

# VOLCANIC SUBSTRATE V 1.1 – EXTENSIVE LIGHT (VSEL)

PRODUCT CARD - VSEL 1100

## Destiny

Growing ornamental plants on flat and sloping roofs and native soil, reduced surface load factor

## Composition

Aggregates of volcanic origin, washed quartz sedimentary rock, organic fertilizer of plant origin, lightweight fossil aggregates

## Packaging

Big bag (approx. 1m<sup>3</sup>) / loose

## Fire resistance class

B<sub>Roof</sub> (t1)

## Physical properties

Fraction content below 0.063 mm:	< 10% by weight
Fraction content < 4 mm	< 50% by weight
General porosity	> 50%
Maximum water capacity	35 - 65 %
Air capacity at maximum water capacity	10 - 20 %
Organic matter content	< 65g/dm <sup>3</sup>
Water permeability mod. kf	> 0,6 - 70 mm/min
Compaction factor	≤ 20%
Settlement coefficient after mechanical compaction	≤ 5%
Dry weight	≤ 850 kg/m <sup>3</sup>
Weight when fully saturated with water	≤ 1100 kg/m <sup>3</sup>

## Chemical properties

pH value (CaCl <sub>2</sub> )	6 - 8,5
EC value	1 - 2
Salinity in g NaCl/l / g KCl/l	< 2,5 / < 2,5
Permissible amount of contamination	< 0,5%

## Additional information

To maintain the appropriate properties of the product, remember that the product should not be transported if it is excessively saturated with water or too frosty. Since the manufacturer is not responsible for improper treatment of the product, remember to store the product properly at the construction site. Big-bags should not be stacked, the product should not be exposed to contamination that may negatively affect its properties, and the product should not be properly protected against excessive moisture in the event of long-term storage. If you have any questions and/or doubts, please contact our technical and commercial advisor.

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The volume of the mixture was calculated using the method of determining bulk density in accordance with the PN-EN 12580 standard.

The product is approved for trading by the Ministry of Agriculture and Rural Development by decision No. P-737/18 of 07/02/2018

The product complies with the requirements for BREEAM certification at every level of assessment.

The product fully complies with the guidelines for substrates for green roofs according to FLL recommendations.



**„WE REDUCE THE CARBON FOOTPRINT”**

The above data are approximate values obtained under laboratory conditions in an accredited testing laboratory. These values are subject to a certain tolerance. The data contained in this product information is consistent with ZIDA's technical knowledge at the time of issue. ZIDA reserves the right to supplement and change it in due time based on the latest information and modifications to the listed properties.

We are not responsible for printing errors.





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