

SDS extensive substrate

Part no.: 9100



Application area

The SDS is part of our engineered growing media range that includes the various kinds of green roof substrate. SDS is a lightweight substrate rich in minerals ideal for quick plant establishment even in a shallow layer of only 80 - 120 mm deep. SDS ensures good thermal and water retention properties in the long run. Proper pH value balanced nutrient content and soil conditioner are vital properties present in all our engineered green roof growing media range that we offer. It is such engineered properties that enhance the growth and development of the vegetation on our extensive living roofs while limiting the growth of garden weeds.

Benefits

- ☑ lightweight
- ☑ limited weed growth
- ☑ excellent water permeability and water retention properties
- ☑ makes up a stable layer that does not collapse in the long run
- ☑ complies with the FLL Green Roof Guidelines - Guidelines for the Planning, Construction and Maintenance of Green Roofs

Technical data

Volume weight: unsaturated / saturated (water)	~ 1150 kg/m ³ / max. 1500 kg/m ³
Grain size	max. 16 mm
Water permeability	min. 0.001 cm/s (0.6 mm/min.)
Water retention capacity / Max. water capacity	20 Vol% < VK _{max} < 65 Vol%
Proportion of slurry forming components / sediment (d < 0.063 mm)	max. 15 Weight%
Air content (Besides max. water capacity)	min. 10 Vol%
pH value	7-8.5
Organic content	max. 50 g/l
Water soluble minerals	max. 3.5 g/l

Specification suggestion

ArchiGreen® SDS is a lightweight substrate, rich in minerals, installed to ensure optimal functionality of multi-layered extensive green roofs in the long run. Volume weight in case of WS_{max} approx. 1150 kg/m³; water storage capacity 20 vol. % < WS_{max} < 65% vol. %; air content: >10 vol. %; pH value: 7 - 8.5; water permeability: 0.001 cm/s; water soluble minerals: < 3.5 g/l; delivery can be arranged in loose bulk or in 1 m³ big bags; suggested compaction rate during installation: 12% - 13%.

Installation example

