

# INNOVATING WITH NATURE

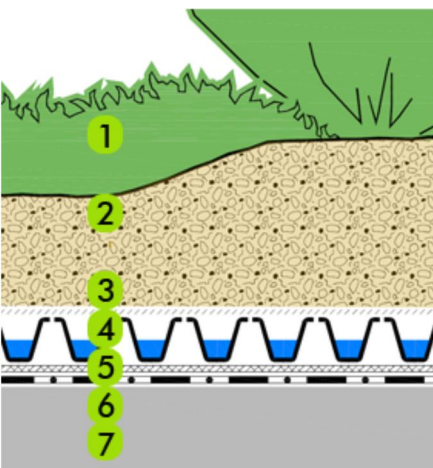
## Perennial Garden

The ideal system for blooming perennials and ornamental grasses

A versatile, easy to install green roof system designed for growing a wide variety of perennials and ornamental grasses. The relevant Semi-Intensive growing medium ZinCoblend-SI, which has been specifically designed for the Perennial Garden green roof system, in combination with the water retention and drainage layer Floradrain FD40-E creates the necessary habitat conditions for this plant community. This means that, in comparison to roof gardens with regular plants and deeper soil depths, the "Perennial Garden" system requires only moderate levels of maintenance and care.

### FLORADRAIN FD40-E

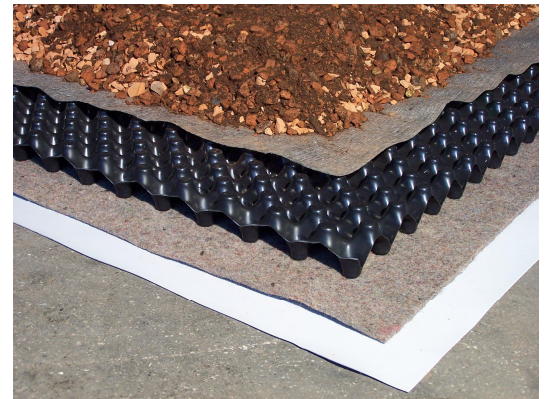
The versatile ZinCo Floradrain FD40 element, made of recycled plastic, is developed to provide the necessary water retention and drainage requirements to sustain this plant community. It also can be used as forming for curbs and walls and underneath hard surfacing (pedestrian) creating and uninterrupted drainage void underneath the entire roof landscape.



1. Plant Material
2. Growing Medium ZinCoblend-SI  
Depth: 150-200 mm
3. ZinCo Filter Sheet SF
4. ZinCo Floradrain® FD40
5. ZinCo Moisture Mat SSM45
6. ZinCo Root Barrier WSF40
7. Roof Construction with root protected Waterproofing Membrane



**ZinCo Canada Inc.**  
P.O. Box 29 · Carlisle · L0R 1H0 · Ontario  
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### Planting Options:



4" pots



(Hydro) Seed



Sod

### Features:

- Attractive and versatile green roof system
- High drainage and retention capacity
- Easy to combine with hard surfacing.
- Quick and easy installation

Slope: 2-5 degrees  
Saturated weight:  $\geq 240 \text{ kg/m}^2$  (49 psf)  
Height:  $\geq 200 \text{ mm}$  (8")  
Retention capacity:  $\geq 95 \text{ L/m}^2$



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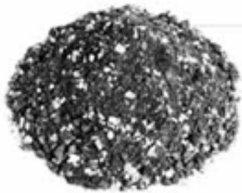
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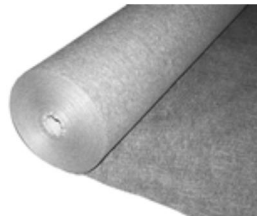
Special plants for extensive green roofs. Available species: sedums, grasses and drought resistant perennials. For information about plant lists see page 3-5 or contact us at: 905-690-1661 or e-mail: [greenroof@zinco.ca](mailto:greenroof@zinco.ca)

Product	Art. Nr.	Size of Delivery
Plug plants tray of 50	8200	Plug
Plug plants tray of 72	8201	Plug
4" (9 cm) Pots		Nursery Stock



Growing medium for Semi-Intensive Green Roofs ZinCoblend – SI 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-SI - Bulk	6200	Per cubic meter
ZinCoblend-SI - Big Bag	6210	Per cubic meter



ZinCo filter sheet SF made of non-rotting thermally consolidated polypropylene. Used in combination with the Floradrain elements. Water flow rate: 155 l/(m2s) if there is a water column of 100 mm. Apparent opening size: d90%= 110 µm. Weight: 100 g/m2.

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



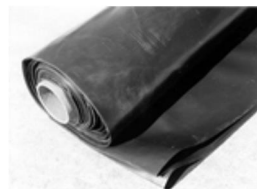
ZinCo drainage and water retaining element Floradrain® FD40-E for extensive and semi-intensive green Roofs. Made of recycled polyethylene, with water retaining troughs and openings for ventilation and evaporation as well as a multidirectional drainage channel system. Bitumen resistant - Max. compressive strength > 135 kN/m2. Water storage capacity: 6 l/m2. Weight: approx. 2,0 kg/m2. Depth: 40 mm.

Product	Art. Nr.	Size of Delivery
Floradrain® FD 40-E	3040	Approx. 1,00 x 2,00 m elements
Floradrain® FD 40-R	3043	Approx. 1,00 x 15,00 m roll
Floradrain® FD 40-RV	3042	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/m2. Water retention capacity: 5 l/m2. Bitumen resistant - Biologically and chemically neutral - tear proof

Product	Art. Nr.	Size of Delivery
SSM 45	2064	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: 0,40 mm. Weight: 380 g/m2

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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**Plant suggestions** Quantity: 12 plants/m<sup>2</sup>

Name:	Height:	Colour:	Zone:	Flower:	Size:
1. Achillea tomentosa	20 cm	gray/green	2	yellow	9 cm
2. Agastache foeniculum	125 cm	green	4	lavender	9 cm
3. Allium cernuum	50 cm	green	3	pink	9 cm
4. Allium x millennium	40 cm	green	4	pink	9 cm
5. Alyssum montanum "Mountain Gold"	15 cm	green	3	yellow	9 cm
6. Alyssum saxatile "Compacta"	30 cm	silver/green	3	yellow	9 cm
7. Amorpha canescens	80 cm	gray/green	3	purple	9 cm
8. Anaphalis margaritacea	80 cm	gray	3	white	9 cm
9. Antennaria dioica	12 cm	silver/green	2	pink	9 cm
10. Armeria maritima 'Alba'	15 cm	green	2	white	9 cm
11. Aquilegia canadensis	40 cm	green/blue	2	red	9 cm
12. Aster alpinus	25 cm	green	3	purple	9 cm
13. Aurinia saxatilis "Compacta"	15 cm	green	3	yellow	9 cm
14. Calamitha nepeta	45 cm	gray/green	4	white	9 cm
15. Campanula portenschlagiana	30 cm	green	4	blue	9 cm
16. Campanula Rotundifolia	60 cm	green	4	blue	9 cm
17. Cerastium tomentosum	15 cm	gray	2	white	9 cm

\* note: A simple irrigation is recommended



(Remaining list see next page)

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Name:	Height:	Colour:	Zone:	Flower:	Size:
18. Coreopsis lanceolate	50 cm	green	4	yellow	9 cm
19. Coreopsis verticillata 'Zagreb'	40 cm	green	4	yellow	9 cm
20. Dalea candida	50 cm	green	3	white	9 cm
21. Dalea purpurea	50 cm	green	3	purple	9 cm
22. Dianthus gratianopolitanus	25 cm	silver/blue	3	pink	9 cm
23. Dianthus microlepis	8 cm	green/gray	3	pink	9 cm
24. Erigeron glaucus	30 cm	green	2	lilac	9 cm
25. Festuca glauca "Pepindale Blue"	25 cm	blue	3	blue	9 cm
26. Fragaria virginiana	20 cm	green	3	white	9 cm
27. Galium verum	30 cm	green	3	yellow	9 cm
28. Geum triflorum	45 cm	green/gray	3	red	9 cm
29. Helianthemum nummularium	15 cm	green	4	orange	9 cm
30. Hieracium alpinum	20 cm	green	3	yellow	9 cm
31. Hosta lancifolia	30 cm	green	2	purple	9 cm
32. Koeleria macrantha	30 cm	gray/green	3	green	9 cm
33. Liatris cylindracea	60 cm	green	4	purple	9 cm
34. Penstemon hirsutus	60 cm	green	3	lavender	9 cm

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**Plant suggestions** Quantity: 12 plants/m<sup>2</sup>

Name:	Height:	Colour:	Zone:	Flower:	Size:
35. Phlox subulata "Emerald Blue"	12 cm	green	3	lavender	9 cm
36. Phlox subulata "Snowflake"	12 cm	green	3	white	9 cm
37. Potentilla verna nana	15 cm	green	3	yellow	9 cm
38. Pulsatilla vulgaris	20 cm	green/gray	4	purple	9 cm
39. Prunella grandiflora	25 cm	green	4	white	9 cm
40. Rudbeckia hirta	50 cm	green	3	yellow	9 cm
41. Salvia azurea var . Grandiflora	80 cm	green	4	blue	9 cm
42. Salvia x sylvestris "East Friesland"	25 cm	green	4	purple	9 cm
43. Saponaria ocymoides	25 cm	green	2	pink	9 cm
44. Schizachyrium scoparium	60 cm	blue/green	3	bronze	9 cm
45. Sedum spectabile "Autumn Fire"	40 cm	green	3	pink	9 cm
46. Sesleria caerulea	40 cm	blue/green	4	purple	9 cm
47. Silene acaulis	10 cm	green	2	pink	9 cm
48. Sporobolus heterolepis	60 cm	green	3	pink	9 cm
49. Talinum calycinum	25 cm	green	4	pink	9 cm
50. Veronica whiteleyi	5 cm	green	3	purple	9 cm

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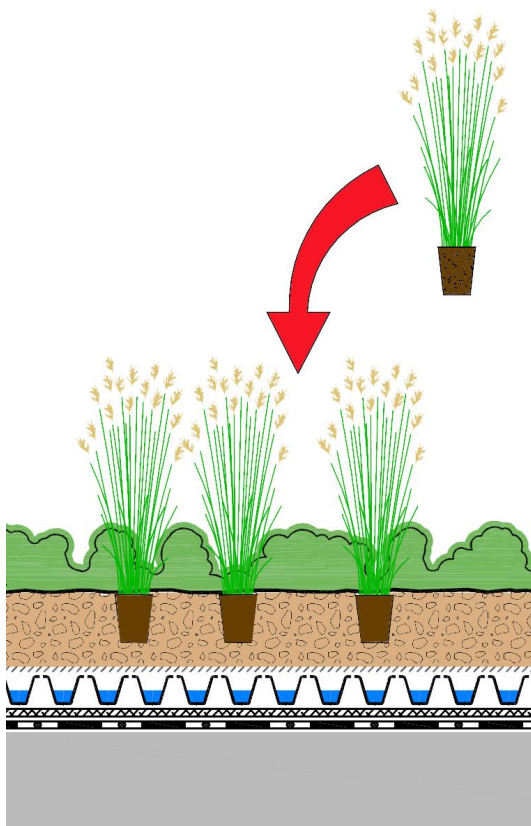
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### COMBINATION OF SEDUM MATS AND SINGLE UPRIGHTS

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 single uprights coming in plug size or 9 cm pots, can be planted through the sedum mat into the growing medium underneath.



Single uprights - Plug Size or 9 cm pots



Pre-grown sedum mat

### 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 plants/m<sup>2</sup>



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