

System Solutions

The Optigreen organization is specialized in green roofs of all kinds and sizes.

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Private customers



Nature Roof

- Overview
- Solution 1
- Solution 2
- Plant list
- References



Economy Roof



Light-weight Roof



Retention Roof



Pitched Roof



Garden Roof



Landscape Roof



Public Roof



Thermal Roof

Solutions - Nature Roof ← You can browse backwards here

Green Roof "Nature Roof"

Specifications

- Solution 1: 0-5° (Please select a variant)
- Solution 2: 0-5°

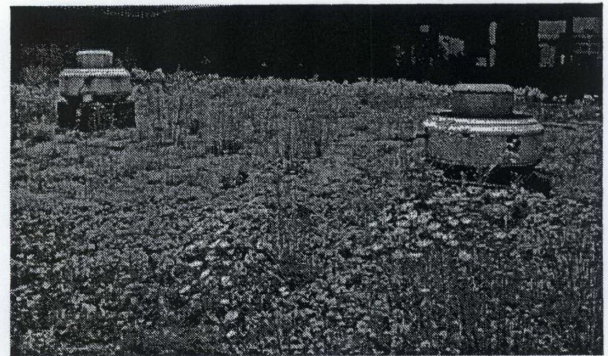
Special features

Different substrate heights enable:

- High diversity of flora and fauna species.
- Green roofing with high ecological value.
- Habitat for wild bees and butterflies.
- Long lasting and colourful blooming effect.
- Use of recycled materials.

Technical data

| | |
|------------------------|--|
| Weight: | 100-300 kg/m ² or 1.0-3.0 KN/m ² * |
| Layer height: | 100-250 mm |
| Roof pitch: | 0-5° (0-9%) |
| Vegetation form: | Herbs-grasses-sedum, possibly woody plant |
| Water retention: | 60-90 % |
| Discharge coefficient: | 0.4-0.1 |
| Water storage: | ca. 30-80 l/m ² |
| Ecological value: | ■ ■ ■ ■ ■ |
| Maintenance and care: | ■ ■ ■ ■ ■ |
| Cost factor: ** | ■ ■ ■ ■ ■ |



* Weight details relate to water-saturated conditions; weight when dry is equal to ca. 60-70 % of w when wet.
 ** Price varies regionally.

Systematic green roofing, the Optigreen system for green roofs



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 Private customers **Nature Roof** You are here: System

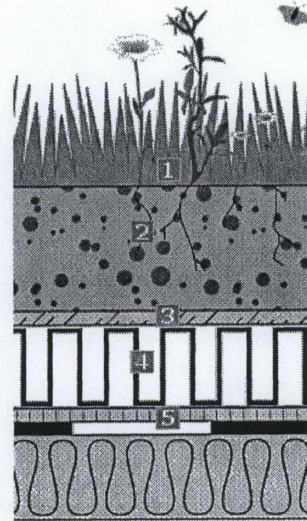
- Overview
- Solution 1
 - Specification
 - Product datasheet
 - Layer build-up

Solution 2

- Plant list
- References

- Economy Roof
- Light-weight Roof
- Retention Roof
- Pitched Roof
- Garden Roof
- Landscape Roof
- Public Roof
- Thermal Roof

Solutions - Nature Roof - Solution 1 ← You can browse backwards here
 Green Roof Nature Roof Solution 1



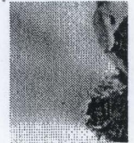
1 Perennial plants and/or Optigreen seed mixture type E and sedum shoots

A proven and specially balanced seed mixture consisting of many herbs and grasses as well as a wide variety of sedum sprouts



2 Optigreen extensive substrate type E* (50-200 mm)

A substrate with high water storage capacity and good air pore volumes designed for multi-layer build-up. 200-mm substrate mounds if specified.



3 Optigreen filter mat type 105

Prevents fine particles from forming sludge in the drainage layer; high water permeability



4 Optigreen drainage board type FKD 40 (40 mm)

- Efficient drainage of rain water
- Prevents water accumulating on non-pitched roofs and on roofs with long drainage distances
- Lightweight build-up with high drainage capacity
- Layer allows diffusion release



5 Optigreen protection mat type RMS 300/500**

Protects the roof membrane against damage and stores water. For inverted roofs, use Optigreen trickle protection mat type RS instead of RMS fleece.



Brief description

Supply and install...

- ... m² Optigreen protection mat type RMS 300/500** as protection to the rootresistant roof me
- ... m² Optigreen drainage board FKD 40 as drainage layer
- ... pcs. Optigreen Triangle inspection chamber fitted over roof outlets
- ... m² Optigreen filter mat type 105 as filter layer between drainage layer and extensive subst
- ... m² 60 mm (or more) Optigreen extensive substrate type E* as vegetation-bearing layer
- ... m² 200 mm occasional mounds with Optigreen extensive substrate type E
- ... m² seeding with Optigreen seed mixture type E and 50 g sedum shoots for fast and reliable establishment
- ... m² planting with woody plants or perennials suitable for dry conditions in substrate mounds
- ... m² maintenance care

* Weight information refers to water-saturated conditions; the dry weight amounts to ca. 60-70 %.
 ** Pursuant to national directives

**"Plants" Product Solution
 Sedum - Grass - Herb**

| Botanical Name | Common Name |
|----------------------|-------------------|
| Sedum/Herbs | |
| Achillea millefolium | Yarrow |
| Achillea tomentosa | Yellow Milfoil |
| Allium schoenoprasum | Chive |
| Antennaria dioica | Catsfoot |
| Anthemis tinctoria | Golden Marguerite |
| Centaurea scabiosa | Greater Knapweed |

| | |
|---------------------------------|---------------------|
| Chrysanthemum leucanthemum | Oxeye Daisy |
| Dianthus carthusianorum | Carthusian Pink |
| Hieracium pilosella | Clear Hawkweed |
| Hieracium x rubrum | Red Hawkweed |
| Petrorhagia saxifraga | Tunic Flower |
| Potentilla verna | Spring Cinquefoil |
| Prunella grandiflora | Cut-leaf Self-heal |
| Sanguisorba minor | Salad Burnet |
| Saponaria ocymoides | Rock Soapwort |
| Sedum album "Coral Carpet" | Coral Carpet |
| Sedum reflexum | Reflexed Stonecrop |
| Sedum sexangulare "White Tatra" | Tasteless Stonecrop |
| Sedum spurium | Two Row Stonecrop |
| Thymus montanus | Mountain Thyme |
| Thymus serpyllum | Creeping Thyme |
| Verbascum phoeniceum | Purple Mullein |
| Veronica teucrium | Large Speedwell |
| Grasses | |
| Carex facca | Bluegreen Sedge |
| Carex humilis | Dwarf Sedge |
| Festuca amethystina | Amethyst Fescue |
| Festuca ovina | Sheep's Fescue |
| Poa compressa | Canada Bluegrass |

"Plants" Product Solution**Grass - Herb**

| Botanical Name | Common Name |
|---------------------------------|----------------------|
| Sedum/Herb | |
| Achillea millefolium | Yarrow |
| Allium roseum | Rosy Garlic |
| Allium schoenoprasum | Chive |
| Anthemis tinctoria | Golden Marguerite |
| Aster linosyris | Goldilocks Aster |
| Centaurea scabiosa | Greater Knapweed |
| Campanula rotundifolia | Harebell |
| Dianthus carthusianorum | Carthusian Pink |
| Iris pumila | Pygmy Iris |
| Iris tectorum | Roof Iris |
| Petrorhagia saxifraga | Tunic Flower |
| Pulsatilla vulgaris | Pasque Flower |
| Scabiosa canescens | Fragrant Scabiosa |
| Sedum album "Murale" | White Stonecrop |
| Sedum sexangulare "White Tatra" | Tasteless Stonecrop |
| Sedum telephium | Stonecrop |
| Thymus montanus | Mountain Thyme |
| Veronica teucrium | Large Speedwell |
| Chrysanthemum leucanthemum | Oxeye Daisy |
| Hieracium x rubrum | Red Hawkweed |
| Origanum vulgare | Wild Marjoram |
| Prunella grandiflora | Cut-leaf Self-heal |
| Ranunculus bulbosus | St. Anthony's Turnip |
| Sedum "Weihenstephaner Gold" | Weihenstephaner Gold |
| Sedum reflexum | Reflexed Stonecrop |
| Sedum spurium | Two Row Stonecrop |
| Teucrium chamaedrys | Common Germander |
| Verbascum nigrum | Dark Mullein |
| Grasses | |
| Bromus tectorum | Cheatgrass |
| Festuca rupicaprina | Chamois Fescue |
| Festuca valesiaca | Volga Fescue |
| Melica ciliata Silky | Spike Melic |
| Poa compressa | Canada Bluegrass |

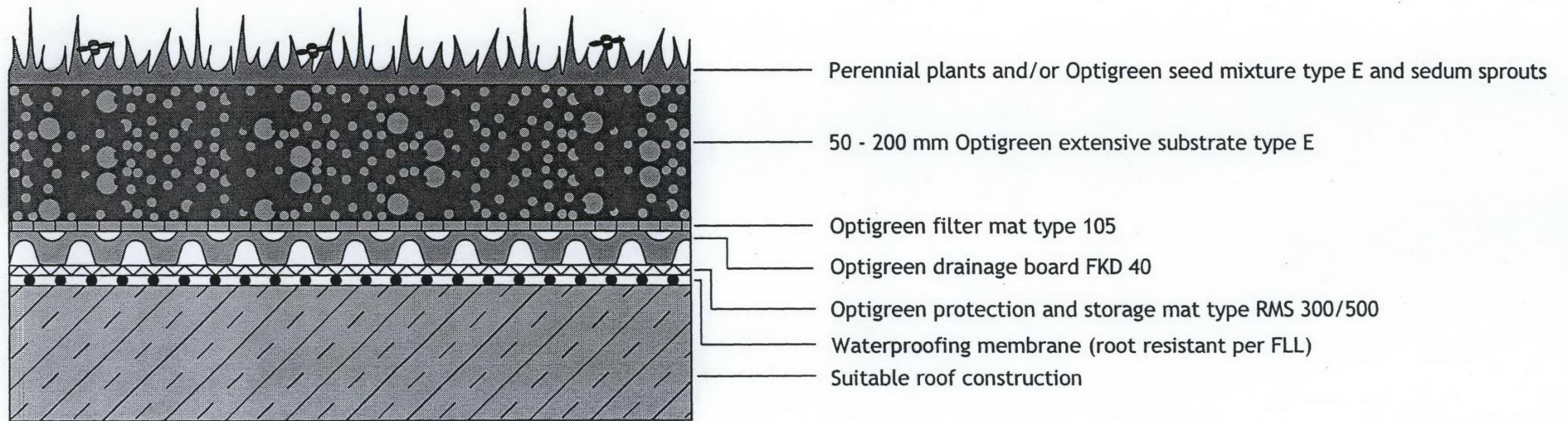
"Plants" Product Solution**For plant zones bordering open water surfaces**

| Botanical Name | Common Name |
|--------------------------|----------------------|
| Ajuga reptans | Common Bugleweed |
| Alisma plantago-aquatica | Water Plantain |
| Caltha palustris | Marsh Marigold |
| Carex acuta (gracilis) | Slender Tufted Sedge |
| Carex acutiformis | Lesser Pond Sedge |
| Lysimachia numularia | Creeping Jenny |
| Lythrum salicaria | Purple Loose-Strife |
| Mentha aquatica | Water Mint |
| Sparganium erectum | Branched Bur-Reed |
| Veronica beccabunga | Brooklime |

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Optigreen System Type "Nature Roof"

Solution 1: Drainage by FKD 40



The depicted product solution is intended for use with green roof systems. Other construction tradework is simplified in this representation and should be constructed according to current industry standards. This drawing is not to scale. Optigreen reserves the right to make changes to its product solutions.