

# Growing Your Comfort Zone With Ecolux™ 70

Meet the next generation in low-emissivity window film, Ecolux 70™. Its technology is sophisticated, but what it does is simple. Dual-action Ecolux 70 helps keep the heat out in the summer and reflects heat back into the room in the winter. Using NFRC standard conditions, we can calculate the temperature you feel 3 feet away from a window in both summer and winter. If you find yourself pulling your desk or couch away from the windows to avoid the extremes of both seasons, Ecolux 70 is your answer, and here's why.



**Solar Gard® Ecolux™**  
Feel Good Inside.

## Winter

The standard winter conditions are -0.4 F outside and 69.8 F inside. Even with your thermostat set to 69.8 F, 3 feet away from a single pane window you will feel like it's 62.3 F. Once Ecolux 70 is installed, you will feel like it's 68.9 F, nearly the same as the rest of the room. Unlike traditional solar control window films, Ecolux 70 keeps working when the sun goes down, 24 hours a day. With Ecolux 70, you can take back the areas near the window and grow your comfort zone.

## Summer

The standard summer conditions are 89.6 F outside and 75.2 F inside. For these calculations, we'll assume there is no direct sunlight on the window. With your thermostat set to 75.2 F, you still feel nearly 78 F three feet from a single pane window. With Ecolux 70, this is brought down to 75.7 F. The comfort improvement grows substantially when the sun is beating on your window. If you'd like to know more, ask your Ecolux specialist for more information on the solar control properties of Ecolux 70.

Winter	Single Pane		Double Pane		
	Clear	Ecolux 70	Clear	Ecolux 70	Low E Glass
Inner glass	15.9 F	9.3 F	44.1 F	32.3 F	51.6 F
Emissivity	0.84	0.09	0.84	0.09	0.84
Feels like (at 3 ft)	62.3 F	68.9 F	66.2 F	69.2 F	67.3 F

Summer	Single Pane		Double Pane		
	Clear	Ecolux 70	Clear	Ecolux 70	Low E Glass
Inner glass	93.3 F	109.6 F	97.1 F	132.4 F	91.4 F
Emissivity	0.84	0.09	0.84	0.09	0.84
Feels like (at 3 ft)	77.7 F	75.7 F	78.3 F	76.1 F	77.5 F



Figure 1: Ecolux 70 on the upper pane reflecting the heat of the fireplace back into the room

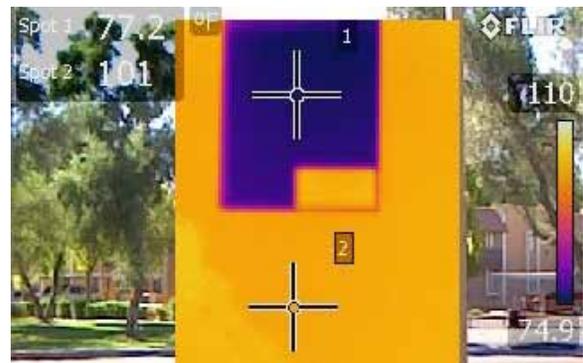


Figure 2: An Ecolux 70 sample pane keeping the heat outside – unlike the surrounding glass.

## Energy Savings

The information above is assuming you are already keeping your interior air temperature at 69.8 F in the winter and 75.2 F in the summer. Having Ecolux 70 on your windows will significantly lower the demand on your HVAC system to maintain the set temperatures, so not only are you more comfortable in your own building, you are spending less to keep it that way. If you are interested in a detailed analysis of the energy you can save, ask your Ecolux specialist how to get a custom energy analysis done on your building today!

[www.solargard.com/us](http://www.solargard.com/us)

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