



## ➤ Hr

### Stone wool propagation cube for professional vegetable growing

#### Product description

Cultilene Hr is a stone wool propagation cube that is made with a vertically oriented fibre structure. It is a sturdy cube and is perfectly suited for mechanical processing. It also has a large water buffering capacity which is an advantage in the summer months.

#### Product application

Cultilene Hr 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.

Hr 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 Hr?

- ✓ Firm cube
- ✓ Large water buffer
- ✓ Perfectly suited for mechanical handling

## Product characteristics

The Hr 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>	65%
<b>Control range *</b>	55 - 65%

\* 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>	76 kg/m <sup>3</sup> *
<b>Relative compression (RC)</b>	≤ 30% at 5 kPa
<b>Recovery capacity</b>	≥ 98% +/- 2% at 5 kPa
<b>Pore volume</b>	≥ 95%

\*The specific weight of the base material is 76 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 Hr 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 Hr 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 Hr


**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



# Hr

## strong cube and perfectly suited for mechanical handling

### Packaging and storage

Hr 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

Handling

Lowering the cubes, and, at a later stage, separating them. The Hr cube is suitable for moving at least twice. Make sure that the grooves under the Hr 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.

Item code	Dimensions (LxWxH)	Contents
B2343	100 X 100 X 65	2448 STUKS

<b>Productie:</b> Substraat van hoogwaardige minerale en organische bestanddelen. Minimaal steriel behandeld. <b>Verpakking:</b> In de vorm van een kubus. <b>Eigenschappen:</b> Duurzaamheid voor afwisseling (R/kg/m <sup>2</sup> ). <b>Watergehalte:</b> 50% <b>Watergehalte bij afzet:</b> 30% <b>Levensduur:</b> 2 tot 3 jaar. <b>Verpakking:</b> 2448 stuks per pallet. <b>Veiligheidsinformatie:</b> Het is belangrijk om de gebruiksaanwijzing te lezen voor het gebruik van dit product.	<b>Cultilene® HR substraat blok</b> <b>Cult. wikkel</b> <b>1 gat 30/35 midden</b> <b>2x6 15/15 L/R/B los</b> <b>br. groef tussenplaat</b> <b>spanband kruisli</b> <b>Kader 1210x1210</b>	<b>Cultilene® HR storage cube</b> <b>Cult. logo</b> <b>1 hole 30/35 middle</b> <b>2x6 15/15 L/R/B loose</b> <b>groove with plate</b>
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**MADE IN THE NETHERLANDS**  
 Leverbaar / Available: 1 jaar / Annual

**RHP - K2001 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

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, Hr 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 **Hr cubes**?  
Get in touch!

► **Saint-Gobain Cultilene B.V.**  
+31 (0)161 22 87 40  
[info.cultilene@saint-gobain.com](mailto:info.cultilene@saint-gobain.com)  
[www.cultilene.com](http://www.cultilene.com)

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