Turning your conservatory into a comfortable living environment...

www.thermotecroofingsystems.com
Traditionally conservatories were built onto large homes and only used in spring and autumn when the temperature was comfortable.

In these more modern times with smaller homes the conservatory has become more of a functional room used for the extra space rather than just a part time conservatory. This extra room is often used as a dining room, playroom or a sitting room.

The problem is if you want to use the room all year round the glazing in the roof (polycarbonate or double glazing) is not insulated like other rooms and is therefore too cold in winter or too hot in summer.

You can of course install heating or air conditioning but with no insulation your energy costs will literally \textit{GO THROUGH THE ROOF!}

INSULATION EXPLAINED

U Values

A “u value” is a measurement of heat loss. Expressed as W/m²k

\begin{align*}
W &= \text{heat loss in watts.} \\
\text{m}² &= \text{square metre of material (e.g. glass, polycarbonate or wall)} \\
k &= \text{outside temperature which is one degree lower.}
\end{align*}

The lower the u value the better the insulation. For example a straw bale wall would have an excellent u value of 0.13Wm²k (zero point one three) and an old type solid 225mm (9”) wall would have a u value of 2.0 Wm²k (a full two). That’s 1.87 higher that the straw wall.

The u value of 16mm polycarbonate is 2.4Wm²k.

The u value of old double glazing would be about 2.0Wm²k (the same as the old solid wall).

At this time building regulations for glazing require a u value of 1.6Wm²k.

THERMOTEC PANELS at 75mm depth have a u value of 0.29Wm²k.

That’s 2.11 lower than 16mm polycarbonate.

Mr & Mrs Wills, Horncastle

“May we say thank you for the excellent service your company gave on fitting the new thermotec roof to our conservatory. It was fitted in January and the difference was immediately felt.”
MANUFACTURE
Thermotec insulated roof panels are light and can be installed into most existing conservatory structures.
The existing glazing panels are measured and angles taken for any shaped panels.
Every Thermotec panel is made bespoke for each of the existing roof shapes.
The Thermotec panels are manufactured from 2mm sheet aluminium.
Each corner is cut and pressed to form the edge step (this edge step is made to fit into the existing rafter).
When all the corners have been cut and pressed they are then welded to form a “tray”.
The tray and another flat sheet of aluminium (which will form the inside of the panel) are then polyester powder coated to the chosen colours.
The tray and inside sheet is then sandwiched either side of the high density insulating foam to form a lightweight rigid panel.

Thermotec panels can be made to any depth and do not compromise any lead flashings or watertight integrity of the existing roof.

In order for the stepped panels to fit under ridge capping the most common depth of Thermotec panels is 75mm and at this depth is equivalent to over 300mm of glass fibre loft insulation.
Installing Thermotec panels will save energy and reduce bills.
Polycarbonate roofs tend to be noisy when it rains. Thermotec is much quieter than glass.
Thermotec roof panels not only turn your conservatory into a well insulated room that can be used all year round but add a stunning contemporary look to a traditional conservatory.
Thermotec panels are guaranteed for 10 years.

Contact your local installer for a quotation

“ My wife and I are delighted with our new roof and have noticed the difference straight away. The room is quieter and we no longer have a greenhouse effect in the morning when the full force of the sun catches it. We are looking forward to using the conservatory far more during the winter months - no more waiting while we heat the room up!
Again many thanks for the excellent service.”
Peter Taylor, Caistor

“We are extremely pleased with the new roof. It has made so much difference to the room. Noise has been reduced and the room is much warmer.”
Mr & Mrs Burks in North Lincolnshire.

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You installed a thermal roof on my conservatory in January this year and it has completely transformed the room.

The mould and condensation have gone and it only takes a few minutes to heat the conservatory on cold days. Now that summer is here we can use the conservatory on the hottest days and feel comfortable. My plants and seedlings love it. This is a magic product!

Ruth Whinnett - Boston