

TECHNICAL DATA SHEET

ND WSM-50 Water Reservoir Panel



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A structural, stable water reservoir panel made out of hydrophilic mineral wool that enables the Nophadrain Intensive Green Roof System to retain water naturally, similar to the manner in which clay or sub-soils retain water. The panels have a water retention capacity of approx. 40 l/m² at a build-up depth of only 50 mm. Owing to the limited amount of compressibility, the panels have been approved as water buffering and a substrate substitute in accordance with the FLL*-Green Roof Guideline for the planning, execution and upkeep of green roof sites (2018).

Through direct contact of the water reservoir panels with the substrate layer, the vegetation is able to regulate its own water balance, as nature intended. When the water reservoir panels become saturated, surplus water is discharged into the ND Drainage System. By using the ND WSM-50 Water Reservoir Panels, there is no build-up of hydrostatic pressure against the waterproofing membrane.

Applications

The ND WSM-50 Water Reservoir Panel is component of the Nophadrain Intensive Green Roof System and the Nophadrain Water Buffering Roof System.

Properties

- Material: hydrophilic mineral wool
- Density: approx. 120 kg/m³
- Water retention capacity: approx. 40 l/m² = 80 % volume
- Air volume: approx. 16 %
- pH value: approx. 7 - 8
- Weight: dry approx. 6 kg/m², saturated approx. 46 kg/m²
- Test: Kiwa MPH Bautest GmbH - Test on the filter stability of the ND WSM-50 Water Reservoir Panel in combination with top soil (test on dry out).
- Product fulfills the requirements of hEN13162:2012+A1:2015
- Reaction to fire (hEN 13501-1:2010-01): Class A1

Product	Dimension (L x W x H)	Packaging
ND WSM-50 Water Reservoir Panel	approx. 1,200 x 1,000 x 50 mm	approx. 4.8 m ² , package

* Forschungsgesellschaft Landschaftsentwicklung Landschaftsbau e.V. - www.fll.de

nophadrain[®]
SMART GREEN ROOF SYSTEMS

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