Thermal Bridging

What is a Thermal bridge or 'cold bridge'

This is where heat is lost from the inside to the outside

It can be responsible for up to 30% of a dwellings heat loss

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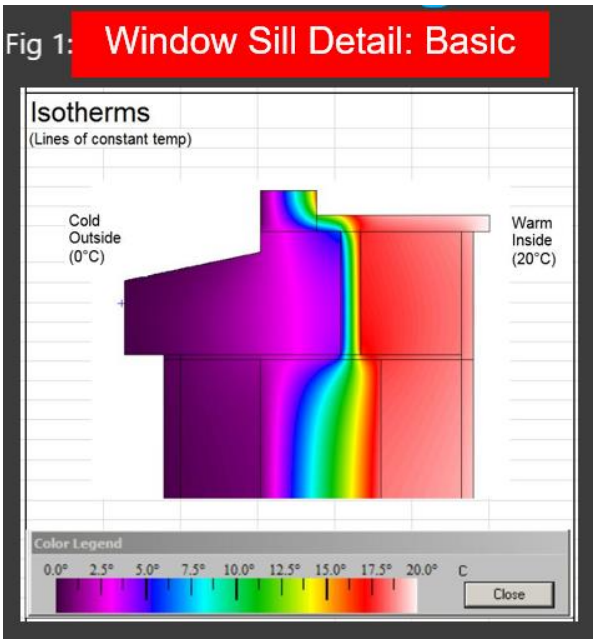
THERMAL BRIDGING CAN BE RESPONSIBLE FOR UP TO 30% OF A DWELLINGS HEAT LOSS

A thermal bridge (or 'cold bridge') is a part where heat is lost from the inside to the outside. This is generally through solid; dense materials such as a window sill which conduct the heat through the material.

Thermal bridging is important as it reduces heat loss, which in the long term gives savings on your energy bills. Improving thermal bridging will reduce cold spots that occur when there is a thermal bridge, eliminating the chance of condensation or mould growth.

A thermal bridge needs to be reduced by careful FmK design as seen in the thermal images below:

Fig 1 & 2 **is the standard designed windowsill which shows a significant thermal bridge, with heat flowing out under the window frame**



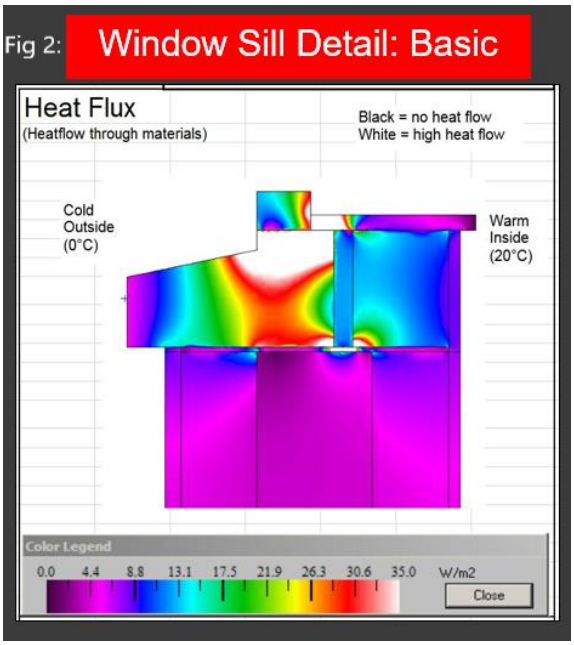
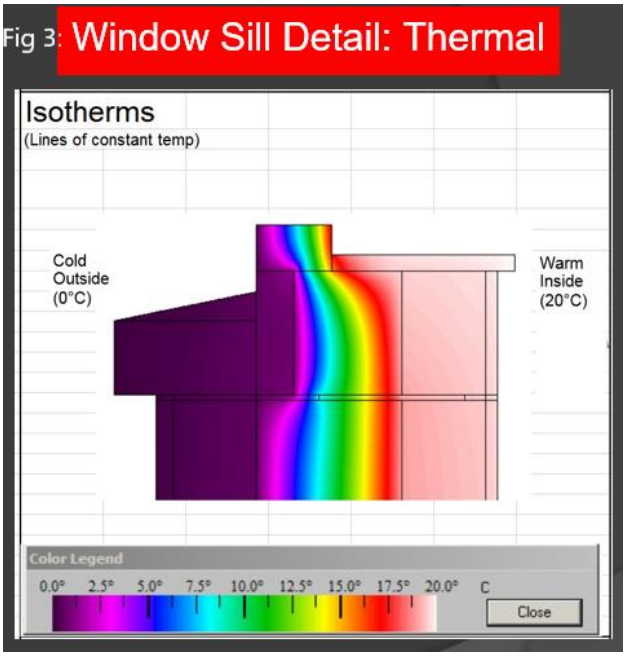
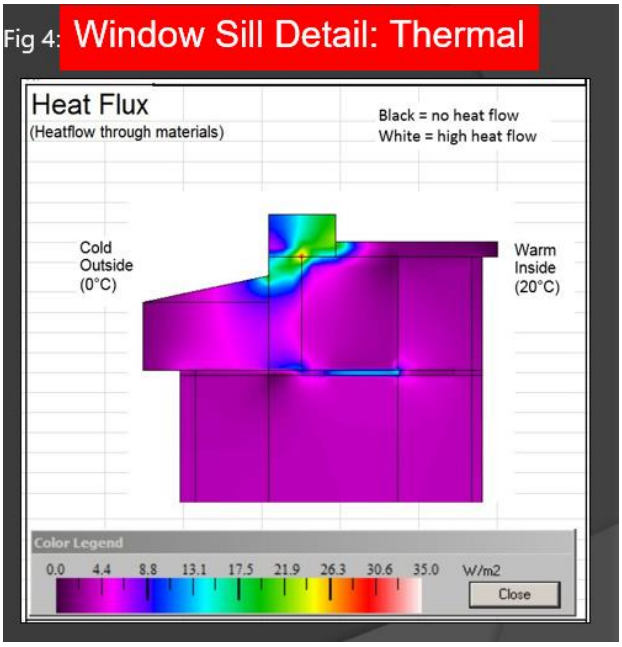


Fig 3 & 4 **is the FmK designed thermal sill detail with the thermal bridge vastly reduced! At FmK Architecture all our main building junctions are thermally detailed to be thermal bridge free to ensure your home is not leaking excess heat. After all heat now adays is not cheap!**

Fig 3 & 4 **is the FmK designed thermal sill detail with the thermal bridge vastly reduced! At FmK Architecture all our main building junctions are thermally detailed to be thermal bridge free to ensure your home is not leaking excess heat. After all heat**





All materials used to achieve a thermal bridge free junction are supplied by [ECOHomes Store](#) who supply all of Northern Ireland with all your low energy building products, airtightness & thermal bridging to ensure you can reduce your heating costs in your new build or home extension.