CONTRIBUTION TO OBTAINING CREDITS FOR LEED CERTIFICATION OF BUILDINGS

Appiani products contribute to obtaining credits for LEED BD&C v 4 (LEED Building Design & Construction) system in the thematic areas listed below.

Product Classification: Glazed mosaic tiles, dry pressed with low water absorption (0,5% < Eb ≤ 3%) Group B1b - M - GL EN 14411:2016 H appendix

### Sustainable Site (SS)
- **Description**: Sustainable Site – Heat Island Reduction (non roof)
- **Production**: Appiani products do not contribute to change the energy balance of the environments where installed. They don’t produce any Urban Heat Island Effect, thanks to their very good physical properties. This encourages the external use of these products for both open and covered spaces.
- **SRI (Solar Reflectance Index)**: 0,87 (Anthologia MOS 13 Calla - White)
- **Solar Reflectance index** available for other colours

### Materials & Resources (MR)
- **Building Product Disclosure and Optimization – Environmental Product Declaration**
- **Industry-wide (generic) EPD available**
- **Building Product Disclosure and Optimization – Sourcing of Raw Materials**
- **Appiani products are manufactured using production cycles that guarantee excellence in terms of care and protection of the environment.**
- **Appiani mosaics are produced using non-metallic inorganic raw materials in a powdery state, such as clays, feldspar and sands. During the production, a sintering process occurs at high temperature (higher than 1000 °C) transforming powders into a solid ceramic object, partially crystalline and partially amorphous, with the chemical composition reported in the table below:**

<table>
<thead>
<tr>
<th>Constituents: Material Composition</th>
<th>Approximate Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td></td>
</tr>
<tr>
<td>Clay</td>
<td>60 – 70 %</td>
</tr>
<tr>
<td>Feldspar</td>
<td>20 – 25 %</td>
</tr>
<tr>
<td>Internal Scrap</td>
<td>5 – 10 %</td>
</tr>
<tr>
<td>Additives</td>
<td>1 - 1,5 %</td>
</tr>
<tr>
<td>Surface</td>
<td>Glaze 12,5 %</td>
</tr>
</tbody>
</table>

**Appiani mosaics are manufactured using recycled products as here below reported.**

<table>
<thead>
<tr>
<th>Pre-Consumer Recycled Content</th>
<th>&gt;30%</th>
<th>Post-Consumer Recycled Content</th>
<th>0%</th>
<th>Total Recycled Content</th>
<th>&gt;30%</th>
</tr>
</thead>
</table>
### Building Product Disclosure and Optimization – Sourcing of Raw Materials

**Production Plant:** Appiani – Via Pordenone 13, 31046 Oderzo (TV) – Italy

**Raw Materials sourcing origin:**

1. 100% of Appiani raw materials coming from a distance within 250 miles from the production plant

### Construction and Demolition Waste Management - Reduction of total waste material

The type of waste material expected to occur from the use of Appiani mosaics includes off cut materials and packaging. The packaging of Appiani products is environmentally sustainable as it is totally recyclable.

- The Amount of non-hazardous waste (Cardboard box) expected per product unit based on mass is 14.59 kg/ton
- Amount of non-hazardous waste (Cardboard box) that can be recycled/reused is 6.05 kg/ton

### Low-Emitting Materials (IEQ)

**Indoor Environmental Quality - Low-Emitting Materials**

Appiani products do not emit any VOC (Volatile Organic Compounds). No traces of VOC have been reckoned from the qualified external laboratories that examined our materials

Third Party Certification Available:

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**Best Regards**

Appiani