

# FONTENOT CONTRACTING COMPANY

## Double Hung Windows Energy Rating Comparison

### Double Hung Windows- Energy Comparison

(See below chart for terminology information)

Vendor	Product Name	Energy Rating	U-factor	R- Value	SGCH	Visible Light Transmittance	Insulation
Harvey's	Harvey Majesty Double Hung (New construction and replacement)	ENERGY STAR qualified with standard Double Low-E/Argon glazing	2X Low-E/Argon: .34 2X Low-E/Argon w Contour Grid: .35	2X Low-E/Argon: 2.94 2X Low-E/Argon w Contour Grid: 2.86	2X Low-E/Argon: .26 2X Low-E/Argon w Contour Grid: .24	2X Low-E/Argon: .46 2X Low-E/Argon w Contour Grid: .41	Double Low-E/Argon (standard), Low-E , Low-E/Argon, Clear Glass
Marvin	Ultimate Clad Double Hung	ENERGY STAR qualified w Insulating Low E II glass	Insulating 0.46 " " SDL 0.46 " " -SDL w spacer bars 0.47 " " Low E II 0.33 " " Low E II SDL 0.33 " " Low E II- SDL w spacer bars 0.34 " " Low E II- Argon 0.30 " " Low E II - Argon, SDL 0.30 " " Low E IIArgon, SDL w spacer bars 0.31	Insulating 2.08 " " SDL 2.08 " " -SDL w spacer bars 2.04 " " Low E II 3.23 " " Low E II SDL 2.86 " " Low E II- SDL w spacer bars 2.78 " " Low E II- Argon 3.23 " " Low E II - Argon, SDL 3.23 " " Low E IIArgon, SDL w spacer bars 3.13	Insulating .55 " " SDL .49 " " -SDL w spacer bars .49 " " Low E II .30 " " Low E II SDL .27 " " Low E II- SDL w spacer bars .27 " " Low E II- Argon .3 " " Low E II - Argon, SDL .27 " " Low E IIArgon, SDL w spacer bars .27	Insulating .58 " " SDL .51 " " -SDL w spacer bars .51 " " Low E II .51 " " Low E II SDL .45 " " Low E II- SDL w spacer bars .45 " " Low E II- Argon .51 " " Low E II - Argon, SDL .45 " " Low E IIArgon, SDL w spacer bars .45	Glazing method: Insulated, S Glazing seal: Silicon glazed, S Glazing type: Clear, LoE with Argon or Low E II with argon, laminated, solar tints, tempered, obscure, bronze tint. Gray tint, and Reflective Bronze
	Ultimate Insert Double Hung Replacement Window	" "	" "	" "	" "	" "	" "
Integrity	Wood-Ultrex Series (from Marvin)	Energy Star Rating	Insulating Glass / LoE3 366 from .30-.34 Insulating Glass / Low E II from .31-.35	Insulating Glass / LoE3 366 from .20-.22 Insulating Glass / Low E II from .30-.33	Insulating Glass / LoE3 366 from .20-.22 Insulating Glass / Low E II from .30-.33	Insulating Glass / LoE3 366 from .46-.51 Insulating Glass / Low E II from .51-.57	All units manufactured with 3/4" (19 mm) insulating glass Low E II with Argon. The glazing seal is a silicone bedding on the exterior surface, and a vinyl seal on the interior surface
Pella	Architect Series Double Hung (Used as new construction or replacement)	Most Architect Series® products with energy-saving Low-E insulating glass with argon meet or exceed ENERGY STAR® guidelines	.33-.82		.21-.59		Triple-Pane Low-E Insulating Glass with Argon, Low-E , Low-E/Argon, insulated
Anderson	400 Series Woodwright® Double-Hung Insert Replacement Windows	This product meets guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. (energy star). Also 14% recycled content	High Performane Low E4 and Low E Glass .28 Low E4 Smart Sun .24 High Performance Low-E4 Sun .29	Not Listed	High Performane Low E4 and Low E Glass .50 Low E4 Smart Sun .27 High Performance Low-E4 Sun .25	High Performane Low E4 and Low E Glass 72% Low E4 Smart Sun 66% High Performance Low-E4 Sun 40%	High Performance LowE4, Low E, Low E4 Smart Sun, High Performance Low- E4
	400 Series Woodwright Double-Hung	" "	" "	" "	" "	" "	" "

### TERMINOLOGY

**ENERGY STAR Program** [www.energystar.gov](http://www.energystar.gov)  
In 1998, the U.S. Department of Energy, the U.S. Environmental Protection Agency and window and glass manufacturers initiated a voluntary partnership creating the ENERGY STAR Window and Door Program, designed to raise consumer awareness of the economic and environmental benefits of purchasing energy efficient products. Any window or door unit qualifying for the ENERGY STAR program has been rated, certified and labeled for both U-factor (heat loss) and solar heat gain coefficient (heat gain from sunlight) by the National Fenestration Rating Council (see page 9 and 10 for further details on NFRC). By choosing these ENERGY STAR qualifying products, homeowners can cut their heating and cooling costs by up to 40%, help make their homes more comfortable and reduce air pollution.

**U factor** measures the rate of non-solar heat transfer from one side of the window to the other. Heat transfer implies both heat loss out of a living space during cold weather and non-solar heat gain during hot summer months. The lower the U-factor, the better the performance **.35 or lower=Energy star qualified**

**R value** measures the resistance of a glazing material or fenestration assembly to heat flow. A high R-value window has a greater resistance to heat flow and a higher insulating value than one with a low R-value.

**Solar Heat Gain Coefficient** measures how well a product blocks heat from the sun. The lower the SHGC, the better a product is at blocking unwanted heat gain.

**VT** measures how much light comes through a product. The higher the VT, the more light that comes through.