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SUNGARD SPECIFICATION

Reflect up 80% of the sun's heat before it enters your conservatory

Often the sun's heat and glare makes conservatories unusable in the summer, fades furniture and furnishings. Conservatories can also be too cold to use effectively in the winter months without heating.

Sungard fits into the flutes of the polycarbonate roof panels of our conservatories. Sungard helps to make conservatories cool in the summer and warmer in the winter, enabling you to enjoy the benefits of your conservatory all year round.

Sungard eliminates, by reflection, up to 80% of the sun's heat before it can enter the conservatory, resulting in dramatic reductions in summer temperatures and glare, and protection against fading [see Figure 1].

Exceptional Performance

Sungard offers the most effective and practical solution to reducing summer heat and glare, and improving winter insulation.

Its performance far surpasses that of the best internal blinds, which are relatively ineffective, because the sun's heat is already within the conservatory. Where temperatures for example, would normally have risen to 128°F (54°C), reductions of up to 45°F (27°C) have been achieved [see Figure 2 for comparisons].

Sungard is the only satisfactory solution for polycarbonate and plastic roofs, and offers the same performance as external blinds or awnings and the best solar control glass.

Lets Light In And Gives A Clear View Out

Sungard does not alter the light, natural and airy feel of the conservatory (but may darken adjacent rooms slightly).

Practical And Convenient

Simply fitted without disturbing the roof in any way, it requires no maintenance or cleaning.

Not A Blind

Avoids the clutter and inconvenience of blinds. There is no need to operate and none of the problems associated with blinds such as trapped dirt and dead flies.

Protect Against Fading

Sungard excludes 99% of ultra-violet rays – the main cause of fading of furnishings and fabrics – and helps protect the skin from the harmful effects of the sun.

Sungard is made from polymer films of the highest optical clarity, which contain finely divided precious metals and metal oxides. These transmit or reflect wavelengths of light and heat to selectively reduce heat and glare and allow light to enter, protect against fading and to give high performance winter insulation.

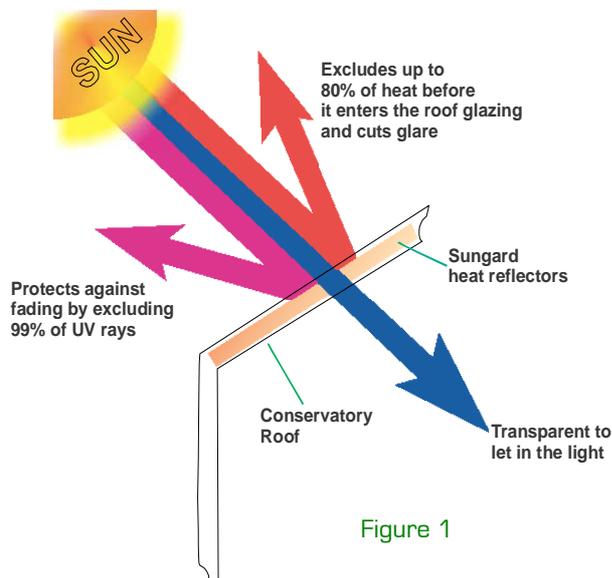
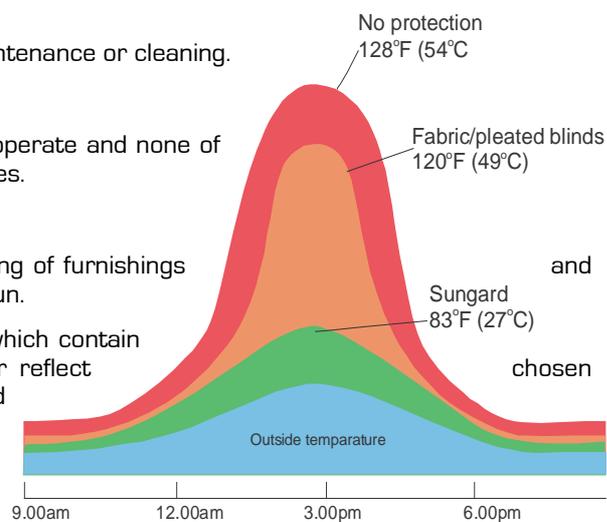


Figure 1



Southwest facing conservatory Figure 2

Temperatures In Conservatories

The cause of high temperatures in conservatories is the high summer sun shining through the roof. Up to 80% of the sun's heat enters in this way.

In the winter whilst the warmth of the sun is welcome it is lower in the sky and shines through the side windows.

Conservatories are comfortable as long as the temperatures are kept generally below 84°F (28°C) in summer and above 64°F (18°C) in winter. These temperatures are boundaries between comfort and discomfort. If temperatures are above or below this range, even by a small amount, the conservatory is unusable.

On clear, bright days in summer it is normally necessary to eliminate 65% of the sun's heat to provide comfort. Unfortunately, the best conservatory blinds exclude only 55 - 60%, which is inadequate.

This is simply because with a blind the heat is already within the conservatory.

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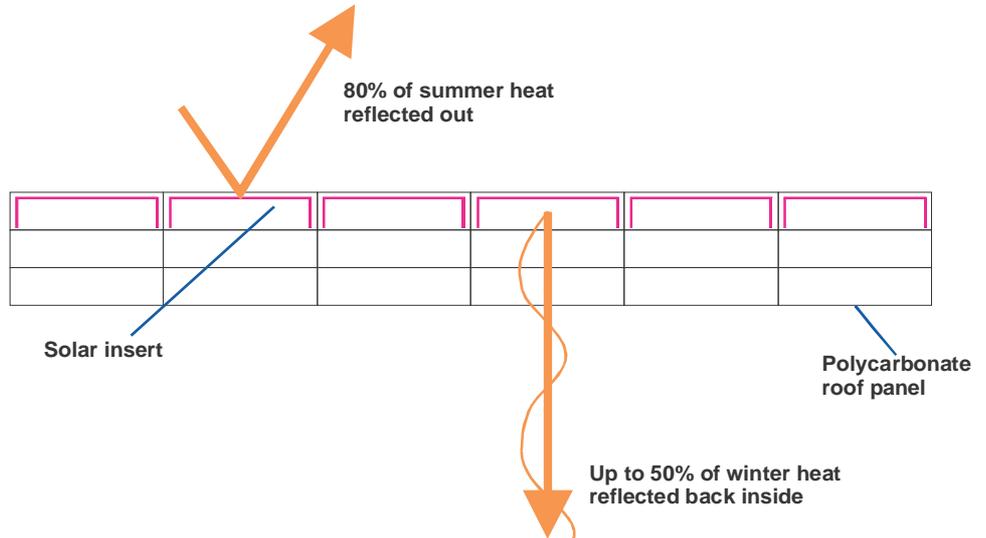


Figure 3

Sungard is able to exclude up to 80% of the heat see Figure 3, which far surpasses the performance of blinds, because they stop the sun's heat before it enters. Figure 4 shows how Sungard helps to control high summer and low winter temperatures.

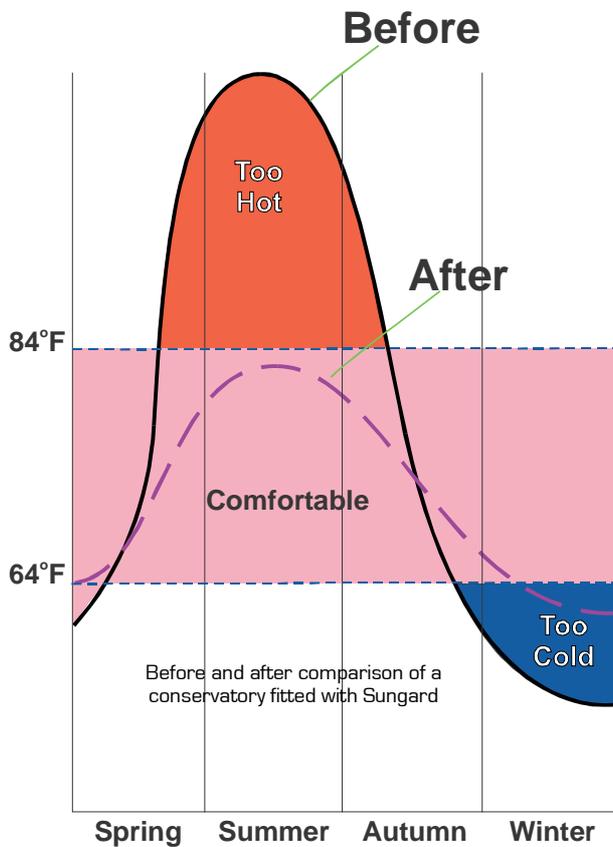


Figure 4

