

**BUILDER SERIES**

W I N D O W S

**Ply Gem**<sup>®</sup>  
WINDOWS & DOORS

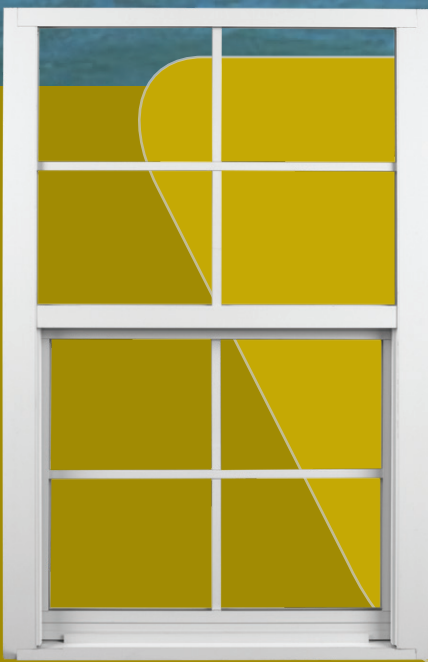
**IMPACT RATED**



**4710/4712 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.



# 4710<sup>5</sup>/4712<sup>6</sup> SERIES IMPACT SINGLE HUNG



## TESTING & PERFORMANCE DATA

- 4712FIR/4712FLIR series single hung units are constructed to meet H-R50 performance.
- 4710FIR series single hung units are constructed to meet H-R40 performance.
- 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 101/1.S.2/A440 standard. Florida Building Commission Approved.

Visit [www.floridabuilding.org](http://www.floridabuilding.org) for more information.

## STANDARD FEATURES

- Virtually maintenance-free extruded aluminum construction with electrostatically applied finish
- 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 laminated glass with PVB inner layer to maintain seal in high impact situations
- Sloped sill allows for proper water drainage to the exterior
- Structural meeting rail provides rigid stability and allows for a tighter, weather-resistant unit
- Frame depth available in 2<sup>7</sup>/<sub>8</sub>"
- Dual lift rails on bottom sash for easy operation
- Flange (shown) or integral nailing fin 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 5/8" and 3/4" flat

### 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 F2090-2008 requirements

### COLOR OPTIONS:



### 4710FIR SERIES THERMAL PERFORMANCE

	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WARM EDGE				
7/8" Clear	1.52	0.66	0.60	0.65
7/8" Low-E	1.92	0.52	0.37	0.55
7/8" Low-E <sup>SC</sup>	1.92	0.52	0.34	0.43
7/8" HP Glass	2.04	0.49	0.37	0.56
7/8" HP <sup>SC</sup> Glass	2.04	0.49	0.34	0.44

### 4712FIR/FLIR SERIES THERMAL PERFORMANCE

	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WARM EDGE				
7/8" Clear	1.52	0.68	0.57	0.65
7/8" Low-E	1.92	0.54	0.36	0.55
7/8" Low-E <sup>SC</sup>	1.92	0.54	0.33	0.43
7/8" HP Glass	2.04	0.50	0.36	0.55
7/8" HP <sup>SC</sup> Glass	2.04	0.50	0.33	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.  
 3. Meets Florida building codes for certain zones. Consult your local codes for specific requirements.

4. 4712FIR/FLIR is available in white & bronze, not adobe grey.  
 5. 4710FIR standard from Bryan, TX (BRY) as H-LC40 with 3050 egress size  
 6. 4712FIR/FLIR standard from Peachtree City, GA (PTC) as H-LC50 with 3150 or 3052 egress size

### SINGLE HUNG SELECTION GUIDE

SERIES	NAIL FIN SETBACK	SASH TYPE	BALANCE TYPE	HIGH WIND ZONE	FLORIDA APPROVED	CONSTRUCTION TYPE				MFG FAC.
						WOOD SIDING	BRICK	BLOCK	EIFS	
4710FIR	1 3/8"	SIDE LOAD	BLOCK & TACKLE	●		●	●		●	BRY
4712FIR	1 3/8"	SIDE LOAD	BLOCK & TACKLE	●	14184.1	●	●		●	PTC
4712FLIR	FLANGE	SIDE LOAD	BLOCK & TACKLE	●	14184.1			●		PTC