Rendering- Useless

Construction & Demolition Waste Programme

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Tackling climate change through retrofit

Energy Efficiency Standards for Existing Dwellings



Source: "energy efficiency in new and existing buildings: comparative costs and CO₂ savings", BRE Trust



Energy efficiency measures in buildings

- Wall insulation
- Roof insulation
- Floor insulation
- Cylinder/pipe insulation
- Heating
- Air tightness improvements
- Windows
- Appliances
- Low energy lighting

Source: CE309 Sustainable Refurbishment, EST

ADEILADU

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Wall insulation: cavity wall insulation

Injected polyurethane foam



Figure 10: Insulation injected into the cavity



Figure 12: Insulation being injected into the wall

Source: CE309 Sustainable Refurbishment, EST



Polyurethane foam

- Post blowing agent pentane hazardous waste if above 2.5% w/w
- Typically blowing agent content of foam insulation 4 15% w/ w



End of Life Buildings



- 20 million tonnes demolition arisings/annum
 - < 500,000 tonnes to landfill
 - 200,000 tonnes hazardous waste/annum

Source: Think Pink (skips)



Demolition black hole

"Typically in older buildings, virtually everything can be recycled, reused or salvaged in some way. More modern buildings and refurbished buildings that, increasingly, contain materials that cannot be reclaimed or which are cross-contaminated to the point where they are rendered nonrecyclable, hold no commercial value"

Source: Howard Button, Chief Executive, National Federation of Demolition Contractors

End of Life Buildings Directive





"Around 100,000 tonnes of ozone depleting substances might be in some one million tonnes of building foam in existing buildings in the UK"

Hansard -Official Report 25 June: Vol.478, c, 304W



"By 2015 emissions from ozone depleting substance banks will erase all the reductions in global warming potential achieved under the Kyoto Protocol"

