Green Roofers ® | Habitat Pack

Biodiversity on an extensive green roof can be enhanced by providing a wider diversity of habit for differing plants and insects. Introduction of variations in the surface, such as open gravel areas, rock mounds, and sand piles, supplemented with boulders and logs, will create habitats to encourage a range of invertebrates and other ground dwelling species, while also the potential for a wider range of plant species development.

Description

The GR's Habitat Pack is a range of materials suitable for creating wildlife habitats to encourage biodiversity on extensive green roofs. It is supplied as an ICB bulk bag containing rocks, logs, sand to create 6 habitats. Materials are chosen to provide shelter, basking, nesting and foraging areas using rocks, logs, and sand, to attract and support a range of invertebrates and the birds that feed on them, thereby increasing Biodiversity at roof level. Standard habitats can be used as part of an overall living roof design to meet Biodiversity Action Plan and BREEAM requirements for species diversity. Habitats can be created with additional materials, insect hotels and nest boxes for birds, bats, bees and other invertebrates based on species-specific requirements.

Composition

Rocks:
Description: Stones/Rocks/boulders of 70 - 100 mm diameter. Quantity: 18 - 24 per pack (2 habitats/per pack) (1 habitat/50m2 area)

Logs:
Description: Seasoned hardwood logs from responsibly felled ash, oak, beech and sycamore. Fully seasoned for min 12 months.
Size: Assorted sizes; 70 - 200 mm diameter; 1-1.5m long, 3-4 logs per pile (2 habitats/per pack) 1 habitat/50m2 area

Sand:
Description: Sharp sand, natural colour building aggregate. Size: 4 No. 25 kg sacks per pack. (2 habitats/per pack) 1 habitat/50m2 area

Biodiverse habitats should be integrated with substrate, site-specific planting and contoured surface finishes.
Care should be taken for habitat maintenance. To avoid disturbance, allow the materials to weather/decompose naturally and clear adjacent vegetation to allow sunlight to reach exposed surfaces.
Delivery
Habitat materials are delivered in a 1.25 cubic metre IBC bulk bag on a pallet.

Stone Pile Set On Green Roof Area

Log Pile Set On Green Roof Area

GR Product Data Sheet

Green Roofers®
20/40mm PEBBLES

Our roofing shingle is a clean natural material with a good visual impact, power-screened to industry standard. This is an alternative size for most ballasted flat roofs with a higher wind-load. Easy to spread, the material provides good insulation and drainage and is ideal to walk on during roof inspections.

Product can be supplied in 25kg, 40kg and one tonne bulk bags.

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GR Product Data Sheet

Green Roofers®
WILDFLOWER SEED MIX

Latin Names	Common Name
Agrimony eupatoria	(Agrimony)
Anthyllis vulneraria	(Kidney vetch)
Borago officinalis	(Borage)
Centaurea nigra	(Black Knapweed)
Centaurea scabiosa	(Greater Knapweed)
Digitalis purpurea	(Wild Foxglove)
Echium vulgare	(Viper's bugloss)
Geranium pratense	(Meadow Cranesbil)
Knautia arvensis	(Field Scabious)
Lythrum salicaria	(Purple loosestrife)
Leucanthemum vulgare	(Oxeye daisy)
Lychnis flos-cuculi	(Ragged Robin)
Lotus corniculatus	(Bird's-foot trefoil)
Malva moschata	(Musk Mallow)
Papaver rhoeas	(Common poppy)
Scabiosa columbaria	(Small scabious)
Trifolium pratense	(Red clover)
Trifolium repens	(White clover)
Origamum vulgare	(Wild marjoram)
Onobrychis viciifolia	(Sainfoin)
Salvia verbenaca	(Wild Clary)
Achillea millefolium	(Yarrow)
Rhinanthus minor	(Yellow Rattle)
Agrostemma githago	(Corn Cockle)
Centaurea cyanus	(Cornflower)
Dipsacus fullonum	(Teasel)
Agrostis castellana	(Common Bent)
Cynosurus cristatus	(Crested Dogtail)
Festuca ovina	(Sheeps Fescue)
Festuca rubra	(Slender creeping Fescue)
Poa pratensis	(Smooth stalked meadow)

Bright and beautiful British native wildflowers, formulated to provide maximum food source for bees and butterflies, whilst creating a visually attractive meadow. The mix contains annuals which will continue to germinate and provide the colour and a nectar source to feeding insects.

A percentage of (typically ≤80%) of the mix are grass species which helps to establish and stabilise the substrate
Mix: 18 Wildflower species, 7 Annuals, 6 Grass Species

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GRBioD Product Data Sheet

Green Roofers®
GRBioD LIGHTWEIGHT BIODIVERSE SUBSTRATE

A free draining, low nutrient growing medium, mixed with a blend of water retaining aggregates and Lava Rock. All materials in the mixture are from 100% recycled materials, which is compliant to BS8616:2019 and performs in line with the requirements set out in The GRO Green Roof Code and FLL

Packaging:

Supplied in Bulk Bags certified for multi-lifting, or 25kg pallets shrink-wrapped on recycled 4-way pallets.

Product is bagged specifically for projects to ensure material is kept dry and free from growth or detritus.

A safety certificate for the bulk bags can be issued to client, contractor or site.

Technical Properties	
Loose Bulk Density	910kg/m3
Saturated Weight	1250kg/m3
pH range	6.0 - 8.0
Max Water Capacity	45 up to 55% Volume
Organic Matter (% weight)	Less than 20%

MATERIAL CONTENT
Consists of a mixture of Lava Rock, Expanded Clay, Clean Coarse Sand and organic peat free compost.

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GRD40 Product Data Sheet

Green Roofers®
GRD40

Made from deep-drawn recycled HDPE with water reservoir function, channel system on the underside for drainage, and with diffusion and drainage holes. For use with extensive and simple intensive green roofs with a multi-layer construction. Suitable for use on inverted roofs.

Material	Recycled Hdpe
Nominal Thickness	Approx. 40 Mm
Grammage	Approx. 2,300 G/M.
Colour	Black/Grey
Max. Compressive Strength Unfilled	Approx. 144 Kn/M. (Din En Iso 25619-2) With 8.4 % Compression
Max. Compressive Strength Filled	Approx. 280 Kn/M. With 10 % Compression And 20 Mm Overfilling
Water Discharge Capacity (Din En Iso 12958)	Measured At: Σ = 20 Kpa, Soft/Hard, Md, With A Fil 105 Filter Fleece On The Upper Side: I = 0.01 (=1 % Roof Pitch): 1.60 L/(M*S) I = 0.02 (=2 % Roof Pitch): 2.31 L/(M*S) I = 0.05 (=5 % Roof Pitch): 3.76 L/(M*S) I = 1 (Vertical): 16.64 L/(M*S)
Flammability	Construction Material Class E As Per Din En 13501, Certified In Accordance With Din En Iso 11925-2
Water Reservoir (Unfilled)	Small Naps Facing Up (Lettering Readable): Approx. 8.7 L/M.
Filling Volume	Small Naps Facing Up (Lettering Readable): Approx. 16.0 L/M.
Quantity/ Delivered Unit	2 M./Panel = 2.0 X 1.0 M 600 M./Disposable Pallet
Delivery Form	600m. On Disposable Pallet 2.05 X 1.05m
Pack Size	Lxwxh 2,000 X 1,000 X 40 Mm

GR Product Data Sheet

Green Roofers®
GR FILTER FLEECE - 150 GSM

THE SPECIFICS:

PRODUCT DESCRIPTION		
Appearance	White polypropylene Fleece	
DECLARED PERFORMANCE		
Essential characteristics	Performance	Unit
Raw material	PP	
Colour	White	
Weight	150	g/m2
Thickness	0.80	mm
Size (supplied in rolls)	100m x 2m	m
Coverage	200	m2
Water Permeability/Flow Rate	65	L/m2/s
Tensile Strength	12	kN/m
Pore Size	70	UM
Resistance to perforation	2	kN

GR Filter Fleece is a filtration layer that prevents dirt and leaves from washing into the drainage and water storage layer

Directions of Application:

Loose lay over a GR Retention Box - 100 Light. Overlap adjacent rolls of GR Filter Fleece by a minimum 150mm and turn up at all abutments the minimum depth of the substrate or cobbles.

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GRAT Product Data Sheet

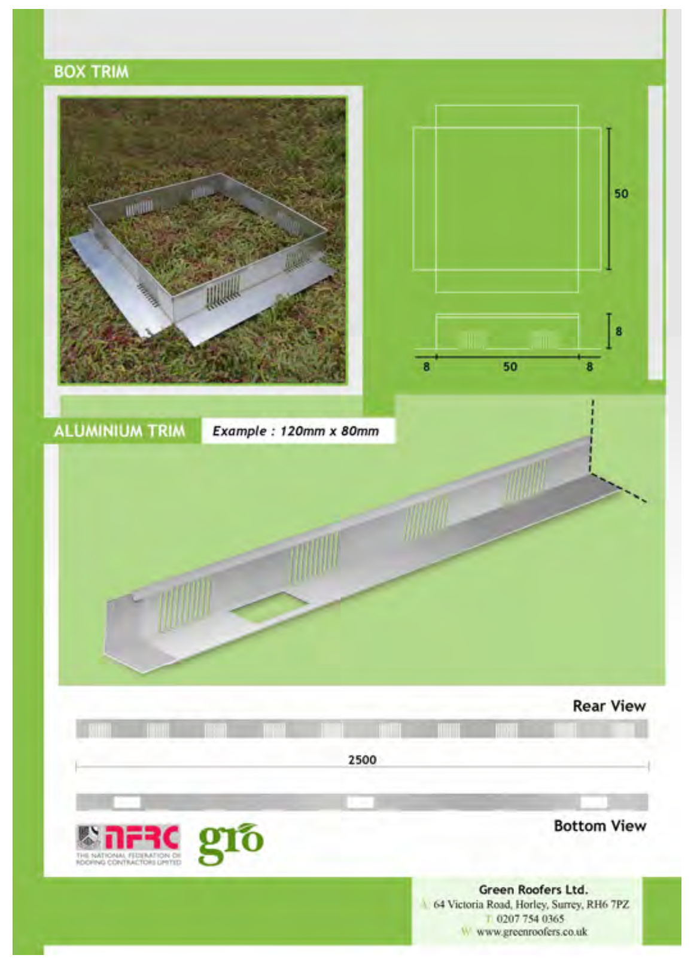
Green Roofers®
GR ALUMINIUM TRIMS

Our Perforated edge trims are used to frame and contain the green roof buildup. The height of the trim is specific to substrate and drainage board depth on the green roof system. The ideal trim is detailed on the Green Roofers design.

The standard length is 2.5 metres, which has pre-punched and profiled banks of drainage slots and base retaining slots to allow attachment to all Membranes, Felts, Liquids and Asphalt.

Product Information:

CHARACTERISTICS	UNIT	DESCRIPTION
Material Thickness	mm	1.5mm Aluminium
Trim Height	mm	50, 80, 100, 120 or 150mm
Dimensions	mm	Trim Length x 2500mm
Width of Base	mm	80mm
Finish		Mill Finish Aluminium



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Green Roofers®
GR | BIO DIVERSE
MAINTENANCE PACKAGE

Carried out a minimum of 2 times per annum.

WILDFLOWER AREAS

- Autumn Cut - A cut between the end of August and late November removes the surplus growth and helps keep unwanted vegetation at bay to allow the wildflowers to persist. ALL cuttings must beremoved from the roof.
- Removal of all weeds, thistles, tree saplings and general unwanted vegetation.
- General inspection of wildflower health, repairing any damaged areas and also bolstering slow progressing areas with wildflower cuttings & seeds (4g/m2).
- Inspection of the roof drainage (outlets, gutters, cobble borders, inspection chambers) to ensure these are functioning correctly / removing any debris to avoid potential drainage issues.
- Applying Green Roofers' fertilizer 25g/m2 - Recommended once per year - Best time for application Late April - Early September. (Data Sheet below).
- Ensuring a general tidy up, ensuring cobble borders are neatly aligned .
- Inspection of Green Roofers' aluminum trim to ensure all securely fixed in place.
- We will ensure the roof receives a thorough soak by our maintenance operative whilst carrying out the above activities, roof level tap (2-bar) will need to be available above works. (Water outlet must be available within close proximity to roof level).

SEDUM BLANKET VEGETATION AREAS

- Removal of all weeds, thistles, tree saplings, grasses and general unwanted vegetation.
- General inspection of sedum health, repairing any damaged areas and also bolstering slow progressing areas using our sedum cuttings.
- Inspection of the roof drainage to ensure this is functioning correctly and removing any debris to avoid potential drainage issues.
- Applying Green Roofers' fertilizer to the sedum (if required).
- Giving the roof a soak, whilst we carry out the above works. (water outlet must be available within close proximity to roof level).
- Removal of any deceased plants that have come to the end of their blossom, this avoids suffocating any sedum underneath.
- Potential Autumn cut (if needed)

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GR | BIO DIVERSE MAINTENANCE

WILDFLOWER AREAS ONLY
GENERAL TIPS

GENERAL TIPS

- It is usually a good idea to leave the initial cuttings on the roof for a few days to allow the seedlings to reproduce but it is important you do collect the cuttings to reduce soil fertility.
- Aim for the cut to be 5-7.5cm (2-3in) high.
- Small areas can be cut with a hand scythe or strimmer (though a strimmer has the tendency to chop up the material quite small, making it harder to remove with a rake). Larger areas are best tackled with a mower. Strimmer's are associated with creating plastic waste so to minimise the impact on the environment consider using biodegradable strimmer cord; static strimmer blades tend to get clogged when used for soft material such as long grass so are not suitable.
- Suitable areas of Wildflower will be left unmown over the winter, which will provide seeds and invertebrates for black redstarts and other species to forage
- Make sure all habitats on the bio diverse roof

WATERING GUIDE : (Wildflower & Sedum)

Following on from the install we would recommend you soak the roof once every 3 days for 10/12 weeks. This will help the vegetation to fully establish, the vegetation can be soaked more frequently if you're able too.

Once you're out of the establishment period we recommend that you do not leave the vegetation for any longer than 3 weeks without a soak. The more often you can water the vegetation the healthier it will be and better your roof will look all year round!

*The above are guidelines; the vegetation will visibly show when under any distress from a lack of water in which case you must ensure it receives a soak as soon as possible.

AFTERCARE DONT'S!

Sedum and wildflowers are species that do amazingly well adapting to various different climates, but there are a few things you should never do to your green roof.

- Leaving the vegetation for extended dry periods without water, this kind of neglect will be detrimental to the health and longevity.
- Constant traffic on the vegetation - By all means it's okay to walk on for activities such as maintenance or inspections but any constant traffic for prolonged periods will damage the vegetation. If this is a must, putting down a ply board or similar to walk on will limit damages but may not prevent them completely, same applies for heavy objects.
- Please also avoid any food being left on the roof and do not use any pesticides or chemicals.
- Unwanted vegetation removal should be done by hand or hand tools only.

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GR | BIO DIVERSE MAINTENANCE

WE ALSO OFFER:

- A detailed maintenance report following each visit showing what our team have carried out.
- Strategic plans to combat any slow progression or damaged areas.
- Designated member of the Green Roofers team who will be contactable all year round

T&C's

Additional maintenance may be required depending on the type of Green Roof system installed.

Please be aware that we will not accept the responsibility of any green roof that is not maintained by Green Roofers Ltd.

Green Roofers Ltd are not responsible for the watering of the green roof or any damage caused by others.

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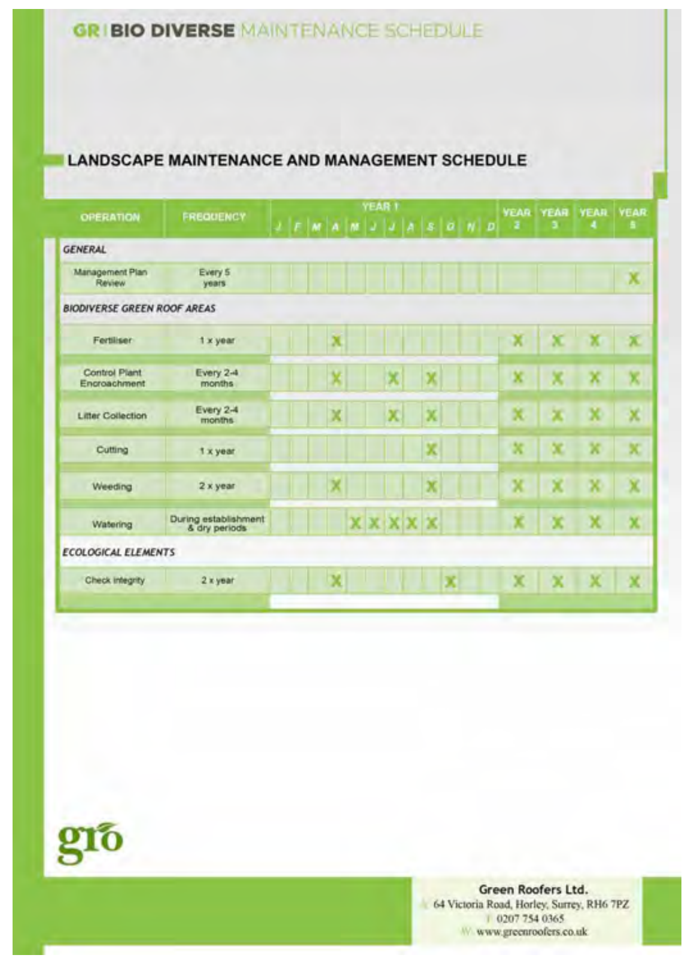

GR | BIO DIVERSE MAINTENANCE SCHEDULE

LANDSCAPE MAINTENANCE AND MANAGEMENT SCHEDULE

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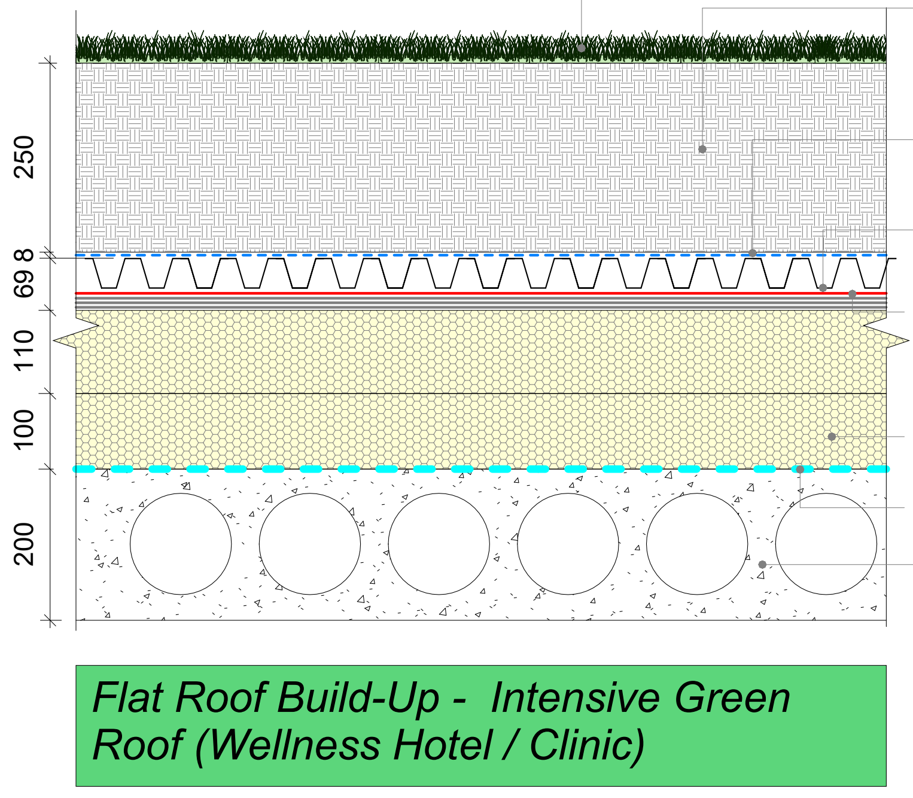
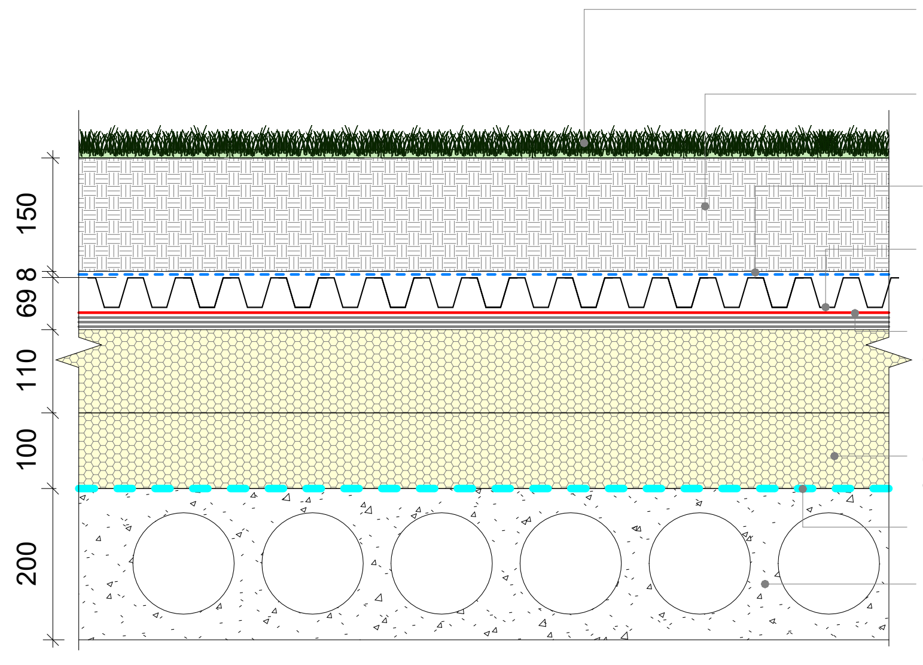


250
69 8
110
100
200
Turf / planting layer (as specified by Guarda Landscape)
Nominal 250mm substrate layer (thickness as specified within condition 18 wording). spec: SikaRoof Substrate Intensive UK
Filter fleece (SikaRoof Filter Fleece)
40mm Drainage Layer (SikaRoof Rigid Drainage Layer 40 UK)
Waterproof Membrane / Root Resistant cap sheet (SikaBit T Root Resistant Cap Sheet)
210mm insulation (100 + 110mm) Celotex or equal approved to achieve required U-Values as per latest SAP Calculations.
Vapour Control Layer (S-Vap HD VCL)
200mm precast concrete plank to Structural Engineers design and specification

Flat Roof Build-Up - Intensive Green Roof (Wellness Hotel / Clinic)

Green roof build up based on Sika Intensive Green roof Build-up. Contractor to advise if alternative system is to be used). All layers to be laid in accordance with roof suppliers specification and installation instructions.
Insulation thickness to be determined by required U-Value figure stated within BRUKL report.



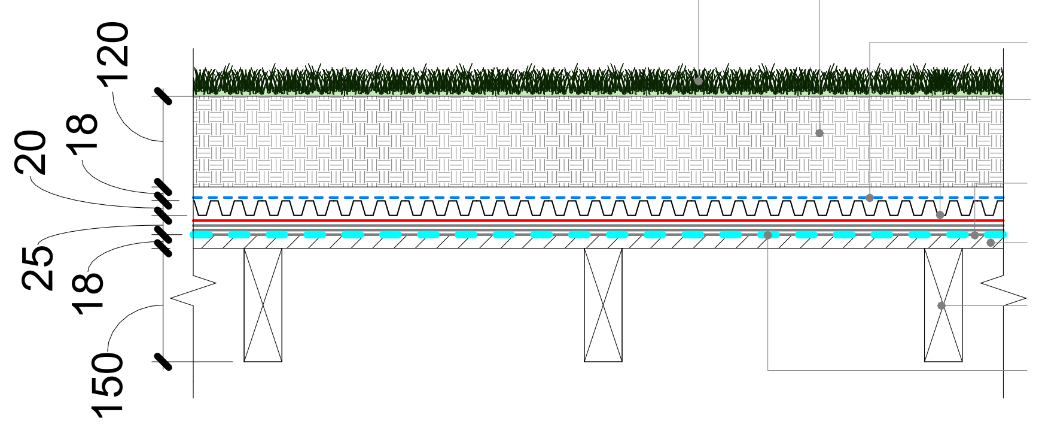
150
69 8
110
100
200
Turf / planting layer (as specified by Guarda Landscape)
Nominal 150mm substrate layer (Note: thickness restricted by parapet / building height and proposed ceiling heights). spec: SikaRoof Substrate Intensive UK
Filter fleece (SikaRoof Filter Fleece)
40mm Drainage Layer (SikaRoof Rigid Drainage Layer 40 UK)
Waterproof Membrane / Root Resistant cap sheet (SikaBit T Root Resistant Cap Sheet)
210mm insulation (100 + 110mm) Celotex or equal approved to achieve required U-Values as per latest SAP Calculations.
Vapour Control Layer (S-Vap HD VCL)
200mm precast concrete plank to Structural Engineers design and specification

Flat Roof Build-Up - Intensive Green Roof (North Hill Flats / Apartments)

Green roof build up based on Sika Intensive Green roof Build-up. Contractor to advise if alternative system is to be used). All layers to be laid in accordance with roof suppliers specification and installation instructions.
Insulation thickness to be determined by required U-Value figure stated within BRUKL report.

Standard Details - Intensive Green Roof Build-ups

1 : 10



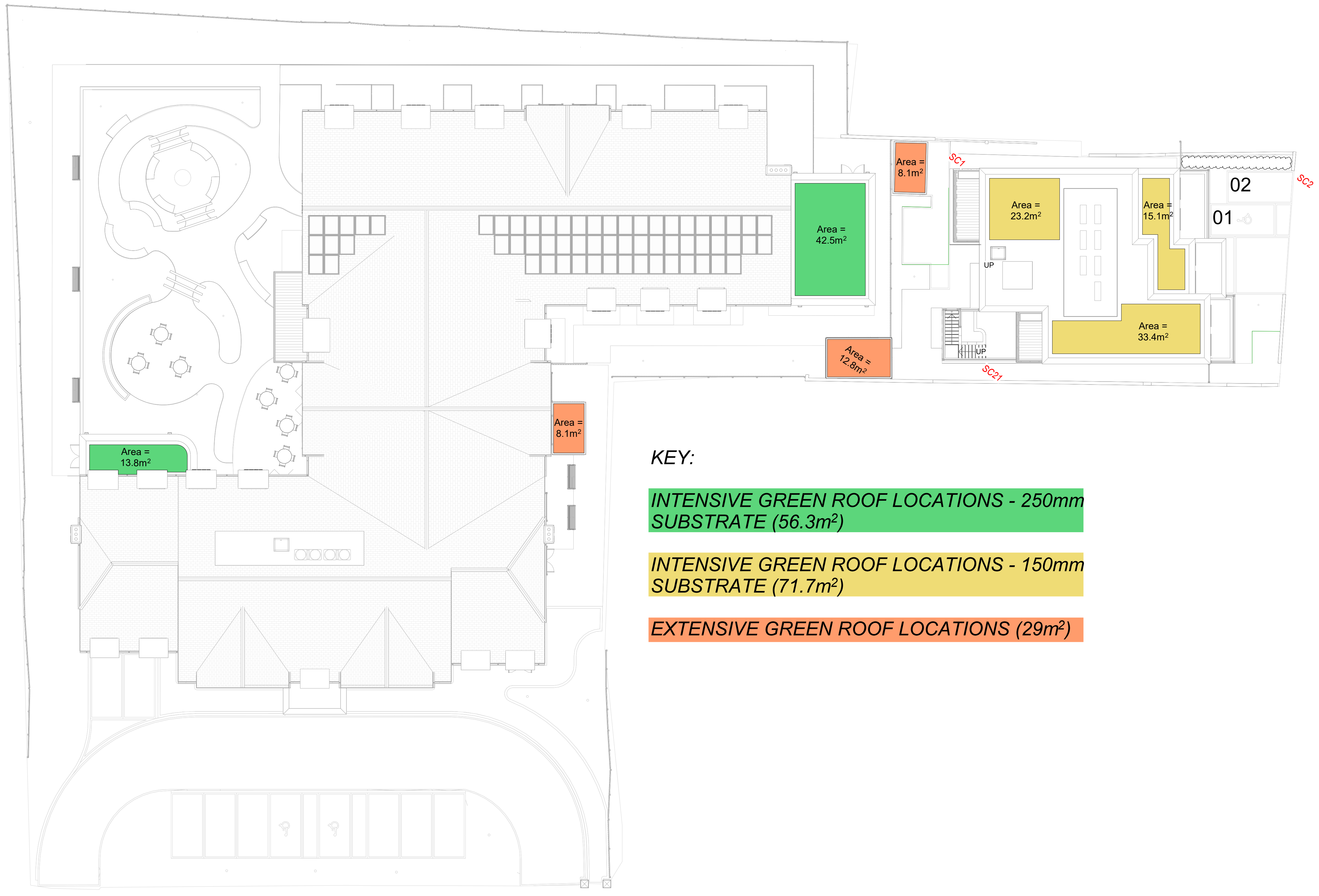
120
18
20
25
18
150
Turf / planting layer (as specified by Guarda Landscape)
Nominal 120mm substrate layer (thickness as specified within condition 18). spec: SikaRoof Substrate Intensive UK
Filter fleece (SikaRoof Filter Fleece)
20mm Drainage Layer (SikaRoof Rigid Drainage Layer 40 UK)
Waterproof Membrane / Root Resistant cap sheet (SikaBit T Root Resistant Cap Sheet)
18mm thick waterproof ply board
Indicative timber joists to form main structure for stores. Final structure to be confirmed at later stage
Vapour Control Layer (S-Vap HD VCL)

Flat Roof Build-Up - Extensive Green Roof (Bike & Bin Stores)

Green roof build up based on Sika Extensive Green roof Build-up. Contractor to advise if alternative system is to be used). All layers to be laid in accordance with roof suppliers specification and installation instructions. Extensive green roof specified for both cycle & bin stores, therefore manufacture may provide store that has integrated green roof system

Standard Details - Extensive Green Roof Build-up

1 : 10



KEY:

🟩 INTENSIVE GREEN ROOF LOCATIONS - 250mm SUBSTRATE (56.3m²)

🟨 INTENSIVE GREEN ROOF LOCATIONS - 150mm SUBSTRATE (71.7m²)

🟧 EXTENSIVE GREEN ROOF LOCATIONS (29m²)

Master Site Plan - Green Roof Types

1 : 250

PROJECT	SCALE AT A1:	DATE:	DRAWN:	CHECKED:
New Build 50 Bed Care Home and 9 Unit Block of Flats at: 1 View Road / 103 - 107 North Hill, Highgate N6 4DP	As indicated	22.04.26	JA	RM
DRAWING TITLE Green Roof Details - Spec Sheets & Sections	PROJECT NO: D01-02	DRAWING NO:. 432		REVISION:
CLIENT Highgate Care Ltd	NOTE:			
DRAWING STATUS PLANNING				

NOTE:
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY.
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REV	DESCRIPTION	BY	DATE