

Inswing Window

CASEMENT AND HOPPER WINDOWS



Structural Performance

Built for mid-rise residential buildings, our ratings far surpass the required standards, often achieving Architectural Window quality grades even when a Commercial Rating would suffice. Unlike other manufacturers, our windows are tested and rated in fully assembled units to the CW PG65 standards.

CERTIFICATIONS:

PERFORMANCE CLASS:

CW-65

Exceeding mid-rise standard requirements in the **AAMA/WDMA/CSA 101/I.S.2/A440** testing.

3X WATER LEAKAGE PROTECTION:

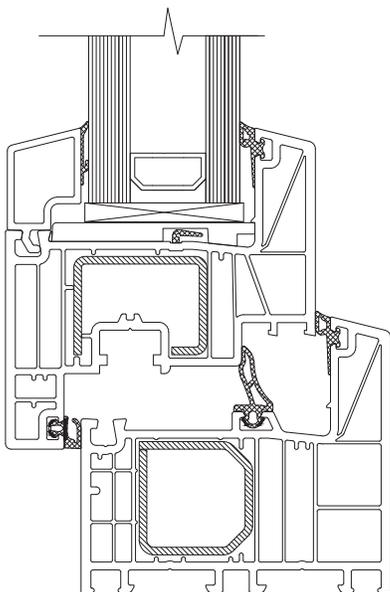
Passes high-rise **ASTM test E331** at 12.11psf of pressure, achieving 3 times the required CW penetration resistance.

4X AIR INFILTRATION RESISTANCE:

Passes **AAMA test E283** at 6.27psf, achieving 4 times the CW standard.

DESIGN PRESSURE:

Our profiles are reinforced with .078" (2mm) steel, 40% thicker than standard uPVC. Providing outstanding strength with **ASTM E330** design pressure at **±65.16 psf (3120 Pa)**



Energy

More than windows, our products optimize their environment and are one with the universe. Achieving ratings of the lowest **U-Factor** (heat transfer rate), lowest **SHGC** (solar heat gain coefficient), best **OITC** (outdoor-indoor transmission class—sound reduction rating), and with the right options can give you complete Net Zero similar to Passive House ratings.

THERMAL RATINGS

Results are based using our Crystal annealed glass, upgrading to GrayT glass may result in even higher energy efficiency.

| RATING | ThinE | MidE | MasterE | MaxE |
|-------------------|---------|---------|---------|---------|
| U Factor | .27 | .27 | .27 | .24 |
| SHGC | .25 | .24 | .22 | .21 |
| OITC / STC | 27 / 33 | 34 / 39 | 38 / 46 | 40 / 47 |

GLAZE OPTIONS (IGU)

Our Argon-filled glass allows you to see more, while simultaneously securing you from the weather, elements, noise, and glare. All options come in low-E glass, and are available annealed, laminated, or tempered glass, with various thickness options for increased thermal rating and sound reduction.

| GLASS | IGU | PANES | PANE 1 | ARGON | PANE 2 | ARGON | PANE 3 |
|----------------|------------------------------------|--------|------------------------------------|----------------------------------|-----------------------------------|----------------------------------|------------------------------------|
| ThinE | 1 ⁵ / ₁₆ " | Double | 5 ⁵ / ₃₂ " | 5 ⁵ / ₈ " | 5 ⁵ / ₃₂ " | | |
| MidE | 1 1 ¹ / ₄ " | Double | 1 ¹ / ₂ " | 5 ⁵ / ₈ " | 3 ³ / ₈ " | | |
| MasterE | 1 1 ¹ / ₂ " | Double | 5 ⁵ / ₁₆ " * | 1 ³ / ₁₆ " | 3 ³ / ₈ " * | | |
| MaxE | 2 3 ³ / ₃₂ " | Triple | 1 ¹ / ₂ " * | 9 ⁹ / ₁₆ " | 5 ⁵ / ₃₂ " | 9 ⁹ / ₁₆ " | 5 ⁵ / ₁₆ " * |

* Laminated

SAFETY

FIRE SAFETY ASTM E84



For best fire protection, our windows are evaluated in accordance with the Standard Test Method for Surface Burning Characteristics of Building Materials.

FORCED ENTRY RESISTANCE



To keep you and your family safe and secure, our windows pass the standard forced entry testing measure. **ASTM F588 - Type: B - Grade: 10.**

FALL PREVENTION:



All our operable windows are built for large multi-family buildings with integral NYC Dept of Health approved limiters to uphold safety standards.

Simply Beautiful

Our certified products allow for customizations to match your architectural vision. Aesthetically thin corner welds and concealed hinges complete every window.

FOIL COLORS

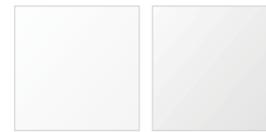
Modern yet classic, our four color options can be spec'd separately for inside and outside, eliminating interior painting needs. Additionally, Continental™ Skai® foil laminates in Cool Color or Cool Color Plus provide longer-lasting exterior protection from extreme heat or cold.



Snow White Silver Sea Grey Moon Black Star

TINTING

Upgrade to GrayT glass for better protection, privacy, and comfort. Tinting can also result in higher energy efficiency.



Crystal GrayT

HANDLES

Our state-of-the-art handles come in three magnificent colors, allowing you to get a firm handle on your project's requirements.



VistaBlack VistaSilver VistaWhite

GRILLS:

Our grills are unique in that they are available in 3 widths and are placed both inside and outside the glass, with spacers between panes for added strength. Matching uPVC Glazing Bars are available in classic styles or custom patterns.

