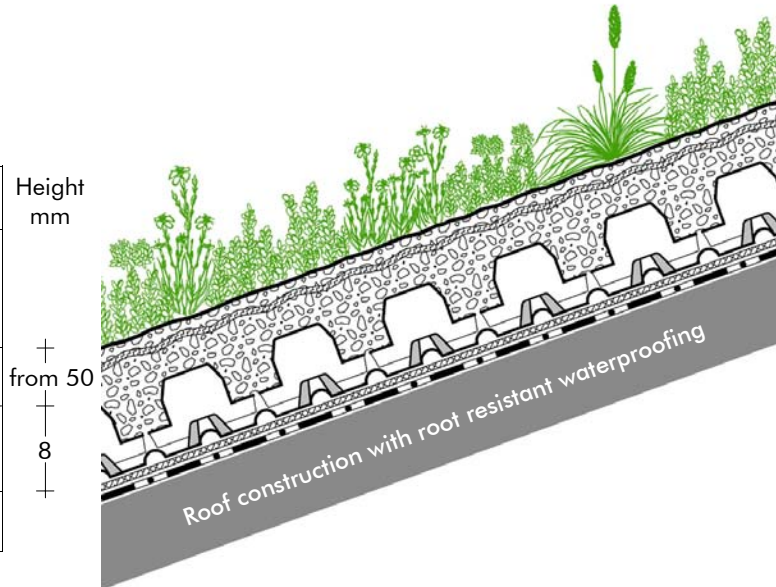


System Data Sheet

“Pitched Green Roof” with Floraset® FS 75

Weight kg/m ²		Height mm
dry	water saturated	
from 75	from 105	+ from 50
2	10	+ 8
from 77	from 115	+ —



Roof slope:	up to	15°	15–20°	20–25°	
Build-up height:	ca.	130	140	150	mm
Weight saturated:	ca.	115	130	145	kg/m ²
Water storage capacity:	ca.	38	40	44	l/m ²

Plug plants according to plant list
“Rockery Type Plants”

Jute Anti-Erosion Net JEG, if required

System Substrate “Rockery Type Plants”,
from 50 mm above the Floraset® elements
Floraset® FS 75

Protection Mat BSM 64

Note:

A root resistant waterproofing is a precondition for a green roof; additional root barriers cannot be applied on sloped roof surfaces!

Description

- Low-maintenance green roof build-up for sloped roofs with an inclination of 10° to 25°, proven on thousands of square meters, applicable on surfaces with a root resistant waterproofing.
- The Floraset® FS 75 elements laid on the entire roof surface ensure good interlocking with the substrate and prevent its erosion.
- The elements derive shear forces safely into a stable eaves edging or additional shear barriers, a static calculation is necessary.
- Additional erosion control is provided by the coarse-meshed jute net JEG for roof pitches > 15° or in case of strong wind exposure.
- 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.
- 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

Protection Mat BSM 64

Order No. 2064



Synthetic fibre mat with especially high water storage, for the application as a protection layer under extensive and intensive green roof build-ups.



Technical Data

Protection Mat BSM 64

Non-rotting synthetic fibre mat of polyester/polypropylene with fleece carrier.

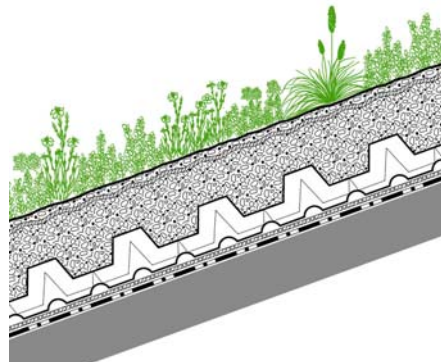
Thickness:	ca. 7 mm
Weight:	ca. 650 g/m ²
Colour:	brown mottled
Water storage capacity:	ca. 7 l/m ²
Strength class:	3
Building material class:	B2
Melting point:	165 °C
Dimensions:	
Roll width:	ca. 2.00 m
Roll length:	ca. 25.00 m

Features

- especially high water storage
- resistant to mechanical stress
- protection layer according to German Standard DIN 18195, Part 5 and German Flat Roof Guidelines
- bitumen and polystyrene compatible
- biologically neutral
- non-rotting
- made of recycled fibres

Application Example

"Pitched green roof"



Plant layer
Jute Anti-Erosion Net JEG
System Substrate "Rockery Type Plants"
Floraset® FS 75
Protection Mat BSM 64
Roof construction with root resistant waterproofing

Specification Suggestion

Protection mat of non-rotting synthetic fibres; thickness ca. 7 mm, weight ca. 650 g/m², water storage capacity ca. 7.0 l/m², strength class 3, biologically neutral, delivery and installation to

manufacturer's instructions.

Make: ZinCo Protection Mat BSM 64
Enquiries: ZinCo GmbH,
Phone: +49 7022 6003-0

Product Information

Floraset® FS 75

Order No. 3076



Multi-functional drainage element of expanded polystyrene, for the application on extensive and intensive green roofs on both flat and pitched roofs.

Technical Data

Floraset® FS 75

Stable drainage element of expanded polystyrene (EPS); produced without CFC's.

Material:	EPS
Colour:	white
Height:	ca. 75 mm
Weight:	ca. 1.0 kg/m ²
Density:	ca. 23 kg/m ³

Compressive strength at 10% compression:	ca. 25 kN/m ²
--	--------------------------

In-plane water flow capacity:

- on flat-roofs (large studs facing downwards):	
roof slope 1%:	ca. 0.7 l/(s·m)
roof slope 2%:	ca. 1.0 l/(s·m)
roof slope 3%:	ca. 1.3 l/(s·m)

- on pitched roofs (large studs facing upwards):	
roof slope 10%:	ca. 2.2 l/(s·m)

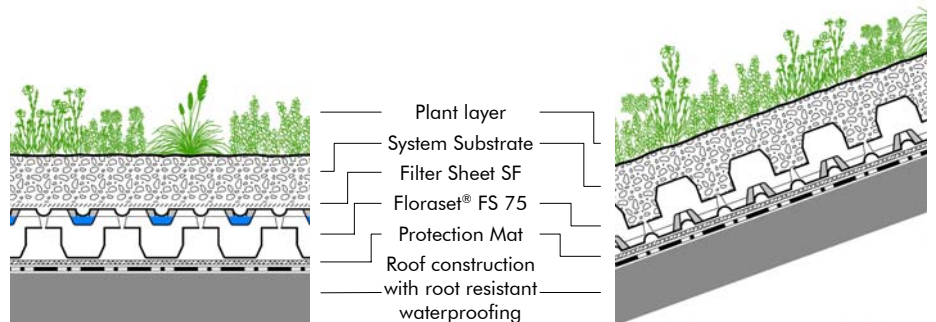
Dimension:	ca. 1.00 m x 1.00 m
------------	---------------------

Features

- environmentally friendly - produced without CFC's
- above the German Standard DIN 4095
- can be used on both sides
- large studs facing down: for 0°- roofs; also allows water dam-up
- small studs facing down: for sloped roofs with up to 20° inclination and for lightweight green roof on flat roofs
- pressure-resistant; quick and easy installation

Application Example

"0° - Roof and Pitched Roof"



Specification Suggestion

Drainage element of expanded polystyrene, density ca. 23 kg/m³, with water storage cells and multi-directional channel system on both sides, height ca. 75 mm, weight ca. 1.0 kg/m², compressive strength up to 25 kN/m², In-plane water flow capacity

ca. 1.0 l/(s·m) at 2% roof slope, delivery and installation according to manufacturer's instruction.

Make: ZinCo Floraset® FS 75
Enquiries: ZinCo GmbH,
Phone: +49 7022 6003-0



Vegetationssubstrat für extensive Dachbegrünungen in mehrschichtiger Bauweise.



Technische Daten



Systemerde "Steinrosenflur"

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

Speziell geeignet für Extensivbegrünungen in Mehrschichtbauweise mit Pflanzenarten der Pflanzenliste "Steinrosenflur". Die Etablierung der Vegetation kann mittels Pflanzung (z. B. ZinCo Flachballenpflanzen FB 50) oder als Trockenansaat (ZinCo-Samenmischungen "Kräuterflur", "Blütenwiese" oder "Gräserdach") erfolgen. Für eine artgerechte Pflanzenentwicklung empfehlen wir unseren Langzeitdünger ZinCo-Pflanzenfit® 4M (siehe gesondertes Datenblatt).

Lieferbar im 20 l-Sack, im Big Bag, als offene Ware und im Silozug. Es ist mit einem Verdichtungsfaktor von 1,2 zu kalkulieren, das heißt, je Quadratmeter und cm einzubauendes Substrat müssen 12 l bestellt werden.

Lieferform	Best.-Nr.
20 l-Sack	6001
im Big Bag à 1,5 m³	6121
lose im Kipper	6122
im Silo	6123

Merkmale

- Recyclingprodukt
- gutes Wasserspeichervermögen
- 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	1000 g/l (+/- 100g/l)
- bei max. Wasserkapazität	1400 g/l (+/- 100 g/l)
max. Wasserkapazität	ca. 40 Vol. %
Wasserdurchlässigkeit mod. K _f	0,6–70 mm/min
pH-Wert (in CaCl ₂)	6,5–8,0
Salzgehalt (Wasserextrakt)	< 2,5 g/l
Organische Substanz	< 65 g/l
Verdichtungsfaktor	ca. 1,2