



# RootmaXX

## Stone wool propagation cube for professional vegetable growing

### Product description

Cultilene RootmaXX is a stone wool propagation cube that is made with the X-fibre technology. Instead of the usual horizontal or vertical fibre orientation, the fibres using this technique are orientated in all directions throughout the substrate. In this way, two advantages are combined: a rapid root development supplied by a vertically oriented fibre structure and a better root volume throughout the substrate supplied by a horizontally oriented fibre structure.

### Product application

Cultilene RootmaXX cubes are used for growing vegetable crops under glass or plastic.

### Guarantee

The guaranteed lifespan for vegetable growing is one crop if used under normal growing conditions.

RootmaXX is produced under RHP certification. The RHP certificate is a quality agreement between the stone wool suppliers and the Dutch trade association for the plant reproduction material sector. The KIWA certification agency regulates this certification scheme. Further information can be found at the RHP website: [www.rhp.nl](http://www.rhp.nl).



### Product characteristics

The RootmaXX cube is just one of the solutions from Cultilene for plant propagation. This controllable water buffer has the following characteristics:

Parameter	
Time required to sink	RHP Class 1 (< 25 sec)
Nominal water content – at drainage	90%
Nominal water content – pF1	65%
Control range *	45 – 55%

\*Indication of average values in practice.

The RHP standard applies to the minimum values.

### Technical details

#### Physical requirements

Parameter	
Organic matter	1,0 – 4,5%
Bulk density at delivery*	72 kg/ m <sup>3</sup>
Relative compression (RC)	≤ 30% at 10 kPa
Recovery capacity	≥ 98% +/- 2% at 10 kPa
Pore volume	≥ 95%

\* The specific weight of the base material is 72 kg / m<sup>3</sup>. Note: for the correct calculation of the density of the cube, the volume of the processed cube must be taken into account with regard to tolerances during processing. For specifications of tolerances we refer to RHP MOD 550.

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### Chemical requirements

Parameter	Norms
EC	≤ 0,5 dS/m
pH in nutrient solution	5,5 – 7,0 If pH ≥ 7,0 determination of acid binding value
Acid binding value	If pH ≥ 7,0 determination of acid binding value Just before pulse 1: pH ≤ 7,5 and acid use ≤ 5,00 mmol hydrochloric acid/kg Just before pulse 10: pH ≤ 6,0 and acid use ≤ 0,50 mmol hydrochloric acid/kg

### Substrate tolerances

The following tolerances apply to the nominal dimensions of the final product (dry product):

Dimensions of cube	
Length	+ / - 2 mm
Width	+ / - 2 mm
Height	+ / - 2 mm
Plug and plant holes	
Diameter	+ / - 3 mm
Depth	+ / - 3 mm
Positioning	+ / - 5 mm
Grooves	
Depth 7 mm	+ / - 3 mm
Width 12 mm	+ / - 3 mm
Positioning	+ / - 5 mm

### Standard product dimensions

The most commonly used dimensions for RootmaXX cubes are:

- 100 x 100 x 65 mm
- 100 x 100 x 75 mm
- 150 x 100 x 65 mm
- 150 x 100 x 75 mm
- 200 x 100 x 65 mm

Alternative sizes are available on request.

The RootmaXX cube is provided with plug and plant holes and grooves. After production and processing, the cubes are stacked on pallets and prepared for transport.

### User instructions

RootmaXX cubes are delivered in standard packaging on standard pallets (1200 x 1000 mm). Different pallet sizes are available on request.

The pallets must be stored dry (indoors).

Pallets must be stacked no more than 4 high, and we would like to emphasise that the safety rules that apply to stacking pallets must be observed. Ensure the prevention of damage to the packaging material.

### Initial wetting

In this phase, the cubes are completely saturated with water. This can be done in three different ways: on the production line before sowing or transplanting, with an ebb and flood system, or by watering with overhead sprinklers.

### Handling

Lowering the cubes, and, at a later stage, separating them. The RootmaXX cube is suitable for moving at least twice. Make sure that the grooves under the RootmaXX cube are placed perpendicular to the gutter heading to the water source.

The target level for moisture content is between 50% and 90% of the volume.

Please refer to the Cultilene Framework for more information about the propagation and growing phases. This can be found by using the Cultilene Smart Root Zone Management App and at [app.cultilene.com](http://app.cultilene.com).



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### Practical instructions

RootmaXX cubes can be delivered as individual cubes or on a strip.

Each pallet has a pallet label with information such as the production order number, item number, product description and product characteristics.

Cultilene SAINT-GOBAIN		PR18.30373-B3264-001	
Item code	Dimensions (LxWxH)	Contents	
B3264	100 X 100 X 65	2448 STUKS	
Productiecode: Oorsprong: Eigenschappen: Veiligheidsinstructie:	Substraat van wateropneembare minerale wol Houtrestantvrij. Minerale stoffen toevoeging binden, bevordert Sulfaatvrij voor afvoer: 72 kg/m <sup>3</sup> Porositeit: 97 % Wateropname bij uitdrog: 95 % Luchtgehalte bij uitdrog: 2 vol. % Aanraking zonder gevaar, inwendig gebruik dient te worden voorkomen. Zie ook de "Gebruiksaanwijzing"	Cultilene® Rootmaxx Donut Block Rootmaxx / BK P wikkel d-gat 10-22/27 midden los br. groef tussenplaat	Cultilene® Rootmaxx Donut Block d-hole 10-22/27 middle loose groove with plate
Productiecode: Compositie: Eigenschappen: Safety Instructie:	Substrate formeel afbreukbaar mineral wool Minerale stoffen toevoeging wikkel agent Bulk density prior to delivery: 72 kg/m <sup>3</sup> Pore Volume: 97 % Water content by dry: 95 % Air content by dry: 2 vol. % Touch without danger, inner use should be prevented. See also "Practical instructions for use"	MADE IN THE NETHERLANDS Levensduur / longevity: 1 jaar / Annual RHP - K23901 Support de culture NFU 44551 - Origine EU	

- Production order number  
(last three numbers are the pallet number)
- Article number / size of the cube / cubes per pallet
- Description of the cube
- Certificate RHP  
(independent product control)
- Product characteristics

### Environmental, health and safety concerns

#### Environmental concerns: recycling

Cultilene devotes a great deal of attention to the recycling of raw materials, both at our own production locations and, after use, at growers' locations. The recycled stone wool can be used, for example, in the production of bricks.

For more information about the recycling of your stone wool, you can contact your Cultilene representative.



#### Health concerns

If you are in direct contact with stone wool substrate, we advise you to wear gloves. In insufficiently ventilated spaces, we advise the use of a face mask. Wash your hands before and after handling the stone wool substrate. You can best do this by first rinsing your hands with water to get rid of the dust. Then wash your hands with soap.

Stone wool from Cultilene is a 'mineral wool' produced in certified EUCEB factories. EUCEB certifies the conformity of stone wool fibres with Note Q of Regulation (EC) No. 1272/2008.

#### Safety concerns

If needed, we can supply you with the General Safety Information Sheet for Stone Wool (SUIS).

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## Certification

All Cultilene production and manufacturing sites in Europe are certified with the ISO 9001 & 14001 standards.

In addition, RootmaXX is included in the RHP certification MOD550 stone wool substrate.

## Questions or remarks?

For questions about Cultilene RootmaXX cubes, you can contact:

Saint-Gobain Cultilene B.V.  
Tel: +31 (0)161 22 87 40

[www.cultilene.com](http://www.cultilene.com)  
[info.cultilene@saint-gobain.com](mailto:info.cultilene@saint-gobain.com)

## SMART ROOT ZONE MANAGEMENT

