



# Julie Villard Christchurch City Council

# BRINGING YOUR WINDOWS IN FROM THE COLD: RECESSING THE FRAME

4.15pm



### IN FROM THE COLD



R 0.26 R 4 27-01-2011



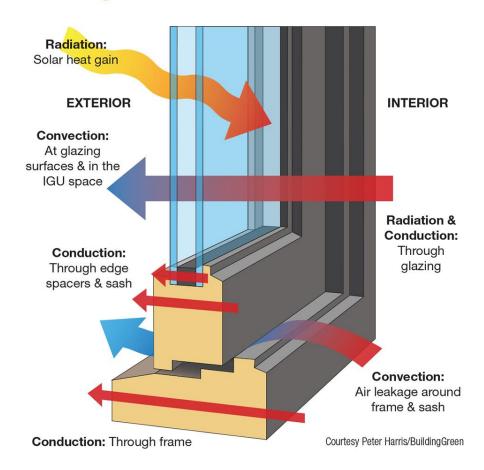
### Let's talk about the window

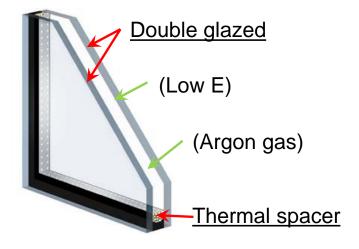




## **Heat Transfer Through a Window**

#### THE GLAZING

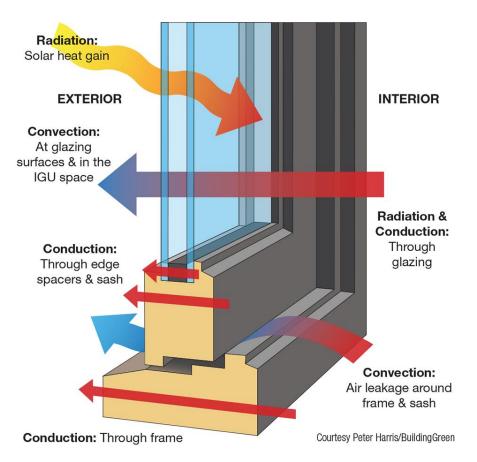






#### THE FRAMING

## **Heat Transfer Through a Window**







**PVC** 

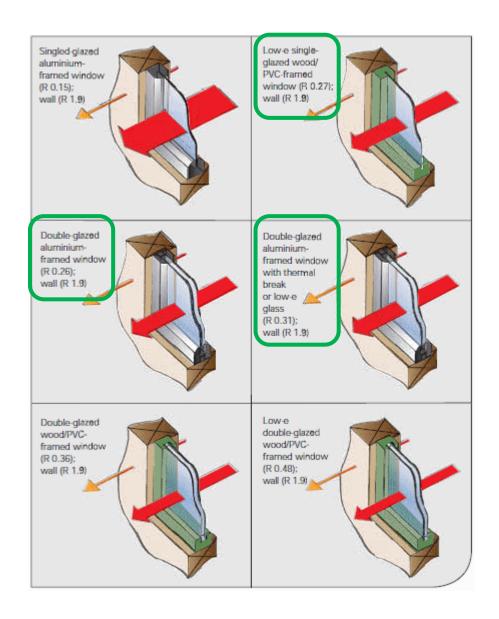


Wooden



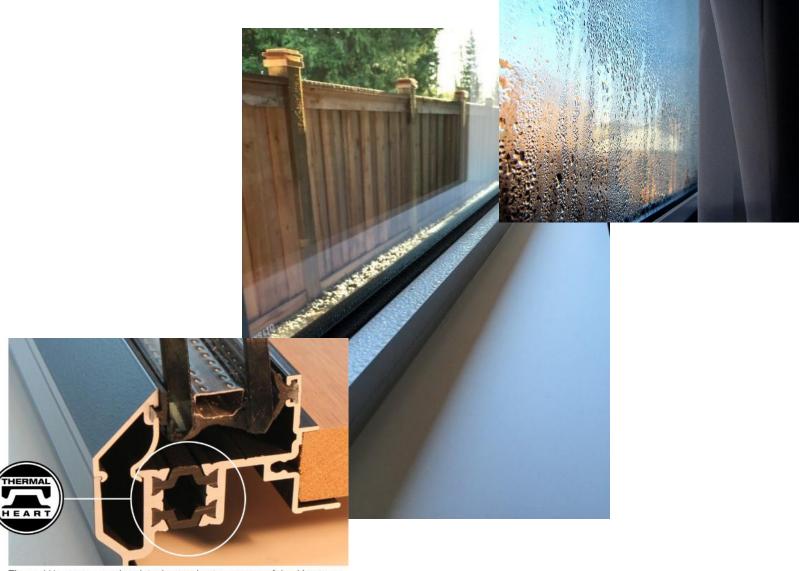






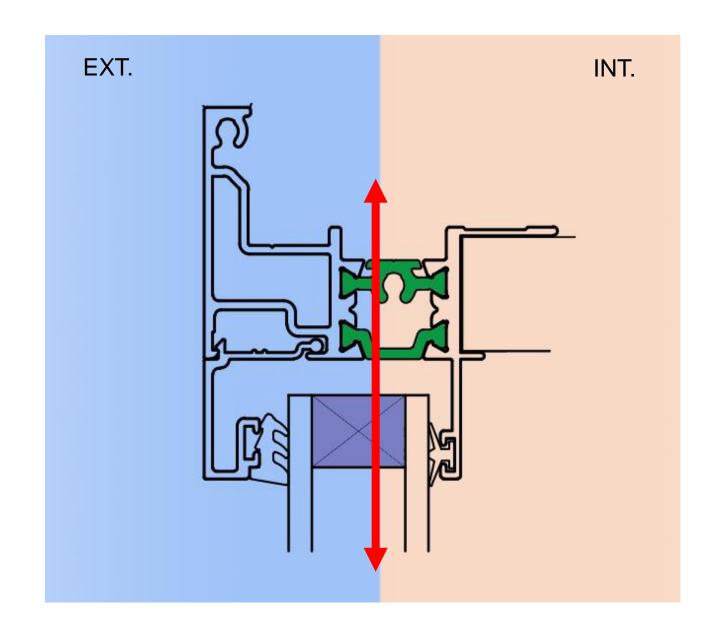




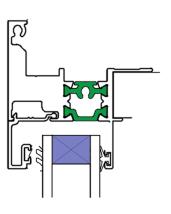


Thermal Heart creates a break in the conductive process of the Aluminum.

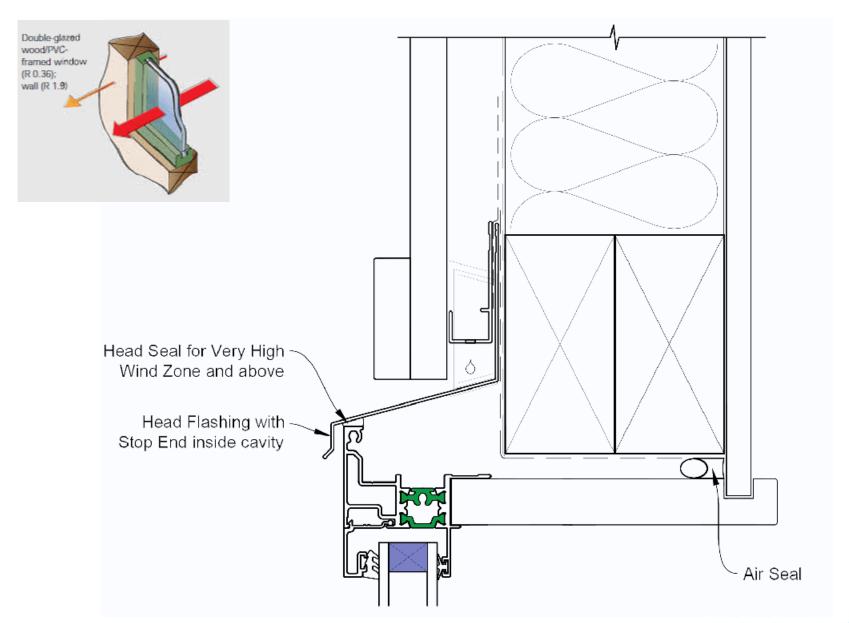




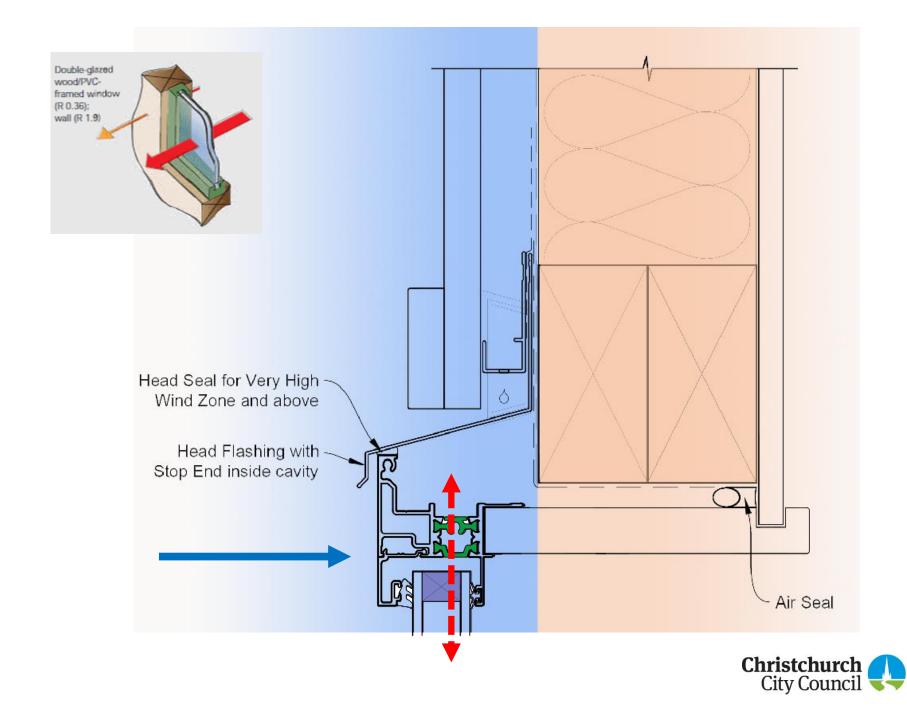


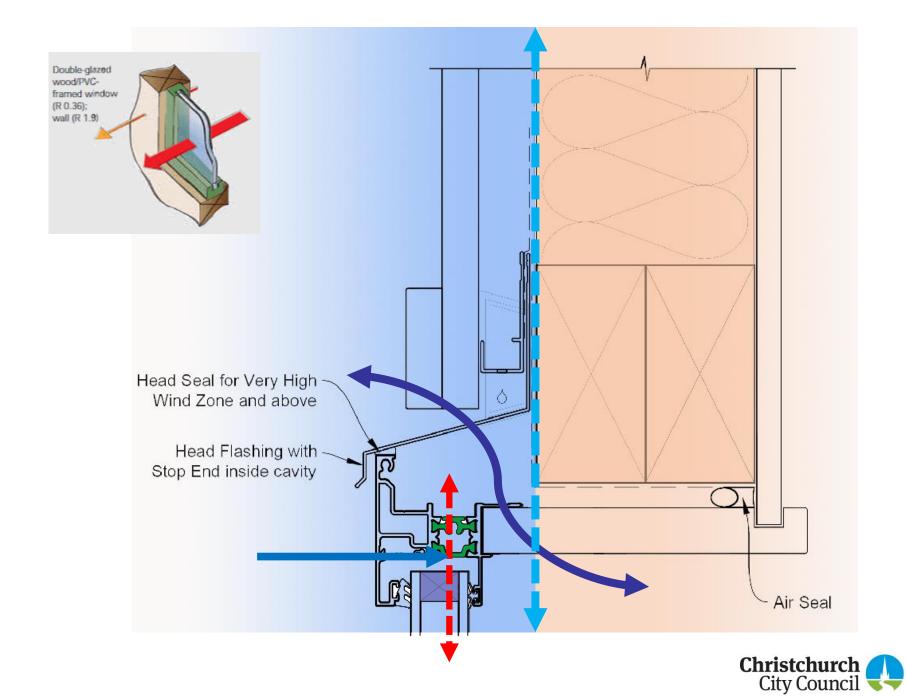








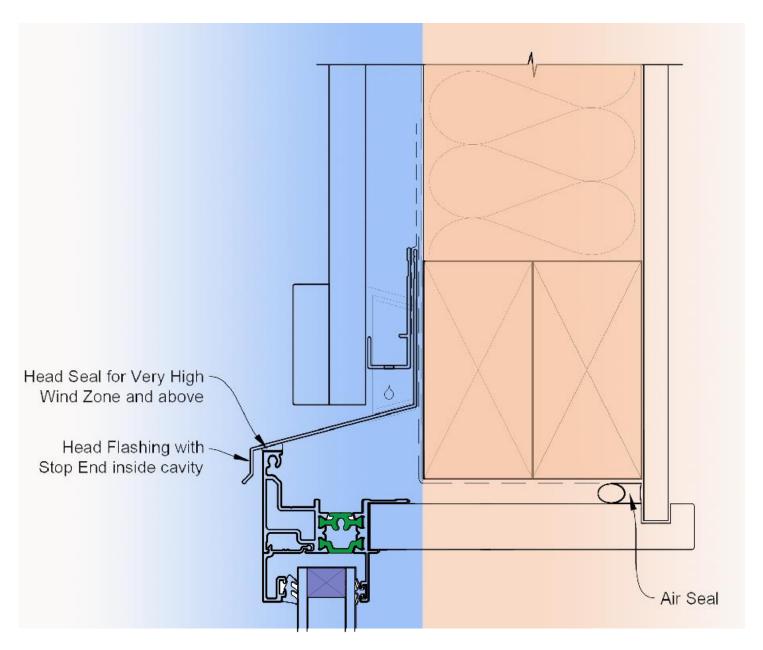




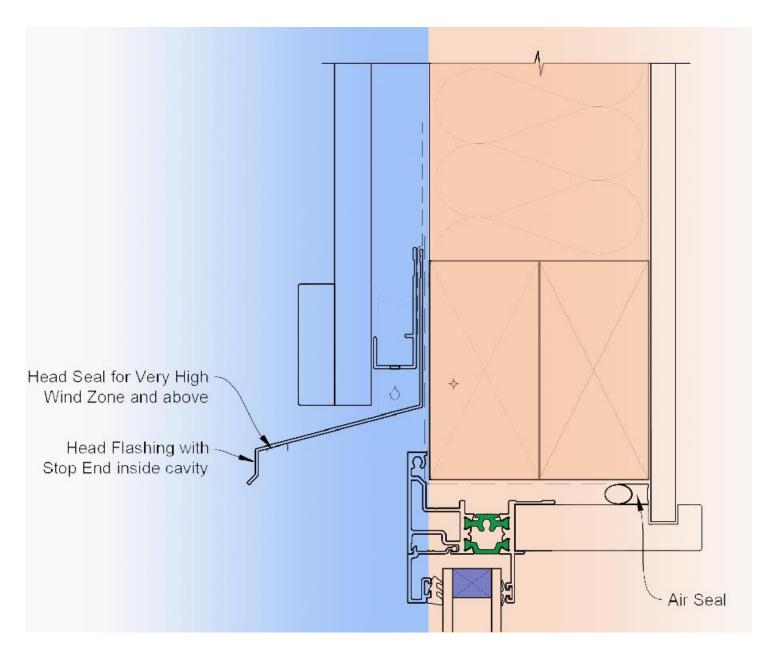
### So, how do we fix this?



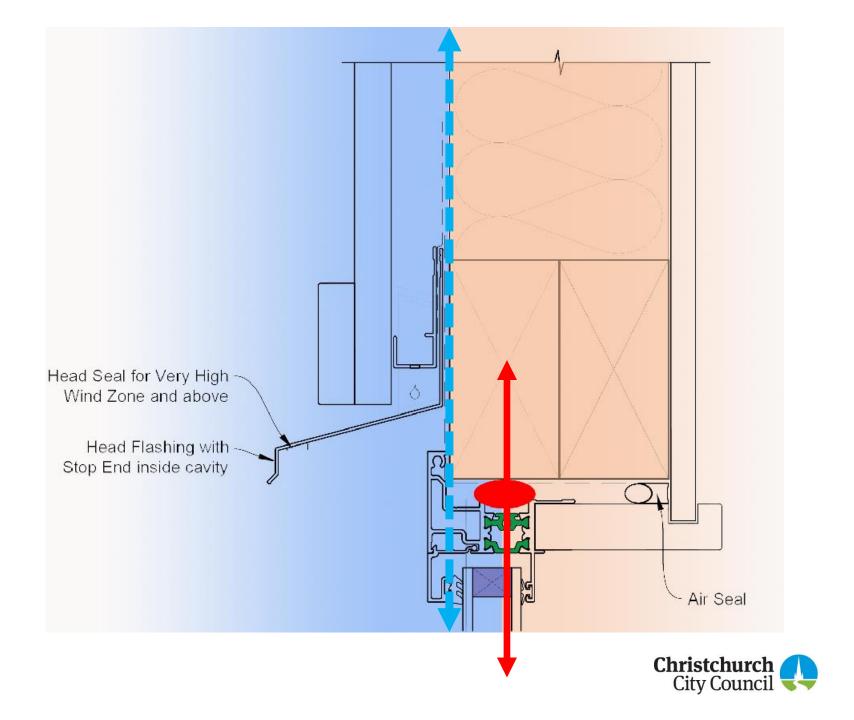








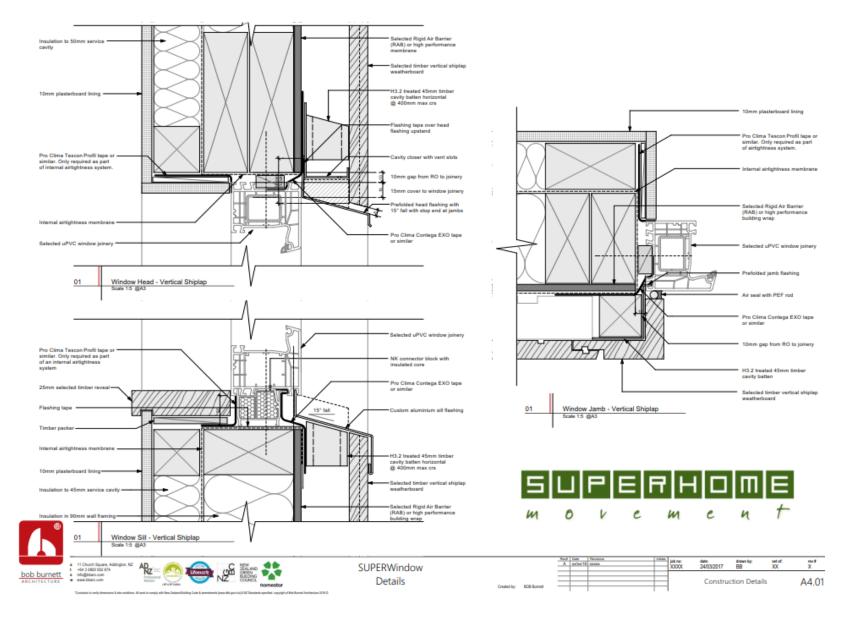




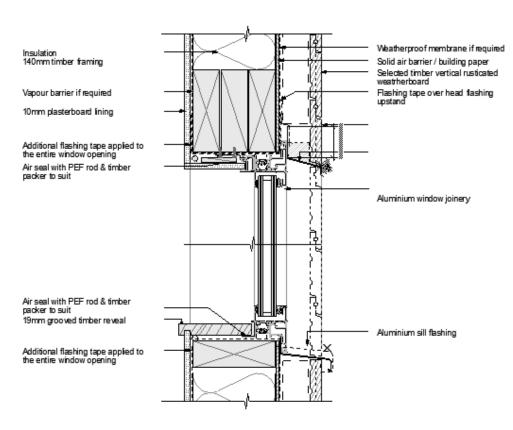


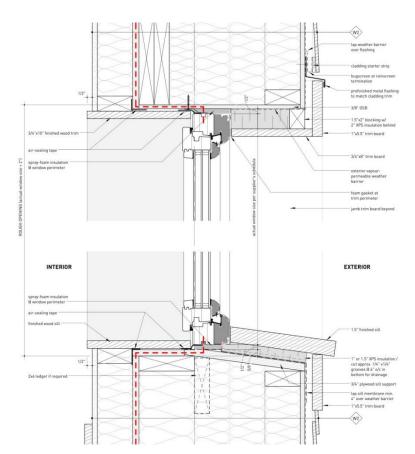


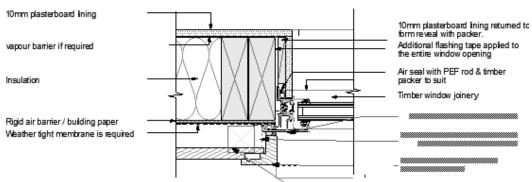














#### The aim of all of this?

- Less thermal bridges,
- Less heat loss,
- Less draught
- Less condensation



For cheaper, better & healthier homes



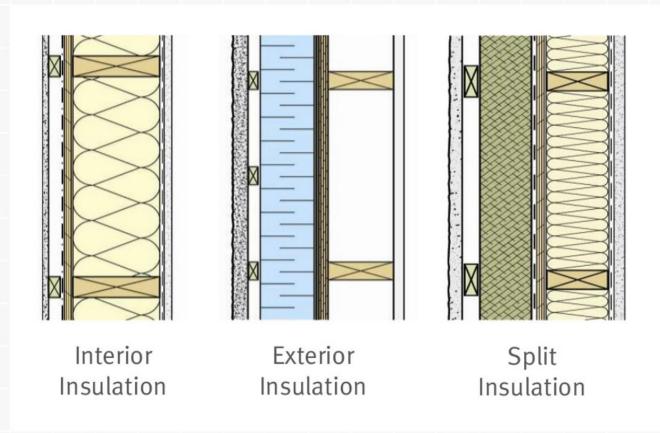
### Few more things....





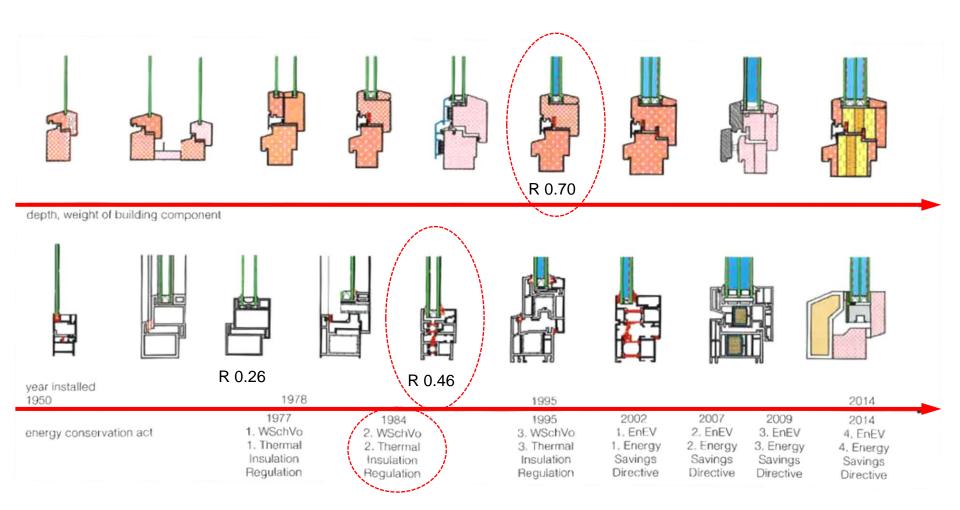


#### **Insulation Placement & Wall Design Considerations**



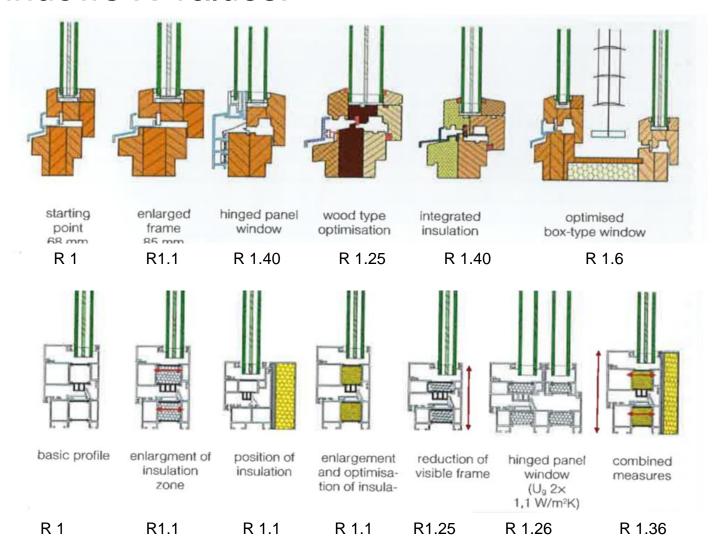


#### Windows profiles:





#### Windows R-values:





# Cold homes are not a curse.... They are by design

## So let's change it!



# Thank you... Any questions?

