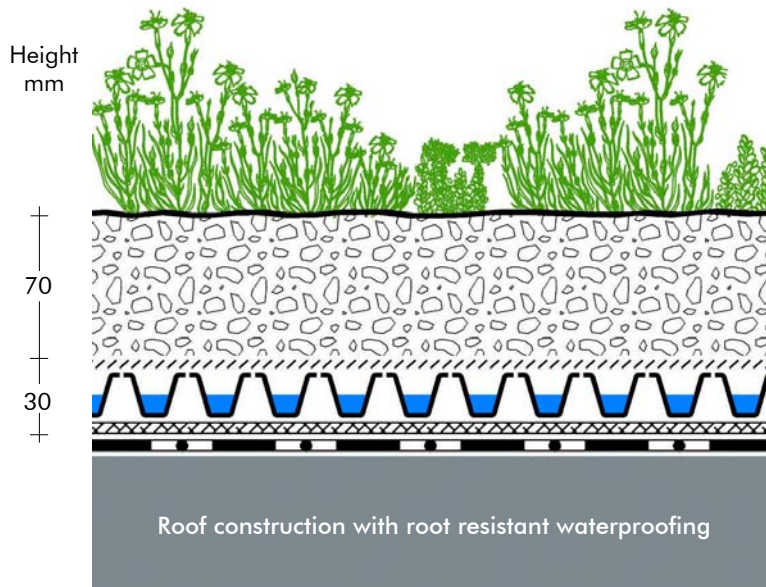


System Data Sheet

"Rockery Type Plants" with Floradrain® FD 25-E

Weight kg/m ²	
dry	water saturated
70	98
2	10
72	108



Plug plants according to plant list
"Rockery Type Plants"

System Substrate "Rockery Type Plants",
ca. 70 mm

Filter Sheet SF
Floradrain® FD 25-E
Protection Mat SSM 45

Note:

If waterproofing is not root resistant the
Root Barrier WSF 40 is required
additionally.

Build-up height:	ca. 100 mm
Weight, saturated:	ca. 110 kg/m ²
Water storage capacity:	ca. 36 l/m ²

Description

- Extensive green roof build-up with a large plant diversity as an ecological protection layer.
- The vegetation layer can be realized using plug plants according to the ZinCo plant list "Rockery Type Plants".
- Low maintenance requirements.
- Various possibilities of design, also in combination with walkways or terraces.
- Can be used on roofs with no severe ponding up to a slope of about 8°.
- The build-up is resistant against flying sparks and is considered to be a "hard roof" providing fire protection in accordance to German Standard DIN 4102, part 7.
- The filter-stable drainage layer exceeds the requirements of German Standard DIN 4095.
- The fall protection device "Fallnet®" can be integrated into the build-up.
- Please note: the build-up described above is suitable for the moderate continental climate of Central Europe. For information on possible adaptations for other climates please contact the ZinCo Technical Department.

Product Data Sheet

Root Barrier WSF 40

Order No. 1040–1044 / 41040



Established, proven and tested sheet, easy to install, made of environmentally-friendly polyethylene for the use as root protection under extensive green roofs.

Technical Data

Root Barrier WSF 40

Seamless tarp of high-pressure polyethylene (PE-LD).

Thickness:	ca. 0.36 mm
Weight:	ca. 330 g/m ²
Colour:	black
Density:	0.94 g/m ³
Tensile strength:	at 20° C: ca. 40–47 N/mm ² at 120° C: ca. 20–25 N/mm ²
Tensile expansion:	> 400 %

Water vapour permeability of air layer thickness according to German

Standard DIN 52615: $s_d > 200 \text{ m}$

Coefficient of sliding friction: 0.29

Dimensions:

ca. 8.00 m x 25.00 m
ca. 6.25 m x 20.00 m
ca. 2.00 m x 50.00 m
ca. 3.00 m x 33.50 m

Roll width:

ca. 2.00 m
ca. 1.60 m
ca. 1.00 m
ca. 1.50 m

Order No.

1040
1041
1043
1044

Delivery in rolls with the above widths.

Tarp for garages, carports, etc.:

ca. 6.25 m x 3.20 m

Order No. 41040

Features

- root resistant
- resistant to humic acids
- compatible with bitumen and polystyrene
- partially resistant to oil- and petrol
- UV-stabilised
- environmentally-friendly with lack of chemical softeners
- high tensile strength
- proven and tested over many years
- quick and easy installation

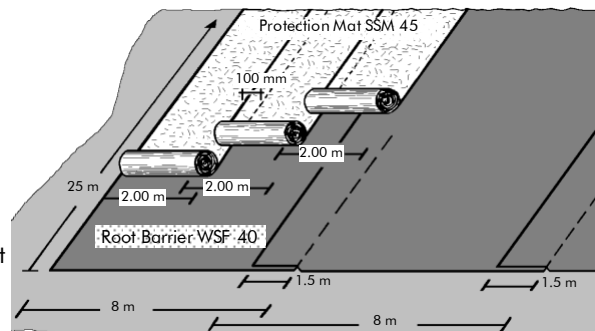
Application Example

“Root protection with 10 years warranty*”

Root Protection System “E”

for extensive green roof with plant growth heights up to ca. 500 mm

* Please note our warranty conditions which will be sent to you upon request.



Specification Suggestion

Electronically tested root barrier of high-pressure polyethylene, thickness ca. 0.36 mm, weight ca. 330 g/m², bitumen resistant, UV-stabilised, delivery and installation according to manu-

facturer's instructions.

Make: ZinCo Root Barrier WSF 40
Enquiries: ZinCo GmbH,
Phone: +49 7022 6003-0

ZinCo GmbH

Lise-Meitner-Strasse 2 · 72622 Nürtingen · Germany
Phone +49 7022 6003-0 · Fax +49 7022 6003-100
info@zinco-greenroof.com · www.zinco-greenroof.com

Life on Roofs



Product Data Sheet

Protection Mat SSM 45

Order No. 2045



Water and nutrient storage mat of synthetic fibres, for the application as a protection layer under green roofs, gravel fills, slab pavings, etc.



Technical Data

Protection Mat SSM 45

High quality fibre mat made of polyester/polypropylene, with fleece backing.

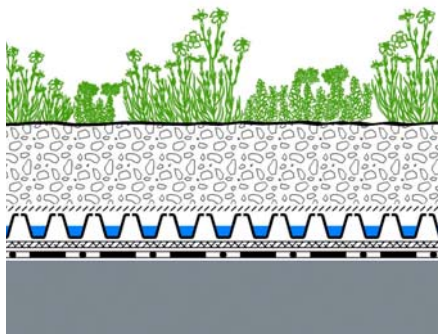
Thickness:	ca. 5 mm
Weight:	ca. 470 g/m ²
Colour:	brown mottled
Water storage capacity:	ca. 5 l/m ²
Tensile strength according To EN ISO 10319:	> 8.5 kN/m
Extension lengthwise:	> 90 %
Penetration force according To EN ISO 12236:	> 2400 N
Strength class:	3
Dimensions:	
Roll width:	ca. 2.00 m
Roll length:	ca. 50.00 m

Features

- resistant to mechanical stress
- protection layer according to German Standard DIN 18195, Part 5
- water and nutrient storage
- non-rotting
- biologically neutral
- bitumen and polystyrene compatible
- made of recycled fibres
- quick and easy installation

Application Example

"Extensive Green Roof"



Plant layer
e. g. "Rockery Type Plants"

System Substrate "Rockery Type Plants"

Filter Sheet SF
Floradrain® FD 25-E
Protection Mat SSM 45
Roof construction with
root resistant waterproofing

Specification Suggestion

High quality, non-rotting synthetic fibre mat as mechanical protection layer according to German Standard DIN 18195, Part 5; strength class 3, thickness ca. 5 mm, weight ca. 470 g/m², delivery and installation

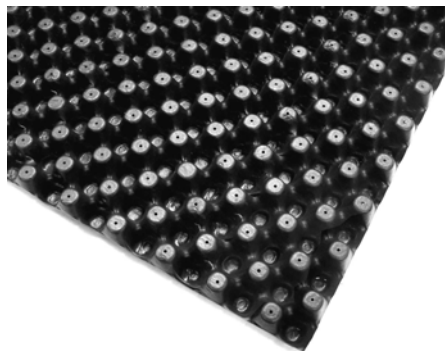
according to manufacturer's instructions.

Make: ZinCo Protection Mat SSM 45
Enquiries: ZinCo GmbH,
Phone: +49 7022 6003-0

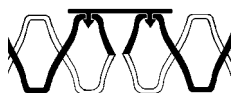
Product Information

Floradrain® FD 25-E

Order No. 3028



Pressure resistant drainage and water storage element of recycled polyethylene for use on extensive green roofs.



Technical Data

Floradrain® FD 25-E

Drainage and water storage element of thermoformed recycled polyethylene.

Material: PE-HD
 Colour: dark grey
 Height: ca. 25 mm
 Weight: ca. 1.7 kg/m²

Diffusion opening: ca. 2 mm
 Water storage capacity: ca. 3 l/m²
 Filling volume: ca. 10 l/m²

Max. compressive strength (without filling): > 270 kN/m²

In-plane water flow capacity (EN ISO 12958):

roof slope 1 %: ca. 0.59 l/(s·m)
 roof slope 2 %: ca. 0.85 l/(s·m)
 roof slope 3 %: ca. 1.05 l/(s·m)

Dimensions: ca. 1.00 x 2.00 m

Accessories:

Plastic Connector
 (to be pressed into diffusion openings)

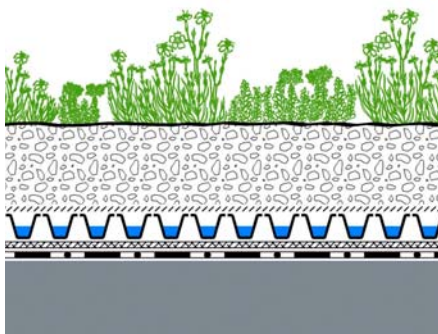
Order No. 9620

Features

- tested drainage capacity
- above the German Standard DIN 4095
- proven longterm reliability
- water storage, even on sloped roofs
- walkable
- low profile height and light weight
- biologically neutral
- quick and easy installation
- joint connector as accessory available

Application Example

"Extensive Green Roof"



Plant layer "Rockery Type Plants"

System Substrate "Rockery Type Plants"

Filter Sheet SF

Floradrain® FD 25-E

Protection Mat SSM 45

Roof construction with root resistant waterproofing

Specification Suggestion

Drainage and water storage element made of polyethylene, height ca. 25 mm, pressure resistance > 270 kN/m², water storage cells and openings for aeration and evaporation as well as multidirectional drainage channel system on underside, in-plane water flow capacity tested

according to EN ISO 12958, delivery and installation according manufacturer's instructions.

Make: ZinCo Floradrain® FD 25-E
 Enquiries: ZinCo GmbH,
 Phone: +49 7022 6003-0

ZinCo GmbH

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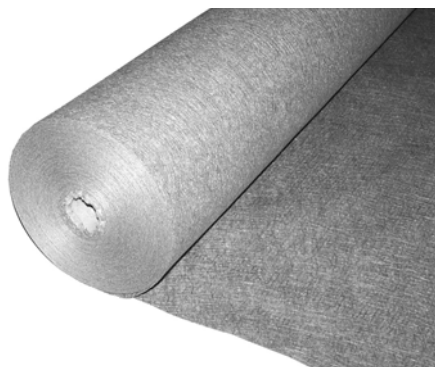
Life on Roofs



Product Data Sheet

Filter Sheet SF

Order No. 2100–2102



Geotextile of thermally strengthened polypropylene, applicable as filter sheet above drainage elements for normal mechanical stress.



0799-CPD-74

Technical Data

Filter Sheet SF

Thermally strengthened filter sheet of Polypropylene.

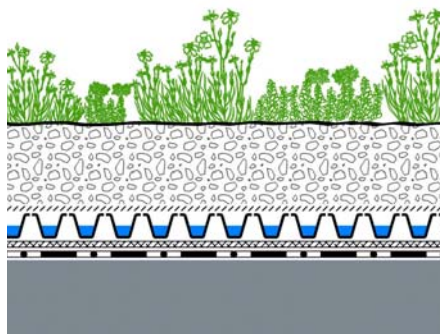
Thickness:	ca. 0.60 mm		
Weight:	ca. 100 g/m ²		
Penetration force according to EN ISO 12236:	ca. 1100 N		
Strength class:	2		
Tensile strength (200 mm) according to EN ISO 10319:	Lengthwise	ca. 7.0 kN/m	
	Crosswise	ca. 7.0 kN/m	
Tensile extension:	ca. 40% / 55 %		
Flow rate (H ₅₀) according to EN ISO 11058:	ca. 70 l/(m ² ·s)	(± 0.07 m/s)	
Effective opening width (O ₉₀) according to EN ISO 12956:	ca. 95 µm		
Dimensions:			
length:	ca. 100.00 m	width: ca. 2.00 m	Order No. 2100
		width: ca. 1.00 m	Order No. 2102
length:	ca. 10.00 m	width: ca. 2.00 m	Order No. 2101

Features

- resistant to mechanical stress
- various application possibilities
- resistant to all naturally occurring acids and alkali
- chemically and biologically neutral
- especially high passage of water
- quick and easy installation
- non-rotting

Application Example

"Extensive Green Roof"



Plant layer "Rockery Type Plants"

System Substrate
"Rockery Type Plants", ca. 80 l/m²

Filter Sheet SF
Floradrain® FD 25-E
Protection Mat SSM 45

Roof construction with root resistant waterproofing

Specification Suggestion

Thermally strengthened sheet of polypropylene; weight ca. 100 g/m², penetration force according to EN ISO 12236: ca. 1100 N, strength class 2, flow rate (H₅₀) according to EN ISO 11058: ca. 70 l/(m²·s), effective opening width (O₉₀) according to EN ISO

12956: ca. 95 µm, delivery and installation according to manufacturer's instructions.

Make: ZinCo Filter Sheet SF
Enquiries: ZinCo GmbH,
Phone: +49 7022 6003-0

ZinCo GmbH

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Phone +49 7022 6003-0 · Fax +49 7022 6003-100
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Life on Roofs





Produkt - Information

Best.-Nr. 6111 - 6113

Systemerde

"Sedumteppich"



Vegetationssubstrat für extensive Dachbegrünungen in ein- oder mehrschichtiger Bauweise.



Technische Daten



Systemerde "Sedumteppich"

Auf der Basis von Zincolit® (speziell aufbereitete Tonziegel) hergestelltes, überwiegend mineralisches Substrat, angereichert mit Zincohum® (Substratkompost mit Faserstoffen und Ton).

Speziell geeignet für Extensivbegrünungen in Ein- oder Mehrschichtbauweise mit Pflanzenarten der ZinCo Pflanzenliste "Sedumteppich". Das Aufbringen der Pflanzen kann mittels Sprossenaussaat im Trocken- oder Nasssaatverfahren oder als Pflanzung (z. B. ZinCo-Kleinballenpflanzen KB 100) erfolgen.

Für eine artgerechte Pflanzenentwicklung empfehlen wir unseren Langzeitdünger ZinCo-Pflanzenfit® 4M (siehe gesondertes Datenblatt).

Lieferbar im Big Bag, als offene Ware und im Silozug.

Es ist mit einem Verdichtungsfaktor von 1,12 zu kalkulieren, das heißt, je Quadratmeter und cm einzubauendes Substrat müssen 11,2 l bestellt werden.

Lieferform

im Big Bag à 1,5 m³

lose im Kipper

im Silo

Best.-Nr.

6111

6112

6113

Merkmale

- Recyclingprodukt
- hohe Wasserdurchlässigkeit
- hoher Luftgehalt – auch bei Wassersättigung
- frostbeständig und strukturstabil
- blasbar
- Die Basiskomponente Zincolit® steht unter ständiger Kontrolle der Universität Hohenheim



Unter ständiger Kontrolle der Landesanstalt für Landwirtschaftliche Chemie der Universität Hohenheim nach den Richtlinien der FLL



Chemisch-physikalische Eigenschaften

Parameter	Richtwerte
Volumengewicht	
- trocken	1120 g/l (+/- 100 g/l)
- bei max. Wasserkapazität	1400 g/l (+/- 100 g/l)
max. Wasserkapazität	ca. 28 Vol. %
Wasserdurchlässigkeit mod. K _f	60–400 mm/min
pH-Wert (in CaCl ₂)	7,0–8,5
Salzgehalt (Wasserextrakt)	< 2,5 g/l
Organische Substanz	< 40 g/l
Verdichtungsfaktor	ca. 1,12