Replacement Garden Extension, 45 Upper Park Road, Belsize Park, NW3 2UL

Planning Condition Drawings /App.Ref.2018/4709/P

June 2019

Client: Hugo & Rosalyn Henderson

Architect: Birds Portchmouth Russum

Replacement Garden Extension
45 Upper Park Road; Belsize Park

Planning Conditions Drawings

UP PL 390	Proposed UGF Window: Plan, Section, Elevation and Details	1:20& 1:5
UP PL 391	Sedum Roof: Axo	NTS
UP PL 392	Sedum Roof: Section	1:10
UP PL P6	KEMPERGRO Sedum Roof Maintenance	

Clients : Hugo & Rosalyn Henderson
Engineer : Eckersley O'Callaghan
Services Engineer : En Masse Design
Building Control : Clarke Banks
Architect : Birds Portchmouth Russum Architects
Contact details :
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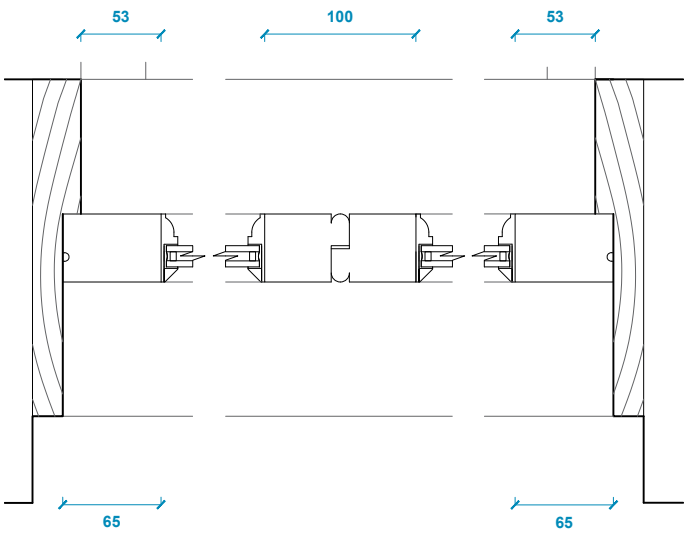
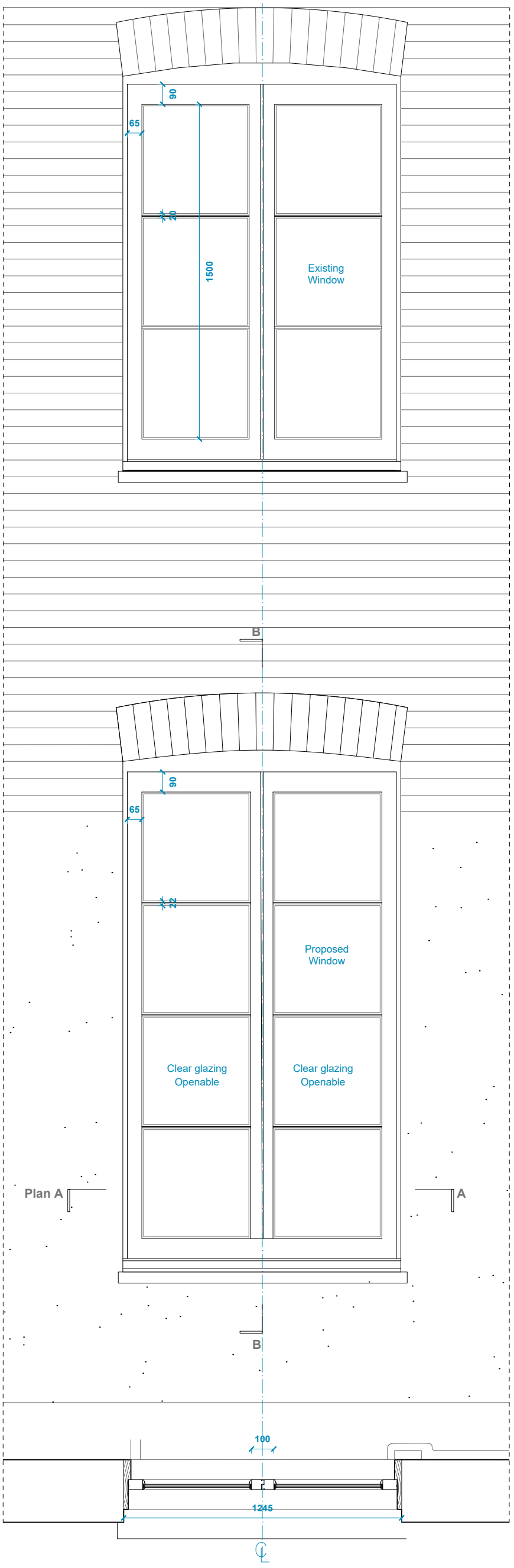
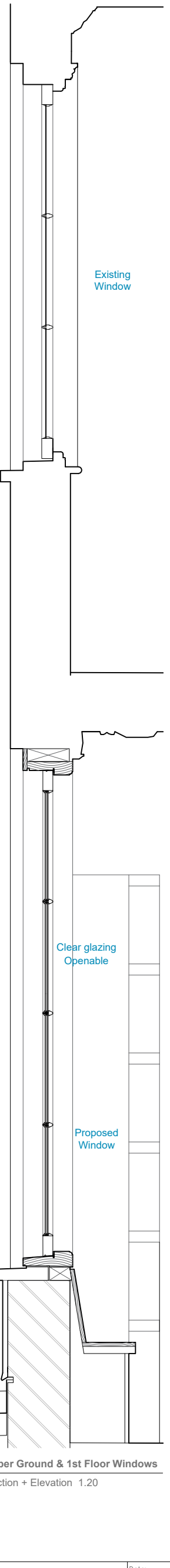
Date: September 2018



Upper Ground Floor Window

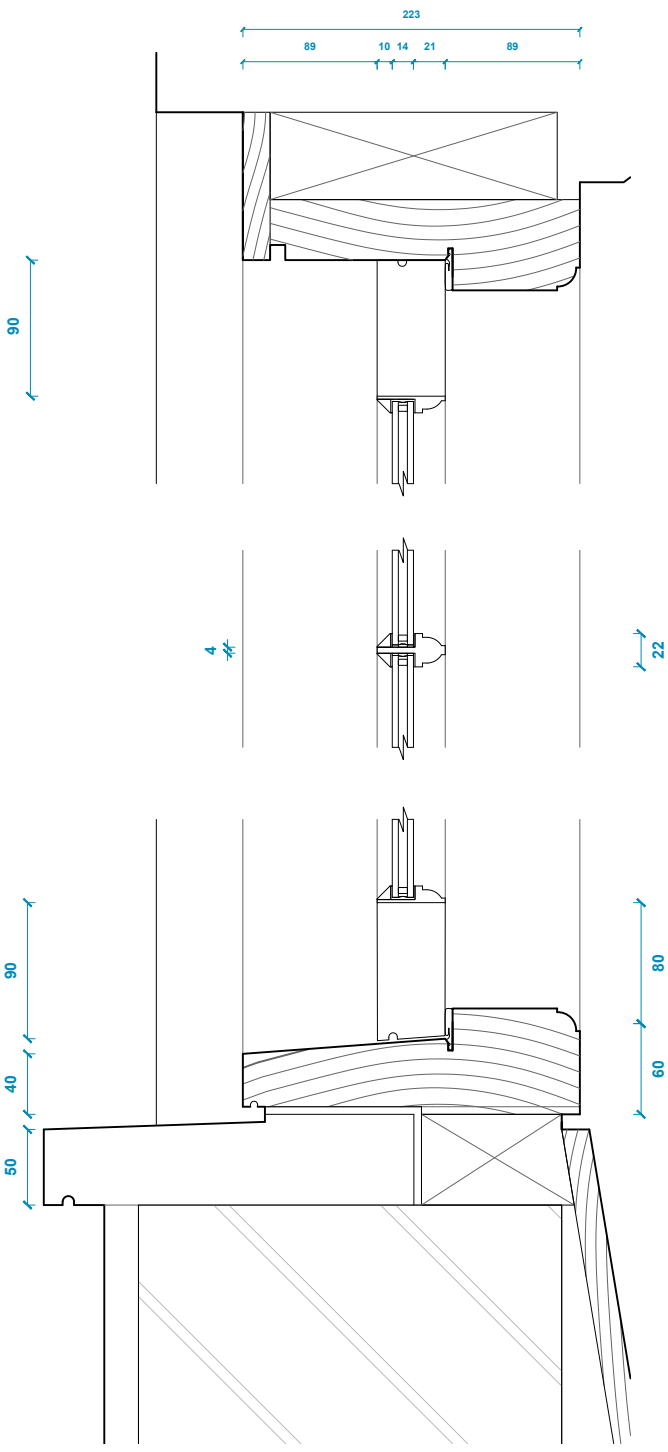
Detailed Plan AA 1.5





Upper Ground & 1st Floor Windows

Section + Elevation 1.20



Upper Ground Floor Window

Detailed Section BB 1.5

NOTES

1. No dimension to be scaled from drawings
2. All dimensions to be verified by the contractor before work is commenced
3. All works to be carried out in accordance with relevant British Standards and manufacturers details & specifications
4. Structural work to be carried out in accordance with Structural Engineers drawings & specifications. If any discrepancies in information arise, the architect should be notified immediately and prior to construction or fabrication.
5. All materials and details should be fit for purpose

CASEMENT WINDOW: TimbAwood heritage range or similar approved.

Rev:	Note:	Date:

Project: 45 Upper Park Road	Issue/Date: 24.06.19
Drawing: Proposed UGF Window: Plan Section, Elevation and Details	Status: Information
Drawing No: UP.PL.390	Scale: 1:20@ A3

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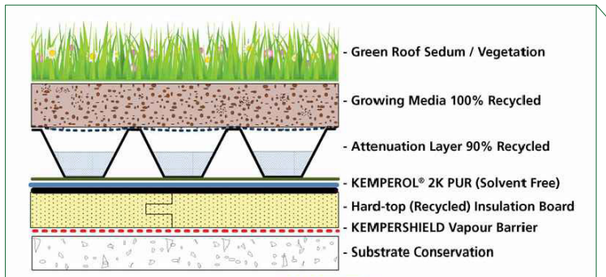
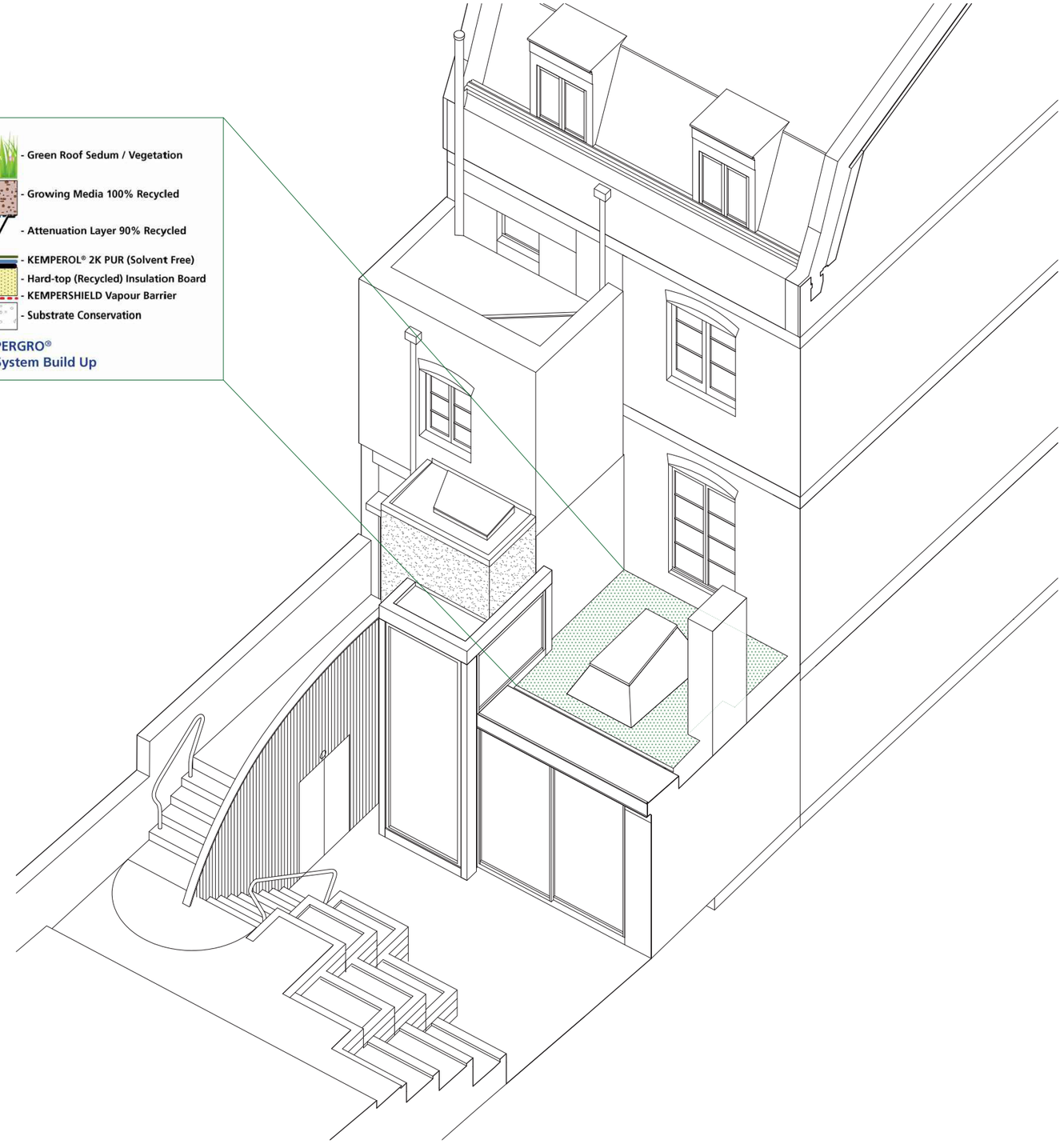


KEMPERGRO®
Green Roof System Build Up



Section Key:

Drawing Scale:

Rev:	Note:	Date:

Project: 45 Upper Park Road

Issue/Date: 24.06.19

Drawing: Kemper Grow Sedum Roof : Axo

Status: Information

Drawing No: UP.PL. 391

Scale: @ A3

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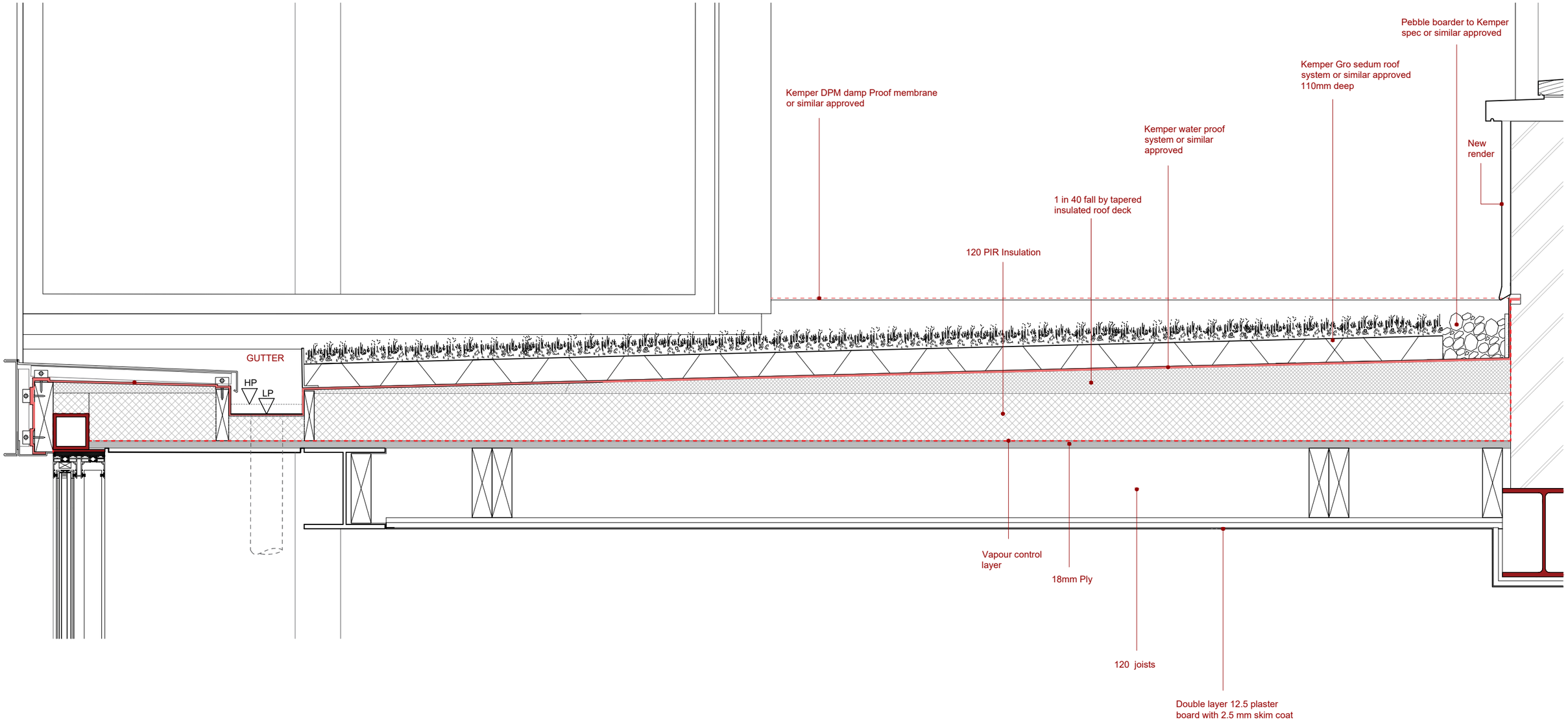

Kemper Specification Ref: 401 A

VEGETATION Pre-grown Sedum Mat

- Manufacturer: Kemper System Limited, Kemper House, 30 Kingsland Grange, Warrington Cheshire WA1 4RW. www.kempersystem.co.uk
- Product Reference: Kempergro Sedum Mat
- Planting Mix: Species list;
  Sedum Stoloniferum, Sedum Pulchellum, Sedum Oreganum, Sedum Montanum, Sedum Hybridum, Sedum Hispanicum, Sedum Floriferum, Sedum Ellacombianum, Sedum Aizoon, Sedum acre Oktoberfest, Sedum Acre Yellow, Sedum Album, Sedum Spurium, Sedum Sexangulare, Sedum Reflexum, Sedum TelephiumThickness: 35mm
- Vegetation coverage (minimum): 80%

Kemper Specification Ref: 131A

EXTENSIVE GREEN ROOF Kempergro from Kemper System Limited

- Roof type: AS J31/120A.
- Substrate: AS J31/120A.
- Slope: As project drawings.
- Waterproofing: Fully reinforced cold liquid applied resin as section J31 .
- Thermal insulation: Refer to section J31.
- Root Resistance Barrier: Not required with Kemperol waterproofing systems
  Drainage and Protection Layer: Drainage & Protection Layer: Consists of three components bonded together to create a single element; as clause 356C.

i. A filter textile which is bonded to the upper part of the reservoir board to provide a separation layer which filters particles and fines down to 100 microns (µm), preventing the substrate from any ingression into the reservoir layer.

ii. A 20mm thick drainage/reservoir board which attenuates and retains the optimal amount of water for the success of the plants and biodiversity of the roof, Storage capacity should be a minimum of 5.5ltr/m2. The core is also perforated to allow the excess water to drain away, preventing pooling and frustration of the plants.

iii. A moisture retention & protection fleece is bonded to the underside of the reservoir/drainage board. It provides three functions protecting the waterproofing, retaining moisture for plants and controlling the rate of runoff for excess water.

- Growing medium: Sedum Roof Mix: UK manufactured, 100% recycled high performance substrate, consisting of biodegradable green compost & crushed brick. The substrate is designed specifically for a variation of plants and grasses, its slow releasing nutrients can give long term support to this wide range of plants specific to the geographical location of the roof. .
- Depth: as clause 391A .
- Vegetation: Pre-grown Sedum mat as clause 401A

Accessories: 100mm x 100mm Aluminium Upstands to internal perimeters to separate firebreak & growing medium. 20-40mm washed pebble to perimeter & all major protrusions.

Drawing Scale:

Section Key:

Rev:	Note:	Date:
Project: 45 Upper Park Road		Issue/Date: 24.06.19
Drawing: Sedum Roof: Section		Status: Information
Drawing No: UP.PL.392	Scale: 1.10 @ A3	

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KEMPERGRO® Sedum Green Roof Maintenance

Sedum

Typically an extensive green roof is created using a variety of sedum plants in the form of plug plants or a pre grown sedum blanket. Sedums are low growing succulents – plants with thick fleshy leaves and stems. They are also extremely drought tolerant which makes them particularly suitable for growing in the harsh conditions found on a roof. It is advisable to use a variety of sedum, to ensure maximum coverage & diversity as each species prospers under particular seasonal or weather conditions.

Living roofs

Professionally installed or planted extensive and wildlife roofs are specifically designed to be self-maintaining. As with all of nature, sedum change appearance along with the seasons. Some species change color entirely, from green to red or their leaves will become much smaller; it is a "living roof". Customers are therefore advised that the roof will not always look 'Green' and that as with the plants in your garden, the roof will not look as 'fresh' throughout the winter months as it does in spring and summer. Plants die back and will look brown and woody. In the spring these can be cut back, otherwise they will naturally rot away. A certain degree of 'maintenance' is about the aesthetics of the way the roof looks.

Maintenance Regime

We recommend a minimum of two maintenance visits per year for a sedum roof to ensure the guarantee of function. Ideally these would be in the spring time and autumn.

The maintenance regime would include:

- Removal of debris and dead vegetation from the roof surface, drainage outlets, guttering and washed pebbles, etc.
- Weeding and removal of grass / saplings
- Sowing of additional sprouts to repair patches of poor growth
- In some cases application of a slow release, low nitrogen fertilizer- if deemed to be beneficial to the plant growth.
- Additional Watering (particularly important in dry periods)
- Review Inspection Chambers and ensure that water outlets are all free draining.
- Clear and clean all perimeter and detailing surrounds

Please Note:

- A water supply should be provided to each roof area.
- The above information is provided as a guide.
- Each Green roof should be looked at on a individual basis to determine the most appropriate maintenance regime in terms of number of visits and works to be carried out on those visits.

For further advice or contact information please visit our website www.kempersystem.co.uk

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Waterproofing Inspection and Care Guidelines for KEMPEROL® Waterproofing and KEMPERDUR® Coating and Surfacing

Access to the waterproofing should only be carried out by suitably trained personnel with full compliance to all relevant safety regulations.

Unprotected KEMPEROL® membranes are suitable for general roof access for maintenance and inspection purposes. Any access or maintenance equipment used on the roof should be used so as to not damage the waterproofing system. Use suitable protection as required.

For the purposes of keeping drainage outlets clear it is normally recommended that roof inspections are carried out after leaf fall in autumn and in the spring. The frequency of inspection will vary with location. Following the cleaning operations carry out a visual inspection. Anything of concern should be communicated to KEMPER SYSTEM.

KEMPEROL® waterproofing systems and coatings/finishes may be cleaned to remove contamination. The use of water-based detergents is permissible and more effective cleaning can be achieved by scrubbing the soiled surface with a nylon bristle brush. Avoid any mechanical cleaning that will physically damage the surface of the membrane.

Highly concentrated cleaning agents, disinfectants and caustic sanitary cleaners are unsuitable and should NOT be used. This includes the use of organic solvents (cellulose thinners, acetone, etc.) and strong alkali solutions such as caustic soda, bleach, etc. Some window cleaning agents contain solvents which may attack the KEMPEROL® surface or cause discoloration, therefore avoid excessive splashing and always remove traces of such cleaning agents by thoroughly rinsing with clean water.

Decorative wearing finishes to balconies and access decks should be kept clean by regular light brushing. Do not use metal brushes, scrapers or similar mechanical means. High pressure cleaning equipment or cleaning machines should only be used occasionally. The maximum rated machine pressure that may be used on KEMPEROL® waterproofing systems is 80 bar and on KEMPERDUR® finishes and coatings 40 bar; furthermore maintain a distance of 20cm minimum between the nozzle and the surface.

Any vegetable matter such as leaves and flowers left to degrade on the surface may lead to staining of the surface due to the micro-porosity of the system.

Plant pots should be stood on impervious trays/containers to avoid causing discoloration of the waterproofing. Refer to KEMPER SYSTEM for advice of any chemical treatment of the membrane for the purposes of cleaning or removal of vegetation or algae growth.

NOTE: Hot material above 250^{0}C must not be allowed to come into contact with the membranes or finishes, otherwise permanent damage may occur.

Any damage to either the wearing surface or the membrane should be repaired as soon as possible to help maintain the waterproofing integrity of the systems; in the first instance please contact the original KEMPER SYSTEM installing contractor.

In the event of un-foreseen spillage of chemicals, oils or greases please consult KEMPER SYSTEM, communicating the material involved, nature of contamination, and duration of exposure.

For further advice or contact information please visit our website www.kempersystem.co.uk

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