



## ➤ OptimaXX

Stone wool slab for professional vegetable growing

### Product description

Cultilene OptimaXX is a stone wool slab, mainly made of basalt and made with the X-fiber 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. OptimaXX provides perfect control and an even distribution of the water content and EC throughout the slab. This ensures that the slab can be managed for good vegetative and generative growth.

### Product application

Cultilene OptimaXX slabs 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.

OptimaXX 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 OptimaXX?

- ✓ Good distribution of water and EC
- ✓ Quickly adjustable water buffer
- ✓ Perfectly controllable EC and water content

### Product characteristics

The OptimaXX slab is just one of the solutions from Cultilene for growing plants. This controllable water buffer has the following characteristics:

Parameter	
Time required to sink	Class 1 RHP < 25 sec
Nominal water content - at drainage	90%
Nominal water content - pF1	55%
Control range *	50 - 80%

\* Indication of average values in practice.  
The RHP standard applies to the minimum values.

### Technical details

#### Physical requirements

Parameter	
Organic matter	1,0 - 5,5%
Bulk density at delivery	45 kg/m <sup>3</sup> *
Relative compression (RC)	≤ 30% at 5 kPa
Recovery capacity	≥ 98% +/- 2% at 5 kPa
Pore volume	≥ 95%

\* Tolerance + / - 10%.

#### Chemical requirements

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

### Substrate tolerances

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

Dimensions of slabs	
Length	+ / - 7 mm
Width	+ / - 5 mm
Height	+ / - 5 mm
Plant holes in slabs	
Centre-to-centre spacing	+ / - 2 mm
Position of first hole	+ / - 10 mm
Centre hole to slab edge (side)	+ / - 10 mm
Depth of hole	+ / - 3 mm
Diameter of hole (round holes)	+ / - 2 mm
Length x width (other holes)	+ / - 2 mm

### Standard product dimensions

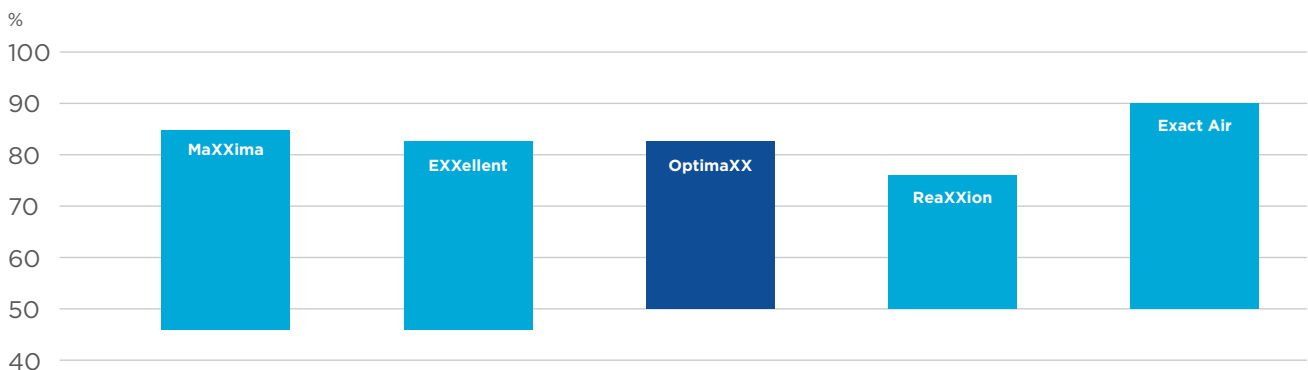
The most commonly used dimensions for OptimaXX slabs are a combination of the following length, width and height measurements:

Length (mm)	Width (mm)		
	120	150	195
1000	75	75   100	75
1200	75	75   100	75
1330	75	75   100	75
2000	75	75	75

Alternative sizes are available on request.

If desired, the OptimaXX slabs are provided with plant holes. After production and processing, the slabs are stacked on pallets and prepared for transport.

### Control range





## Environment, 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.

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 - SUIS).

### Certification

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

In addition, OptimaXX 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  
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and white papers



Would you like more information  
about the **OptimaXX slab**?  
Get in touch!

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