

BUILDER SERIES

W I N D O W S

Ply GEM[®]
WINDOWS

IMPACT RATED



4810FIR/4812FIR 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.





4810FIR⁵/4812FIR⁶ SERIES IMPACT SINGLE HUNG



TESTING & PERFORMANCE DATA

- 4812FIR series single hung units are constructed to meet H-R50 performance.
- 4810FIR 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/I.S.2/A440 standard.
- 4812FIR series single hung are Florida approved – 14184.1

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^{SC}, HP, HP^{SC}, obscure and tempered

GRILLE OPTIONS:

Color-coordinated grilles-between-the-glass (GBG) in $\frac{5}{8}$ " and $\frac{3}{4}$ " 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:



NOTE: Colors shown are close approximations and may not be accurate representations for color matching. Please request color swatches from your Ply Gem sales representative to do so.

SINGLE HUNG SELECTION GUIDE

SERIES	NAIL FIN SETBACK	R50	HIGH WIND ZONE	FLORIDA APPROVED	CONSTRUCTION TYPE			MFG FAC.
					WOOD SIDING	BRICK	EIFS	
4810FIR	1 $\frac{3}{8}$ "		●		●	●	●	BRY
4812FIR	1 $\frac{3}{8}$ "	●	●	14184.1	●	●	●	PTC

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 ^{SC}	2.22	0.45	0.33	0.43
7/8" HP Glass	2.38	0.42	0.36	0.55
7/8" HP ^{SC} 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 ^{SC}	1.92	0.49	0.32	0.43
7/8" HP Glass	2.04	0.45	0.36	0.54
7/8" HP ^{SC} 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^{SC} (solar cooling) glass options.
2. Optional HP and HP^{SC} (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. 4812FIR is available in white and bronze, not adobe grey.
5. 4810FIR standard from Bryan, TX (BRY) as H-LC40 with 3050 egress size
6. 4812FIR standard from Peachtree City, GA (PTC) as H-LC50 with 3150 or 3052 egress size



BUILDING PRODUCTS. BUILDING SUCCESS.