

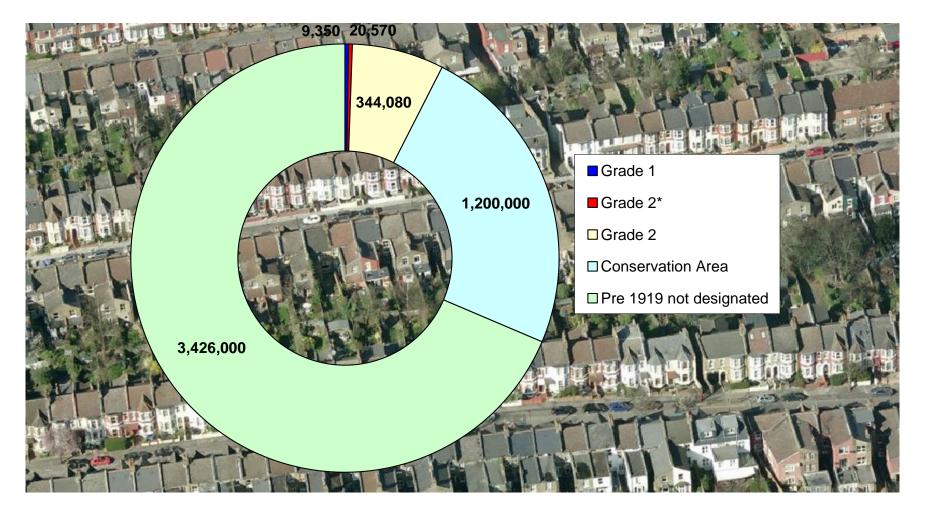
prewett bizley architects

Retrofit – how far to go?

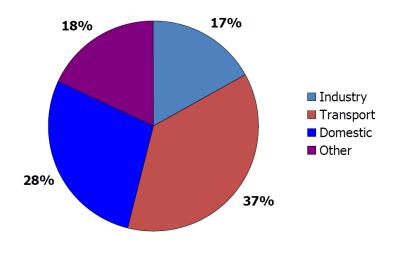


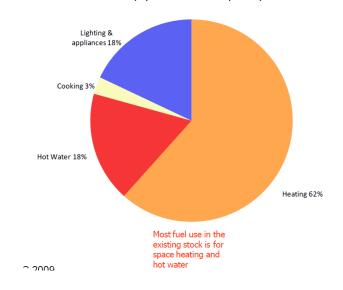
CO2 reduction by 2050

UK housing stock relatively old



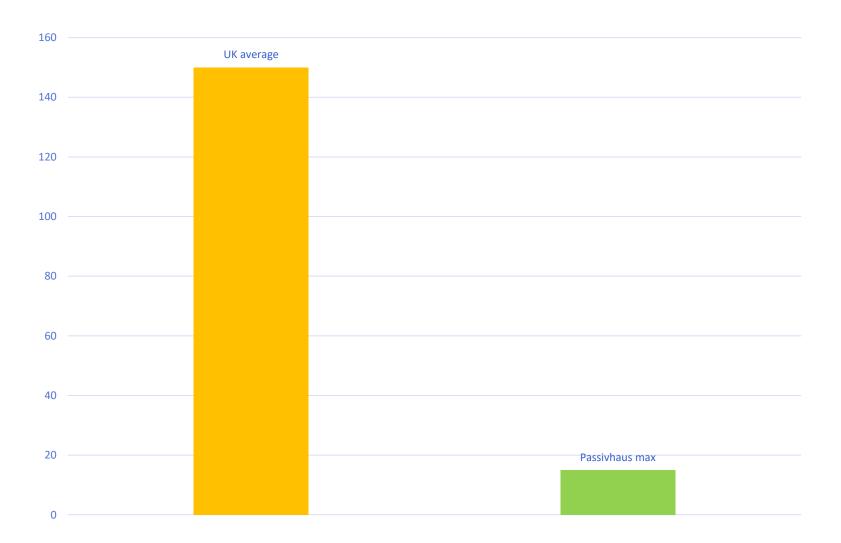






Retrofit – why?

Heating demand kWhr/m2year



Range of heating demand.



170

1820's Bloomsbury



1830's Hackney



240

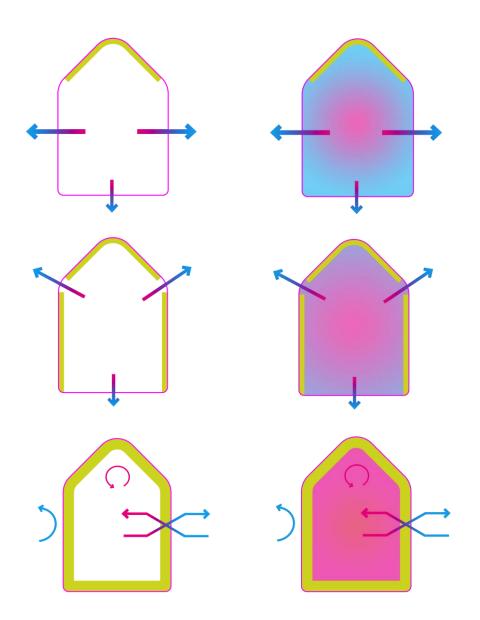
1860's Kentish Town



160

220

1960's Sydenham



<u>Lite:</u> Capital cost: Running costs: Comfort: 15,000 kWh

£££££ low

£

Medium:

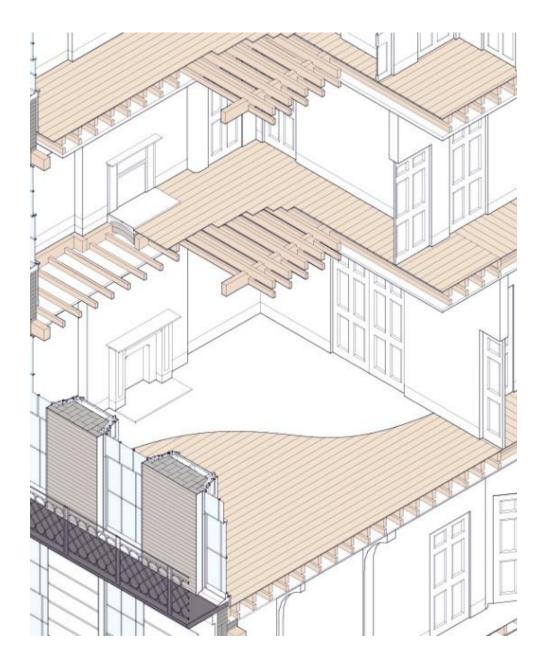
Capital cost: Running costs: Comfort: 7,000 kWh ? Potential for defects!!! ££ £££££ medium

Deep:

Capital cost: Running costs: Comfort: 2,000kWh No Defects. Excellent IAQ



Understand



Get back to the bones



Identify defects



Remediate

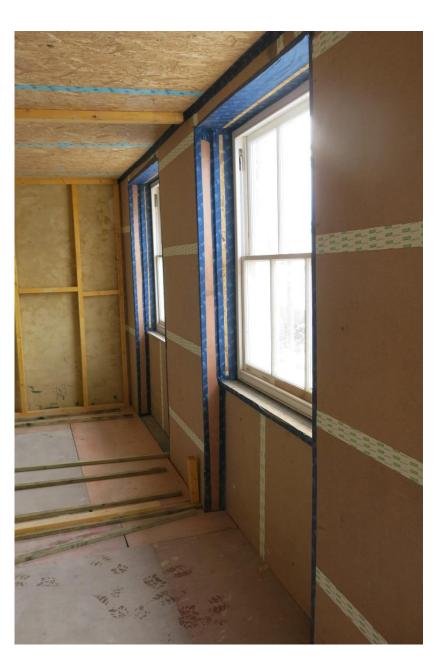




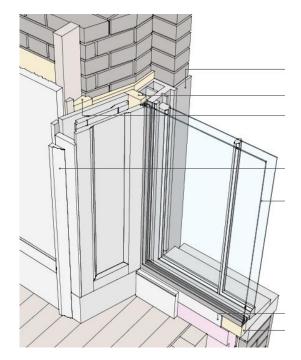


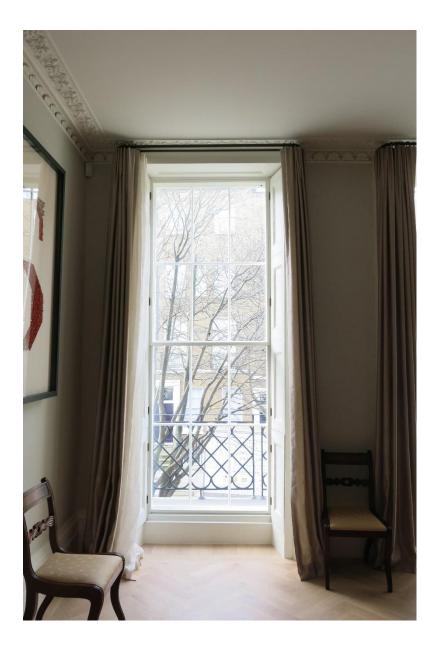


Insulate

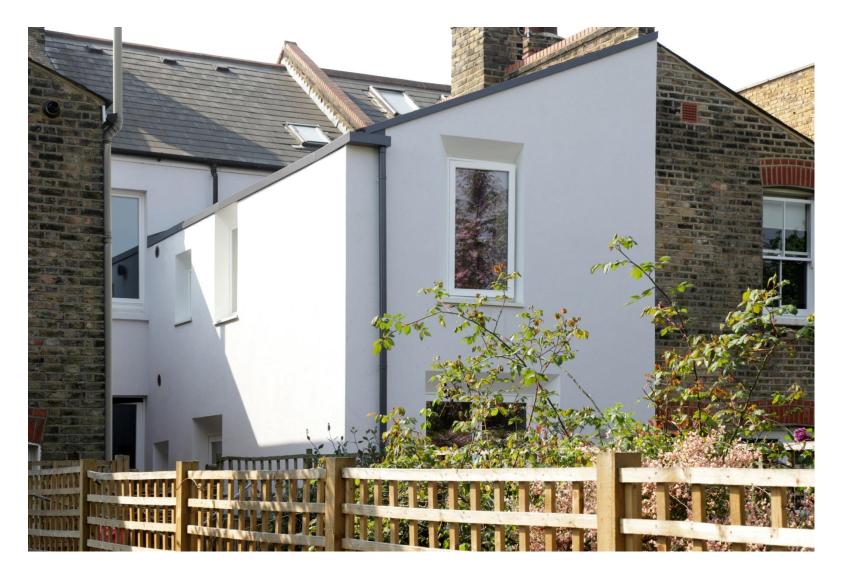


Sensitivity





Intervention



Range of heating demand.





1830's Hackney – Conservation area



1860's Kentish Town – Conservation area



1960's Sydenham