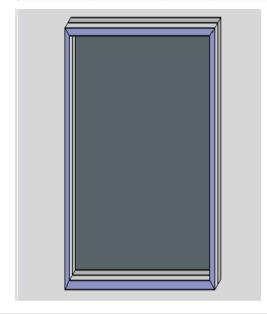
Effect of change in pane size on Energy saving





			VAZ:	-14la ()							
		SHGC	Width (mm)								
			Drop (mm)	600	800	1000	1200	1500	1800	2000	2400
			600	0.257	0.257	0.257	0.258	0.258	0.258	0.258	0.258
			900	0.256	0.256						0.258
			1000	0.255		0.256					0.257
			1200	0.255			0.256				0.256
			1500	0.254				0.255			0.255
			1800	0.253					0.254		0.254
			2000	0.253						0.254	0.254
			2400	0.252	0.253	0.253	0.253	0.253	0.253	0.253	0.253
			Width (mm)								
		U-Factor	Drop (mm)	600	800	1000	1200	1500	1800	2000	2400
			600	3.922	3.796	3.753	3.719	3.618	3.584	3.567	3.542
			900	3.727	3.583						3.355
Window:			1000	3.688		3.452					3.245
Frame Type:	Wood Picture (fixed) Custom 3mm plain Br/Si 10% UV Silver out (#65) 25 mm		1200	3.628			3.322				3.169
Glass Type:			1500	3.567				3.187			3.091
Blind Film Type:			1800	3.524					3.092		3.038
Film/glass Separation:			2000	3.502						3.043	3.01
Environmental Conditions: NFRC/ISO 15099 Summer			2400	3.469	3.302	3.201	3.134	3.067	3.023	3.001	2.967

Notes: This chart is fundamentally a sensitivity analysis to show how the dimensions of a window will effect the energy saving properties of the window. This window is a simple case wooden framed window, with 3mm plain window glass, fitted with a Reflective Blind, mounted 25mm out from the glass. This exercise is purely for information purposes, to measure the effects of size and it should not be presumed that some of the window sizes shown here would be allowed under the Building Code of Australia. The chart shows that the effect of the change in size is not great, but that as the window size increases in "Width" and "Drop", the Solar (SHGC) and Thermal (U-Factor) performance improves marginally. This means that as the window becomes larger it becomes marginally more efficient as the less efficient window frame contributes proportionately less to the equation.

Definitions: The Solar Heat Gain Coefficient (SHGC) is the fraction of solar radiation admitted through a window, both directly transmitted and absorbed ansd subsequently released inward. This is expressed as a number between 0 and 1, but can aslo be expressed as 0 to 100%. The Coefficient of Thermal Transfer (U-Factor) is the rate of heat transfer from the hot side to the cold side and is independent of the sun This is measured in Watts/M²/deg K.

Discussion of the above Data: The reduction in solar heat gain contributed to a house by this window is about 74.7% for a large window and 74.3% for a small window. That is the size or the shape of the window is of little consequence.

> The U-Factor numbers quoted here are best case numbers where the edges of the blinds are sealed. In most installations the values will be higher. Therefore more information is required before assumptions can be made with regard to the U-factor.