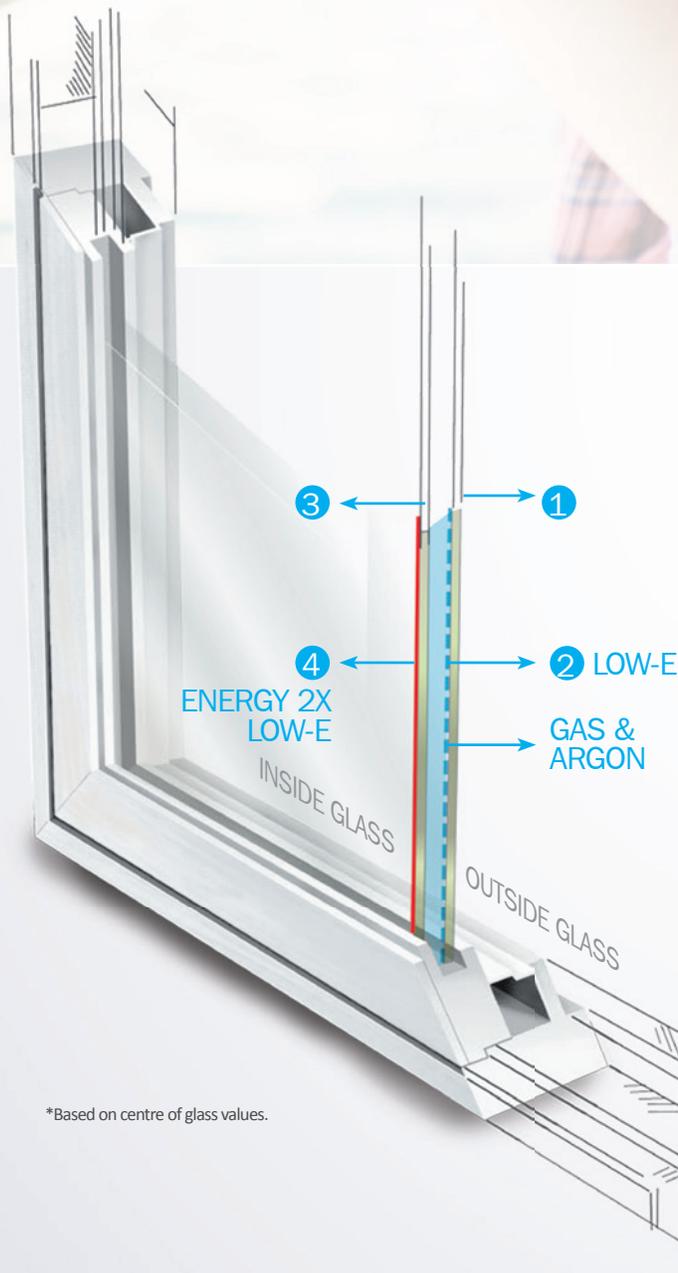


ENERGY 2X

Dual Surface Low-E



How Energy2X works:

Traditionally, Low-E coatings could only be applied to the inside of a thermopane; either on surface #2 or #3 depending on the application. With Energy2X using U4 Glass Technology, The Low-E coatings are applied on surface #2 and the inner most surface (#4) facing the home's interior to maximize energy savings and performance.

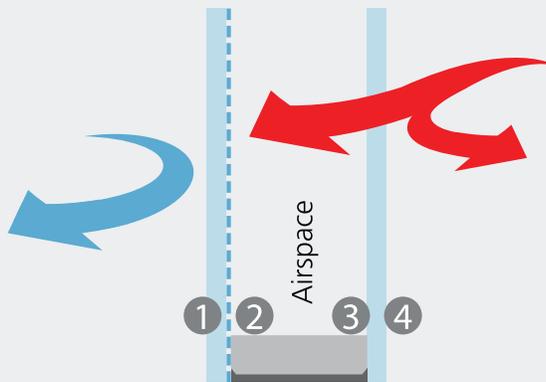
Improves R-Value
by up to 25%*

*Based on centre of glass values.

How Energy 2X maximizes thermal efficiency:

Standard Low-e IGU

No coating on surface #4 results in a loss of heat

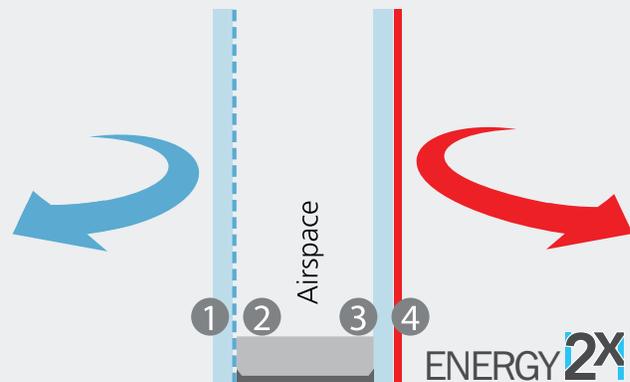


Adding a low-e coating to surface #2 allows the window to reflect solar energy outside when the sun is shining, thus lowering solar heat gain during warm conditions. During cold conditions, the coating on surface #2 reduces energy transmitted across the airspace to the outside. However, some heat from the room is lost to the airspace due to no coating on surface #4. This ultimately lowers the window's thermal performance.

*Drawing and information from AGC Glass.

Low-e IGU with U4 Technology

U4 on surface #4 keeps more heat in



Adding a low-e coating to surfaces #2 and #4 of an IGU allows the window to reflect energy both to the outside and inside. The coating on surface #2 will reflect solar energy to the outside when the sun is shining. During cold conditions, the coating on surface #4 will reflect energy back into the room. This reduces the amount of energy transferred across the airspace, therefore improving overall insulating properties of the glass by an additional 15%–20% versus a conventional IGU.

The technology is baked-in.

The innovative coating that gives Energy2X its outstanding performance is applied to the glass while it's still in a molten state (approximately 600° C). As the glass cools, the coating and the glass become one single, high-performance, hard-coated glazing.

As always, glass can be cleaned with household window cleaner, or vinegar and water or ammonia and water. It is never recommended to use a blade on the glass surface.

Dispelling the condensation myth.

Harmful condensation has been virtually eliminated from windows since the implementation of sealed Insulated Glass units (thermopanes). Since condensation is virtually not an issue with clear IG units, there is no scientific logic that U4 technology will pose any harmful condensation issues. As with any new windows, homeowners may experience minor condensation along the edges of the glass during cold weather, but can be alleviated with air exchanger or HVAC system.