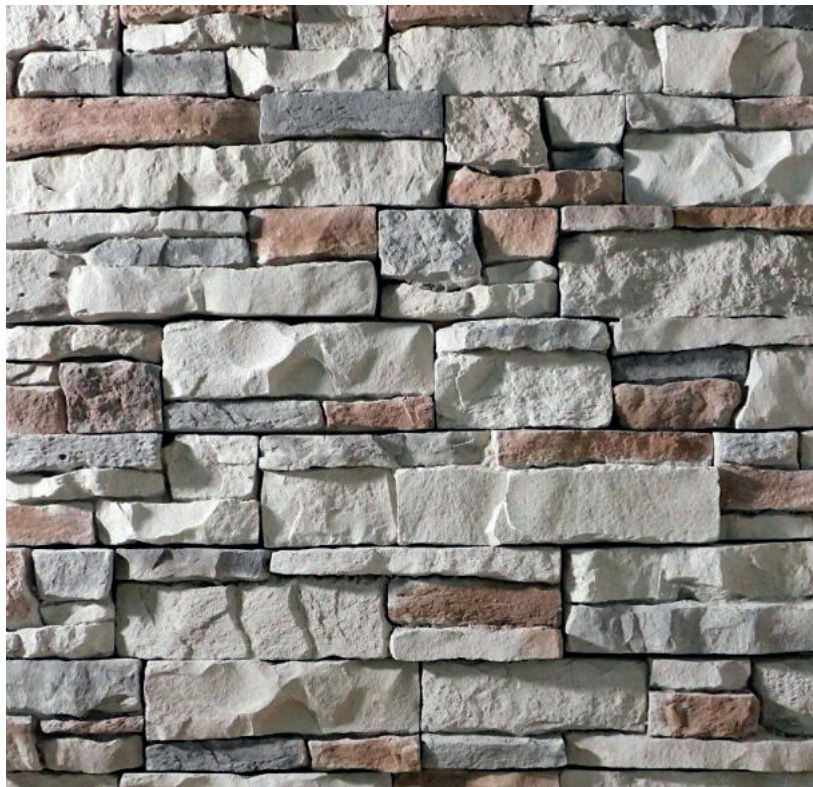
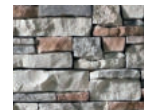


Grigio



Lava



Melange



Angoli

## Scheda Tecnica - Data sheet - Technisches Datenblatt - Fiche technique

| Dati prodotto - Product data<br>Produktdaten - Données du produit                  |                                                                                                  |              |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------|
|  | Spessore<br>Thickness<br>Dicke<br>Épaisseur                                                      | ~3/4/5 cm    |
|  | Peso<br>Weight<br>Gewicht<br>Poids                                                               | ~75,00 Kg/m² |
|  | Forma Regolare<br>Regular shape<br>regulär Formate<br>Forme régulière                            | OK           |
|  | Forma Irregolare<br>Irregular shape<br>Unregelmäßige Form<br>Forme irrégulière                   | NO           |
|  | Formati Misti<br>Mixed sizes<br>Gemischte Formate<br>Tailles mixtes                              | OK           |
|  | Angoli Disponibili<br>Corners Available<br>Ecken erhältlich<br>Angles disponibles                | OK           |
|  | Per cappotto termico<br>For thermal insulation<br>Zur Wärmedämmung<br>Pour l'isolation thermique | OK           |

| Informazioni - Information<br>Information - Information                             |                                                                                                          |    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----|
|  | Adatto per esterno<br>Suitable for outdoor<br>Geeignet für den Außenbereich<br>Convient pour l'extérieur | OK |
|  | Adatto per interno<br>Suitable for indoors<br>Geeignet für den Innenbereich<br>Convient pour l'intérieur | OK |
|  | Resistente al gelo<br>Frost resistant<br>Frostbeständig<br>Résistant au gel                              | OK |
|  | Resistente al fuoco<br>Fire resistant<br>Feuerresistent<br>Résistant au feu                              | A1 |

| Dati di posa - Installation data<br>Installationsdaten - Données d'installation       |                                                                                              |          |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------|
|  | Fuga consigliata<br>Recommended joint<br>Empfohlene Fuge<br>Joint recommandée                | NO       |
|  | Fuga unita<br>Without grouting<br>Ohne Verfugung<br>Sans jointoiment                         | +20%     |
|  | Consumo colla<br>Glue Consumption<br>Leimverbrauch<br>Consommation de colle                  | ~8 kg/m² |
|  | Consumo stuccatura<br>Grout consumption<br>Verbrauch fugen masse<br>Consommation jointoiment | NO       |

| Link interattivi - Interactive links - Interaktive Links - Liens interactifs                          |                                                                                                                             |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Showroom tour virtuale - Showroom virtual tour<br>Virtueller Rundgang Showroom - Exposition virtuelle | <a href="https://www.biopietra.com/VT/index.htm">https://www.biopietra.com/VT/index.htm</a>                                 |
| Video posa - Installation video<br>Vertege-Video - Vidéo d'installation                               | <a href="https://biopietra.com/posaopera/">https://biopietra.com/posaopera/</a>                                             |
| Manuale tecnico - Technical manual<br>Technische Bedienungsanleitung - Manuel technique               | <a href="https://biopietra.com/manuale-tecnico/">https://biopietra.com/manuale-tecnico/</a>                                 |
| Oggetti BIM - BIM objects<br>BIM-Objekte - Objets BIM                                                 | <a href="https://www.bimobject.com/it/biopietra-srl?location=us">https://www.bimobject.com/it/biopietra-srl?location=us</a> |

<https://www.biopietra.com/VT/index.htm>

<https://biopietra.com/posaopera/>

<https://biopietra.com/manuale-tecnico/>

<https://www.bimobject.com/it/biopietra-srl?location=us>

## Dati imballi - Packaging data - Verpackungsdaten - Données d'emballage

| Descrizione<br>Description<br>Beschreibung<br>Description | Confezioni<br>Package<br>Packungsmenge<br>Emballage | Peso<br>Weight<br>Gewicht<br>Poids | Peso scatola<br>Box Weight<br>Kartongewicht<br>Poids de la boîte | Formato<br>Size<br>Format<br>Format | Pallet<br>Pallet<br>Palletsmenge<br>Palette |                      |         |
|-----------------------------------------------------------|-----------------------------------------------------|------------------------------------|------------------------------------------------------------------|-------------------------------------|---------------------------------------------|----------------------|---------|
| Fondo - Flat<br>Fläche - Plaques                          | 0,5 m <sup>2</sup>                                  | 75,00 kg/m <sup>2</sup>            | 37,50 kg                                                         | Misti - Mixed<br>Gemischt - Mélange | 35 Boxes                                    | 17,50 m <sup>2</sup> | 1312 kg |
| Angoli - Corners<br>Ecken - Angles                        | 1,00 ml (LM)                                        | 20,00 kg/ml (LM)                   | 20,00 kg                                                         | Misti - Mixed<br>Gemischt - Mélange | 24 Boxes                                    | 24 ml (LM)           | 480 kg  |



| Caratteristica essenziale - Essential feature<br>Essentielle Eigenschaften - Caractéristique essentielle                                                                                                                                                                    |                         | Unità - Unit<br>Einheit - Unité                                            | Prestazione - Performance<br>Leistung - Performance                                      | Norma tecnica - Technical standard<br>Technischer Standard - Norme technique |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Resistenza a compressione media<br>Medium compressive strength<br>Mittlere Druckfestigkeit<br>Résistance à la compression moyenne                                                                                                                                           |                         | MPa                                                                        | 37,9                                                                                     | UNI EN 772-1:2015                                                            |
| Carico totale di rottura<br>Total breaking load<br>Gesamtbruchlast<br>Charge de rupture totale                                                                                                                                                                              |                         | kN                                                                         | 376,3                                                                                    | UNI EN 772-1:2015                                                            |
| Assorbimento d'acqua medio<br>Average water absorption<br>Durchschnittliche Wasseraufnahme<br>Absorption d'eau moyenne                                                                                                                                                      |                         | $\text{g/m}^2 \times \text{s}^{0,5}$                                       | 55                                                                                       | UNI EN 772-11:2011                                                           |
| Massa volumetrica apparente media<br>Average apparent volumetric mass<br>Durchschnittliche scheinbare volumetrische Masse<br>Masse volumique apparente moyenne                                                                                                              |                         | $\text{Kg/m}^3$                                                            | 1970                                                                                     | UNI EN 772-13:2002                                                           |
| Determinazione delle dimensioni<br>Determination of the dimensions<br>Bestimmung der Abmessungen<br>Détermination des dimensions                                                                                                                                            | $l_u$<br>$w_u$<br>$h_u$ | mm                                                                         | NPD                                                                                      | UNI EN 772-16:2011                                                           |
| Coefficiente di variazione di umidità<br>Coefficient of variation of humidity<br>Variationskoeffizient der Feuchtigkeit<br>Coefficient de variation d'humidité                                                                                                              |                         | mm/m                                                                       | 36,03                                                                                    | UNI EN 772-14:2003                                                           |
| Classe di resistenza al fuoco<br>Fire resistance class<br>Feuerwiderstandsklasse<br>Classe de résistance au feu                                                                                                                                                             |                         |                                                                            | A1                                                                                       | UNI EN 771-5:2015                                                            |
| Resistenza al taglio per la malta per scopi generali e malta leggera<br>Shear strength for general purpose mortar and lightweight mortar<br>Scherfestigkeit für Allzweckmörtel und Leichtmörtel<br>Résistance au cisaillement pour mortier à usage général et mortier léger |                         | N/mm <sup>2</sup>                                                          | 0,15                                                                                     | UNI EN 771-5:2015                                                            |
| Resistenza al taglio per la malta in strato sottile<br>Shear strength for thin-layer mortar<br>Scherfestigkeit für Dünnschichtmörtel<br>Résistance au cisaillement pour mortier en couche mince                                                                             |                         | N/mm <sup>2</sup>                                                          | 0,30                                                                                     | UNI EN 771-5:2015                                                            |
| Permeabilità al vapore acqueo<br>Permeability to water vapour<br>Durchlässigkeit für Wasserdampf<br>Perméabilité à la vapeur d'eau                                                                                                                                          |                         | $\mu$                                                                      | 5/15                                                                                     | UNI EN 771-5:2015                                                            |
| Conducibilità termica<br>Thermal conductivity<br>Wärmeleitfähigkeit<br>Conductivité thermique                                                                                                                                                                               |                         | W/mK                                                                       | $\lambda_{10, \text{dry}} = 1,00 - P=50\%$<br>$\lambda_{10, \text{dry}} = 1,00 - P=90\%$ | UNI EN 771-5:2015                                                            |
| Durabilità al gelo/disgelo<br>Durability to freeze / thaw<br>Beständigkeit gegen Einfrieren / Auftauen<br>Durabilité au gel / dégel                                                                                                                                         |                         | Ingelivo - Frost resistant<br>Frostbeständigkeit -<br>Résistance au gel    |                                                                                          | UNI EN 771-5:2015                                                            |
| Sostanze pericolose<br>Dangerous substances<br>Gefährliche Substanzen<br>Substances dangereuses                                                                                                                                                                             |                         | Assenza- Absence<br>Abwesenheit - Absence                                  |                                                                                          | UNI EN 771-5:2015                                                            |
| Riflessione della luce<br>Illuminating engineering light study<br>Lichtbrechung<br>Reflet de la lumière                                                                                                                                                                     |                         |                                                                            |                                                                                          | UNI EN 12464                                                                 |
| Ciclo di Vita dei Prodotti<br>Product Life Cycle<br>Lebenszyklen der Produkte<br>Cycle de vie du produit                                                                                                                                                                    |                         | Kg CO <sub>2</sub> e                                                       | 0,19                                                                                     | UNI EN ISO 14040                                                             |
| Assenza cessione metalli pesanti in acqua<br>Absence of heavy metal pollution in water<br>Keine Auflösung von Schwermetallen in Verbindung mit Wasser<br>Absence de transfert de métaux lourds dans l'eau                                                                   |                         | Assenza- Absence<br>Abwesenheit - Absence                                  |                                                                                          | UNI EN 12457-2/04                                                            |
| Inalterabilità del colore alla luce<br>Colour fastness to light<br>Keine Farbveränderung durch Licht (Sonneneinstrahlung)<br>Inaltérabilité de la couleur à la lumière                                                                                                      |                         | Nessuna variazione - No variations<br>Keine Variationen - Aucune variation |                                                                                          | DIN 51094                                                                    |
| Assenza di radioattività<br>Absence of radioactivity<br>Kein Austritt von radioaktiven Strahlungen<br>Absence de radioactivité                                                                                                                                              |                         | Assenza- Absence - Abwesenheit - Absence<br>$I=0,035 \pm 0,002$            |                                                                                          | UNI 10797:1999                                                               |
| Assenza di composti organici volatili (COV)<br>Analysis for Volatile Organic Compounds (VOC)<br>Kein Austritt von flüchtigen, organischen Stoffen (VOC)<br>Absence de composés organiques volatils (COV)                                                                    |                         | Assenza- Absence<br>Abwesenheit - Absence                                  |                                                                                          | UNI EN ISO 16000-9:2006<br>ISO 16000-6:2011                                  |
| Indice di riflessione solare<br>Solar reflection index (SRI)<br>Sonnenreflexionsindex<br>Indice de réflexion solaire                                                                                                                                                        |                         | R% = 73<br>SRI = 90<br>E% = 90                                             |                                                                                          | ASTM E903-96<br>ASTM G173-03(2008)<br>ASTM C1371-04a<br>ASTM E1980-98e1      |

| Credito - Credit                                                                 |        | Informazioni - information | Indicatori conformità - Conformity Indicators                                                                                                                                                     |
|----------------------------------------------------------------------------------|--------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | MR2    | LEED NC 2009 Italia        | ● I prodotti sono riciclabili e non rilasciano sostanze pericolose, come comprovato anche da test di cessione di metalli pesanti in acqua. L'imballaggio dei prodotti è separabile e riciclabile. |
|                                                                                  | MR2    | GBC Home Italia            | ● The products are recyclable and do not release hazardous substances, as proved also by heavy metals leaching test in water. Packaging is separable and recyclable.                              |
|  | MR3    | GBC Home Italia            | ● Contenuto medio di carbonato di calcio derivante dagli scarti della lavorazione del marmo (materiale riciclato pre-consumer): 77,78% in peso sul prodotto finito.                               |
|                                                                                  | MR4    | LEED NC 2009 Italia        | ● Average content of calcium carbonate resulting from residues from the marble processing (pre-consumer recycled material): 77.78 % by weight of the finished product.                            |
|  | MR5    | LEED NC 2009 Italia        | ● Il 98% in peso sul prodotto finito deriva da materie prime approvvigionate da una distanza ≤ 25 km dal luogo di lavorazione del prodotto finito.                                                |
|                                                                                  | MR5    | GBC Home Italia            | ● 98% in weight on the finished product comes from raw materials sourced from a distance ≤ 25 km from the place of manufacture of the finished product.                                           |
|  | QI 3   | GBC Home Italia            | ● I prodotti non contengono leganti organici, come comprovato anche da prova di emissione di Composti Organici Volatili (COV) effettuata sul prodotto.                                            |
|                                                                                  | QI 4.3 | LEED NC 2009 Italia        | ● The products do not contain organic binders, as evidenced also by the Volatile Organic Compounds (VOCs) emission test performed on this product.                                                |
|  | IP 1   | LEED NC 2009 Italia (LCA)  | ● È stato redatto il profilo ambientale dei prodotti secondo la metodologia Life Cycle Assessment (LCA), in accordo alla norma ISO 14040.                                                         |
|                                                                                  | IP 2   | GBC Home Italia (LCA)      | ● The product's environmental profile was carried out in accordance with the Life Cycle Assessment (LCA) methodology and was drawn up in accordance with ISO 14040                                |

## Certificazioni - Certifications - Zertifizierungen



Italia



UK  
CA



In progress



In progress



In progress

- Le certificazioni sono l'unico strumento per comprovare la bontà di un prodotto e se questo è realmente ecologico al di là delle dichiarazioni che si possono fare come strumento marketing. Biopietra certifica sia i prodotti con le più prestigiose certificazioni volontarie legate all'ambiente, alla gestione delle risorse, all'impatto ambientale e al sistema produttivo. I prodotti Biopietra hanno già ottenuto la marcatura CE. Biopietra ha iniziato l'iter per ottenere le certificazioni di sistema ISO 14001 ed EMAS, e la prestigiosa certificazione Ecolabel.
- Certifications are the only tool to prove the quality of a product and if it is really ecological beyond the declarations that are often used as a marketing tool. Biopietra certifies its products with the most prestigious voluntary certifications related to the environment, resource management, environmental impact and the production system. Biopietra products have already obtained CE marking. Biopietra has begun the process to obtain the ISO 14001 and EMAS system certifications, as well as the prestigious Ecolabel certification.
- Zertifizierungen sind das einzige Instrument, um die Qualität eines Produkts zu beweisen und ob dieses wirklich ökologisch trotz aller Aussage ist, die als Marketinginstrument abgegeben werden können. Biopietra zertifiziert seine Produkte mit den renommiertesten freiwilligen Zertifizierungen in Bezug auf Umwelt, Ressourcenmanagement, Umweltauswirkungen und das Produktionssystem. Biopietra Produkte haben bereits die CE-Kennzeichnung erhalten. Biopietra hat mit dem Prozess zur Erlangung der Systemzertifikationen ISO 14001 und EMAS sowie der prestigeträchtigen Ecolabel-Zertifizierung begonnen.
- Les certifications sont le seul outil pour prouver la qualité d'un produit et si celui-ci est vraiment écologique au-delà des déclarations qui peuvent être faites comme outil marketing. Biopietra certifie ses deux produits avec les certifications volontaires les plus prestigieuses liées à l'environnement, à la gestion des ressources, à l'impact environnemental et au système de production. Les produits Biopietra ont déjà obtenu le marquage CE. Biopietra a entamé le processus pour obtenir les certifications du système ISO 14001 et EMAS, ainsi que la prestigieuse certification Ecolabel.

## Accessori per la posa - installation Accessories Verlegungszubehörteil - Accessoire pour la pose



- Colla traspirante **EcoKoll**, malta traspirante **Biostucco** e trattamento superficiale impregnante oleo-idrorepellente traspirante **Biofin**.
  - Breathable glue **EcoKoll**, breathable mortar **Biostucco** and water and oil repellent liquid surface protective treatment **Biofin**.
- Atmungsaktiven Kleber **EcoKoll**, atmungsaktiven Fugenmörtel **Biostucco** und imprägnierende und atmungsaktive Oberflächenbehandlung **Biofin**.
  - Colle respirante **Écokoll**, mortier-joint **Biostucco** et traitement hydro et oleo repulsif respirant **Biofin**.