Vertigo 5010

Hybrid Aluminum/WPC Cladding/Soffit Datasheet

**Technical Information may change without warning.**
*Please ensure you that you reference our latest as shown on our website at www.geolaminc.com*

<table>
<thead>
<tr>
<th><strong>Thickness</strong></th>
<th>1/2 in</th>
<th>13 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total width</strong></td>
<td>7 1/4 in</td>
<td>184 mm</td>
</tr>
<tr>
<td><strong>Usable width</strong></td>
<td>6 1/4 in</td>
<td>160 mm</td>
</tr>
<tr>
<td><strong>Section tolerances in mm</strong>:</td>
<td>+ 0.5 / - 2.0</td>
<td></td>
</tr>
<tr>
<td><strong>Fire rating</strong>:</td>
<td>On request before order</td>
<td></td>
</tr>
<tr>
<td><strong>Surfaces finish</strong>:</td>
<td>Sanded</td>
<td></td>
</tr>
<tr>
<td><strong>Profiles fastening and installation</strong>:</td>
<td>Check our website <a href="http://www.geolaminc.com">www.geolaminc.com</a></td>
<td></td>
</tr>
<tr>
<td><strong>Standard length</strong>:</td>
<td>12 ft</td>
<td>3.66 m</td>
</tr>
<tr>
<td><strong>Or order custom lengths from</strong>:</td>
<td>7 ft to 19 ft 8 in</td>
<td>2.15 m to 6 m</td>
</tr>
<tr>
<td><strong>Weight</strong>:</td>
<td>0.80 lb/ft</td>
<td>1.19 kg/m</td>
</tr>
</tbody>
</table>

| **Secondary moment lx (cm⁴)**: | 0.56 |
| **Secondary moment ly (cm⁴)**: | 122.03 |
| **Section modulus Z+x (cm³)**: | 0.68 |
| **Section modulus Z-x (cm³)**: | 0.68 |
| **Section modulus Z+y (cm³)**: | 13.47 |
| **Section modulus Z-y (cm³)**: | 13.47 |
| **Core in anodized aluminum alloy**: | A6063S-T5 Serie 6000 |
| **Coefficient of Thermal Expansion (20-100°C)**: | 23.4 μm/m/°C |
| **Modulus of Elasticity**: | 68.9 GPa |
| **Max Tensile Strength**: | 186 Mpa |
| **Carbon Footprint**: |  |
| WPC : | 1.54 kg CO₂/Kg |
| Profile : | 9.005 kg CO₂/Kg |

Generator: 0.30 lb/ft² | 0.49 kg/m²

Sanding finish and/or shading may vary between runs.

### Standard Colors - Minimum 5,000 ft for all colors

- Teak
- Moleskin
- Rosewood
- Ebony

### Non-Standard Colors - 90 day lead time - Minimum order 5,000 ft.

- Ivory
- Blackwood
- Blinga

### Custom Colors Available - Minimum order 6,000 ft.
1. Weeping of condensation and air circulation are essential to the health of building products. Although the boards can be mounted directly onto the wall or substrate, it is good building practice to install a drainage plane and mount onto that. Do not seal the top nor bottom of the wall to allow for drainage and air circulation.

2. Geolam boards can be mounted horizontally, vertically, or diagonally directly onto the wall, over a code-compliant water resistive barrier and drainage plane.

3. Boards may be ripped (cut along their length) as needed.

4. If mounted on furring strips, you may wish to insert stainless steel wool or any other durable breathable product at both the top and bottom of the wall to prevent insect nesting. Do not compress, please do so loosely so as to allow drainage and air circulation.

5. Recommended screws are stainless steel, with an austenitic structure and non-magnetic. Recommended screw diameter is 4 mm, pan head with a diameter of 8.2 mm and length of 19 mm. Maximum 24” o.c.

6. We recommend leaving a 3 mm (1/8”) gap between butt ends to allow for expansion/contraction in response to changes in temperature. However, if your design calls for zero-spaced butt joints, please refer to Page 9. Maximum distance from screw placement to end of board should not exceed 2 inches.

7. The boards may be miter-cut for outside corners or Geolam O/S corners may be used.

8. Exposed screws on the final board may be covered with caulking if desired or our color-matched 2-piece starter/’J’ trim as shown below.

For information about drainage planes please go to page 5.
Vertigo 5010

Drainage planes

Drainage planes are water repellent materials that are located behind the cladding and are designed and constructed to allow airflow and water drainage.

Some drainage plane manufacturers:
- Tyvek Stucco wrap
- TYPAR® Drainable Wrap
- HydroGap® Drainable Housewrap
- Kingspan GreenGuard MAX Building Wrap

Installation videos

Click here to watch videos on how to install Vertigo 5010 with a drainage plane or furring strips
Vertigo 5010
Installation of J-trim

1. Fasten Part A of the J-trim to the wall as shown (ss screws recommended)

2. Screw the Geolam Vertigo board through the J-trim into the wall every 24"

3. Attach the metal clips onto Part B every 16" (40 cm) as shown

4. With a rubber mallet tap Part B into Part A

5. Final assembled J-trim
Vertigo 5010

Cladding installation

1. Install 2-piece starter/"J" or other trim component at top and bottom of wall (A)
2. If outside corners are not mitered, install outside corners before cladding (F)
3. Install top course first panel and screw at maximum 24" (B)
4. Install next panel with selected joint reveal gap and secure (C)
5. Install adjacent panels leaving 1/8" or 3mm between butt joints
6. Cut last panel as needed to fit into “J”/starter trim and secure (E)

Soffit installation

1. Install 2-piece starter/"J" at perimeter terminations (G)
2. Install first course into trim component and secure into place (H)
3. Slide adjacent panels with selected joint reveal gap and secure (I)
4. Install adjacent panels leaving 1/8" or 3mm between butt joints
5. Cut last panel as needed to fit into “J”/starter trim and secure (K)
Vertigo 5010

Cladding – Vertical orientation
wall detail (plan view)

***NOTE***
TYPICAL WALL SECTION FOR COMMERCIAL CONSTRUCTION.
CONSTRUCTION DESIGN MAY VARY. COMPLY WITH ALL LOCAL AND NATIONAL BUILDING CODES.

GYPSUM BOARD

VERTIGO 5010 WALL CLADDING

GEOLAM ‘J’ TRIM 9321

DRAINAGE PLANE ADVISED

WALL BY OTHERS

REVEAL CAN BE DESIGNED FROM 3 mm to 12 mm
Vertigo 5010

Cladding – Horizontal orientation
wall detail (plan view)

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GYPSUM BOARD

VERTIGO 5010 WALL CLADDING

GEOLAM ‘J’ TRIM 9321

REVEAL CAN BE DESIGNED FROM 3 mm to 12 mm

DRAINAGE PLANE ADVISED

WALL BY OTHERS
Vertigo 5010

Soffit (plan view)

- Vertigo 5010 Wall Cladding Drainage Plane Advised
- Geolam 'J' Trim 9321
- Reveal can be designed from 3 mm to 12 mm
- Structure by others

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Vertigo 5010

Alternative butt joint - zero spacing
3 boards mounted horizontally

General principles -
1. fix mid-point of middle board and provide oversized holes for all the other screws to allow for expansion/contraction
2. Allow outer edges of the outer boards 5 mm each (1/4") for expansion either into trim or beside an architectural feature

2-piece J-trim

Oversized holes (6 mm)

Fixed point in the middle

#6 screw

(Pan head with a diameter of 8.2 mm & 4 mm shaft)

Max spacing from screw to end of board is 2"

End view

Max spacing from screw to end of board is 2"

Zero spaced butt joint

Holes 2 ft apart

Zero spaced butt joint

Please allow gap for board to expand

Oversized holes (6 mm)

Outside boards expand into trim pieces or beside an architectural feature
Warning: mitered corners may be sharp!

Vertigo 5010

Solid Substrate
- e.g. OSB Plywood

Drainage Plane
- e.g. Kingspan GreenGuard® MAX Building Wrap

#4 Stainless Steel Screw

Geolam Vertigo 5010