

# INNOVATING WITH NATURE

## Sedum Roof Plus (XL)

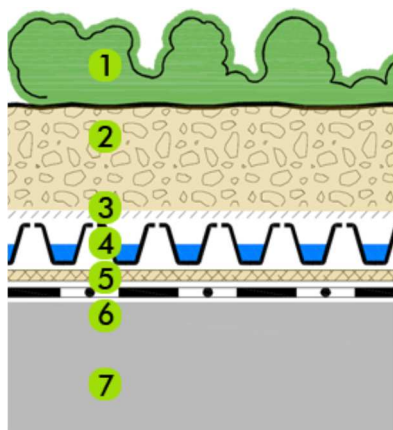
The time-tested ecological protection layer

As the name suggests, this green roof system builds on a plant palette dominated by sedum species but includes various drought tolerant upright perennials and grasses. Increased water retention and soil depth provide for a wider range of plant choices and a more dynamic visual effect.

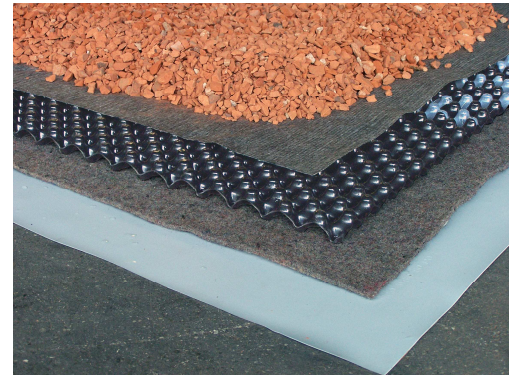
## FLORADRAIN FD25-E

The superior ZinCo Floradrain FD25 element creates a durable, proven and continuous layer underneath the growing medium that is able to store stormwater, carry off excess stormwater and provide air to the root system of the vegetation. It is made for easy installation without the use of heavy tools.

### Assembly:



1. Plant Material (Sedum + Uprights)
2. Growing Medium ZinCoblend E  
Depth 100-120 mm.
3. ZinCo Filter Sheet SF
4. ZinCo Floradrain® FD25-E
5. Protection mat ZinCo SSM45
6. ZinCo Root Barrier WSF40
7. Roof Construction with  
Waterproofing Membrane



### Planting Options:



Plug Plants



Pre-grown vegetation mat

### Features:

- Compact and light weight
- Minimum maintenance
- No irrigation / simple irrigation
- Planting: sedum, perennials & grasses
- Easy installation
- More diverse plant palette

Slope: 2-5 degrees  
Saturated weight: 127 kg/m<sup>2</sup> (25 psf)  
Height: 120-140 mm (5"-6")  
Retention capacity: 48 L/m<sup>2</sup>



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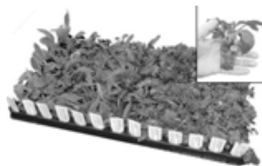
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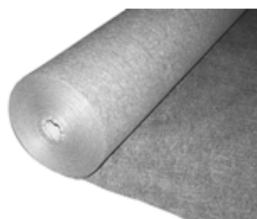
Special plants for extensive green roofs. Available species: sedums, grasses and drought resistant perennials. For information about plant lists see page 4-6 or contact us at: 905-690-1661 or e-mail: [greenroof@zinco.ca](mailto:greenroof@zinco.ca)

Product	Art. Nr.	Size of Delivery
Sedum Cuttings	8300	Per pound
Plug plants tray of 50	8200	Plug
Plug plants tray of 72	8220	Plug
Pre-grown vegetation mat	8100	Approx. 1,0 x 2,00 m mats



Growing medium for extensive Green Roofs ZinCoblend –E are produced using recycled materials and minerals, enriched with high quality compost elements, resistant to flying sparks, frost-resistant, stable structure. Special engineered by ZinCo Canada and meets the FLL-standards for Planning, Execution and Upkeep of Green Roof sites.

Product	Art. Nr.	Size of Delivery
ZinCoblend-E - Bulk	6110	Per cubic meter
ZinCoblend-E - Big Bag	6120	Per cubic meter



ZinCo filter sheet SF made of non-rotting thermally consolidated polypropylene. Used in combination with the Floradrain elements. Water flow rate: 70 l/(m<sup>2</sup>s) if there is a water column of 100 mm. Apparent opening size: d90%= 95 µm. Weight: 100 g/m<sup>2</sup>. Thickness: 0.60 mm. Penetration force: 1100 N.

Product	Art. Nr.	Size of Delivery
Filter Sheet SF	2100	Approx. 2.00 m x 100.00 m roll
Filter Sheet SF	2101	Approx. 2.00 m x 10.00 m sheet
Filter Sheet SF	2102	Approx. 1.00 m x 100.00 m roll



ZinCo drainage and water retaining element Floradrain® FD25-E for extensive green roofs. Made of recycled polyethylene, with water retaining troughs and openings for ventilation and evaporation as well as a multidirectional drainage channel system. Bitumen resistant - Max. compressive strength > 270 kN/m<sup>2</sup>. Water storage capacity: 3 l/m<sup>2</sup>. Weight: approx. 1,7 kg/m<sup>2</sup>. Height: 25 mm

Product	Art. Nr.	Size of Delivery
Floradrain® FD 25-E	3028	Approx. 1,00 x 2,00 m elements
Floradrain® FD 25-R	3023	Approx. 1,00 x 15,00 m roll
Floradrain® FD 25-RV	3022	Approx. 1,00 x 15,00 m roll (incl. Filter Sheet)



ZinCo moisture and protection mat SSM45 made of high quality recycled non-rotting polypropylene fibers for water- and nutrient retention as well as a protection layer. Thickness: 5 mm. Weight approx. 470 g/m<sup>2</sup>. Water retention capacity: 5 l/m<sup>2</sup>. Penetration force: > 2000 N. Bitumen resistant - Biologically and chemically neutral - tear proof

Product	Art. Nr.	Size of Delivery
SSM 45	2045	Approx. 2.00 m x 50.00 m roll



ZinCo root barrier WSF 40 (Optional item if non root-resistant waterproofing used.) made of high density polyethylene for extensive Green Roofs - Bitumen and polystyrol resistant - Without plasticizer - tear-proof - UV-stabilized. Thickness: 0,34 mm. Weight: 320 g/m<sup>2</sup>. Tensile strength: 40 - 47 N/mm<sup>2</sup>.

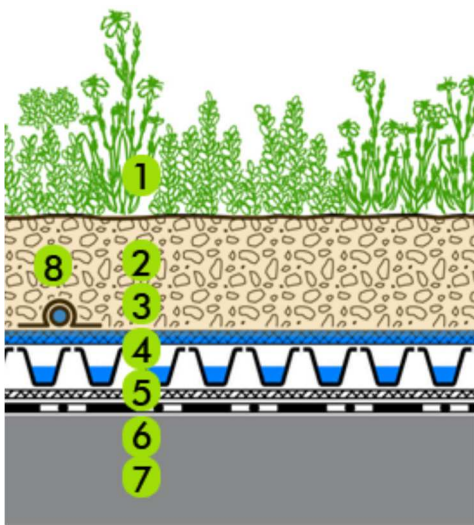
Product	Art. Nr.	Size of Delivery
WSF 40	1040	Approx. 8.00 m x 25.00 m roll
WSF 40	1041	Approx. 6.25 m x 20.00 m roll
WSF 40	1043	Approx. 2.00 m x 50.00 m roll
WSF 40	1044	Approx. 3.00 m x 33.50 m roll
WSF 40	41040	Approx. 6.25 m x 3.20 m sheet

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### IRRIGATION

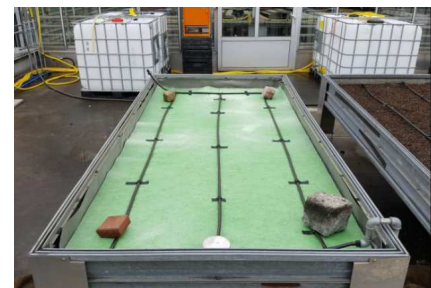
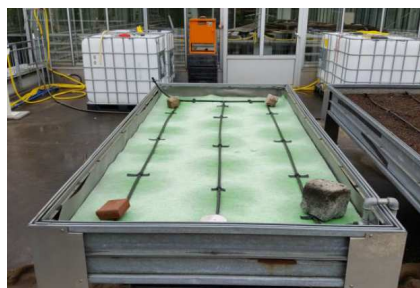
While the automated irrigation of extensive green areas was always more common in regions around the Mediterranean, it is now becoming more important in other regions too. Due to the ongoing climate change, many regions are increasingly having to deal with long periods of drought. Very often only succulents will survive. To ensure that also the non-succulent plants survive the dry periods ZinCo has developed the highly efficient water distribution fleece Aquafleece AF300 which is replacing the filter sheet. This fleece reduces the amount of water used to irrigate the green roof as well as the total length of dripline as the distance in between the lines can be significantly wider.



1. Plant Material (Sedum + Uprights)
2. Growing Medium ZinCoblend E  
Depth 100-120 mm.
3. **ZinCo Aquafleece AF300 irrigation**
4. ZinCo Floradrain® FD25-E
5. Protection mat ZinCo SSM45
6. ZinCo Root Barrier WSF40
7. Roof Construction with  
Waterproofing Membrane
8. **Dripline irrigation system.**



*Sedum Roof Plus with Aquafleece AF300*



*The above pictures show the distribution of water from the start till totally saturated.*

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### Plant Suggestions "Base Planting":

Quantity 16 – 20 plants/m<sup>2</sup>

Name:	Height:	Colour:	Zone:	Flower:	Size:
1. Sedum album	15 cm	green	4	white	plug
2. Sedum album "Coral Carpet"	5 cm	green/red	4	white	plug
3. Sedum album "Murale"	5 cm	green	4	white	plug
4. Sedum floriferum "Weihenstephaner Gold"	10 cm	green	3	yellow	plug
5. Sedum hybridum "Immergrunchen"	15 cm	red/green	4	yellow	plug
6. Sedum hybridum "Czar's Gold"	15 cm	green	3	yellow	plug
7. Sedum kamschaticum	10 cm	green	4	yellow	plug
8. Sedum reflexum	15 cm	green/gray	3	yellow	plug
9. Sedum rupestre "Angelina"	12 cm	yellow	4	yellow	plug
10. Sedum rupestre "Blue Spruce"	15 cm	blue/gray	3	yellow	plug
11. Sedum rupestre "Green Spruce"	15 cm	green	3	yellow	plug
12. Sedum sexangular	10 cm	green	4	yellow	plug
13. Sedum spurium album	15 cm	green	4	white	plug
14. Sedum spurium "Fuldaglut"	15 cm	green/red	3	red	plug
15. Sedum spurium "John Creech"	10 cm	green	3	pink	plug
16. Sedum spurium "Roseum"	15 cm	green	4	pink	plug
17. Sedum spurium "Voodoo"	10 cm	red	4	red	plug

\* note: for base planting no irrigation required



(Plant list single uprights see next page)

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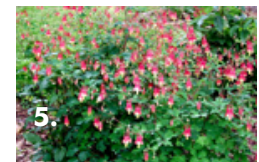
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### Plant suggestions "Single Uprights":

Quantity: 4-5 plants/m<sup>2</sup>

Name:	Height:	Colour:	Zone:	Flower:	Size:
1. Achillea tomentosa	20 cm	gray/green	2	yellow	plug
2. Allium cernuum	50 cm	green	3	pink	plug
3. Allium x millennium	40 cm	green	4	pink	plug
4. Antennaria dioica	12 cm	silver/green	2	pink	plug
5. Aquilegia canadensis	40 cm	green/blue	2	red	plug
6. Aster alpinus	25 cm	green	3	purple	plug
7. Aurinia saxatilis "Compacta"	15 cm	green	3	yellow	plug
8. Campanula portenschlagiana	30 cm	green	4	blue	plug
9. Cerastium tomentosum	15 cm	gray	2	white	plug
10. Coreopsis lanceolata	50 cm	green	4	yellow	plug
11. Coreopsis verticillata 'Zagreb'	40 cm	green	4	yellow	plug
12. Dalea candida	50 cm	green	3	white	plug
13. Dalea purpurea	50 cm	green	3	purple	plug
14. Dianthus gratianopolitanus	25 cm	silver/blue	3	pink	plug
15. Erigeron glaucus	30 cm	green	2	lilac	plug
16. Festuca glauca "Pepindale Blue"	25 cm	blue	3	blue	plug

\* note: when using single upright plants a simple irrigation is recommended (see page 3)



(Remaining list see next page)

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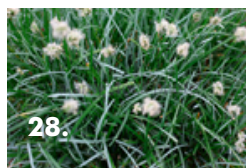
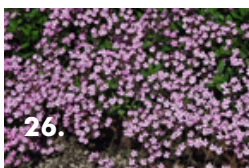
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### Plant suggestions "Single Uprights":

Quantity: 4-5 plants/m<sup>2</sup>

Name:	Height:	Colour:	Zone:	Flower:	Size:
16. Galium verum	30 cm	green	3	yellow	plug
17. Gypsophila repens	15 cm	blue/green	3	white/pink	plug
18. Helianthemum nummularium	15 cm	green	4	orange	plug
19. Hieracium alpinum	20 cm	green	3	yellow	plug
20. Koeleria macrantha	30 cm	gray/green	3	green	plug
21. Phlox subulata "Emerald Blue"	12 cm	green	3	lavender	plug
22. Phlox subulata "Snowflake"	12 cm	green	3	white	plug
23. Potentilla verna nana	15 cm	green	3	yellow	plug
24. Prunella grandiflora	25 cm	green	4	white	plug
25. Rudbeckia hirta	50 cm	green	3	yellow	plug
26. Saponaria ocymoides	25 cm	green	2	pink	plug
27. Sedum spectabile "Autumn Fire"	40 cm	green	3	pink	plug
28. Sesleria caerulea	40 cm	blue/green	4	purple	plug
29. Silene acaulis	10 cm	green	2	pink	plug
30. Sporobolus heterolepis	60 cm	green	3	pink	plug
31. Veronica whitleyi	5 cm	green	3	purple	plug

\* note: when using single upright plants a simple irrigation is recommended (see page 3)



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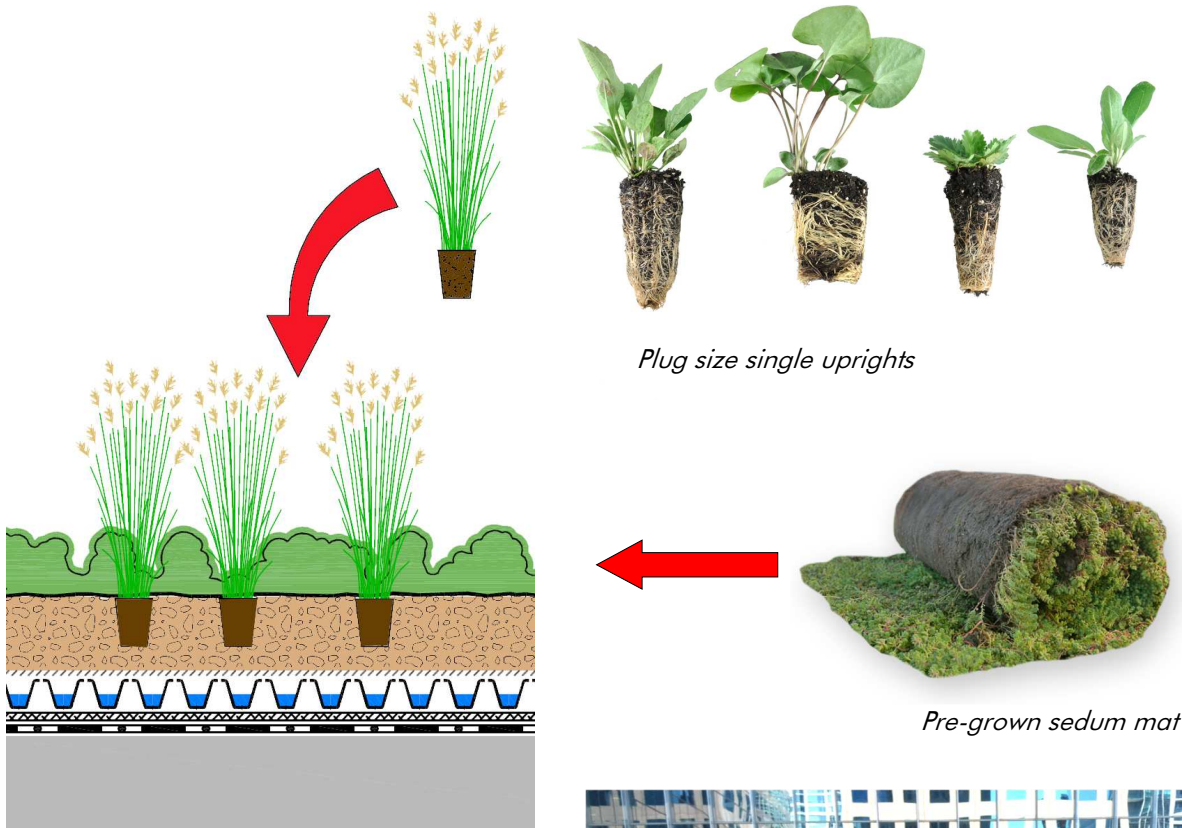
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### COMBINATION OF SEDUM MATS AND SINGLE UPRIGHTS

To create more interest and height in the planting design, it is possible to combine the sedum mats and single upright perennials or grasses. The plug size single uprights can be planted through the sedum mat into the growing medium underneath.



### FEATURES:

- Using standard nursery stock - No lead time.
- Cost effective.
- Full coverage right after installation.
- Provides design options.
- Creates interest and height.
- Recommended quantity: 5 plant/m<sup>2</sup>.

