



## > Qr

### Stone wool propagation cube for professional vegetable growing

#### Product description

Cultilene Qr is a stone wool propagation cube, mainly made of basalt and made with a vertically oriented fibre structure. This leads to quick rooting throughout the slab, thus stimulating the development of the plant and fruits. The cube has been developed to be able to respond quickly to water content and EC and to give good vegetative growth in the first growing phase.

#### Product application

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

#### Guarantee

The guaranteed lifespan of the stone wool substrate and foil is one crop if used under normal growing conditions in high tech greenhouses.

Qr 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).

## Why choose Cultilene Qr?

- ✓ Generative pulse in the first stage of growing
- ✓ Accelerated fruit and plant development
- ✓ Dryer top reduces algae, flies and root diseases

## Product characteristics

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

Parameter	
<b>Time required to sink</b>	Class 1 RHP < 25 sec
<b>Nominal water content - at drainage</b>	90%
<b>Nominal water content - pF1</b>	55%
<b>Control range *</b>	30 - 40%

\* Indication of average values in practice.

The RHP standard applies to the minimum values.

## Technical details

### Physical requirements

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

### Chemical requirements

Parameter	Norms
<b>EC</b>	≤ 0,5 dS/m
<b>pH value in stone wool</b>	5 - 6,5

## Substrate tolerances

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

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

## Standard product dimensions

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



## Characteristics Qr



### Reactivity

Control speed, controllability of the cube



### Refreshment

Refreshment rate for water, nutrition and oxygen



### Resaturation

Ease with which the cube can be resaturated with water



### Rooting to substrate slab

Speed with which the plant attaches itself to the slab



### Firmness

Mechanical processibility based



# Qr

## Developed to react quickly for control over water content and EC

### Packaging and storage

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

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

### User instructions

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

Cultilene		SAINT-ODDIN	
<b>PR18.30238-B2486-001</b>			
Itemcode	Dimensions (LxWxH)	Contents	
B2486	100 X 100 X 65	2448 STUKS	
Productnaam	Substraat	Cultilene® QR	Cultilene® QR
Samenstelling	Substraat	stiel	stoneel
Eigenaarschap	Substraat	blok	cube
Veiligheidsadvies	Substraat	Cult. QR wikkel	Cult. QR Logo
Productie	Substraat	1 gat 30/35	1 hole 30/35
Compositie	Substraat	midden	midden
Propriëit	Substraat	2wk 15/15 LO/RB	2wk 15/15 LO/RB
Safety label	Substraat	los	loose
		of: groef	groove with
		tussenplaat	plate
		spanband kruis	
		Kader 1210x1210	
		MADE IN THE NETHERLANDS	
		Leverancier / Supplier: 1 laag / 1 row	
		RHP - K2301 Support de culture NFU 4451 - 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

The pallets must be stored (indoors) in their original packaging in a dry place and away from direct sunlight. The products must be used within two years of the delivery date. 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.

## Environment, health and safety concerns

### Environment 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. In case of irritation to eyes or mouth; rinse with clean water and consult a doctor if necessary.

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

If needed, we can supply you with the General Safety Information Sheet for Stone Wool (Safe Use Information Sheet - SUIIS).

### Certification

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

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

### Knowledge

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



Scan the QR-code  
for how-to videos  
and white papers



Would you like more information  
about the **Qr cubes**?  
Get in touch!

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