td>14 - 38 ksi</td>
<td>10 - 70 %</td>
<td>54 - 74 HR15T</td>
</tr>
</tbody>
</table>

**TABLE 3 PERMISSIBLE VARIATIONS IN THICKNESS OF ROLLED ZINC**

<table>
<thead>
<tr>
<th>Thickness, in. (mm)</th>
<th>Tolerance, in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.009 (0.229 and under)</td>
<td>10 % of thickness</td>
</tr>
<tr>
<td>0.010-0.030 (0.254 to 0.762)</td>
<td>± 0.001 (0.0254)</td>
</tr>
<tr>
<td>0.031-0.060 (0.787 to 1.524)</td>
<td>± 0.002 (0.0508)</td>
</tr>
<tr>
<td>0.061-0.090 (1.549 to 2.286)</td>
<td>± 0.003 (0.0762)</td>
</tr>
<tr>
<td>0.091-0.125 (2.311 to 3.175)</td>
<td>± 0.004 (0.1016)</td>
</tr>
<tr>
<td>0.126 and above (3.200 and above)</td>
<td>± 0.007 (0.1270)</td>
</tr>
</tbody>
</table>

**TABLE 4 PERMISSIBLE VARIATIONS IN WIDTH**

<table>
<thead>
<tr>
<th>Width Form</th>
<th>Tolerance, in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slit widths</td>
<td>± 0.010 (0.254)</td>
</tr>
<tr>
<td>Sheared widths</td>
<td>± 0.062 (1.575) Type I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gauge</th>
<th>Millimeters</th>
<th>Inches</th>
<th>lbs / ft²</th>
<th>ft² (39.4” x 10’ Sheet)</th>
<th>lbs (39.4” x 10’ Sheet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>0.7</td>
<td>0.027</td>
<td>1.03</td>
<td>32.81</td>
<td>33.79</td>
</tr>
<tr>
<td>22</td>
<td>0.8</td>
<td>0.031</td>
<td>1.18</td>
<td>32.81</td>
<td>38.71</td>
</tr>
<tr>
<td>20</td>
<td>1.0</td>
<td>0.039</td>
<td>1.48</td>
<td>32.81</td>
<td>48.56</td>
</tr>
<tr>
<td>16</td>
<td>1.5</td>
<td>0.059</td>
<td>2.21</td>
<td>32.81</td>
<td>72.51</td>
</tr>
</tbody>
</table>

**STRETCH OUT MATRIX**

<table>
<thead>
<tr>
<th>Unit</th>
<th>7</th>
<th>6</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.4 in</td>
<td>5.5/8</td>
<td>6.9/16</td>
<td>7.7/8</td>
<td>9.7/8</td>
<td>13.1/8</td>
<td>19.11/16</td>
</tr>
<tr>
<td>1 meter</td>
<td>143</td>
<td>166</td>
<td>200</td>
<td>250</td>
<td>333</td>
<td>500</td>
</tr>
<tr>
<td>48 in</td>
<td>6.55/64</td>
<td>8</td>
<td>9.19/32</td>
<td>12</td>
<td>16</td>
<td>24</td>
</tr>
<tr>
<td>48,000 in</td>
<td>6.857</td>
<td>8</td>
<td>9.6</td>
<td>12</td>
<td>16</td>
<td>24</td>
</tr>
<tr>
<td>1.219 meter</td>
<td>174</td>
<td>203</td>
<td>244</td>
<td>305</td>
<td>406</td>
<td>610</td>
</tr>
</tbody>
</table>

**RECOMMENDED SUBSTRATES FOR VMZINC PANELS (Non Perforated)**

<table>
<thead>
<tr>
<th>Material</th>
<th>Inland Climate</th>
<th>Marine Climate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum (painted, anodized, bare)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Galvanized Steel</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Painted Steel</td>
<td>YES (1)</td>
<td>NO</td>
</tr>
<tr>
<td>Painted Galvanized Steel</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Stainless Steel 304</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Stainless Steel 316</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

**RECOMMENDED SUBSTRATES FOR VMZINC PERFORATED PANELS**

<table>
<thead>
<tr>
<th>Material</th>
<th>Panels used for mechanical screens on roof tops</th>
<th>Perforated panels for main walls (windows, etc...)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inland Climate</td>
<td>Marine Climate</td>
</tr>
<tr>
<td>Aluminum (painted, anodized, bare)</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Galvanized Steel</td>
<td>YES (2)</td>
<td>NO</td>
</tr>
<tr>
<td>Painted Steel</td>
<td>YES (1)</td>
<td>NO</td>
</tr>
<tr>
<td>Painted Galvanized Steel</td>
<td>YES (2)</td>
<td>NO</td>
</tr>
<tr>
<td>Stainless Steel 304</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Stainless Steel 316</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

(1) Stainless steel washer needed to separate zinc from painted steel substrate  
(2) Limited lifespan, for better results use a different substrate

**VMZ COMPOSITE MATERIAL ZCM**

*Do NOT mix lots on the same elevation*

Umicore Building Products does not endorse, recommend, not support in any way the use of bimetallic composite material. Due to differing rates of thermal expansion use of dissimilar metals may result in deformation of the panel face.

Custom lengths, from 72” to 288”, available upon request. Call ALPOLIC® Customer Service for additional information 1-800-422-7270 www.alpolic-northamerica.com

Extrusion: Please consult composite material fabricator; Aluminum extrusions shall be electrolytically isolated from VMZ-CM. Class 1 anodizing is the preferred method.

Sealants and adhesives - Please consult composite material fabricator. VMZINC® approved sealants: DOW 795, SIKA IA, Pecora 890
<table>
<thead>
<tr>
<th>Fractions</th>
<th>Decimals</th>
<th>Millimeters</th>
<th>Fractions</th>
<th>Decimals</th>
<th>Millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/64</td>
<td>0.0156</td>
<td>0.396</td>
<td>33/64</td>
<td>0.5156</td>
<td>13.096</td>
</tr>
<tr>
<td>1/32</td>
<td>0.0312</td>
<td>0.793</td>
<td>17/32</td>
<td>0.5312</td>
<td>13.493</td>
</tr>
<tr>
<td>3/64</td>
<td>0.0468</td>
<td>1.190</td>
<td>35/64</td>
<td>0.5468</td>
<td>13.890</td>
</tr>
<tr>
<td>1/16</td>
<td>0.0625</td>
<td>1.587</td>
<td>9/16</td>
<td>0.5625</td>
<td>14.287</td>
</tr>
<tr>
<td>5/64</td>
<td>0.0781</td>
<td>1.984</td>
<td>37/64</td>
<td>0.5781</td>
<td>14.684</td>
</tr>
<tr>
<td>3/32</td>
<td>0.0937</td>
<td>2.381</td>
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