



## GROWING IN STONE WOOL BENEFITS

### Hygienic and safe from pathogens

Stone wool is a clean, hygienic, and safe growing medium made from natural stone that has been heated to extreme temperatures. It is a mineral-based, inert substrate. It is much less likely to come contaminated with fungi, oomycetes, yeasts, bacteria, and insects, than other growing media. Stone wool enhances crop quality and reduces the need for pesticide use as well as the risk of heavy metal contamination.

In addition to the naturally hygienic qualities of stone wool, Grodan also wraps its products in a protective film that discourages algae growth and makes for easier handling by cultivation staff.

- Hygienic and safe, and less likely to be contaminated by pathogens and pests
- Reduces the need for pesticide use
- Lower risk of heavy metal contamination

### Extremely efficient growing media

In addition to its hygienic and practical benefits, stone wool is also a very resource-efficient growing medium. It can retain moisture and nutrients very effectively, which means that plants can grow quickly and efficiently.

- Inert/Minimal CEC (cation exchange capacity) - will not add or hold back applied nutrients or water from the plant.
- The best choice for recirculating systems. Leachate is re-useable from the the initial saturation to harvest, reducing water & fertilizer inputs.
- More easily available water - plants do not have to exert as much energy to extract water from stone wool pores when the substrate is at a low water content.
- Excellent re-saturation capability.
- The most uniform growing substrate results in consistent plant growth.

### Control over lighting, climate, nutrition, and irrigation

Stone wool is the best-growing medium for indoor cultivation environments where the grower controls every aspect of the plants' lighting, nutrition, and irrigation. Stone wool products are designed for precision growing and are fully compatible with the sensors and automation tools utilized for data-driven cultivation strategies, offering unparalleled opportunity for optimal root-zone management.

- Precise control of water content and electrical conductivity, so the grower can steer plant growth.
- Uniform and rapid water distribution throughout the media.
- Holds water and nutrients well