

Caratteristiche fisico-chimiche

- **Densità ad umidità di cava:** V. Intensivo, Estensivo e ZEO 950-1.050 Kg/m³; V. Light 700-800 Kg/m³
- **Densità a saturazione (massa secca + H₂O pF0,7):** circa 1.300 Kg/m³ V. Intensivo ed Estensivo; 1.200 Kg/m³ V. Light; 1.400 Kg/m³ V. ZEO
- **Granulometria:** da 0 a 15 mm
- **Velocità di infiltrazione:** superiore a 25 mm/min.
- **Capacità di accumulo idrico (per cm in opera a pF0,7):** >4,5 l/cm per il V. Estensivo e ZEO; >5 l/cm per il V. Intensivo; >6 l/cm per il V. Light
- **pH:** V. Estensivo e ZEO tra 6 e 7,5; V. Intensivo e V. Light tra 6 e 7
- **Sostanza organica (% m/m s.s.):** >1,5 per il V. Estensivo e ZEO; >3,5 per il V. Intensivo; >4,5 per il V. Light
- **C.S.C.:** circa 20 mEq/100g per il V. Intensivo; 25 mEq/100g per il V. Light; 10 mEq/100g per il V. Estensivo; 30 mEq/100g per il V. ZEO
- **Esente da calcare attivo e da Silice Libera Cristallina (Prodotto non tossico).**

Physical and chemical properties

- **Specific weight / Density at quarry humidity:** V. Intensive, Extensive and ZEO 950-1,050 Kg/m³; V. Light 700-800 Kg/m³
- **Weight of water saturated material (dry material + H₂O pF0,7):** approx 1,300 Kg/m³ V. Intensive and Extensive; 1,200 Kg/m³ V. Light; 1,400 Kg/m³ V. ZEO
- **Grain size:** between 0 to 15 mm
- **Infiltration speed:** higher than 25 mm/min
- **Water storage capacity (for cm on site at pF0.7):** > 4.5 l/cm for V. Extensive and ZEO; > 5 l/cm for V. Intensive; > 6 l/cm for V. Light
- **pH:** V. Extensive and ZEO between 6 and 7.5; V. Intensive and V. Light between 6 and 7
- **Organic substance (% m/m s.s.):** >1.5 % for V. Extensive and ZEO; >3.5 for V. Intensive; >4.5 % for V. Light
- **C.E.C. (Cation Exchange Capacity):** approx. 20 mEq/100g for V. Intensive; 10 mEq/100g for V. Extensive; 25 mEq/100g for V. Light; 30 mEq/100g for V. ZEO
- **Contains no active limestone and no Free Crystalline Silica (non-toxic product).**

Imperial Measurements:

- **Specific weight / Density at quarry humidity:** V. Intensive, Extensive and ZEO 59.31-65.55 lb/ft³; V. Light 43.70-49.94 lb/ft³
- **Weight of water saturated material (dry material + H₂O pF0,7):** approx 81.16 lb/ft³ V. Intensive ed Extensive, 87.40 lb/ft³ V. Light and 74.91 lb/ft³ V. ZEO
- **Grain size:** between 0 and 5/8"- US Mesh
- **Infiltration speed:** higher than 1 US Mesh/min.
- **Water storage capacity (per cm on site at pF0.7):** > 2.475 gallon for V. Extensive and ZEO; > 2.75 gallon for V. Intensive and > 3.3 gallon for the V. Light
- **C.E.C. (Cation Exchange Capacity):** approx 20 mEq/0.22 lb for V. Intensive, 10 mEq/0.22 lb for V. Extensive, 25 mEq/0.22 lb for V. Light, 30 mEq/0.22 lb for V. ZEO

Campi d'impiego - Fields of application

- Tappeti verdi
- Giardini pensili
- Arredo urbano
- Verde verticale
- Gestione e manutenzione del verde
- Grass lawns
- Hanging gardens
- Urban street furniture
- Vertical greenery
- Greenery management and maintenance



Vulcaflor per giardino pensile
Vulcaflor for hanging garden
Giax Tower, MILAN



Vulcaflor come substrato per giardino pensile
Vulcaflor as substrate for hanging garden
CityLife SpA, MILAN



Substrato in Vulcaflor
Vulcaflor substrate
Portello Park, MILAN

VULCAFLOR

SUBSTRATO VULCANICO PER TETTI VERDI, ARREDO URBANO E VERDE VERTICALE

VOLCANIC SUBSTRATE FOR ROOF GARDENS, URBAN STREET FURNITURE AND VERTICAL GREENERY

Composizione

Substrato vulcanico costituito dalla miscela di materiali vulcanici naturali (pomice e lapilli), torba bionda e/o sostanza organica humificata (su richiesta) e miscela di concime pellettizzato a lenta cessione.

Composition

Volcanic substrate consisting of a mixture of natural volcanic materials (pumices and lapilli), blond peat and/or organic substances with humus (on request) and mixture of slow release fertilizer pellets.

VULCAFLOR
Strato fertile e drenante
Growing media and
drainage layer



Tipologie e caratteristiche funzionali

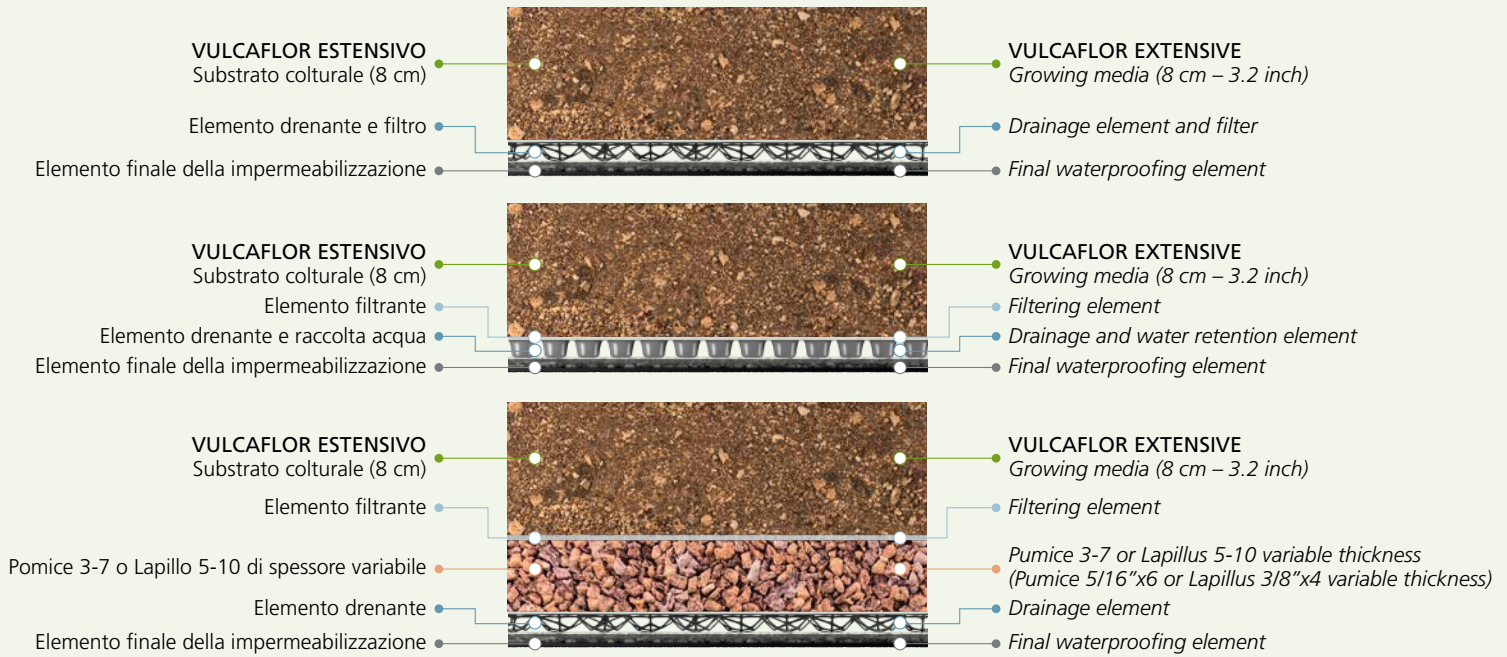
- **VULCAFLOR INTENSIVO** per coperture verdi fruibili
- **VULCAFLOR ESTENSIVO** per coperture leggere e con ridotta manutenzione
- **VULCAFLOR LIGHT** pompabile per coperture verdi intensive leggere
- **VULCAFLOR ZEO** per verde pensile Intensivo, con elevata C.S.C.

Types and functional properties

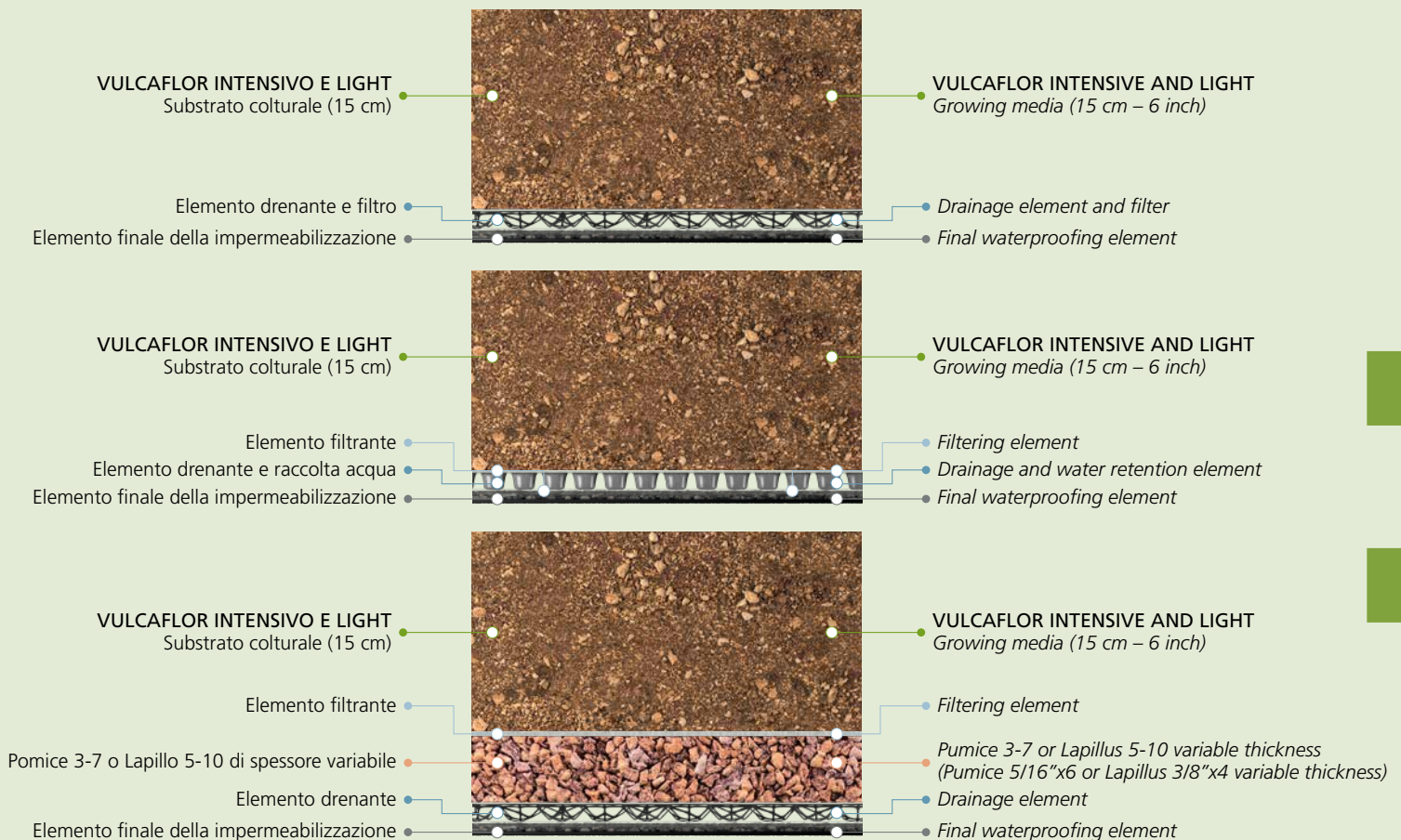
- **VULCAFLOR INTENSIVE** for usable roof gardens
- **VULCAFLOR EXTENSIVE** for lightweight roof gardens requiring reduced maintenance
- **VULCAFLOR LIGHT** pumpable for usable intensive roof gardens
- **VULCAFLOR ZEO** for intensive green roofs, with high C.E.C.

SCHEMI COSTRUTTIVI PER TETTI VERDI E GIARDINI PENSI LI CON VULCAFLOR CONSTRUCTION DIAGRAMS FOR GRASS LAWNS AND HANGING GARDENS WITH VULCAFLOR

VULCAFLOR ESTENSIVO (Sedum, tappezzanti e simili) / EXTENSIVE (Sedum, groundcovers and similar)



VULCAFLOR INTENSIVO e LIGHT (Prato, arbusti e alberi) / INTENSIVE and LIGHT (Lawn, bushes and trees)



Campi d'impiego - Fields of application

Substrato vulcanico Vulcaflor per giardino pensile
Rooftop garden with Vulcaflor volcanic substrate
BEDFORD GREEN HOUSE, The Bronx, NY

Rendering of the Bedford Green House courtesy of Edelman Sultan Knox Wood / Architects LLP and Hollister Construction Services

SCHEMI COSTRUTTIVI PER TETTI VERDI E GIARDINI PENSI CON **VULCAFLOR**

CONSTRUCTION DIAGRAMS FOR GRASS LAWNS AND HANGING GARDENS WITH **VULCAFLOR**

Tipologie e caratteristiche funzionali

VULCAFLOR INTENSIVO
per coperture verdi fruibili

VULCAFLOR ESTENSIVO
per coperture leggere e con ridotta manutenzione

VULCAFLOR LIGHT
pompabile per coperture verdi intensive leggere

VULCAFLOR ZEO
per verde pensile Intensivo, con elevata C.S.C.

Types and functional properties

VULCAFLOR INTENSIVE for usable roof gardens

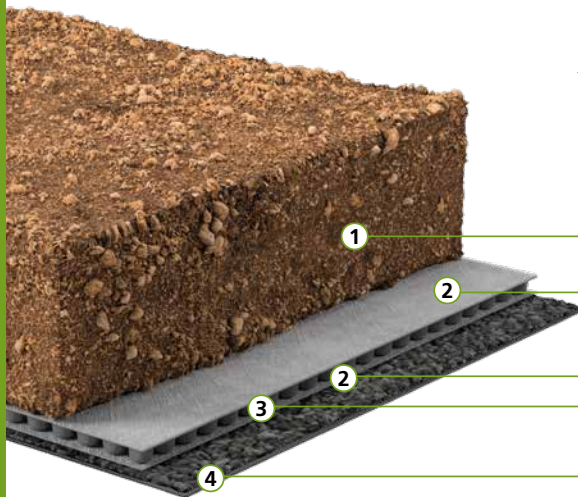
VULCAFLOR EXTENSIVE for lightweight roof gardens requiring reduced maintenance

VULCAFLOR LIGHT pumpable for usable intensive roof gardens

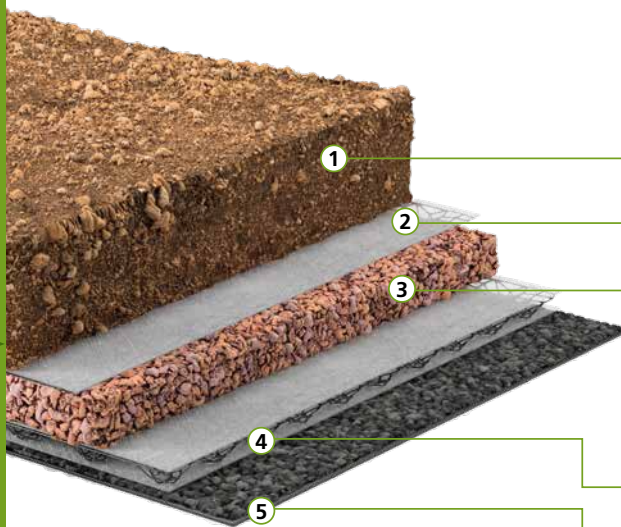
VULCAFLOR ZEO for intensive green roofs, with high C.E.C.

VULCAFLOR INTENSIVO E LIGHT

VULCAFLOR INTENSIVO AND LIGHT



- ① **VULCAFLOR INTENSIVO AND LIGHT**
Substrato culturale (15 cm)
Growing media (15 cm - 6 inches)
- ② Elemento filtrante
Filtering element
- ③ Elemento drenante e raccolta acqua
Drainage and water retention element
- ④ Elemento finale della impermeabilizzazione
Final waterproofing element



- ① **VULCAFLOR INTENSIVO AND LIGHT**
Substrato culturale (15 cm)
Growing media (15 cm - 6 inches)
- ② Elemento filtrante
Filtering element
- ③ Pomice 3/7 o Lapillo 5/10 di spessore variabile
Pumice 3/7 or Lapillus 5/10 of variable thickness (Pumice 5/16"x6 or Lapillus 3/8"x4 of variable thickness)
- ④ Elemento drenante
Drainage element
- ⑤ Elemento finale della impermeabilizzazione
Final waterproofing element

Campi d'impiego - Fields of application



Sistema Vulcaflor per tetti verdi
Vulcaflor system for green roofs
ENVIPark, TORINO



Sistema Vulcaflor Intensivo per TETTO VERDE
Vulcaflor Intensive system for ROOF GARDENING



Sistema Vulcaflor per TETTO VERDE
Vulcaflor system for GREEN ROOF