

BARRIERXP[®] TG2

HIGH-PERFORMANCE TRIPLE-PANE INSULATED GLASS PACKAGE



EXPERTLY CRAFTED FOR SUPERIOR ENERGY EFFICIENCY AND INDOOR COMFORT



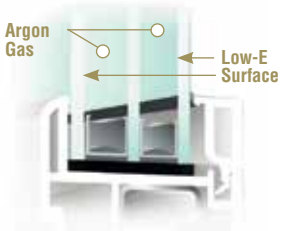
BARRIERXP® TG2

PRECISION-BUILT FOR IMPROVED WINDOW PERFORMANCE AND ENERGY SAVINGS



Ask your Gentek Sales Representative about BarrierXP TG2 qualified products.

For many homeowners, a primary motivation in replacing their windows is to save money on energy costs. The average household spends more than 40% of its annual energy budget on heating and cooling needs. Maximizing the energy efficiency of your windows will help reduce energy consumption while also creating a more comfortable indoor climate.



Windows are roughly 80% glass, so it's essential to choose a glass system that helps prevent

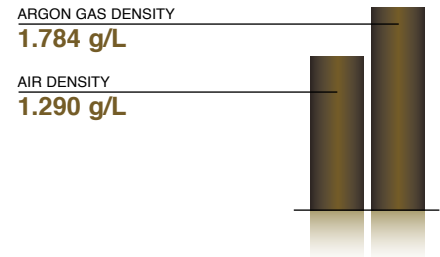
heat from escaping in the winter and keeps cool air in during the summer.

The BarrierXP TG2 triple-pane glass package† features two surfaces of Low-E (low-emissivity) glass, two spaces of insulating argon gas, and the Intercept® Warm-Edge Spacer System. Together with additional insulating components and airtight chambers in the vinyl window construction, this triple-pane technology ensures a strong barrier against energy loss year-round.

When you compare the outstanding performance properties of BarrierXP TG2 to other glass packages, you'll see why it's an excellent selection for your home – and a positive choice for the environment.

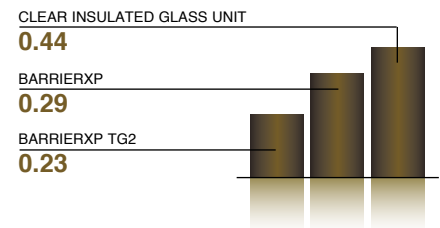
INCREASED THERMAL PROTECTION

Insulated glass units were initially filled with air or dry nitrogen. It was later discovered that a dense, slow moving gas would help to minimize the convection currents within the space, thereby reducing conduction and the transfer of heat. These inert, colorless, odorless and safe gasses have proven to be very successful in improving the thermal performance of a window. As shown in this chart, using a grams-per-liter measurement, the BarrierXP TG2 insulated glass unit with two chambers of argon gas will insulate nearly 40% better than a unit filled with air.



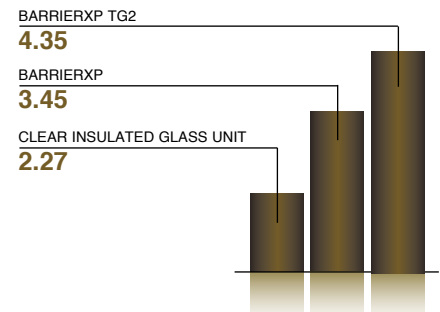
ENHANCED U-FACTOR PERFORMANCE IN WINTER*

The U-Factor (also referred to as U-Value) is a number that represents the rate of heat flow through a glazing system. The lower the U-Factor, the greater a window's resistance to heat flow and the better its insulating value. This performance is especially critical to keeping homes energy efficient during cold winter months. As shown in the side-by-side comparison, the BarrierXP TG2 insulated glass unit that utilizes two panes of multi-layer, Low-E glass will outperform the standard clear, insulated unit by 48%.



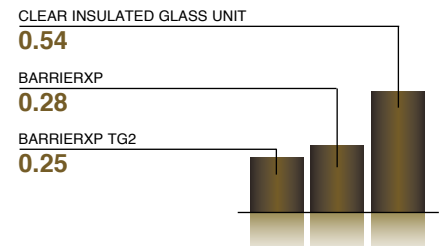
GREATER R-VALUE FOR INCREASED ENERGY EFFICIENCY*

R-Value represents a material's resistance to heat flow and its ability to insulate. It is the inverse of a U-Factor ($R=1/U$) and is expressed in terms of hr sq-ft °F/Btu. The higher the R-Value, the better the window's insulation performance. Typically, window R-Values range from 0.9 to 3.0. This chart shows that a Gentek 0501 window with the BarrierXP TG2 insulated glass package is nearly 92% more energy efficient than a standard double-pane unit.



A SOLUTION FOR SOLAR HEAT GAIN*

The Solar Heat Gain Coefficient (SHGC) measures how well a window blocks heat from the sun. SHGC is expressed as a number between 0 and 1 – the lower the SHGC, the better the window is at preventing unwanted solar heat from penetrating your home. Climates or seasons that rely heavily on air-conditioning will benefit from a window product that displays a lower SHGC. As shown in the comparison chart, the BarrierXP TG2 unit will outperform the standard clear, insulated glass unit by as much as 54%.



*Performance based on whole window values of a 0501 double hung window.



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†Insulated glass units that require capillary tubes may experience some argon gas depletion. All specifications and designs subject to change without notice. Due to product changes, improvements and other factors, Gentek reserves the right to change or delete information contained herein without prior notice. ENERGY STAR name and logo are registered U.S. marks and are owned by the U.S. government. Intercept is a registered trademark of Vitro. USGBC and related logo is a trademark owned by the U.S. Green Building Council and is used by permission.