

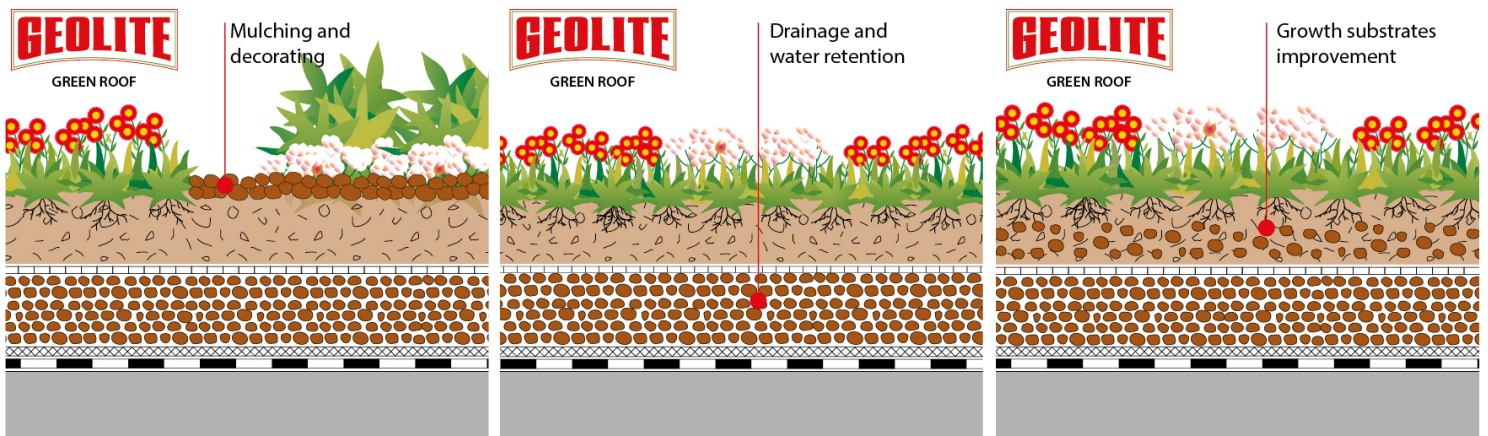
# GEOLITE

GEOLITE clay pebbles serve as a strong, durable and versatile media, perfect for hydroponics and many horticultural applications. Made from 100% natural Italian clay, it is industrially produced at extremely high temperatures (2200°F / 1200°C) and specially treated for a consistent EC, stable neutral pH and offer great aeration and drainage, ensuring success with technically one of the best growing medias for your indoor garden. Thanks to GEOLITE clay pebbles unique structure and ability to cover a large surface area, they offer the ideal environment to foster beneficial bacterial growth around the root zone, ideal for drip feed, deep water culture, and flood and drain systems.



# Perfect for hydroponics, hydroculture, aquaponics, roof gardens, potting and mulching **GEOLITE Clay Pebble BENEFITS:**

- Neutral pH and chemically inert: they're specifically formulated to be chemically inert with a neutral pH (pH  $\geq$  6), so they're good for all types of plants and crops.
- Stable Low EC: this is very important for hydroponic growers, the EC is 7 mS/m (UNI EN 13038:2002), helps perfect control of the chemical compounds and values of fertilized water. Always remember, that every growing technique, and each variety of plant have an ideal EC range for optimum growth and blooming.
- Air and water reservoir: great for aeration, the pebbles high total porosity (approx. 85% by volume) provides excellent root ventilation and oxygenation to plants, whilst its high water retention (approx. 30%) makes it a valuable water reservoir: water is stored in the internal porosity of the clay granules and is slowly released to the plants, ensuring better plant growth
- Excellent draining capacity: drains freely for great drainage, its dense network of intergranular voids of high drainage capacity prevents water from stagnating, ensuring free draining, good oxygen levels around the root; suitable for flood and drain systems, multi-pot and drip feed systems
- Strong, stable and durable: its strong structural integrity means they are less likely to break, they're dimensionally stable and non-deformable, preventing dripper systems from getting blocked They're not adversely affected by freeze/thaw cycles, is resistant to acids, and retains its properties unaltered over time; for all practical purposes this material will last forever.
- Natural and certified product: the natural origin of GEOLITE clay pebbles, combined with its manufacturing process, which respects the environment, make it a highly sustainable product.
- Lightweight: its low density (approx. 21lb/ft<sup>3</sup> / 330 kg/m<sup>3</sup> UNI EN 13037:2002) is particularly appreciated in green roof systems and roof gardens because it reduces loading on the structure, increases thermal insulation and is widely used to the preparation of substrates to improve their physical characteristics.
- Mineral and rotproof: as a 100% mineral product it will not rot, cannot be attacked by parasites (fungus, rodents, insects, etc.) and is not conducive to the spread of plant diseases,
- Non-combustible: it is completely non-combustible (Euroclass fire rating – A1), fire-resistant, and safe, including in the presence of fire. Great for protecting from fire hazards.
- Pebble size: approx. 8mm - 20mm (approx.. 1/3"-3/4")



## GEOLITE Clay Pebble Applications:

HYDROPONICS, HYDROCULTURE and AQUAPONICS: GEOLITE clay pebbles is the ideal inert substrate for hydroponic and acquaponic crops, thanks to its stable neutral pH, resistance to crushing thanks to its durable strength, consistent low EC, good aeration, excellent drainage, good water retention and also its excellent insulating characteristics (which reduce sudden temperature changes) and its freedom from phytotoxic substances.

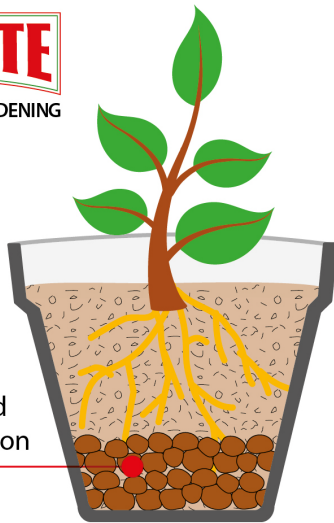
GARDEN GROWTH SUBSTRATES for POTS, FLOWER BEDS & ROOF GARDENS: GEOLITE clay pebbles can be mixed with the other components of a growth substrate (coco coir, peat, compost, etc.) to improve its physical and chemical properties. For improved humidity control, reduced water usage, better aeration, improved stability, preventing compaction over time, lightness and durability. It is ideal for any type of cultivation, both domestic and intensive, and also green roof systems. A lightweight substrate can be created by mixing the individual ingredients and adding a percentage of 20% to 40% GEOLITE clay pebbles.

GARDEN MULCHING and DECORATING: A layer of GEOLITE clay pebbles are frequently used as mulch for potted plants (recommended minimum thickness 4"/10 cm), placed on top of the soil substrate it prevents weed growth, reduces moisture loss due to evaporation, minimizes water stress and the need for irrigation in hot weather, protects the soil from extreme temperature changes, and provides an aesthetically pleasing finish - giving the garden a more orderly appearance. It is ideal for use with plants in pots, planters, outdoors, in roof gardens, vegetable gardens, or on green roofs.

DRAINAGE and WATER RETENTION: GEOLITE clay pebbles are ideal as a lightweight draining layer in roof gardens and green roofs (both extensive and intensive), tubs, planters, vases, or in natural soil. It prevents water stagnation and acts as a valuable water reserve for plants, without increasing the weight of the structure. GEOLITE clay pebbles is used by placing a layer of the material, of variable thickness (not less than 5 cm), below the growing medium on a roof, in a container, or in a planting pit.

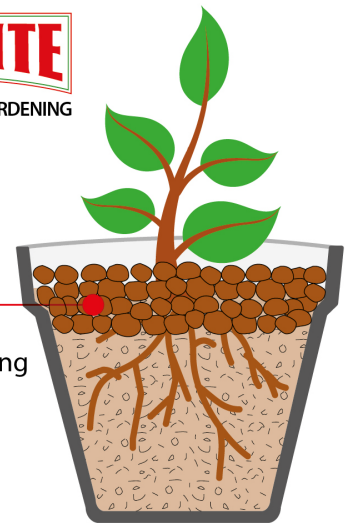
**GEOLITE**  
POTTING AND GARDENING

Drainage and  
water retention



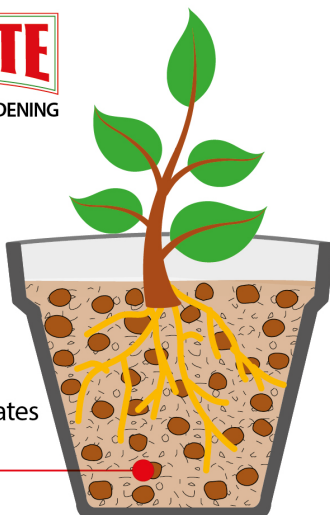
**GEOLITE**  
POTTING AND GARDENING

Mulching  
and decorating



**GEOLITE**  
POTTING AND GARDENING

Growth substrates  
improvement



**GEOLITE**  
HYDROPONICS

Hydroculture  
and aquaponics

