

# 150 Holborn

DISCHARGE OF PLANNING CONDITONS Condition Reference 29 - Green Roof



#### **Planning Requirement:**

#### **Condition 29**

Full details in respect of the green roof in the area indicated on the approved roof plan shall be submitted to and approved by the local planning authority before the relevant part of the development commences. Details of the green roof provided shall include: species, planting density, substrate and a section at scale 1:20 showing that adequate depth is available in terms of the construction and long term viability of the green roof, as well as details of the maintenance programme for green roof.

The buildings shall not be occupied until the approved details have been implemented and these works shall be permanently retained and maintained thereafter.

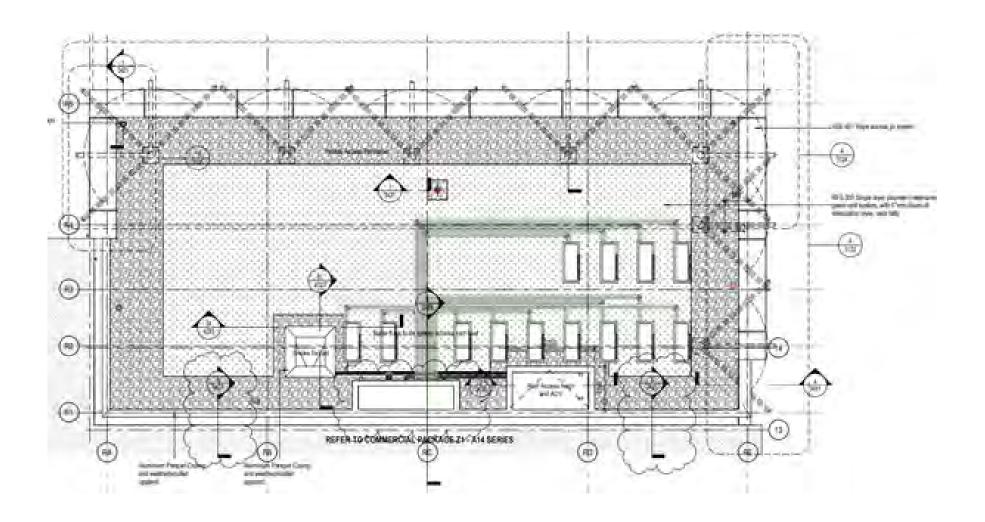
Reason: In order to ensure the development undertakes reasonable measures to take account of biodiversity and the water environment in accordance with policies A3, CC2, and CC3 of the London Borough of Camden Local Plan 2017.



#### **Development Proposals – Residential Building : Soft & Hard Landscape**

The Residential roof does not provide public or private gardens, however it does include a green sedum roof with wildflower planting to the centre with a pebbled access route around the perimeter.

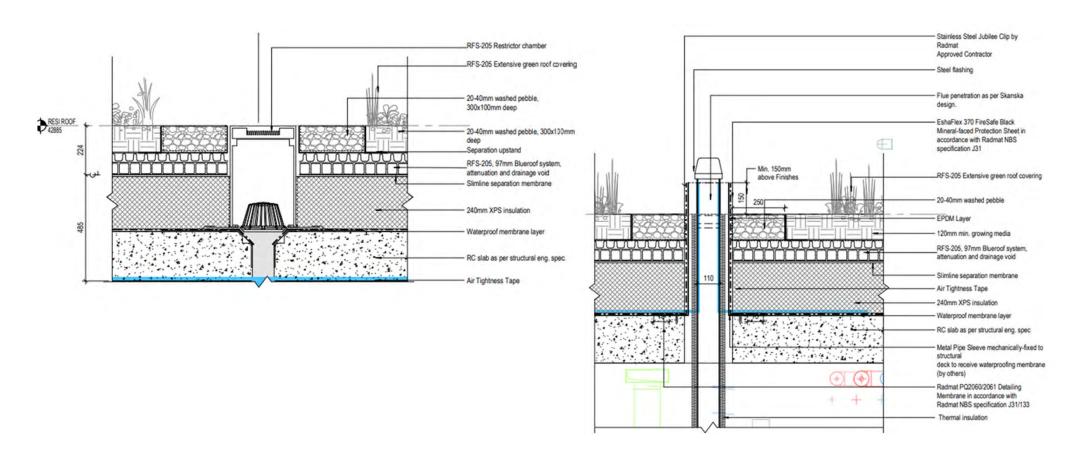
See below details and technical literature overleaf.





#### **Development Proposals – Residential Building: Green Roof Details**

The green roof consists of a Permaquik waterproof membrane, insulation to achieve the required U-Values, a protective sheet, filter fleece and Sedum blanket. The blueroof attenuation system and overflow stormwater gullies temporarily store rainwater which in turns slows down the water flow rates back into the system. In addition to this the 120mm growing media and drainage board has a high water holding capacity which means a very low maintenance requirement.





#### **Development Proposals – Residential Building: Planting / Species**

The green roof consists of a Sedum blanket with growing medium and the below listed species of wildflower on top of Filter fleece membrane which in turn sits on the Blueroof attenuation system. All of this sits on top of the insulation and main inverted waterproofing layer.

The planting proposed is a native diverse list of species which will be beneficial to biodiversity to the roof.

- Viola odorata plug
- Armeria maritima plug
- Thymus polytrichus plug
- Allium schoenoprasum plugs
- Fragaria vesca plug
- Silene alba plug
- Silene galica plug
- Prunella vulgaris plug
- Silene uniflora plug
- Briza media plug
- Lychnis flos-cuculi plug
- Primula vulgaris plug
- Ranunculus acris plug
- Potentilla palustris plug
- Ranunculus flammula plug
- Origanum vulgare plug
- Viola riviniana plug
- Sanguisorba minor ssp minor plug

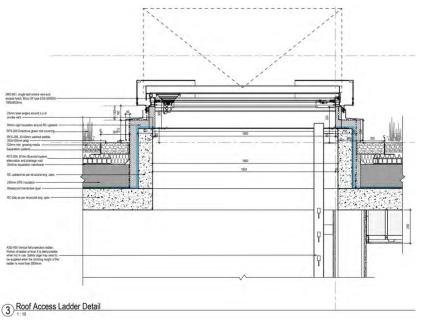




#### **Development Proposals – Residential Building: Planting Maintenance**

To ensure the aesthetic appearance, design functionality and environmental benefits of a living roof are maintained, it is important that two maintenance visits per year is undertaken. This includes removal of invasive vegetation, debris, applying specialist fertiliser (if required) and monitoring/controlling the biomass. Access can be gained via the access hatch on the roof from the 5<sup>th</sup> floor stair core.







# **PermaQuik**Texsa Protection Sheet





### Radmat Texsa Protection Sheet

#### **Product Data Sheet**

#### **General Information**

FLL Certified **Texsa Protection Sheet** consists of a high performance polyester carrier coated both sides with an APP modified bitumen compound incorporating an anti-root treatment.

Texsa Protection Sheet is used as secondary layer or a top surface over PermaQuik PQ6100.

For all applicable roofing systems contact Radmat Building Products and see BBA certificate No. 89/3336.

For a comprehensive NBS J41 specification contract Radmat Building Products.

#### **Certificates**

BBA certificate No. 89/3336.

#### **Installation Instructions**

Texsa Protection Sheet is laid into the upper surface of the PermaQuik PQ6100 whilst the PermaQuik PQ6100 is still hot.

Texsa Protection Sheet is cut and formed using sharp hand tools.

Do not expose the Sheet to hydrocarbon based solvent products.

Installation to be according to guidelines and specifications supplied by Radmat Building Products Ltd.

#### **Delivery Conditions**

#### **Delivery form**

20 rolls Texsa Protection Sheet in vertical position, shrink-wrapped on a one-way pallet (80 X 120).

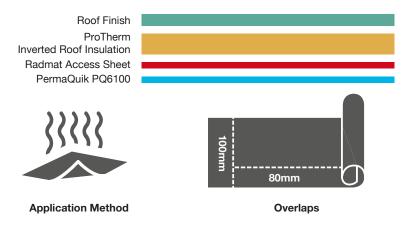
#### Storage and transport

Texsa Protection Sheet must be stored and transported stood on end on a dry and flat level surface, away from exposure to the sun. Temperature between 0 and 40° C.

#### **Product identification**

Information on the roll: Product name. Dimensions. Approvals. Production date.

#### **Packaging Application Guidance**



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# **Radmat** Texsa Protection Sheet

#### **Product Data Sheet**

Product description				
Appearance top side	PE Film			
Coating top side	APP modified bitumen			
Reinforcement	Polyester mat			
Coating bottom side	APP modified bitumen			
Appearance bottom side	PE Film			
Declared performance according to EN 13707:20	04 +A2:2009			
Essential characteristics	Performance	Units	According to	
Visible defects	Pass	-	EN 1850-1	
Roll Length	≥10	m	EN 1848-1	
Width	≥ 0.99	m	EN 1848-1	
Straightness	Pass (<20mm/10m)	-	EN 1848-1	
Mass per unit area	4.00 -5/+ 10%	kg/m²	EN 1849-1	
Effective thickness	3.2	mm	EN 1849-1	
External fire performance	Broof (t1)	-	ENV 1187	
Reaction to fire	Е	-	EN 13501 1:2002 (EN1ISO 11925-2)	
Watertightness	Pass (10 kPa)	-	EN 1928:2000(B)	
Tensile strength MD	700 ± 200	N/50mm	EN 12311-1	
Tensile strength CD	450 ± 150	N/50mm	EN 12311-1	
Elongation MD	45 ± 15	%	EN 12311-1	
Elongation CD	45 ± 15	%	EN 12311-1	
Resistance to root penetration	Pass/Pass	-	EN 13948	
Resistance to static loading	≥ 15	kg	EN 12730 (A)	
Resistance to impact	≥ 1000	mm	EN 12691:2006	
Resistance to tearing (nail shank)	Not applicable	N	EN 12310-1	
Peel resistance of joint	Not applicable	N/50mm	EN 12316-1	
Shear resistance of joint	450 x 450 ± 150	N/50mm	EN 12317-1	
Flexibility at low temperature	≤ -15	°C	EN 1109	
Artificial ageing by long term exposure to elevated temperature EN 1296: flow resistance at elevated temperature	Not applicable	EN 1109/110	EN 1296 12 sem/weeks	
Artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and water	Not applicable	EN1850-1	EN 1297	
Dangerous substances	NPD	-	-	
Flow resistance at elevated temperature	≥ 120	°C	EN 1110	
Dimensional stability	≤ 0.4	%	EN 1107-1	
Adhesion of Granules	Not applicable	%	EN 12039	
Water vapour resistance	μ = 20.000	μ	EN 1931	

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# PermaQuik Standard Protection Sheet



### **PermaQuik**

### Standard Protection Sheet

#### **General Information**

Standard Protection Sheet is a bituminised polyester mat.

Standard Protection Sheet is used as secondary layer or a top surface over PermaQuik PQ6100.

For a comprehensive NBS J31 specification contact Radmat Building Products.

#### **Certificates**

BBA Certification No. 97/3336

#### **Installation Instructions**

Standard Protection Sheet is laid into the upper surface of the PermaQuik PQ6100 whilst the PermaQuik PQ6100 is still hot.

Standard Protection Sheet is cut and formed using sharp hand tools.

Do not expose the Sheet to hydrocarbon based solvent products.

Installation to be according to guidelines and specifications supplied by Radmat Building Products Ltd.

Side overlaps	End Overlaps
80mm	100mm

#### **Delivery Conditions**

#### **Delivery form**

30 rolls Standard Protection Sheet in vertical position, shrink-wrapped on a one-way pallet (80 X 120).

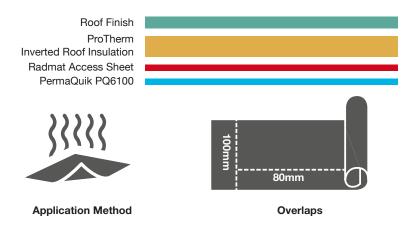
#### Storage and transport

Standard Protection Sheet must be stored and transported stood on end on a dry and flat level surface, away from exposure to the sun. Temperature between 0 and 40° C.

#### **Product identification**

Information on the roll; Product name. Dimensions. Approvals. Production date.

#### **Packaging Application Guidance**







### **PermaQuik**

### Standard Protection Sheet

PRODUCT DESCRIPTION		
Appearance top side	Sand	
Coating top side	Oxidised bitumen	
Reinforcement	Polyester mat	
Coating bottom side	Oxidised bitumen	
Appearance bottom side	Sand	
DECLARED PERFORMANCE ACCORDING TO EN 13707:2004 ±42:2009		

Appearance bottom side	Sand			
DECLARED PERFORMANCE ACCORDING TO EN	13707:2004 +A2:2009			
Essential characteristics	Performance	Units	According to	
Visible defects	Pass	-		
Roll Length	10.0	m		
Width	1.0	m		
Straightness	Pass	-		
Mass per unit area	2.25 ± 10%	kg/m²		
Effective thickness	$1.9 \pm 0.2$	mm		
External fire performance	NPD	-		
Reaction to fire	Class F	-		
Watertightness	Pass	≥ 10 kPa		
Tensile strength MD	600 ± 20%	N/50mm		
Tensile strength CD	400 ± 20%	N/50mm		
Elongation MD	25 ± 10	%		
Elongation CD	30 ± 10	%	EN 13707: 2004	
Resistance to root penetration	NPD	-		
Resistance to static loading	NPD	kg		
Resistance to impact	NPD	mm		
Resistance to tearing (nail shank)	200 ± 100	N		
Peel resistance of joint	NPD	N/50mm		
Shear resistance of joint	NPD	N/50mm		
Flexibility at low temperature	≤0	°C		
Artificial ageing by long term exposure to elevated temperature EN 1296: flow resistance at elevated temperature	0 ± 10	°C		
Artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and water	NPD	Grade 0		
Dangerous substances	Complies	-		
Artificial ageing by long term exposure to elevated temperature EN 1296: Flexibility at low temperature	NPD	°C		
Flow resistance at elevated temperature	≥80	°C		
Dimensional stability	≤ 0.6	%		
Adhesion of Granules	Not applicable	%		
Water vapour resistance	$\mu = 20.000$	-		

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# **Blue Roof Storm Water System - SWG Geocell**





# **Radmat** SWG Blue Roof Geocells

#### **Product Data Sheet**



#### **General Information**

The Radmat range of SWG Blue Roof Geocells provides attenuation as part of a Blue Roof system that is designed to manage and control incident rainfall at a rate in line with the SuDS strategy or the attenuation requirements for a development.

Manufactured from Polypropylene SWG Blue Roof Geocells are load bearing modular units that are clipped together to form a single or double layer attenuation cell that is wrapped in Radmat G12 Geotextile Filter Fleece. Used in conjunction with rainwater outlet restrictors to control discharge, the Blue Roof is designed to be half empty within 24 hours.

For a higher loading capability use SWB Blue Roof.

Property	Unit	SWG100	SWG150	SWG200	SWG300	SWG400	SWG600
Length	mm	600	600	600	600	600	600
Width	mm	600	600	600	600	600	600
Height	mm	100	150	200	300	400	600
Structure volume	m³	0.036	0.054	0.072	0.108	0.144	0.216
Storage volume	m³	0.0324	0.0513	0.0684	0.1026	0.1368	0.2052
Weight	kg	1.8	2.7	3.6	5.4	7.2	10.8
Short term compressive strength							
Vertical	kN/m²	400	400	400	400	400	400
Lateral	kN/m²	100	100	100	100	100	100
Volume Void Ratio	%	90	90	95	95	95	95
Average effective perforated surface	%	60	60	60	60	60	60

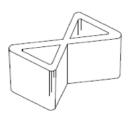
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# Radmat SWG Blue Roof Geocells

#### **Product Data Sheet**

#### **Ancillaries**



**Cross Connector** 



**Twin Connector** 



**Control End Plate** 



#### Installation

- 1. Install Radmat G12 Geotextile Filter Fleece over the roof surface and up all upstands, ensuring enough length is left around the installation for the G12 to wrap up the sides of the SWG Geocells, and enough to overlap a minimum 150mm onto the top of the
- 2. Lay SWG Blue Roof Geocells, clipping adjacent panels to each other using the SW Cross Connectors ensuring each SWG Blue Roof Geocell is correctly oriented for the clips to meet.
- 3. Cover with Radmat G12 Geotextile Filter Fleece ensuring minimum 150mm overlaps.
- 4. Immediately cover with the specified roof finish (green roof/paviors/ballast).

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#### **Product Data Sheet**

#### **G11 Filter Fleece**

Article number:

**General information** Radmat G11 Filter Fleece is a needle punched polypropylene filter fleece for use as a protection

and filter layer in green roofs.

Suitable for all types of green roof with a flat or sloped roof construction on new build or

refurbishment.

To be covered within one month of application.

**Certificates** n/a

**Directions of application** Loose lay over a suitable Radmat reservoir and drainage panel.

Overlap adjacent rolls of Radmat G11 by a minimum of 150mm and turn up at all abutments

the minimum depth of the growing media.

To be covered within one month of application.

According to guidelines given by Radmat Building Products Ltd.

#### **Product description**

Appearance White polypropylene fleece
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#### **Declared performance**

PDS G11 05\_2013

Essential characteristic	Performance	Unit	Tolerance	Standard	
Raw material	PP				
Colour	White				
Weight	150	g/m²	+/- 10 %	EN ISO 9864	
Length	100	m			
Width	2	m			
Roll	200	m²			
Weight per roll	30	kg			
Thickness on	1.80	mm	+/- 20%	EN ISO 9863/1	
	1.40	mm	+/- 20%		
	1.05	mm	+/- 20%		
CBR Puncture Resistance (stat.)	> 1500	N	+/- 10 %	EN ISO 12236	
CBR Puncture Resistance (dyn.)	16	mm	+/- 10 %	EN ISO 13433	
Classification according FGSV	3	GRK			
Tensile Strength MD	10	kN/m	- 1 kN/m	EN ISO 10319	
Tensile Strength CMD	12	kN/m	- 1 kN/m	EN ISO 10319	
Elongation	> 50	%	+/- 10 %	EN ISO 10319	
Opening Size	0.074	mm	+/- 10 %	EN ISO 12956	
Permeability in the plane	0.195	m/s	+/- 30 %	EN ISO 11058	
Durability	At least 25 years in natural temperature of < 25° C.	At least 25 years in natural soil with a $$ pH-value between 4 $$ and 9 and a soil temperature of < 25° C.			

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For further information on Radmat products and services please call 01858 410372, email <a href="mailto:techenquiries@radmat.com">techenquiries@radmat.com</a> or visit our website <a href="www.radmat.com">www.radmat.com</a> or



# **GM20 Extensive Growing Medium**







# Radmat GM20 Extensive Product Data Sheet Growing Medium

#### **General Information**

Radmat GM20 Extensive Growing Medium provides a suitable base for a self-sustaining plant community consisting of pre-grown sedum plug plants or pre-grown sedum blankets (see separate Product Data Sheets for species options). Consisting of a blend of 2/5mm, 5/10mm and 5/15mm grades of crushed brick mixed with 10mm PAS100 green compost. Compliant with GRO substrate guidelines.

#### **Application areas**

Sedum based green roofs using pre-grown sedum plugs or pre-grown sedum blanket. Install GM30 extensive growing medium on either Radmat D25 or D40 drainage/reservoir board covered with G11 filter fleece in accordance with the Radmat specification.

#### **Installation instructions**

Apply to a depth as specified according to plant type allowing 10% post installation settlement. Indicative substrate depths are given in the table below, however the specified depth will vary based on a variety of factors including design load, building location, building height, plant species etc. It is therefore important to consult the project specification.

Planting Method	Roof Type	Post settlement substrate depth
Pre-grown sedum plugs	Inverted Roof	80mm
Pre-grown sedum blanket	Inverted Roof	70mm
Pre-grown sedum plugs	Warm Roof	60mm
Pre-grown sedum blanket	Warm Roof	50mm

#### **Delivery conditions**

**Delivery Form** 

1.2m<sup>3</sup> Bulk Bags 25 litre Sacks.

#### Storage and transport

Delivered on a pallet. Store flat.

TECHNICAL FEATURES			
Essential Characteristics		Performance	Unit
Grain size distribution	Particle size below 0.063mm	2.1	Mass %
	Particle size > 4.0mm	92.8	Mass %
Weight per volume	Dry	1000	kg/m³
	Weight by max water capacity	1260	kg/m³
Water / Air conditions	Total pore volume	63.3	Vol %
	Maximum water capacity	25.8	Vol %
	Air content as max water capacity	37.5	Vol %
	Hydraulic permeability	82	mm/min
Ph/Salinity	Ph value Salinity (water extract) Salinity (gypsum extract)	7.6 1.97 1.28	g/l g/l
Organic matter	Organic matter (LOI)	38	g/l
Available nutrients	Nitrogen (N)	34	mg/l
	Phosphorous (P)	≤ 50	mg/l
	Potassium (K)	≤ 500	mg/l
	Magnesium (Mg)	100	mg/l
Impurities	Tiles, glass, ceramics	0.0	% weight
	Metals, plastics	0.0	% weight
	Area sum for plastics	0.0	cm²/l

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#### **Product Data Sheet**

#### **General Information**

Radmat SedumPlus sedum blanket is a low maintenance, drought resistant, ready to lay sedum vegetation blanket (Mat). Grown in the UK SedumPlus comprises sixteen varieties of sedum pre-grown in a strong biodegradable 450g/m² felt mat made from recycled British

Providing a variety of colour and interest, Radmat SedumPlus has been specially developed to provide a variety of different leaf types and flowers throughout the year whilst enhancing biodiversity. Colours range from greens through to vibrant reds, oranges, purples and browns at appropriate times of the Spring and Summer.

#### **Installation instructions**

Unroll over a suitably prepared and irrigated Radmat growing medium. Loosely butt sides and ends. Once installed irrigate for the prescribed period based on season.

#### **Directions of applications**

**Delivery Form** Rolls

Storage and transport 48m<sup>2</sup> Delivered on a pallet. Store flat.

Product Dimensions				
Subject	Performance	Unit		
Vegetative Coverage	80	%		
Length	2.0	m		
Width	0.6 or 1.2	m		
Thickness	25	mm		
m² / roll	1.2 or 2.4	m²		
Weight / m² (saturated)	25	kg		

Species mix		
Variety	Common name	Description
Sedum Stoloniferum	Stolon Stonecrop	20cm, pink, starshaped flowers, red stems
Sedum Pulchellum	Widow's-cross	10cm, brilliant pink, rich flowering, lush green foliage
Sedum Oreganum	Oregon stonecrop	5cm, yellow, forms cushions, red-brown in sunlight.
Sedum Montanum	Jenny	20cm, golden, dark green needle-like foliage.
Sedum hybridum	Czars Gold	15cm, golden, rich flowering, reddish stems, ever green carpet
Sedum hispanicum	Spanish Stonecrop	10cm, cushion plant, whitish-pink, grey-green cushions.
Sedum Floriferum	Bailey's Gold	10cm, golden, evergreen, crenate foliage.
Sedum Ellacombianum	Selskianum hort	10cm, yellow, unbranched stems and scalloped leaves.
Sedum aizoon	Euphorbioides	40cm, abundant yellow star shaped flowers.
Sedum acre	Oktoberfest	6cm, bright cream-white starflowers, fresh green cushions.
Sedum acre	Yellow	6cm, yellow, mat-forming.
Sedum album	White	10cm, white umbel panicles.
Sedum Spurium	Coccineum	15cm, dark pink flowers.
Sedum Sexangulare	Tasteless Stonecrop	8cm, lemon yellow, dense sweet smelling foliage.
Sedum Reflexum	Crooked Yellow Stonecrop	30cm, yellow flowers with grey leaves.
Sedum telephium	Fabaria	40cm, dense purple-red umbels, dark stemmed, strong blue-green foliage. Attracts bees.

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#### **Product Data Sheet**

#### D25 Reservoir/Drainage Board

**Article number:** 

**General information:** Radmat D25 is a drainage and water storage element for Extensive green roofing.

Manufactured from recycled polystryene Radmat D25 is chemically neutral, rotproof and

resistant to mould and bacteria.

Radmat D25 is supplied in sheets 25 mm deep and is resistant to compression up to 238 kPa.

Certificates: CE 799-CPD-53

**Installation instructions:** Unroll over waterproofing membrane or protection fleece overlapping side and end laps by

one cuspate.

Delivery conditions: Delivery Form Sheet

Storage and transport Delivered flat on a pallet.

Store flat.

#### **Product Dimensions**

Subject	Performance	Unit
Length	1.88	m
Width	0.90	m
m² / Board	1.69	m²
Weight / Board	1.79	Kg

#### Declared Performance

Essential characteristics		Performance	Units	According to
Material		Recycled Polystyrene		
Weight		1060	gr/m²	
Colour		black		
Height		25.0	mm	
Max. Crush Resistance (unfilled)		238	kPa	EN ISO 25619-2 06.2009
Crush Resistance with 3.5 cm overfill		til 768	kPa	EN ISO 25619-2 06.2009
Filling volume		10.1	I/m²	
Water storage capacity (unfilled)		7.5	I/m²	
Drainage capacity on				
	20 kPa load	1.180	I/ms	EN 12958
	100 kPa load	0.336	I/ms	EN 12958
	200 kPa load	0.112	I/ms	EN 12958
Fire protection classification		B2		acc. DIN 4102 part 2

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#### System data sheet



#### EGR WPG Wildflower Green Roof Plugged System (Warm Roof)

The EGR WPG Wildflower Green Roof Blanket System is a premium quality, green roof system designed for flat roofs with minimal falls and suitable for roofs of any height. This system is suitable for both new build and refurbishment projects and across all sectors including housing, education, commercial, leisure and healthcare.

#### When to specify

This system has been designed to be installed on a waterproofing system that incorporates a vapour control layer and complete with a waterproofing cap sheet. A plugged wildflower green roof allows for a complete bespoke system solution, whether the client would like bees or/and butterflies different native wildflower species can be incorporated. On average 29 different species can be specified, these vary in size to offer both low to medium level height coverage. Wildflowers attract a diverse range of wildlife including native pollinating species supporting local biodiversity.





The diagram is for illustration only. The waterproofing membrane demonstrates just one example of applicable detailing.

#### Technical data

	Build-up Compon	ents
	Layer	Depth
1	EGR COB River-Washed Cobbles	70mm**
2	EGR TRM100 Retention Trim	100mm**
3	EGR WFPLG Wildflower Plugs	10mm**
4	EGR EXTSUB Extensive Growing Medium	120mm**
5	EGR DBR20 Drainage Board with Filter Fleece	20mm**

*	Subject to wind uplift calculations by waterproofing manufacturer	<ul> <li>for further information, click here.</li> </ul>
44	Double illustrated above based on tenical assetsor build on Double of	

System Data
Total System Depth:
140mm**
Dry Weight:
103.7kgs/m²
Saturated Weight:
165.92kgs/m²
Minimum Coverage of Installation:

30%

EGR WPG is an aesthetically pleasing wildflower solution with the inclusion of native species to suit the climate on which it is installed. Wildflower green roofs offer a vast mix of plants and can be incorporated to mirror the roof's surroundings seamlessly. They can also support local biodiversity offering food and habitats to a



Irrigation is recommended for this system to enhance the system's performance, temporary irrigation is essential for initial establishment and dry spells.

Maintenance packages are available to ensure peace of mind\*.



#### ACCREDITATIONS AND ASSOCITATIONS

EGR WPG has been chosen for a large number of prestigious

Every roof is installed by trained operatives that follow the

GRO Green Roof Code and FLL Guidelines (aligned to NHBC

It is important that the system delivers it's full life cycle potential of both commercial and environmental benefits.

Once the EGR WPG system has been installed, the living roof

has a Guarantee of Function which will remain in place as long as a regular maintenance programme is continued.







PROVEN TRACK RECORD

Standard 7.1 Flat Roofs and Balconies).

projects within the UK.

**GUARANTEED** 













plant trays with a root ball size of 50mm. All species are installed within 48 hours of delivery to ensure longevity of the plants.



The coverage of a wildflower green roof is dependent on the species. Plugged plants are planted individually, around 20-25 per m². To ensure your wildflower roof flourishes, it is essential to carry out maintenance.





Can contribute to independent building environmental assessment bodies including BRE's BREEAM and LEED.

The EGR WPG also meets objectives set by Local Biodiversity Action Plans, demonstrated for example in the



Protection of the waterproofing system therefore increasing the longevity of the roof. The wildflower roof will continue to thrive aslong as a maintenance\* plan is followed.



\*To ensure the aesthetic appearance, design functionality and environmental benefits of a living roof are maintained, it is important that annual maintenance is undertaken. This includes removal of invasive vegetation, debris, applying specialist fertiliser (if required) and monitoring/ controlling the biomass. EGR also recommends that irrigation is installed for initial establishment and/or dry spells (typically Summer), to which systems need to be tested and commissioned. For further information see EGR's Maintenance Guidance here.

The above information is issued in good faith and without warranty and is intended as a guide only. The information comprises typical data and does not constitute a specification.

