



Biodiversity retention enhancement

Biodiversity, Eco-Landscape
Landscape Waste management

BSI PAS 2010

- British Standards Institution
- Public Available Standard
- Biodiversity
- Fiona Mahon Land use planning manager
- The Wildlife Trusts
- www.wildlifetrusts.org

BAP Biodiversity Action Plans

Living Roofs

- Green and Brown Roofs
- Intensive and extensive Green Roofs
- Sedum Roofs
- Indigenous species
- Drought tolerant species

Green Roofs

- Meadow, lawn, shrubs or Sedum
- Waterproof membrane, root barrier, water reservoir board, filtre membranes, thermal insulation, soil/seed mats
- Can act as part of a SUDS
- Attract wild life to urban areas



Green Roofs
Iron Age Hill Fort School Visitors Centre

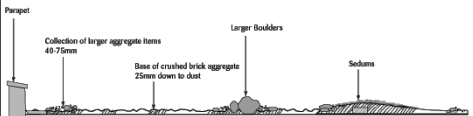
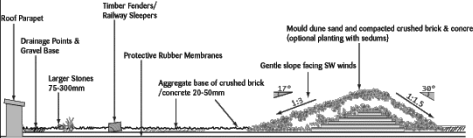
Brown Roofs

- Gravel Concrete Brick 75 – 0 mm.
- Excavated from site
- left for bird droppings to self seed and allow nature to invade
- for wild life driven out of the country by intensive agriculture
- Providing roosts on city roofs



Brown Roofs
Creekside Visitors Centre, Dartford London

Brown Roofs



Brownfield Landscape

- Derelict Brownfield sites often have more wildlife than Greenfield sites
- To maintain or enhance the biodiversity of the site much can be done with a little care
- Survey the site and check for wildlife: Insects, birds, animals, and lower forms, wild flowers, grasses, etc.

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Brownfield Landscape

Creekside Visitors Centre



Wild Flowers & Meadow Grass

Neglected landscape nature takes over Listed Grade I barn



**Meadow
Grass &
Wild
Flowers**

Seeds Turf Soil

- Collect seeds, dry and store
- Set-up compost area on site, segregate
- Rake grass, collect leaf-litter
- Cut grass, collect cuttings
- Cut turf, roll and set-aside
- Strip site topsoil and stockpile
- Lay turf on stock piled topsoil or set wild flower seeds or plant wild flowers, to suppress weeds

Subsoil

- Excavate subsoil
- For roads and paths, services, drains and foundations
- Stockpile subsoil

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**Topsoil & Subsoil
Stockpile on site**



Site Strip

- Offer excess wild turf in internet exchange sites
- All green waste scraps to compost
- Excavate gravel
- Set aside for later reuse

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Reuse of stockpiled materials

- Reuse Subsoil over site
- Spread subsoil thinly before topsoil
- Add composted materials to topsoil and reuse
- Reuse turf on site
- Reuse gravel on roof as brown roof

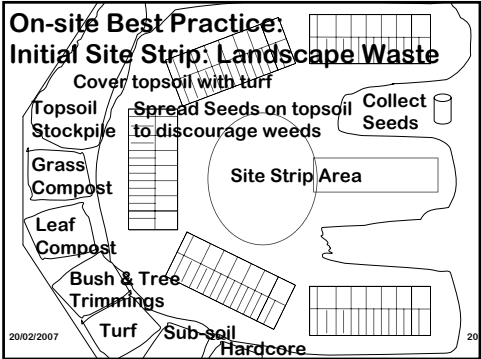
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Subsoil

- Spread subsoil thinly over site before relaying topsoil
- Use in landscape contours & objects
- Arena banking around sports fields
- Sleeping policemen to 'beach' cars
- Acoustic barriers
- Mound traffic islands
- Rammed earth walling

Topsoil

- Relay topsoil as required
- Reusing stockpiled topsoil
- Again collect seeds and plants, rake leaves, cut grass and compost, cut turf from top of stockpiles
- Use matured compost to enrich topsoil
- Relay turf, sow seeds and plants

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Existing Hard areas

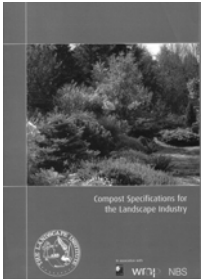
- If being removed consider their use in hardcore for new hard areas
- Exchange locations of hard and soft materials

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Compost Specifications for the Landscape Industry

- NBS, WRAP, BALI, LI
- Landscape Institute
- BSI PAS 100 Oct 2002 Composted Materials
- BS 3882:1994 Specification for Topsoil
- Composting Association Certified

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