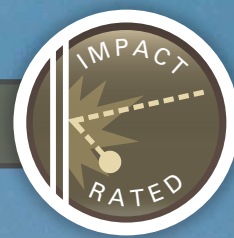


# BUILDER SERIES

W I N D O W S

**PlyGem**  
WINDOWS & DOORS

**IMPACT RATED**



## 4810 SERIES IMPACT SINGLE HUNG

ALUMINUM

WINDOWS

**MORE VALUE. MORE PERFORMANCE. MORE PROTECTION.**

You need a window with more than great looks. You need a window that can perform under the harshest weather conditions. Count on Ply Gem Windows Builder Series to deliver. It offers the best possible protection at the best possible value. Each window is built to weather it all. In fact, it can even withstand the impact of wind-blown objects. Plus, you'll get the energy-efficiency, variety of choices and virtually maintenance-free features you need to realize your vision.



# 4810 SERIES IMPACT SINGLE HUNG



## TESTING & PERFORMANCE DATA

- Rated in accordance with the International Residential Codes and meet impact requirements in U.S. Zone 2 (110-120 mph) and Zone 3 (120-140 mph).
- Passes ASTM E1886/1996 Large Missile Impact and Cycling Tests.
- Meets AAMA/WDMA/CSA 101/I.S.2/A440 standard.

## STANDARD FEATURES

- Thermally broken aluminum frame with polyurethane poured in place and debridged to reduce thermal conductivity of aluminum frame
- Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- Sloped sill allows for proper water drainage to the exterior
- Sleek profile provides larger viewing area
- Interior glazing allows for easier glass replacement
- Side load removable bottom sash
- Block and tackle balance system
- Energy-efficient Warm Edge insulating glass
- Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit
- Dual lift rails on bottom sash for easy operation
- Frame depth available in 2 $\frac{7}{16}$ "
- Integral nailing fin with a 1 $\frac{3}{8}$ " setback for simple installation



## OPTIONS

### GLASS OPTIONS:

Low-E, Low-E<sup>SC</sup>, HP, HP<sup>SC</sup>, obscure and tempered

### GRILLE OPTIONS:

Color-coordinated grilles-between-the-glass (GBG) in  $\frac{5}{8}$ "  $\frac{3}{4}$ " flat and 1- $\frac{3}{16}$ " SDL with shadow bar

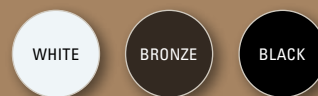
### PRODUCT CONFIGURATION:

Matching side lites, fixed panels, transoms, segmented transoms and a wide selection of architectural shapes

### HARDWARE OPTION:

Safety vent latch to meet ASTM F2090 requirements

### COLOR OPTIONS:



### 4810FIR SERIES THERMAL PERFORMANCE

	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WARM EDGE				
7/8" Clear	1.69	0.59	0.55	0.65
7/8" Low-E	2.17	0.46	0.36	0.55
7/8" Low-E <sup>SC</sup>	2.22	0.45	0.33	0.43
7/8" HP Glass	2.38	0.42	0.36	0.55
7/8" HP <sup>SC</sup> Glass	2.44	0.41	0.33	0.43

### 4812FIR SERIES THERMAL PERFORMANCE

	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WARM EDGE				
7/8" Clear	1.52	0.63	0.56	0.64
7/8" Low-E	1.92	0.49	0.36	0.54
7/8" Low-E <sup>SC</sup>	1.92	0.49	0.32	0.43
7/8" HP Glass	2.04	0.45	0.36	0.54
7/8" HP <sup>SC</sup> Glass	2.04	0.45	0.32	0.43

All units are NAMI certified and rated in accordance with NFRC 100/200 standards by an AAMA accredited lab. Performance values reflect the performance of units tested with the following configuration: 7/8" IGU, impact glass (8mm with 3mm/.09mm/3mm laminated glass) over 3mm glass, no grilles.

R VALUE: Restrictive ambient air flow; U FACTOR: Rate of heat loss; SHGC: Solar Heat Gain Coefficient; VT: Visible Transmittance

1. Optional Low-E and Low-E<sup>SC</sup> (solar cooling) glass options.
2. Optional HP and HP<sup>SC</sup> (solar cooling) Glass packages combine Low-E glass options with argon gas fill for high performance.