



Pc

Stone wool propagation cube for professional vegetable growing

Product description

Cultilene Pc is a stone wool propagation cube that is made using a vertically oriented fibre structure. The cube has a lower density (without any loss of firmness) so there is less resistance during rooting. In addition, it is also characterised by quick rooting from the cube into the slab.

Product application

Cultilene Pc 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.

Pc 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.



Product characteristics

The Pc 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 ³
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 / m³. 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.

Pc

Stone wool propagation cube for professional vegetable growing

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 Pc cubes are:

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

Alternative sizes are available on request.

The Pc 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

Pc 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 Pc cube is suitable for moving at least twice. Make sure that the grooves under the Pc 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.



Pc

Stone wool propagation cube for professional vegetable growing

Practical instructions

Pc 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		
PR18.30466-B3367-001		
Item code	Dimensions (LxWxH)	Contents
B3367	100 X 100 X 65	2592 STUKS
Productiecode: Substraat van watergevoerbare minerale wol Series & Merk: Hoofdstandaard - Minerale steenwol leverings- binder, bewerkte Eigenschappen: Buisdiameter voor afwerking: 72 kg/m ³ Porositeit: 97 % Watergehalte bij uitst. 05 Luchtgehalte bij uitst. 2 vol. % Veiligheidsinstructie: Aansluitend zonder gebruik, om veilig gebruik dient te worden opgevoerd. Zie ook de "Gebruiksaanwijzing"	Cultilene® PlantCOMFORT blok PI.Comf.wikkel 1 gat 30/35 2wk 15/15 LB/RO strip br. groef tus.pl. 4-6 / 8-9 / 12-13 / 16-17	Cultilene® PlantCOMFORT cube PI.Comf.logo 1 hole 30/35 2wk 15/15 TL/BR strip groove with
Productiecode: Substrate from waterabsorbing mineral wool Composition: Main constituent: Mineral Stone wool additives binder, melting agent Properties: Bulk density prior to delivery: 72 kg/m ³ Pore Volume: 97 % Water content by drain: 05 Absorbent by drain: 2 vol. % Safety Instruct.: 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).

Pc

Stone wool propagation cube for professional vegetable growing

Certification

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

In addition, Pc is included in the RHP certification (MOD550 stone wool substrate).

Questions or remarks?

For questions about Cultilene Pc cubes, you can contact:

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

www.cultilene.com
info.cultilene@saint-gobain.com

SMART ROOT ZONE MANAGEMENT



This Product Material Data Sheet from Saint-Gobain Cultilene has been compiled with the greatest of care. Saint-Gobain Cultilene cannot accept liability for any inaccurate or incomplete information provided here, and no rights can be derived from the contents of this document.