The Estate Double Hung window features a luxurious interior frame crafted from finger jointed Eastern Canadian Pine, with a tough vinyl sash and exterior frame facing the elements. Achieve the traditional wood window look on the outside with an equal lite glazing area and sloped sill. The narrow frame also maximizes the Estate Double Hung’s energy efficiency. And with further energy-saving features available, like Argon gas filling, Intercept warm edge insulated glass unit and Energlas®, Estate Double Hung windows are engineered to keep your home snug and warm through the harshest weather.

***Estate Double Hung***

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| **FRAME – Fusion welded corners** |
| White extruded polyvinyl chloride (uPVC) profiles. Optional tan extruded |
| Operator/Fixed Frame depth: 3.25” (83mm) |
| Small Picture Window Frame depth: 3.25” (83mm) |

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| **SASH – Fusion welded corners** |
| White extruded polyvinyl chloride (uPVC) profiles. Optional tan extruded |

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| **GLAZING** | |
| **Glazing method** | Insulated glass, hermetically sealed |
| **Glazing seal** | Tape glazed, silicon heel bead |
| **Glazing type** | Clear glass |
| **Spacer type** | Warm edge steel Intercept |
| **Options** | Soft coat LoE, Argon gas fill, Obscure glass, Tinted glass,  Energlas (LoE/Argon and Stainless Steel spacer),  Energlas Plus (triple paned, 2 panes with LoE glass, argon gas filling, and Edgetech warm edge Superspacer) |

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| **WEATHER STRIPPING** |
| Two pile weather strip on sash |

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| **OPTIONS** | |
| **Insect Screens** | Aluminum full screen standard, white or tan to match frame and sash  Grey fiberglass standard screen mesh with pull tabs integrated into screen corner |
| **Int./Ext. SDL** | Int. bar: Extruded vinyl or wood, ¾” and 1” wide bars. White, tan or painted  Ext. bar: Extruded vinyl, ¾” or 1” wide bars. White, tan or painted  Pattern: Rectangular, custom lite layouts available |
| **Grills** | ¾” Contoured Georgian. White, tan, any standard color or split finish int./ext.  1” Contoured Georgian. White or any standard color  5/8” Flat Colonial. White, tan, brass, brushed aluminum or painted  Slimline 5/16” Flat Colonial. White, tan, pewter, black, gold, mill finish or painted |
| **Accessories** | Standard: ½” to ¾” return is built into the frame on the interior  Optional: 7/8”, 1 ½”, 2” or 3 ½” brick molding all four sides or with subsill. Available with J-trim and nailing fin. 2” and 3 ½” brick molds available with decorative molding |

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| **PERFORMANCE TESTS In accordance with AAMA/WDMA/CSA 101/1.5.2/A444-08** | | | | | | | | |
| **Window**  **(Estate)** | **Gateway Size (in)** | **Gateway Size (mm)** | **NAFS Rating** | **Canadian Air Infiltration** | **Water Resistance** | **Wind Load Resistance** | **DP Rating** | |
| **Water** | **Wind** |
| **Double Hung** | **40 x 63** | **1016 x 1600** | **R-PG70-H** | **A3** | **B6** | **C5** | **DP70** | **DP70** |
| **D.H. Picture** | **60 x 60** | **1524 x 1524** | **CW-PG70-FW** | **FX** | **B7** | **C5** | **DP100** | **DP70** |

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|  | **THERMAL PERFORMANCE RATINGS In accordance to CSA A440.2-04** | | | | | | | | | | |
| **Glass Options** | **Energy Rating** | **R-Value (Whole Window)** | **R-Value (Center of Glass)** | **U-Value (metric)** | **U-Value (imperial)** | **Solar Heat Gain Coefficient** | **Visible Transmittance** | **Condensation Resistance** | **Canadian Energy Star Zones** | **US Energy**  **Star Zones** |
| **Double Glazed** | Energlas – HSG | 32 | 3.33 | 3.69 | 1.7 | 0.30 | 0.52 | 0.59 | 52 | ABC | N |
| LoE/Argon – HSG | 30 | 3.23 | 3.69 | 1.8 | 0.31 | 0.52 | 0.59 | 55 | ABC | N |
| Energlas – HSG w Grills | 28 | 3.33 | 3.69 | 1.7 | 0.3 | 0.46 | 0.53 | 52 | AB | N |
| LoE/Argon – HSG w Grills | 27 | 3.23 | 3.69 | 1.8 | 0.31 | 0.46 | 0.53 | 55 | AB | N |
| Energlas – LSG | 21 | 3.57 | 4.10 | 1.6 | 0.28 | 0.29 | 0.52 | 58 | AB | N,NC,SC |
| LoE/Argon – LSG | 20 | 3.45 | 4.10 | 1.6 | 0.29 | 0.29 | 0.52 | 56 | A | N,NC,SC |
| Energlas – LSG w Grills | 19 | 3.57 | 4.10 | 1.6 | 0.28 | 0.26 | 0.46 | 58 | AB | N,NC,SC,S |
| LoE/Argon – LSG w Grills | 18 | 3.45 | 4.10 | 1.6 | 0.29 | 0.26 | 0.46 | 56 | A | N,NC,SC,S |
| Clear | 14 | 2.17 | 2.08 | 2.6 | 0.46 | 0.56 | 0.60 | 42 |  |  |
| Clear w Grills | 11 | 2.17 | 2.08 | 2.6 | 0.46 | 0.50 | 0.53 | 42 |  |  |
| **Triple Glazed** |  |  |  |  |  |  |  |  |  |  |  |
| Energlas Plus Krypton – HSG | 39 | 4.76 | 6.85 | 1.2 | 0.21 | 0.45 | 0.53 | 68 | ABCD |  |
| Energlas Plus Argon – HSG | 33 | 3.85 | 4.74 | 1.5 | 0.26 | 0.45 | 0.53 | 63 | ABC | N |
| Energlas Plus Krypton – LSG | 27 | 5.00 | 7.94 | 1.1 | 0.2 | 0.23 | 0.41 | 68 | ABCD |  |
| Energlas Plus Argon – LSG | 21 | 4.00 | 5.13 | 1.4 | 0.25 | 0.23 | 0.41 | 64 | ABC | N,NC,SC,S |
| Triple Clear | 21 | 2.63 | 3.21 | 2.2 | 0.38 | 0.5 | 0.54 | 52 |  |  |
| Triple LoE/Argon x 1 LSG | 19 | 3.45 | 5.26 | 1.6 | 0.29 | 0.27 | 0.47 | 61 | A | N,NC,SC,S |
|  | \***Energlas** uses a high performance warm edge spacer, one panel of LoE coated glass and one cavity filled with high density gas. | | | | | | | | | |  |
|  | \*\***Energlas Plus** is an ultra high performance, energy efficient, triple glazed system using warm edge SuperSpacer, two panels of LoE coated glass, and two cavities filled with high density glass. | | | | | | | | | |  |