

1. Detail of wildlife panels



2. View of open-sided shelter with wildlife panels + green roof



3. Alternative view



4. Wildlife panels to side and rear of '8x Cycle Shelter' at top and bottom of shelter (mesh and doors is not proposed in this shelter)



5. Example cycle shelter showing typical semi-intensive type roof planting



6. Example cycle shelter showing typical green roof planting, gently mounded. Habitat panels and bird nesting boxes are visible.

1 x CYCLE SHELTER WITH GREEN ROOFS + WILDLIFE PANELS
A short-stay cycle shelter for visitors has been provided in the open space near the main building entrance, with green roof growing substrate, green roof pollinator-friendly planting, external wildlife panels for invertebrates, and bird nesting boxes. This shelter has been

specified with open sides to ensure clear visibility through it. The green roof planting is visible to people at head-height and will present a green planter bed when viewed from above.

GREEN ROOF Cycle Shelters

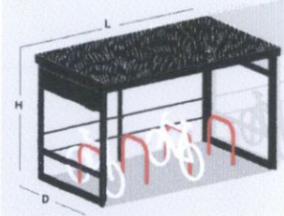
A building and wildlife habitat delivered in one.



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MODULAR SHELTERS FOR 6 OR 8 BICYCLES:
8 bicycle shelter:
L: 3700
H: 2190
D: 2076



GREEN ROOF BICYCLE SHELTERS
Secure, sheltered cycle parking with rich biodiverse roofs and habitat for beneficial wildlife

- Parking for multiples of 6 or 8 bikes.
- Optional versions - open sided, timber clad or securely enclosed.
- Built in locking bars or standard 'Sheffield' stands.

BIODIVERSITY

- 125-150mm depth of green roof substrate (much, much more than a sedum mat).
- Drought tolerant planting using native wildflowers and other nectar-rich species.
- Creates a food source for bees, butterflies, moths and other invertebrates.
- External wildlife habitat panels providing space for:
 - Solitary bees - harmless and important pollinators.
 - Bird nesting - in carefully integrated boxes.
 - Invertebrates - provides refuge, forage and overwintering spaces.
- The roofs provide an undisturbed space for wildlife.
- Choice of soil substrates and planting types. Can be tailored to location and local BAP target species.
- We offer pre- or post-installation biodiversity workshops.

DESIGN

- Robust galvanized structural steel construction.
- Future-proof - in that structures are freestanding and can be simply relocated as needs arise.
- Carefully considered material selection incorporating reused and recycled materials.
- Steelwork often with an average 55% recycled steel content.
- We are well known for our habitat panels and continue to innovate.
- Information panels to explain the planting and habitat potential of our shelters.
- Variety of natural and manufactured habitat in-fill materials that are reclaimed from a variety of local sources.

INSTALLATION AND MAINTENANCE

- Minimal installation sitework.
- Shelters arrive planted and complete, ready for immediate use. They are transferred from delivery lorry to final position by lorry-based crane (up to 6 metres from the lorry).
- Paved area, level slab or other hardstanding is required (normally the responsibility of the client; we can advise).

OPTIONAL EXTRAS / ALTERNATIVE USES

- LED lighting, provision for mobility scooters, seating, etc. or use as visitors rain shelter

Green Roof Shelter's John Little has over 17 years experience in public green space including building and cladding buildings in wildlife habitat. He runs green roof workshops, has written a green roof DIY guide, and his 'Small Green Roofs' is published by Timber Press.



GREEN ROOF SHELTERS - Ecological value, biodiversity and BREEAM

Most planning policies expect green infrastructure, such as green roofs, to be incorporated into proposals.

In addition to secure cycle parking or bin storage, **Green Roof Shelters** supply the additional features:

- species-rich biodiversity (a substantial biodiverse green roof),
- SUDS (sustainable urban drainage),
- invertebrate-nesting wall panels and bird nesting boxes,
- a green roof that's visible at head height,
- summer cooling (evapotranspiration),
- education / explanation (interpretation panels).

Green Roof Shelters do not use lightweight sedum roofs. Sedums as plants have their place, but are of low ecological value compared to the species on a deeper, heavier, biodiverse roof.

Green Roof Shelters are a ready-made solution to the provision of living roofs on site.

Green Roof Shelters are a very visible way of contributing additional wildlife habitat to built environments. They can also contribute to mitigation for lost habitats, species or features.

Open mosaic habitat - often on previously developed land - is frequently a priority habitat and therefore a material planning consideration. Green Roof Shelters can act as a 'stepping stones' of wildlife connectivity across urban developments and be tailored to local habitat needs.

Performance specification

Each shelter for 6 bicycles provides 5.7m² (or 8 bicycles 7.5m²) of growing roof habitat that is largely free from disturbance by people, dogs, and herbicide spraying. Roof substrate depth is 150mm+, with areas of mounding to vary the suitability for different species. When saturated, substrate weighs 225kg/m².



IKEA's flagship Greenwich store (2019) used Green Roof Shelter Cycleparking (above) as part of their bid for BREEAM 'Outstanding' accreditation. As well as 56 cycle parking spaces, IKEA Greenwich's Green Roof cycle shelters provided 52.5m² of high quality, undisturbed habitat - suitable for pollinator forage and ground-nesting bee nesting. Additionally all shelters had bird nesting boxes, nesting materials and considerable nesting for aerial-nesting solitary bee species.

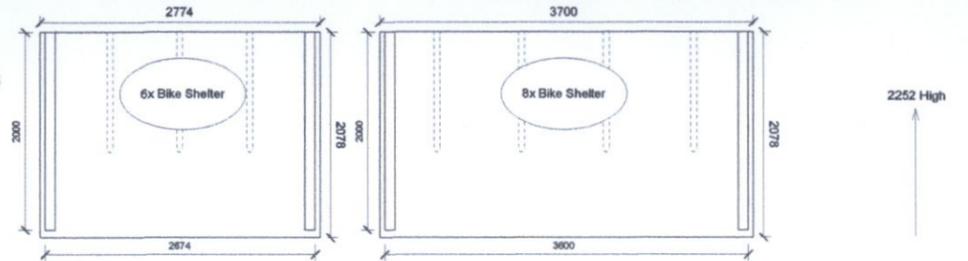
growing substrate, green roof pollinator-friendly planting, external wildlife panels for invertebrates, and bird nesting boxes are provided in these type of cycle shelters. The green roof planting is visible to people at head-height and will present a green planter bed when viewed from above.

This cycle shelter has dimensions of 3.70x2.25x2.00x2.078m LxHxWxD, and provides cycle parking for 8 no. cycles on 4 no. stands.

Sufficient space for comfortable circulation of users and manoeuvrability of cycles has been provided to the front of the shelter, with min. 2.00m clear width to the front of it.

This type of cycle shelter is easily convertible to provide storage for mobility scooters, seating or as use as a visitor's rain shelter as indicated in the manufacturer's specification sheets above, should the cycle parking not be required in future by the development.

CYCLE SHELTERS



7. Dimensions of '8x Cycle Shelter' by Green Roof Shelters Ltd.



7 & 8. Example Bin Dock shelter showing typical green roof planting, larch posts and steel wires for climbing plants



DETAIL PLAN OF FRONT GARDEN ILLUSTRATING LOCATIONS OF GREEN-ROOFED CYCLE SHELTER & BIN SHELTER SCALE 1:100

Additional Information
Planning Ref: SD22A/0372
February 2023



LANDSCAPE ARCHITECTS & CONSULTANTS		
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PROJECT	PROPOSED MIXED-USE DEVELOPMENT, ST. CLAIRE'S, LUCAN ROAD	
CLIENT	JOHN SHENTON & MARGARET HANLON	PROJECT ARCHITECTS GAP ARCHITECTURE & DESIGN
JOB NO.	23_229	PLANNING PERMISSION REF SD22A/0372 SDCC
DRAWING	GREEN-ROOFED CYCLE SHELTER & GREEN-ROOFED BIN SHELTER	
DRAWING NO.	22_229-PDF1-05	FIRST ISSUED: 2023-02-10
DRAWN BY	J COUGHLAN	CHECKED: COLM KENNY
STATUS:	PLANNING	SCALE: NTS, 1:100 @ A3
		REVISION A
NOTES: All dimensions are in millimeters unless otherwise stated and shall be checked and confirmed by the contractor on site. Any discrepancies shall be immediately reported to the landscape architects. Work to figured dimensions only - Do not scale from drawing. Not for Construction Processes unless Specifically Marked.		
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GREEN ROOFED CYCLE SHELTER WITH WILDLIFE PANELS

The design team has revised the previously-submitted proposals to provide a green-roof covered cycle shelter '8x Bike Shelter' by Green Roof Cycle Shelters UK, as a positive GI and landscape measure. This will provide secure covered cycle parking for short-stay visitors, which can accommodate a maximum of 8 no. cycles parked in each.

The cycle shelter is located in the main gathering area of the development, near to the main building entrance. The secure access route at ground level has good passive security, and no excessive slopes in the detail design. The area has good passive surveillance from adjacent dwellings, the gathering space itself and the car parking area.

The chosen cycle shelter with green roofs and wildlife panels has been selected to provide green infrastructure and improve biodiversity proposals in the submitted design. 150mm depth green roof