



# ALL ULTREX CASEMENT/AWNING

## UNIT FEATURES

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### FRAME AND SASH:

The frame and sash exteriors are made of Ultrex<sup>®</sup>, an advanced fiber reinforced material that is resistant to thermal conductance. Ultrex patented coating system meets all the requirements of AAMA 624-10. Exterior colors: Stone White, Pebble Gray, Bronze, Evergreen, Cashmere, or Ebony. The interior coating meets all the requirements of 00022716 in Stone White.

#### FRAME:

Composite frame thickness is 1 1/2" (38). Total frame depth is 3 3/32" (79). Ultrex is 0.070" – 0.077" (2) thick.

#### SASH:

Composite sash thickness is 15/16" (24). Ultrex is 0.070" – 0.077" (2) thick. Sashes can be replaced but not reglazed.

### JAMB EXTENSION:

Standard jamb depth is 2" (51). 4 9/16" (116) and 6 9/16" (167) maintenance free jamb extension available.

### HARDWARE (CASEMENT):

Standard Casement hardware includes top and bottom hinges. The hinge track is stainless steel with an injected molded hinge shoe. The hinge arm is coated with E-Gard. A snubber on the jamb and stile, certain heights have 0, 1 or 2 sets, interlock the sash to the frame on the hinge side. The locking hardware consists of a multi-point locking mechanism that is actuated from a single point of operation. The roto operator is Zinc die cast with an E-Gard coating. The hardware finish options are: Stone White, Almond Frost, Brass, Satin Nickel and Oil Rubbed Bronze. Optional factory applied Window Opening Control Device is available (min size: 18 9/16" (471) x 23 1/2" (597) – max size 35 1/2" (902) x 71 1/2" (1816). This device works in accordance to ASTM 2090-10 standard specification for window fall prevention devices with emergency escape. Available in almond frost and white finishes. Optional coastal hardware is available.

### HARDWARE (AWNING):

Standard Awning hardware includes left and right hinges. The hinge track is stainless steel with an injected molded hinge shoe. The hinge arm is coated with E-Gard. A single point lock on each jamb/stile, and a roto operator. The hardware finish options are: Stone White, Almond Frost, Brass, Satin Nickel, and Oil Rubbed Bronze. Optional coastal hardware is available.

### INSTALLATION:

Factory applied folding nailing fin. Optional installation brackets for masonry applications are available. Factory supplied field mull kits are available for standard assemblies.

### GLAZING:

All units are manufactured with a 11/16" (17) IG with Low E2, E3 or E1 coatings including argon gas fill. Tempered glass and/or obscure glass are available as an option. All glass is of a select quality complying with ASTM C 1036. Insulating glass is manufactured and tested to pass level ASTM E 2190 and is IGCC certified. The glazing seal is a silicone bedding on both interior and exterior surfaces utilized in a sandwich style sash. STC/OITC values are available for 3.1/3.1 standard glass. Optional 3.1/4.7 STC/OITC Upgrade glass is available. STC and OITC ratings are tested in accordance with ASTM E 90-09. See the Product Performance chapter for values.

### WEATHER STRIP:

The primary weather strip is a black extruded PVC foam filled bulb that attaches to all four sides of the frame. The secondary weather-strip is a black extruded PVC hollow that is attached to the sash.

### INSECT SCREEN:

Charcoal color fiberglass screen cloth. Rolled form aluminum frame finish is Stone White. Features a bottom rail lift and top rail mounted springs that allow it to be removed from the interior of the unit.

### GRILLES-BETWEEN-THE-GLASS:

11/16" (17mm) contoured aluminum bar placed between two panes of glass. Patterns: Standard rectangular pattern or optional 9 lite Prairie cut. Exterior color will match exterior of sash color. The interior finish is always Stone White. GBGs are not available on Impact units.

### ACCESSORIES:

Field applied j-channel, a 1" (25) or a 3" (76) frame expander, or flush fin installation kit. Factory applied: sheet rock return for 1/2" (13) or 5/8" (16) drywall, a 3/4" (19) receiver, a frame filler or a flush fin. General: mull kits are available for field assembly. Kits include instructions, mull covers, mull plugs and brackets.

### EXTERIOR CASING:

Non-integral to the unit. Fastened to the exterior wall with barb and kerf 2" (51) brick mould as a full surround or with sill nosing. 3 1/2" (89) flat casing available as full surround or with sill nosing. Also available with 1" (25) ranch style sill and header overhang.

**NOTE:** NFRC Values are now located on [www.integritywindows.com](http://www.integritywindows.com)

## SIZING GUIDELINES AND MEASUREMENT CONVERSIONS

**MULTIPLE ASSEMBLIES** – Factory Mull Configuration.

Mulls and Reinforced Mulls available.

Field mull kits are available. Mulling beyond limitations is not recommended.

**MAXIMUM ROUGH OPENING ASSEMBLY UP TO 6W1H:** 114" (2896) X 78" (1981)

**MAXIMUM ROUGH OPENING ASSEMBLY UP TO 5W5H :** 96" (2438) X 96" (2438)

**Packaged Terminal Air Conditioner (PTAC) Mulling** – Factory mullled below an Integrity Swinging Picture unit.

Mull options can not affect unit or RO size. Height of PTAC window frame will accommodate all PTAC sizes.

Standard PTAC height is 19 1/4" (489); standard PTAC width will match the upper unit width.

**MAXIMUM ROUGH OPENING ASSEMBLY UP TO 1W2H:** 72" (1829) X 96" (2438)

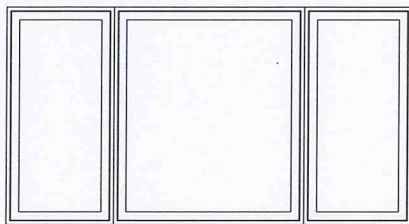
### CALCULATING TOTAL ROUGH OPENING FOR ASSEMBLIES

**WIDTH:** ADD Frame Widths + 1/2" (13) per mull + 1/2" (13).

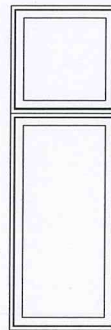
Tolerance = 1/4" (6) from frame to Rough Opening at left and right jamb.

**HEIGHT:** ADD Frame Heights + 1/2" (13) per mull + 1/2" (13).

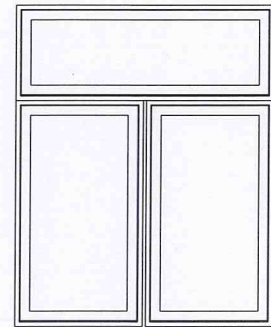
Tolerance = 1/2" (13) from Frame to Rough Opening at head jamb.



2 vertical mulls



1 horizontal mull










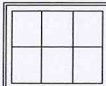







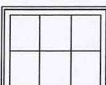
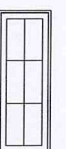

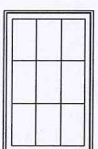
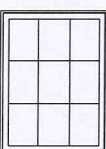



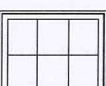



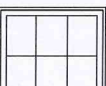



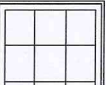



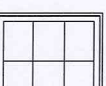
1 vertical mull  
1 horizontal mull

## MEASUREMENT CONVERSION FACTORS

Unit	WIDTH		HEIGHT	
	Imperial	Metric	Imperial	Metric
<b>Frame Measurements</b>				
Masonry Opening to Rough Opening	+ .000"	+ 0	+ .250"	+ 6
OM of Frame to Rough Opening	+ .500"	+ 13	+ .500"	+ 13
Glass Size to Rough Opening	+ 5.066"	+ 129	+ 5.066"	+ 129
Sash Opening to Rough Opening	+ 2.164"	+ 55	+ 2.164"	+ 55
<b>Sash</b>				
Glass Size to Sash Opening	+ 2.902"	+ 74	+ 2.902"	+ 74
Glass Size to OM of Sash	+ 2.590"	+ 66	+ 2.590"	+ 66
OM of Sash to Rough Opening	+ 2.476"	+ 63	+ 2.476"	+ 63
Glass Size to Daylight Opening	- 1.112"	- 28	- 1.112"	- 28
Rough Opening to Daylight Opening	- 6.178"	- 157	- 6.178"	- 157
<b>Screen</b>				
Rough Opening to OM of Screen	- 4.762"	- 121	- 5.169"	- 131
Glass Size to OM of Screen	+ .304"	+ 8	- .103"	- 3
Daylight Opening to OM of Screen	+ 1.416"	+ 36	+ 1.009"	+ 26



## ELEVATIONS – ALL ULTREX CASEMENT UNITS Not To Scale

Mas. Opg.	1-6 (457)	2-0 (610)	2-6 (762)	3-0 (914)
Hgh. Opg.	1-6 (457)	2-0 (610)	2-6 (762)	3-0 (914)
Frame Size	1-5 1/2 (445)	1-11 1/2 (597)	2-5 1/2 (749)	2-11 1/2 (902)
603 610 597				
1-11 3/4 2-0 1-11 1/2	IFCA1620	IFCA2020	IFCA2620	IFCA3020
756 762 749				
2-5 3/4 2-6 2-5 1/2	IFCA1626	IFCA2026	IFCA2626	IFCA3026
908 914 902				
2-11 3/4 3-0 2-11 1/2	IFCA1630	IFCA2030	IFCA2630	IFCA3030
1060 1067 1054				
3-5 3/4 3-6 3-5 1/2	IFCA1636	IFCA2036	IFCA2636	IFCA3036E
1213 1219 1207				
3-11 3/4 4-0 3-11 1/2	IFCA1640	IFCA2040	IFCA2640E	IFCA3040E
1365 1372 1359				
4-5 3/4 4-6 4-5 1/2	IFCA1646	IFCA2046	IFCA2646E	IFCA3046E
1518 1524 1511				
4-11 3/4 5-0 4-11 1/2	IFCA1650	IFCA2050	IFCA2650E	IFCA3050E
1670 1676 1664				
5-5 3/4 5-6 5-5 1/2	IFCA1656	IFCA2056	IFCA2656E	IFCA3056E
1822 1828 1816				
5-11 3/4 6-0 5-11 1/2	IFCA1660T	IFCA2060T	IFCA2660TE	IFCA3060TE

**NOTE:**

E=These windows meet National Egress Codes for fire evacuation. Local codes may differ.

T=Tempered glass is standard for this size.

Standard GBGs patterns shown in above units.  
Optional: Customer specified equal lite cut patterns are available. Units are available with or without GBGs.

Imperial and metric dimensions are shown. Metric dimensions are in millimeters.

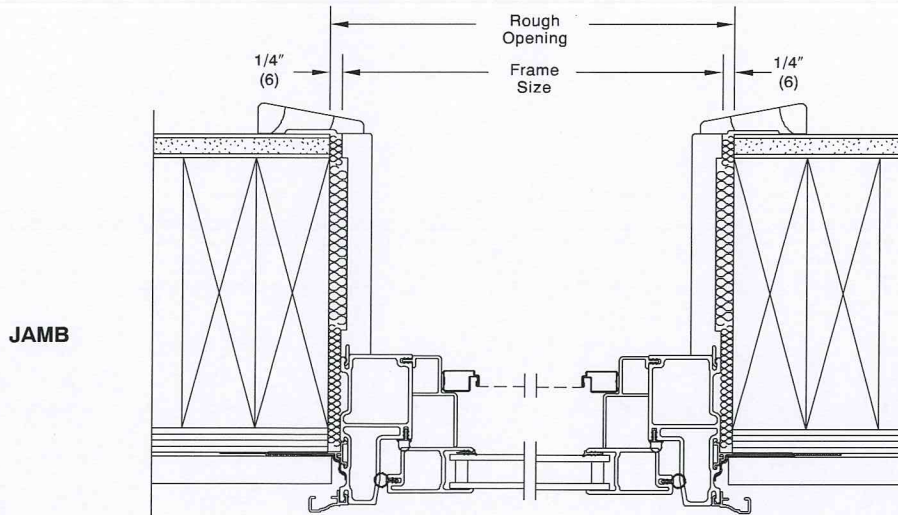
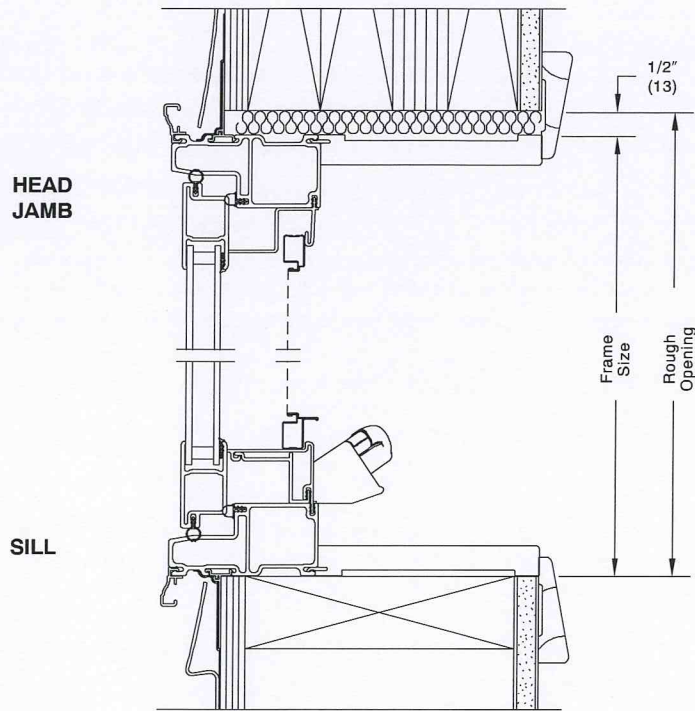
All units viewed from exterior.

**ELEVATIONS – ALL ULTREX PICTURE UNITS Not To Scale**

Mas. Opg.	1-6 (457)	2-0 (610)	2-6 (762)	3-0 (914)	3-6 (1067)	4-0 (1219)	5-0 (1524)	6-0 (1829)
Rgh. Opg.	1-6 (457)	2-0 (610)	2-6 (762)	3-0 (914)	3-6 (1067)	4-0 (1219)	5-0 (1524)	6-0 (1829)
Frame Size	1-5 1/2 (445)	1-11 1/2 (597)	2-5 1/2 (749)	2-11 1/2 (902)	3-5 1/2 (1054)	3-11 1/2 (1207)	4-11 1/2 (1511)	5-11 1/2 (1816)
1-11 3/4 (603)								
2-0 (610)								
1-11 1/2 (597)								
2-5 3/4 (756)								
2-6 (762)								
2-5 1/2 (749)								
2-11 3/4 (908)								
3-0 (914)								
2-11 1/2 (902)								
3-5 3/4 (1060)								
3-6 (1067)								
3-5 1/2 (1054)								
4-5 3/4 (1213)								
4-0 (1219)								
3-11 1/2 (1207)								
4-5 3/4 (1365)								
4-6 (1372)								
4-5 1/2 (1359)								
5-5 3/4 (1518)								
5-0 (1524)								
4-11 1/2 (1511)								
5-5 3/4 (1670)								
5-6 (1676)								
5-5 1/2 (1664)								
5-11 3/4 (1822)								
6-0 (1829)								
5-11 1/2 (1816)								



INSTALLATION SUGGESTIONS Scale 3" = 1' 0"



VINYL SIDING WITH 2X6 FRAME CONSTRUCTION

**NOTE:**

Shown with optional jamb extension and J-channels.  
Picture unit installation similar.

The above wall sections represent typical wall conditions, these details are not intended as installation instructions.  
Please refer to the installation instructions provided with the purchased units.