



Waste: Site Autonomy

Landscape Waste Minimisation




Site Autonomy

No export from site No materials imported to site

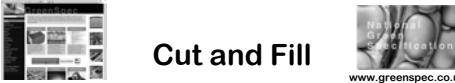


Reuse everything found on site



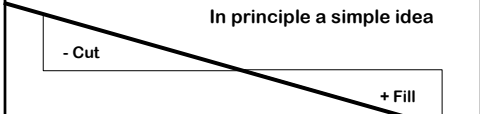

Waste arising: Excavation

- 23.7 m tonnes (33%) soil
 - including stones and rock
 - If clean classed as 'inert'
 - Mainly from excavation
- 15.0 m tonnes (21%) mixed C,D&E waste and soil
 - likely to include increasing amounts of non-inert or hazardous waste (Brownfield sites)



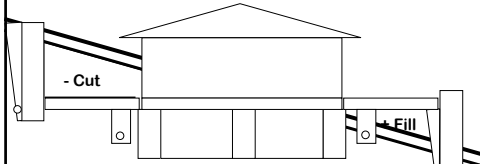
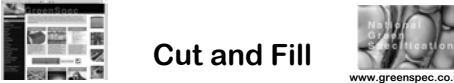
Cut and Fill

In principle a simple idea

Cut and Fill

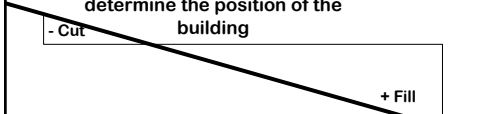

Allow for site strip, design fill size to accommodate excavated materials from: Cut, retaining walls, land drains, foundations, floor slabs, services and drain trenches and paved areas, allow for bulking

Cut and Fill

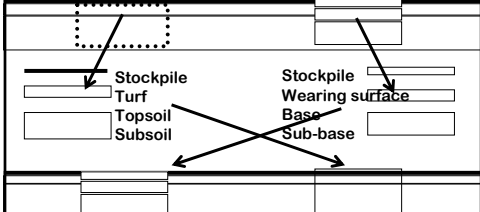
Check all your quantities first and determine the level

Or decide the level and determine the position of the building

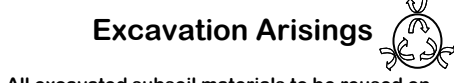



Rearranging pathways

Proposed path in landscape Existing path in landscape

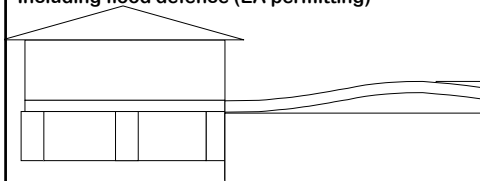



Recycle surface, base & sub-base as sub-base & base add new wearing surface

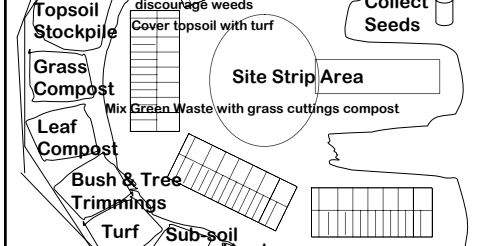


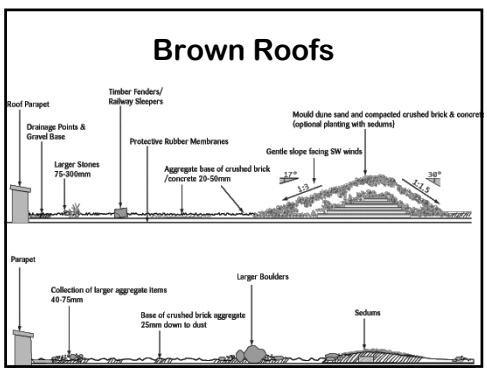
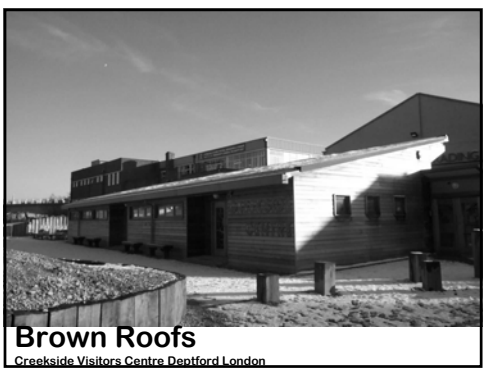
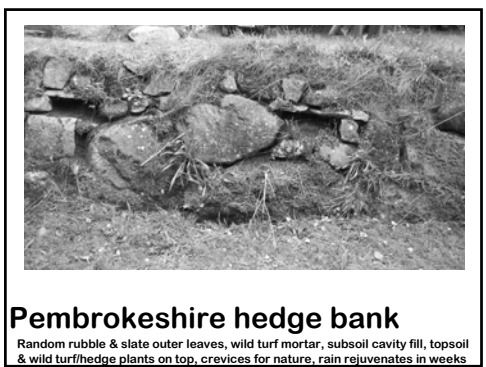
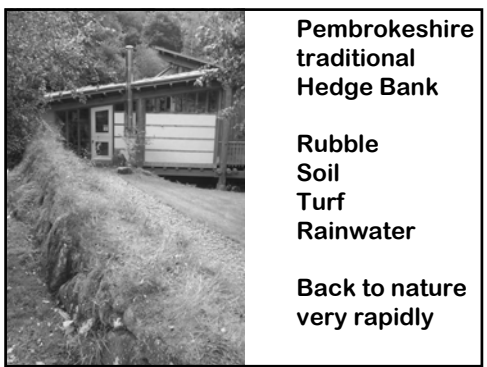
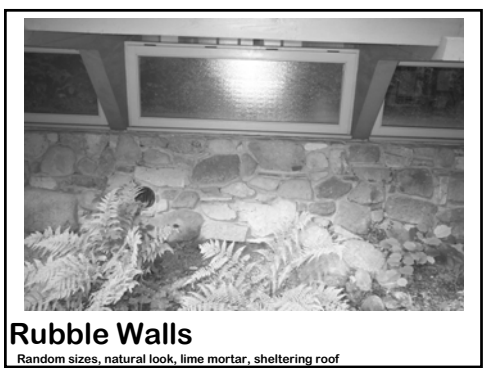
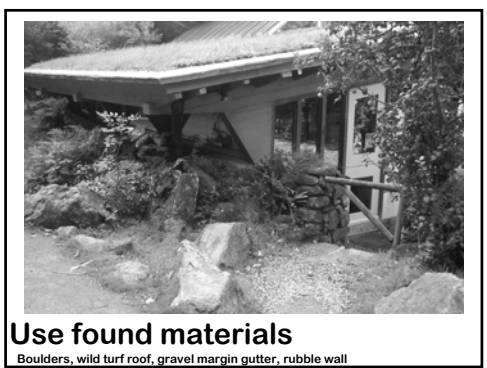
Excavation Arisings

All excavated subsoil materials to be reused on site rather than landfilled
Use in intelligent landscape modelling
Including flood defence (EA permitting)

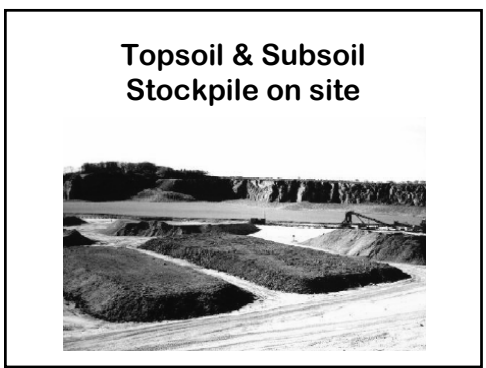
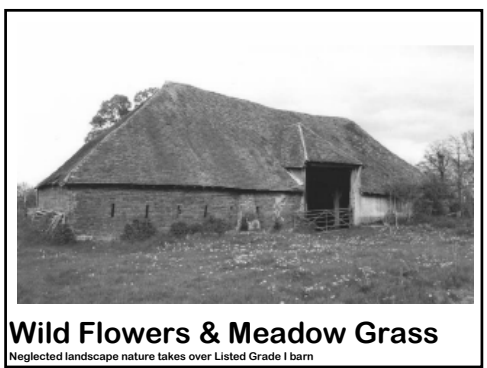
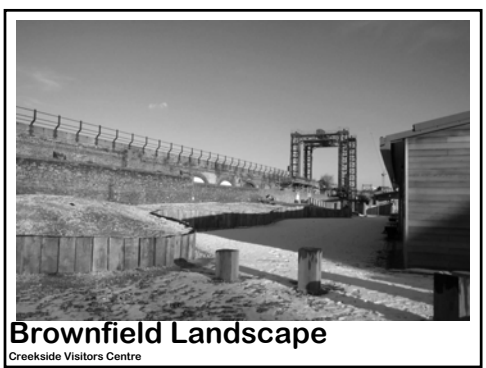
On-site Best Practice: Initial Site Strip: Landscape Waste





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.



Recycling Organic Waste
Initial Site Strip
Onsite Composting
Community Composting

Waste arising: Demolition
www.greenspec.co.uk

- 33.8 m tonnes (46%) C,D&E waste
 - mainly hard demolition waste:
 - concrete and bricks,
 - likely to include non-inert material:
 - untreated timber plaster & plasterboard
 - High %: grounds for condemning as hardcore

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Reclaimed repaired reused

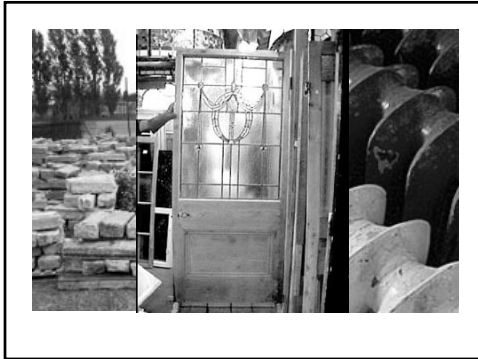
Recycled steel frames
Redundant bolt holes
Blast clean and prime/paint

BedZED Beddington Sutton Architect: Bill Dunster
Reclaim: BioRegional ReCLAIMED © NGS

BedZED Beddington Sutton Architect: Bill Dunster
Reclaim: BioRegional ReCLAIMED © NGS

Reused wood better than new

BedZED Beddington Sutton Architect: Dr Bill Dunster
Reclaim: BioRegional ReCLAIMED © NGS

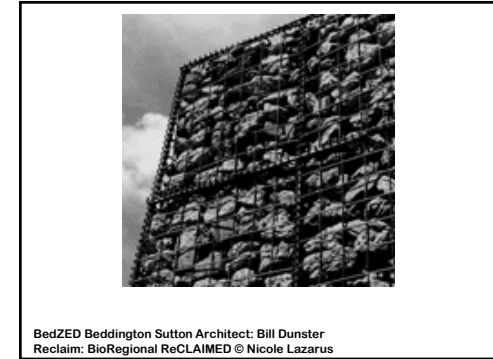


**Reclaimed, repaired
& reused Doors**

**Reusing Doors
Visible Patch
repairs
If you don't like
them French polish
or paint them**



BedZED Beddington Sutton Architect: Bill Dunster
Reclaim: BioRegional ReCLAIMED © NGS



BedZED Beddington Sutton Architect: Bill Dunster
Reclaim: BioRegional ReCLAIMED © Nicole Lazarus