



Green Architecture Day

Grow your own building – making best use of local timber in construction

David Saunders
Weald WoodNet

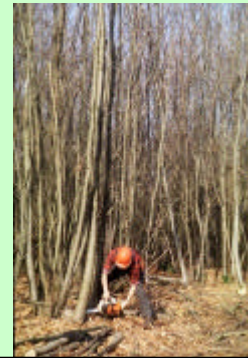


OUTLINE

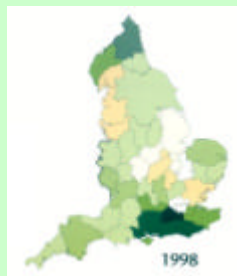
- Why wood?
- Local timber vs. certified timber
- Examples of use
- Case studies in SE England
- Manufacturing the components
- Renewable heating from wood
- Sourcing and specifying

WHY WOOD?

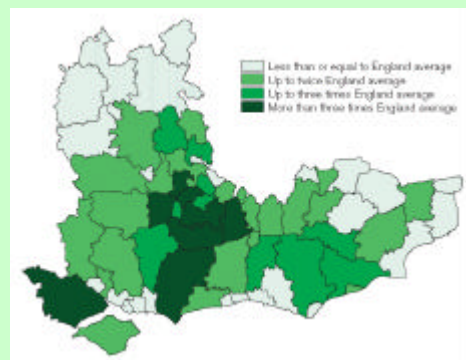
- Natural material
- Renewable resource
- Sustainable production
- Low embodied energy
- Recyclable
- Supports local rural economy



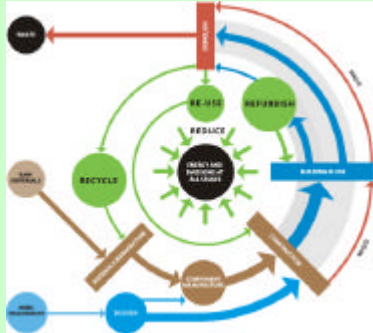
Woodland Cover



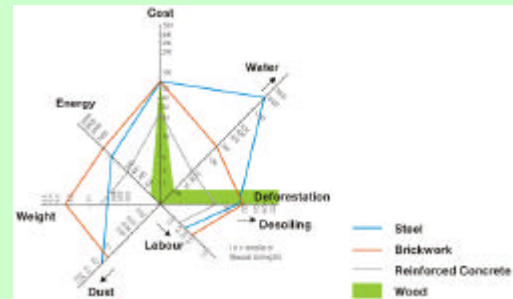
Density of woodland cover in the districts of the region



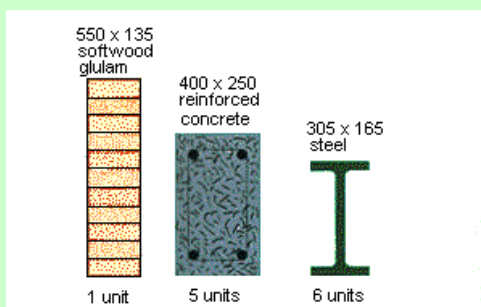
Construction life cycle



Ecological profile of building materials



MATERIAL ENERGY REQUIREMENTS for beams of equivalent structural performance

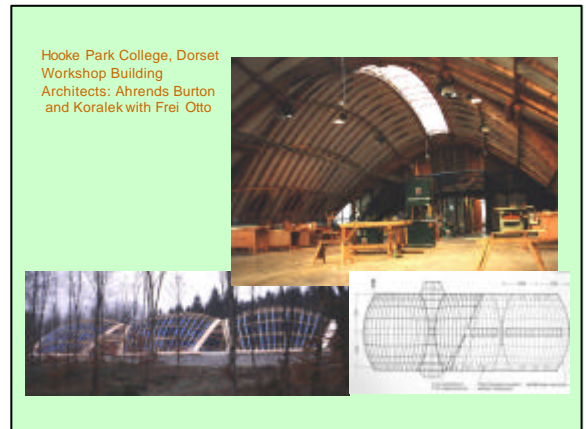
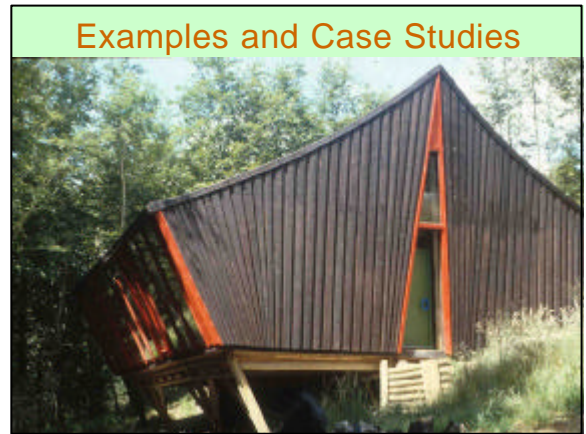


Carbon in Construction Materials

Material	Carbon embodied (kg/m³)	Carbon embodied (kg/m²)	Carbon embodied (kg/m)
Rough-sawn timber	100	10	200
Steel	100	500	0
Concrete	10	100	0
Reinforced concrete	100	1000	0



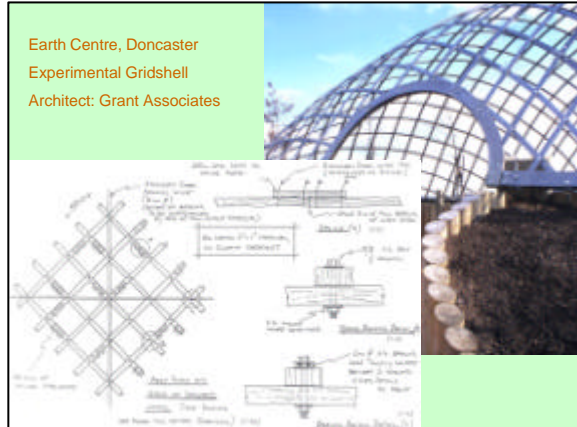




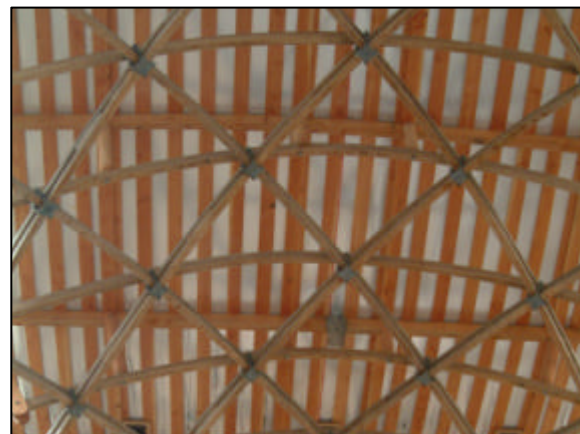
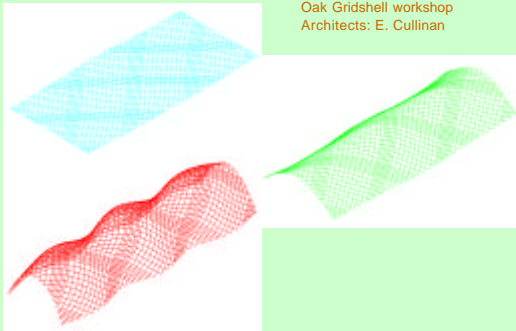
Hooke Park College, Dorset
Westminster Lodge
Architects:
Edward Cullinan Architects



Earth Centre, Doncaster
Experimental Gridshell
Architect: Grant Associates



Weald & Downland Open
Air Museum
Oak Gridshell workshop
Architects: E. Cullinan



Weald & Downland Gridshell



Prickly Nut Wood – Ben Law's House







Pyrahut –prototype garden office

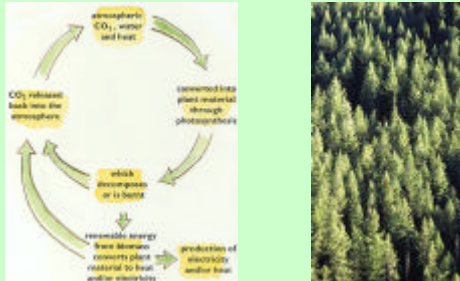


Chestnut coppice - a rapidly growing local renewable resource





Carbon Cycle



50kw automated wood-fuel boiler at WEC, Flimwell

Lignatherm
Limited

WoodLots

- magazine & website
- published every 2 months
- currently free to receive
- 1500+ subscribers throughout South East
- free classified advertising
- opportunity to advertise small parcels of timber





Sawn Timber
Feb/March 2006

SAWN PLANKS Elm, Cherry, Larch etc.
1" x 6", 2" x 6" lengths. Weather proof glaze.
Contact: Ian Cavilliers
M: 07949 806023
E: iancavilliers@btconnect.co.uk

GREEN DUNES OAK FOR FRAMING Sourced
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Dried for green oak, Rye.
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E: rob@robfor.co.uk

AIR DRIED OAK, ASH, BEECH systems &
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Promoting sustainable
development of local woodland
resources

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