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## Grodan knowledge & advice

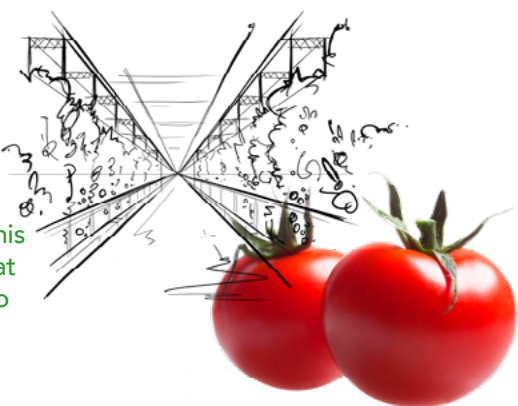
### More precision and convenience with GroSens and e-Gro

Our GroSens wireless slab sensors and e-Gro users app for smartphone, tablet or desktop make Precision Growing even easier. Our GroSens hand-held meter is a flexible, reliable instrument with which growers can measure the water content, EC and temperature of any slab. Our GroSens Multisensor system accurately analyses these measurements for an entire greenhouse section 24/7. Combined with our e-Gro app it will enhance

growers' understanding of and control over their plants' root environment. Precision Growing has never been so precise.



Grodan develops crop-specific product solutions to meet growers' requirements. Grodan Elite illustrates the success of this approach. Trials have shown that yields can be increased by up to 5% with this new slab.



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## Tomato growing has never been so precise Grodan Elite



All our information and advice is compiled with the greatest possible care and in accordance with state of the art technology. However we are unable to assume any liability for the contents. - February 2020





## Why should you opt for Grodan Elite?

Grodan Elite enables you to push back your cultivation frontiers and increase your yields. Elite is the perfect substrate for raising the cultivation of tomatoes to an even higher level with the aid of Precision Growing. The large-scale trials that were carried out yielded positive results.

Grodan Elite is a unique, innovative substrate for the high-tech cultivation of tomatoes. This new slab is an improved version of our Elite single-plant system that already led to exceptional cultivation results.

Those same specifications and characteristics have now been processed in this new, longer, 10-cm-high Elite slab that can accommodate several plants. The modified irrigation strategy ensures a beneficial interaction between climate conditions, plant characteristics and root environment. This form of Precision Growing leads to significant increases in yields with distinctly better financial results.

### Advantages of Grodan Elite

1. Efficient root system
2. Vital crop (less susceptible to diseases)
3. High early and total production
4. High fruit quality all the year round
5. Sustainable cultivation method

### 1 Efficient root system

Plants grown in Elite show controlled root development and generative growth from the very start, ensuring that the roots penetrate the slab extremely well in the first phases of the crop's growth. The slab's special structure promotes the formation of a strong, finely branched root system at the start of a crop's development. The top part of the slab is undisputedly moister than that of the 10-cm-high GT Master, while the bottom part is significantly drier. This results in a highly efficient root system throughout the entire slab,



from which the plants will benefit for the entire season. The water content (WC) and EC in the slab can be quickly and accurately regulated thanks to the excellent horizontal and vertical distribution of water. There will be no accumulation of excess water at the bottom of the slab, making it even easier to allow the water content to decrease during the night, after the last irrigation session.

### 2 More vital and healthier crops

Trials have shown that plants growing in Elite slabs absorb more water than those cultivated in traditional slabs. The plants are able to benefit fully



from the nutrients dosed along with the water, leading to more vigorous growth. The special two-layered slab structure ensures an optimum continuous supply of fresh water and nutrients, enabling the plants to constantly grow unhindered and remain strong and vital until the end of the season. This results in crops that are less susceptible to fungus diseases such as Botrytis and mildew, and hence involve less risk of plant losses. So these slabs help you to save on the costs of disease control.

### 3 Higher production

Crops grown in Elite show higher production at an early stage, thanks in part to the plants' steady, highly generative development after they have been planted in the slabs. The formation of the first cluster begins at an earlier stage and proceeds more uniformly, resulting in tomatoes that can be harvested sooner. The healthy root system, constant vigour and good plant balance also ensure strong growth at the end of the

season. Trials have shown that the prolific production is indeed prolonged into autumn.



### 4 High fruit quality all the year round

Plant measurements and crop evaluations have demonstrated that plants show more generative and more vigorous growth in Elite. The tops of the plants are more robust and the plants form strong clusters and intensely coloured flowers. The faster, more uniform fruit setting ensures faster, more uniform colouring of the tomatoes, so that they can be harvested sooner, keeping the plant load on average lower throughout the entire season. Another advantage is a continuously high fruit quality.



### 5 Sustainable cultivation method

Plants grown in Elite produce more tomatoes of on average better quality at a nutrient and energy input that is comparable with that of other high-quality substrates. The unique

slab characteristics guarantee an optimum constant supply of fresh water and nutrients to the slab and ensure that the plants are able to benefit fully from them, resulting in a continuously well-balanced, strong, healthy crop and more efficient consumption of energy per kilo of end product. And that's precisely what Precision Growing is all about: realising higher yields of top quality via a more effective and more efficient use of resources.



#### Grodan Elite Specifications:

- based on our NG2.0 technology
- optimised dual-density slab structure
- dimensions:
  - 10 cm high and 15 cm wide
  - standard slab lengths
- wrapped in extra-dark foil