



CASEMENT OPERATING SHAPES

Ply Gem MIRA Aluminum-Clad Wood Windows offer exceptional craftsmanship and detail to meet your unique vision of home. Expand your design options with operable casements in extended eyebrow, extended quarter eyebrow, extended round and extended quarter round shapes. **MIRA operable shape casement windows combine luxury and performance for the ultimate custom look.**

EXTERIOR COLOR OPTIONS



THE **Standard**Collection

Our standard colors are as durable as they are beautiful. Choose from three eye-catching hues.



THE **Signature**Collection

From subtle shades to vibrant hues, Signature colors offer a full spectrum of fresh choices. Choose from 32 colors.



THE **Radiance**Collection

Our pearlized color process produces rich color with a metallic sheen. Colors become more vivid in bright light. Choose from 11 colors.



GET **Custom**Options

There's no limit to your color palette with Ply Gem. If you've got a particular color in mind that we don't offer, bring in a sample and we'll match it.

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. Additional Signature and Radiance color options available ranging from dark bold hues to vibrant metallics.

HARDWARE & FINISH OPTIONS



Bright Brass

Antique Brass

Satin Nickel

Oil Rubbed Bronze



White

Beige

Taupe

Black



Sash Lock
Detail-Locked



Sash Lock
Detail-Unlocked



Fold Down Crank
Handle Detail

EXTERIOR CASING OPTIONS



180 Brick Mould



STANDARD FEATURES



- Sleek fold-down crank handle won't interfere with window treatments
- 6/4 sash construction for historically accurate wood window look
- 4 9/16" jamb made of clear wood eliminate extensive drywall work
- Sash and interior made with select clear wood; ready for paint or stain to match any interior décor (also available in primed or prefinished in white, black and off-white)
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin for simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient warm edge insulating HP glass reduces energy costs while reducing fabric fading
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on all exterior surfaces resists dings and dents while providing structural integrity
- Stainless steel hinges for smooth operation that stands up to the weather

CASEMENT	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
3/4" Clear	2.08	0.48	0.55	0.57
3/4" Low-E	2.78	0.36	0.27	0.48
3/4" Low-E ^{SC}	2.78	0.36	0.2	0.38
3/4" Low-E2+	3.13	0.32	0.27	0.47
3/4" HP	3.03	0.33	0.27	0.48
3/4" HP ^{SC}	3.03	0.33	0.2	0.38
3/4" HP2+	3.33	0.3	0.26	0.47
WITH WARM EDGE+				
3/4" Clear	2.13	0.47	0.55	0.56
3/4" Low-E	2.86	0.35	0.27	0.48
3/4" Low-E ^{SC}	2.86	0.35	0.2	0.38
3/4" Low-E2+	3.23	0.31	0.27	0.47
3/4" HP	3.13	0.32	0.27	0.48
3/4" HP ^{SC}	3.13	0.32	0.2	0.38
3/4" HP2+	3.45	0.29	0.26	0.47

All units rated in accordance with NFRC 100/200 standards by a NAMI Accredited lab. Performance values reflect the performance of units tested with the following configuration: 3/4" IGU, 3mm glass, no grilles and Warm Edge spacer system and Warm Edge+ spacer system.

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

Most unit sizes ENERGY STAR® qualified in most zones and may be eligible for LEED for Homes® credits.

*LEED for Homes is a rating system of the U.S. Green Building Council that promotes the design and construction of high-performance green homes.

NOTE: All units are limited to open 60 degrees. Only hinged on short-side of units



ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency.
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OPTIONS



GLASS OPTIONS:

HP^{SC}, HP2+, HP2+^{SC}, HP^{PS}, HP2+^{PS}, (Low-E, Low-E^{SC} and Low-E2+ for high altitude applications), Warm Edge+, laminated, obscure, tempered, tinted and black spandrel

GRILLE OPTIONS:

Color-coordinated grilles-between-the-glass (GBG) in 5/8" and 7/8" flat, 5/8" sculptured and 1" contoured in white only; simulated-divided-lite (SDL) available in 7/8" and 1 1/4"; 7/8" full surround removable wood grilles

EXTERIOR CASING:

180 Brick Mould

EXTENSION JAMBS:

Custom from 4 9/16" to 8 9/16" in prefinished white, prefinished black, prefinished off-white, primed or natural "clear" wood

HARDWARE FINISHES:

White, taupe, beige, black, bright brass, antique brass, satin nickel and oil rubbed bronze

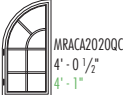






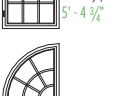
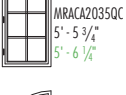
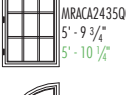
PRODUCT CONFIGURATION:

Twins, fixed and combinations


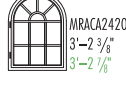



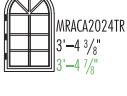
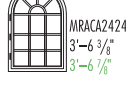

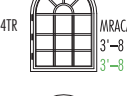


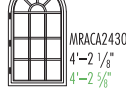













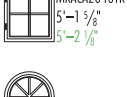
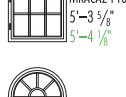
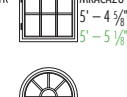
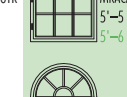

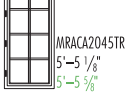
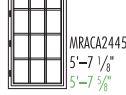






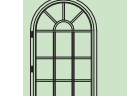
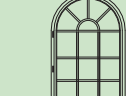

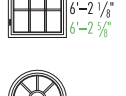
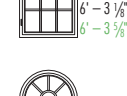
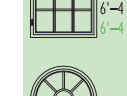

1. Extended Eyebrow: Units are rated C-LC60 straight out of the box; Extended Quarter Eyebrow: Units are rated C-LC50 straight out of the box; Extended Round: Units are rated C-LC50 straight out of the box; Extended Quarter Round: Units are rated C-LC30 straight out of the box. Upgrade available with special glazing to C-LC60.

OPERATING EXTENDED QUARTER ROUND UNITS

OPERATING EXTENDED ROUND UNITS

		Widths	
		2' - 0 1/4"	2' - 4 1/4"
		Rough Opening 2' - 1 1/4"	Rough Opening 2' - 5 1/4"
		Call Size 2-0	Call Size 2-4
Heights	2-0	 MRACA2020QC 4' - 0 1/2" 4' - 1"	 MRACA2420QC 4' - 4 1/2" 4' - 5"
	2-4	 MRACA2024QC 4' - 4 1/2" 4' - 5"	 MRACA2424QC 4' - 8 1/2" 4' - 9"
	3-0	 MRACA2030QC 5' - 0 1/4" 5' - 0 3/4"	 MRACA2430QC 5' - 4 1/4" 5' - 4 3/4"
	3-5	 MRACA2035QC 5' - 5 3/4" 5' - 6 1/4"	 MRACA2435QC 5' - 9 3/4" 5' - 10 1/4"
	4-0	 MRACA2040QC 6' - 1 3/4" 6' - 2 1/4"	 MRACA2440QC 6' - 5 3/4" 6' - 6 1/4"

Unit height dimension is listed first under individual windows
Rough Opening height dimension is listed second under individual windows

		Standard Colonial Grille Pattern Widths				
		2' - 0 1/4"	2' - 4 1/4"	2' - 6 1/4"	2' - 8 1/4"	3' - 0"
		Rough Opening 2' - 1 1/4"	Rough Opening 2' - 5 1/4"	Rough Opening 2' - 7 1/4"	Rough Opening 2' - 9 1/4"	Rough Opening 3' - 1"
		Call Size 2-0	Call Size 2-4	Call Size 2-6	Call Size 2-8	Call Size 3-0
Heights	2-0	 MRACA2020TR 3' - 0 3/8" 3' - 0 1/8"	 MRACA2420TR 3' - 2 3/8" 3' - 2 1/8"	 MRACA2620TR 3' - 3 3/8" 3' - 3 1/8"	 MRACA2820TR 3' - 4 3/8" 3' - 4 1/8"	 MRACA3020TR 3' - 6 1/4" 3' - 6 3/8"
	2-4	 MRACA2024TR 3' - 4 3/8" 3' - 4 1/8"	 MRACA2424TR 3' - 6 3/8" 3' - 6 1/8"	 MRACA2624TR 3' - 7 3/8" 3' - 7 1/8"	 MRACA2824TR 3' - 8 3/8" 3' - 8 1/8"	 MRACA3024TR 3' - 10 1/4" 3' - 10 3/8"
	3-0	 MRACA2030TR 4' - 0 1/8" 4' - 0 5/8"	 MRACA2430TR 4' - 2 1/8" 4' - 2 5/8"	 MRACA2630TR 4' - 3 1/8" 4' - 3 5/8"	 MRACA2830TR 4' - 4 1/8" 4' - 4 5/8"	 MRACA3030TR 4' - 6" 4' - 6 1/2"
	3-5	 MRACA2035TR 4' - 5 5/8" 4' - 6 1/8"	 MRACA2435TR 4' - 7 5/8" 4' - 8 1/8"	 MRACA2635TR 4' - 8 5/8" 4' - 11 1/8"	 MRACA2835TR 4' - 9 5/8" 4' - 10 1/8"	 MRACA3035TR 4' - 11 1/2" 5' - 0"
	4-0	 MRACA2040TR 5' - 1 3/8" 5' - 2 1/8"	 MRACA2440TR 5' - 3 3/8" 5' - 4 1/8"	 MRACA2640TR 5' - 4 3/8" 5' - 5 1/8"	 MRACA2840TR 5' - 5 3/8" 5' - 6 1/8"	 MRACA3040TR 5' - 7 1/2" 5' - 8"
	4-5	 MRACA2045TR 5' - 5 1/8" 5' - 5 5/8"	 MRACA2445TR 5' - 7 1/8" 5' - 7 5/8"	 MRACA2645TR 5' - 8 1/8" 5' - 8 5/8"	 MRACA2845TR 5' - 9 1/8" 5' - 9 5/8"	 MRACA3045TR 5' - 11" 5' - 11 1/2"
	5-0	 MRACA2050TR 6' - 0 1/8" 6' - 0 5/8"	 MRACA2450TR 6' - 2 1/8" 6' - 2 5/8"	 MRACA2650TR 6' - 3 1/8" 6' - 3 5/8"	 MRACA2850TR 6' - 4 1/8" 6' - 4 5/8"	 MRACA3050TR 6' - 6" 6' - 6 1/2"
	5-5	 MRACA2055TR 6' - 5 1/8" 6' - 5 5/8"	 MRACA2455TR 6' - 7 1/8" 6' - 7 5/8"	 MRACA2655TR 6' - 8 1/8" 6' - 8 5/8"	 MRACA2855TR 6' - 9 1/8" 6' - 9 5/8"	 MRACA3055TR 6' - 11" 6' - 11 1/2"
	6-0	 MRACA2060TR 7' - 0 1/8" 7' - 0 5/8"	 MRACA2460TR 7' - 2 1/8" 7' - 2 5/8"	 MRACA2660TR 7' - 3 1/8" 7' - 3 5/8"	 MRACA2860TR 7' - 4 1/8" 7' - 4 5/8"	 MRACA3060TR 7' - 6" 7' - 6 1/2"

Unit height dimension is listed first under individual windows
Rough Opening height dimension is listed second under individual windows

Optional Gothic Grille Pattern



OPERATING EXTENDED EYEBROW UNITS

Standard Colonial Grille Pattern Widths

Unit Dimension Rough Opening Coff Size	2' - 0 1/4"	2' - 4 1/4"	2' - 6 1/4"	2' - 8 1/4"	3' - 0"
	2' - 1 1/4"	2' - 5 1/4"	2' - 7 1/4"	2' - 9 1/4"	3' - 1"
	2-0	2-4	2-6	2-8	3-0
2-0	MRACA2020AH 2' - 4 3/16" 2' - 4 1/16"	MRACA2420AH 2' - 4 15/16" 2' - 5 1/16"	MRACA2620AH 2' - 5 3/16" 2' - 5 1/16"	MRACA2820AH 2' - 5 3/8" 2' - 6 1/8"	MRACA3020AH 2' - 6 1/4" 2' - 6 3/8"
2-4	MRACA2024AH 2' - 8 3/16" 2' - 8 1/16"	MRACA2424AH 2' - 8 15/16" 2' - 9 1/16"	MRACA2624AH 2' - 9 3/16" 2' - 9 1/16"	MRACA2824AH 2' - 9 3/8" 2' - 10 1/8"	MRACA3024AH 2' - 10 1/4" 2' - 10 3/8"
3-0	MRACA2030AH 3' - 4 1/16" 3' - 4 3/8"	MRACA2430AH 3' - 4 11/16" 3' - 5 3/8"	MRACA2630AH 3' - 5 1/16" 3' - 5 3/8"	MRACA2830AH 3' - 5 3/8" 3' - 5 7/8"	MRACA3030AH 3' - 6" 3' - 6 1/2"
3-5	MRACA2035AH 3' - 9 3/16" 3' - 10 1/16"	MRACA2435AH 3' - 10 3/16" 3' - 11 1/16"	MRACA2635AH 3' - 10 9/16" 3' - 11 1/16"	MRACA2835AH 3' - 10 7/8" 3' - 11 3/8"	MRACA3035AH 3' - 11 1/2" 4' - 0"
4-0	MRACA2040AH 4' - 5 1/16" 4' - 6 1/16"	MRACA2440AH 4' - 6 3/16" 4' - 6 1/16"	MRACA2640AH 4' - 6 3/8" 4' - 7 1/8"	MRACA2840AH 4' - 6 3/8" 4' - 7 3/8"	MRACA3040AH 4' - 7 1/2" 4' - 8"
4-5	MRACA2045AH 4' - 9 1/16" 4' - 9 3/8"	MRACA2445AH 4' - 9 11/16" 4' - 10 3/8"	MRACA2645AH 4' - 10 1/16" 4' - 10 3/8"	MRACA2845AH 4' - 10 3/8" 4' - 10 7/8"	MRACA3045AH 4' - 11" 4' - 11 1/2"
5-0	MRACA2050AH 5' - 4 1/16" 5' - 4 3/8"	MRACA2450AH 5' - 4 11/16" 5' - 5 3/8"	MRACA2650AH 5' - 5 1/16" 5' - 5 3/8"	MRACA2850AH 5' - 5 3/8" 5' - 5 7/8"	MRACA3050AH 5' - 6" 5' - 6 1/2"
5-5	MRACA2055AH 5' - 9 1/16" 5' - 9 3/8"	MRACA2455AH 5' - 9 11/16" 5' - 10 3/8"	MRACA2655AH 5' - 10 1/16" 5' - 10 3/8"	MRACA2855AH 5' - 10 3/8" 5' - 10 7/8"	MRACA3055AH 5' - 11" 5' - 11 1/2"
6-0	MRACA2060AH 6' - 4 1/16" 6' - 4 3/8"	MRACA2460AH 6' - 4 11/16" 6' - 5 3/8"	MRACA2660AH 6' - 5 1/16" 6' - 5 3/8"	MRACA2860AH 6' - 5 3/8" 6' - 5 7/8"	MRACA3060AH 6' - 6" 6' - 6 1/2"

Heights

Unit height dimension is listed first under individual windows

Rough Opening height dimension is listed second under individual windows

Optional Renaissance Grille Pattern



OPERATING EXTENDED QUARTER EYEBROW UNITS

		Widths				
		2' - 0 1/4"	2' - 4 1/4"	2' - 6 1/4"	2' - 8 1/4"	3' - 0"
		2' - 1 1/4"	2' - 5 1/4"	2' - 7 1/4"	2' - 9 1/4"	3' - 1"
		2-0	2-4	2-6	2-8	3-0
Heights	Unit Dimension	2-0	2-4	2-6	2-8	3-0
	Rough Opening	2'-8 1/2"	2'-9 1/8"	2'-10 1/2"	2'-11 3/8"	3'-0 7/8"
	Call Size	MRACA2020UAH	MRACA2420UAH	MRACA2620UAH	MRACA2820UAH	MRACA3020UAH
	2-4	MRACA2024UAH	MRACA2424UAH	MRACA2624UAH	MRACA2824UAH	MRACA3024UAH
	3-0	MRACA2030UAH	MRACA2430UAH	MRACA2630UAH	MRACA2830UAH	MRACA3030UAH
	3-5	MRACA2035UAH	MRACA2435UAH	MRACA2635UAH	MRACA2835UAH	MRACA3035UAH
	4-0	MRACA2040UAH	MRACA2440UAH	MRACA2640UAH	MRACA2840UAH	MRACA3040UAH
	4-5	MRACA2045UAH	MRACA2445UAH	MRACA2645UAH	MRACA2845UAH	MRACA3045UAH
	5-0	MRACA2050UAH	MRACA2450UAH	MRACA2650UAH	MRACA2850UAH	MRACA3050UAH
	5-5	MRACA2055UAH	MRACA2455UAH	MRACA2655UAH	MRACA2855UAH	MRACA3055UAH
6-0	MRACA2060UAH	MRACA2460UAH	MRACA2660UAH	MRACA2860UAH	MRACA3060UAH	
	Rough Opening	4'-9 3/4"	4'-10 1/4"	4'-11 3/4"	5'-0 1/4"	5'-1 1/8"
	Call Size	MRACA2040UAH	MRACA2440UAH	MRACA2640UAH	MRACA2840UAH	MRACA3040UAH
	4-5	MRACA2045UAH	MRACA2445UAH	MRACA2645UAH	MRACA2845UAH	MRACA3045UAH
	5-0	MRACA2050UAH	MRACA2450UAH	MRACA2650UAH	MRACA2850UAH	MRACA3050UAH
	5-5	MRACA2055UAH	MRACA2455UAH	MRACA2655UAH	MRACA2855UAH	MRACA3055UAH
	6-0	MRACA2060UAH	MRACA2460UAH	MRACA2660UAH	MRACA2860UAH	MRACA3060UAH

NOTE: Shaded units satisfy ICC egress requirements (20" clear opening width, 24" clear opening height and 5.7 sq ft or larger). Check with your local code official to confirm egress requirements in your area.