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Oderzo, January 2021

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 here below.

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

| MR Credit | Description | Production | | | | |
|-----------------------------|--|---|--|--|--|--|
| Sustainable Site (SS) | Sustainable Site — Heat Island Reduction (non roof) | where installed. The good physical proper and covered spaces SRI (Solar Reflectan | ey don't produce any erties. This encourage | Urban Heat les the externation of the externation o | ergy balance of the environments Island Effect, thanks to their very al use of these products for both open 13 Calla - White) | |
| Materials & Resorurces (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: | | | | |
| | | Constituents: Mat Body | Clay Feldspar Internal Scra Addittives | 6 2 p 5 1 | Approximate Percent by Weight 50 – 70 % 20 – 25% 5 – 10 % 4 -1,5 % | |
| | | | Surface Glaze 12,5 % ppiani mosaics are manufactured using recycled products as here below reported. | | | |
| | | Pre-Consumer Re (% per mass unit) | | >30% | | |
| | | Post-Consumer Re (% per mass unit) Total Recycled Co (% per mass unit) | | 0% >30% | | |



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| | Building Product Disclosure and Optimization – Sourcing of Raw Materials | re and ation — Raw Materials sourcing origin: | |
|---------------------------------|--|--|--|
| | Construction and Demolition Waste Management - | 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. | |
| | Reduction of total waste material | 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 6,05kg/ton | |
| Low-Emitting Materials (IEQ) | Indoor Environmental Quality - Low- | 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 | |
| | Emitting Materials | Third Party Certification Available: UL 2818 – 2013 Gold Standards for Chemical Emissions for building Materials, Finishes and Furnishings. | |

Best Regards

Appiani

