

TECHNICAL DATA SHEET

ND re-GROW Sedum Cassette



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The ND re-GROW Sedum Cassette makes it possible to realize an extensive green roof in one go. The cassettes are made of 100% regrowing materials and are industrially composable. The cassettes have dimensions of 600 x 400 mm x 70 mm. The cassettes combine the drainage layer, water buffering layer, substrate layer and vegetation layer in one product. This means that it's not necessary to apply substrate and vegetation separately. The cassettes are designed in such a way that they can be connected quickly and easily on the root-resistant waterproofing membrane, which has to be protected by a protective layer such as the ND SV-300 Protection Geotextile.

Composition

1. Drainage layer: excess rainwater can drain into the sewage system. That is why four drainage holes have been made per cavity at the top and bottom of the water-buffering layer.

2. Water buffering layer: rainwater is buffered capillary in a substrate of slightly expanded clay granules. The excess water that can't be stored is being drained quickly of the roof. To create an extra water buffer for dry periods, water is also stored non-capillary because the drainage holes are installed about 1 cm from the bottom.

3. Substrate layer: the thickness of the substrate layer is adapted to the needs of the sedum and the climate. The substrate layer provides the nutrients and water supply for the sedum on the one hand, and oxygen and anchorage for the roots on the other.

4. Vegetation layer - Sedum: the sedum cassettes have at least 80% coverage with 4 to 8 different types of sedum. The following species may occur:

Sedum acre	Sedum album Coral carpet	Sedum album Murale
Sedum floriferum Weihenstephaner Gold		Sedum hispanica
Sedum hybr. Immergrünchen	Sedum kamschaticum	Sedum lydium
Sedum lydium	Sedum lydium Glaucum	Sedum reflexum
Sedum reflexum Angelina		Sedum sexangulare
Sedum spurium Album Superbum		Sedum spurium Coccineum
Sedum spurium Fuldaglut	Sedum spurium Red Carpet	Sedum spurium Rosea

Delivery and installation

The ND re-GROW Sedum Cassettes can be delivered per piece and can be used on roofs with no/limited falls and roofs with a slope up to 15 degrees. First, always check whether the waterproofing membrane is suitable for the installation of a green roof. Suitable root-resistant foils (such as the ND WSB-50 Root Barrier) and protective membranes (such as the ND SV-300 Protection Geotextile) can also be found in our product range. If necessary, the cassettes can be cut to size. The transition to ascending areas can easily be achieved with gravel.

Properties

- Material cassette: 100% regrowing materials (PLA)
- Dimensions (L x W x H): approx 600 mm x 400 mm x 70 mm
- Weight filled cassette (dry): approx 39.6 kg/m² (approx. 9.5 kg/cassette)
- Weight filled cassette (saturated): approx 64.6 kg/m² (approx. 15.5 kg/cassette)
- Water buffering: approx 25 l/m²
- Surface: approx 4.17 cassettes/m²
- Amount per pallet (euro pallet: 120 x 80 cm): 52 pieces