

PRODUCT CARD

GREENFOND

SDI E-I intensive substrate

GREENFOND SDI E-I is a mineral substrate intended as a vegetation layer on green roofs for intensive vegetation

Intensive roof substrate GREENFOND SDI E-I specialized mineral and organic soil substrate for cultivation on intensive roofs in multilayer systems using drainage in the form of plastic mats or aggregates. Thanks to the use of properly selected drainage mats, the GREENFOND SDI E-I roof substrate ensures stable vegetation on the green roof.

BASIC COMPOSITION:

rinsed sand, rinsed gravel, crushed brick, slag or ash-like aggregate , low peat, compost

USAGE:

- vegetation layer for planting on flat roofs 0 - 5 °
(inverted and insulated roofs, floor slabs above garages and terraces, flower pots)
- intense roofing substrate for bulb plants, perennials, lawns, shrubs, trees
- recommended thickness of min. 15 cm

For thicknesses above 35 cm we recommend to use inorganic substrate e.g. GREENFOND PW subsoil under SDE E-I substrate.

ADMISSION TO TRADING:

Decision P.-271/12 of the Minister of Agriculture and Rural Development in accordance with the Act of 10 July 2007 on fertilizers and fertilization (Dz.U.Nr poz.1033 147).



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RECOMMENDATIONS FOR APPLICATION:

SUPPLY:

The substrate must be delivered to a construction site in covered bulk containers or in Big-Bags. Substrate should not be supplied in conditions of excessive water saturation or freezing. Do not deliver the substrate in direct contact with other materials that may change its physical or chemical properties.

STORAGE:

After delivery to the construction site, the substrate should be stored in a prepared, cleaned and free of rainwater area, i.e. on a hardened ground or in a place which protects the substrate from contamination, e.g. on sand or geotextile. If longer storage is required at the construction site, the substrate should be protected against contamination, weed infestation, washing, erosion and excessive moisture.

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PHYSICAL PROPERTIES*

Granulometric composition:	
fractions below 0.05 mm	max. 10% weight
0.05 mm 2 fractions	max. 60% weight
fractions 2 40 mm	min. 30% weight
Content of absorbent aggregates	approx.. 35%
The content of organic ingredients	up to 90 kg/m ³
Compactability (wear factor)	approx. 20%
Settling after compaction	less than 5%
Bulk weight in dry condition	about 1200 kg/m ³
Weight in the state of max. water saturation	1500-1700 kg/m ³
General porosity	approx. 55%
Water capacity	approx. 45%
Air capacity	about . 10%
Water flow speed	approx.. 3 mm/min
The content of other substances	less than 0.5% by weight <small>(aggregates other than those mentioned, oversize aggregates, etc.)</small>

CHEMICAL PARAMETERS **

The pH is H2O	6,5 - 8,5
Salinity [KCL / l]	less than 1,5 g/l
Nitrogen (N)	less than 80 mg/l
Phosphorus (P)	less than 200 mg/l
Potassium (K)	less than 700 mg/l
Magnesium (Mg)	less than 160 mg/l

PRODUCT SPECIFICATIONS:

The size of the bag	Big-Bag 1m ³
Article number	30.1202

(*) Own research in accordance with the FLL green roofs planning, construction and care guidelines.
Guidelines for the Planning Construction and Maintenance of Green Roofing, FLL. ed. , 2008.

(**) Average values obtained during standard laboratory tests performed by the Chemical and Agricultural District Station in Warsaw.