

**Making Building that Work;
Practical details for low energy building
with a traditional feel.**

AECB Conference 2007

Mike Whitfield Construction Ltd

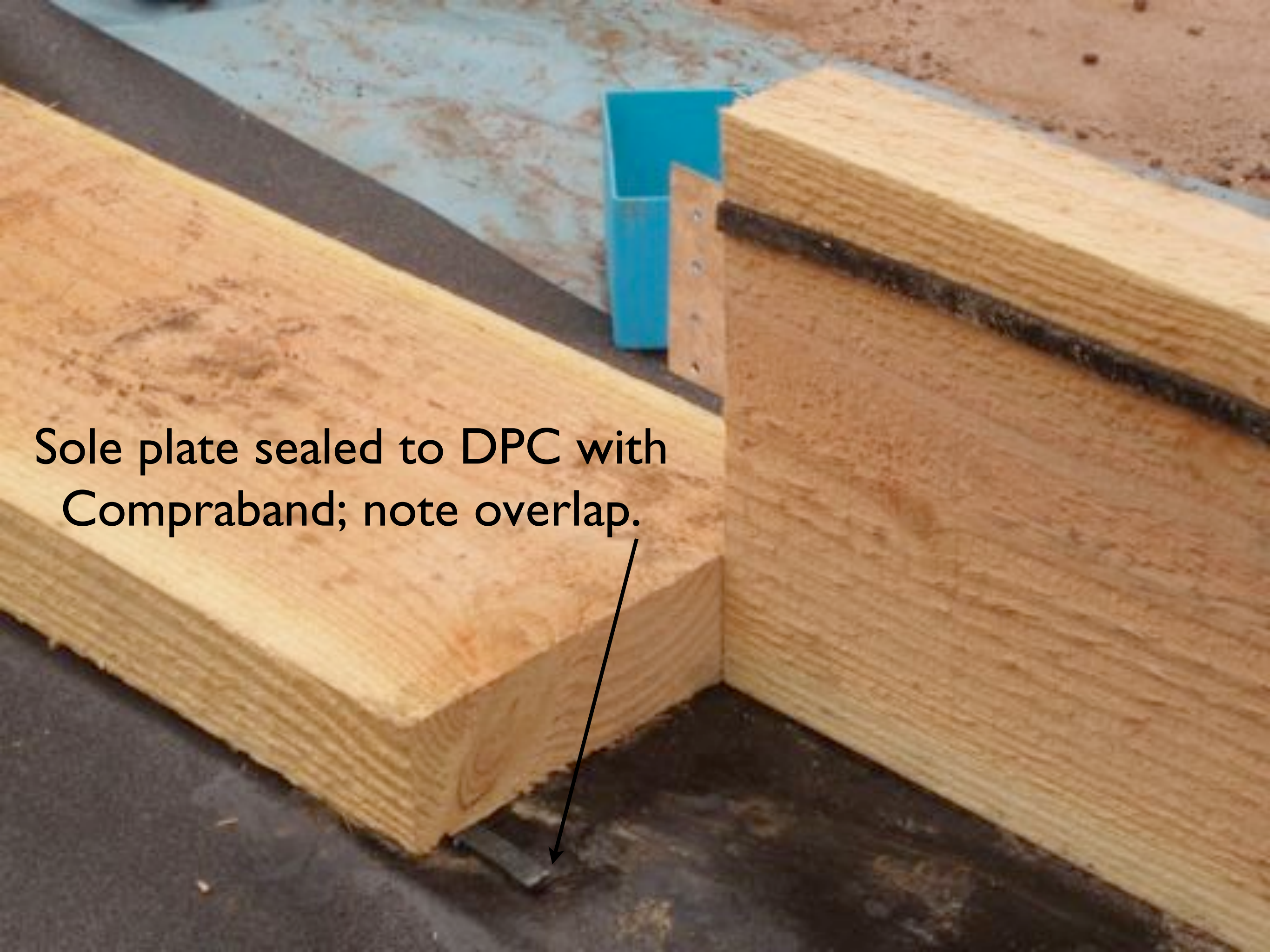


Some of the team with Mike on the left.

The house at Putley Herefordshire





A close-up photograph of a wooden sole plate joint. The sole plate is made of light-colored wood and is secured to a dark grey DPC (Dimpled Plastic Compound) with a metal fastener. A blue L-shaped DPC is visible at the top of the joint. The sole plate overlaps the DPC. A black arrow points from the text to the metal fastener.

Sole plate sealed to DPC with
Compraband; note overlap.



**The rustic cruck frame is kept inside
the thermal envelope;**

Paula wondered if her latest batch of bean sprouts had been genetically modified...



*Whitfield Constructions Ltd
Making light work of timber framing.*





**And surrounded by an airtight
Masonite shell insulated with blown
cellulose fibre;**





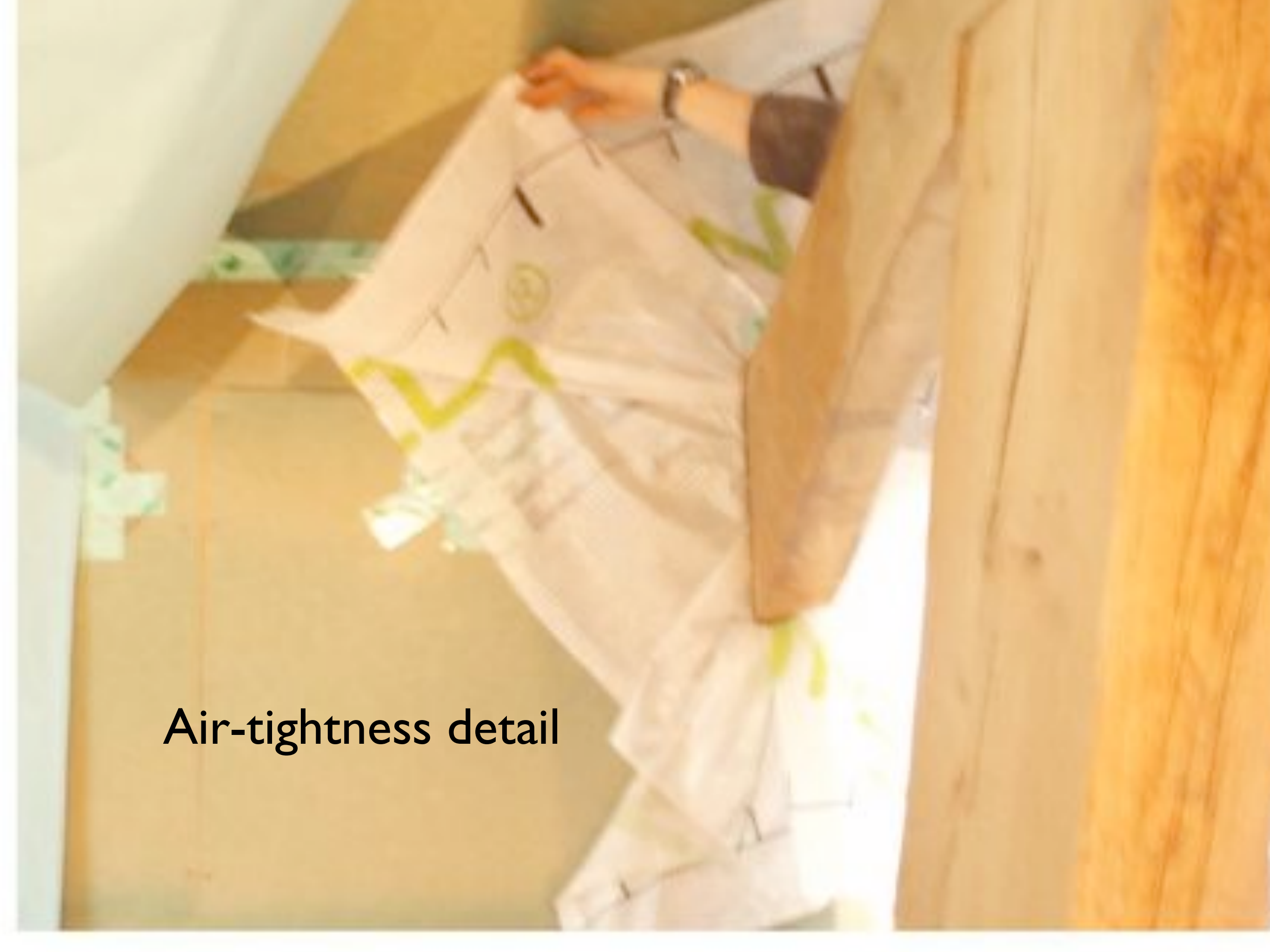
Air barrier membrane for continuity





Air-tightness detail

Air-tightness detail





Felt goes over ridge not lengthways.
Joins under battens to avoid taping

Origami in the valley







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The finished detail, wind and water proof



**Details to avoid the structure
penetrating the thermal envelope;**





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False rafter sub-assembly ready to fix





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Another method with less build-up

A similar idea with
boxed soffit detail






Another example with rafters stopping at perimeter beam- strong and airtight. Woodfibre insulation over to reduce cold bridging.

Internal air barrier details;



membrane joined on rafter
centres and trapped by battens

A close-up photograph of a window frame. The frame is made of light-colored wood. A blue, textured material, likely an air barrier, is applied to the wall and the window frame. The blue material is being joined to the wood frame with a special tape. The text is overlaid on the bottom left of the image.

We now use special tape to join the air barrier to the window frame



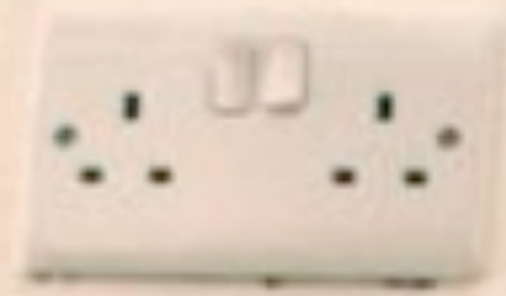


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**Battens stop short of floor to
create box skirting for wiring**









