

Straw – Sustainable & Annually Renewable



Nearly half of all the energy produced in the world is used to make and move construction materials

The making of 1 tonne of cement releases 1 tonne of CO₂ (greenhouse gas) into the atmosphere

Using straw to build walls creates a net carbon GAIN.

You can grow your own house!

Advantages of Straw



- Superinsulation
- Very high thermal and sound proofing performance
- Insulation/building block & surface for plaster – in one

Advantages of Straw

The raw materials.....



•Bales of straw

- It's Simple & cheap
- It's energy efficient
- It locks up carbon dioxide



• Coppiced hazel

Advantages of Straw

The raw materials.....



- Sustainable
- Natural Clay
- Traditional Lime



Advantages of Straw

The raw materials.....

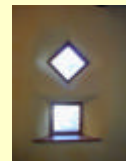


- It's FUN
- Inclusive
- Enthusiastic help
- Empowering

Advantages of Straw



- It's beautiful!
- Creative
- Safe
- Non-toxic



Durability & Permanence 100 Years



Burke Homestead,
Nebraska 1903



Fawn Lake Ranch,
Nebraska 1908

Oldest known house in Europe



Fueullette House,
Montargis, France 1921

Advantages of Straw



- Low Fire Risk



- Good Performance in Seismic conditions

Advantages of Straw Flexibility of design



Wales 2001 - Tono

Quebec 1993 - Pelletier



Techniques: Loadbearing



Techniques: Infill



Techniques: Compressive Frame



- A new idea from Amazon Nails
- One of Italy's first Strawbale houses
- Very Effective

Renovate existing buildings Wrap with bales

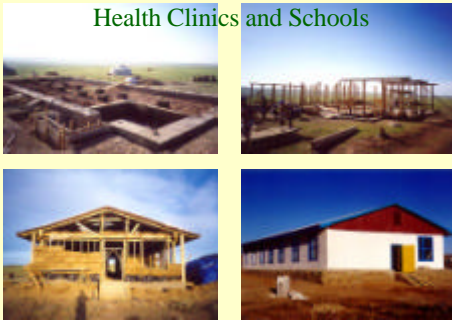


Improve thermal efficiency ...

And looks!!

Mongolia

Health Clinics and Schools



Romney Warren: Visitor Centre

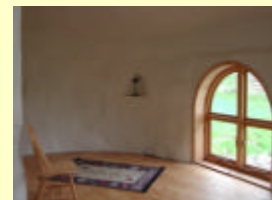
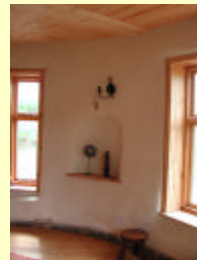


- Built for Kent County Council
- Full Planning and Building Regulation Approval
- Design Award winner

The Spiral House, Ireland 2001/2/3



The Spiral House, Ireland 2000/1/2



Clow Beck Centre 2002/3



- Full Planning & B. Regs
- Car Tyre Foundations
- Loadbearing
- Lime plaster

Clow Beck Centre Croft, N.Yorks 2002



- Built under cover
- Volunteer labour



Walls finished in 2 weeks

Penchwillwr, St.Dogmaels 2003



- Reclaimed stone from site
- Blown clay Leca (optiroc) insulation
- Local grown larch baseplate
- Local grown hazel pins
- Almost local grown straw

Penchwillwr, St.Dogmaels 2003



- Two storey Loadbearing straw
- Full Planning Permission
- Full Building Regulation Approval

Penchwillwr, St. Dogmaels Wales 2004/5



Ecology Building Society 2005



- Circular meeting room extension to new building
- Working with local contractors and volunteers

Ecology Building Society 2005



- Building Regs approval for low-impact shallow foundations
- No cement
- No plastic damp proof course
- No deep trenches

Ecology Building Society 2005



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