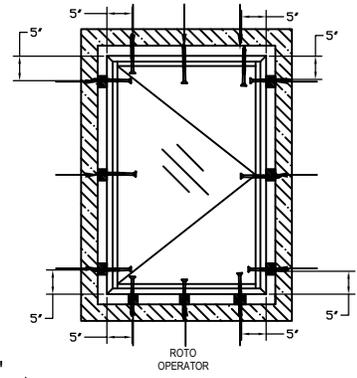


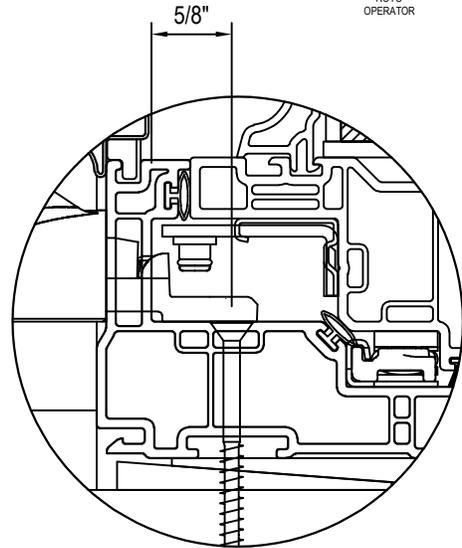
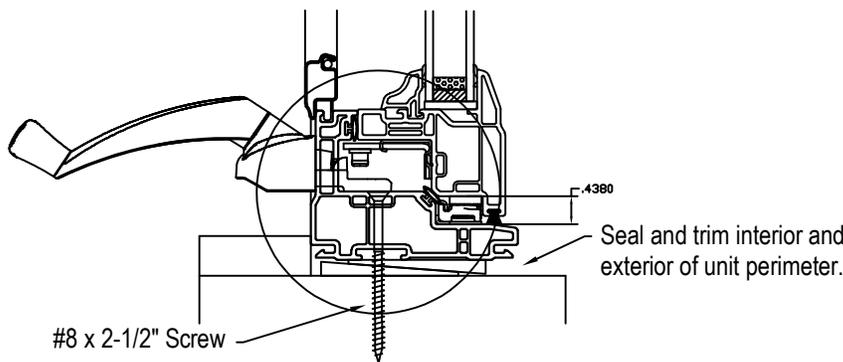
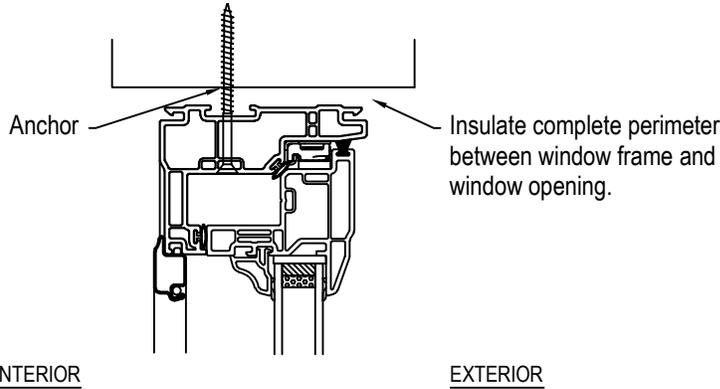
INSTALLATION INSTRUCTIONS

SERIES #1171 CASEMENT WINDOW

SHIMMING/ANCHOR LOCATIONS
DEPENDING ON UNIT SIZE



METHOD 1: SCREWING THROUGH THE FRAME



- 1.) Check rough opening to ensure that the window unit will fit. The rough opening should be 1/4" to 1/2" larger than the window, both horizontally and vertically.
- 2.) Center frame in opening so there is equal space between the jambs of the frame and the jambs of the rough opening.
- 3.) Shim sill so it is level and 1/8" to 1/4" off the sill plate. Shim placement should be 5" in from each corner and then at approximately 16" intervals around the window. Do not shim at the head and place additional shims at the sill below the roto operator.
Check: Shims should be firm but not tight enough to cause the jambs to bow. Shims at the head should be loose to ensure window operation as the house settles.
Check: level, plumb and squareness of frame and adjust shims if necessary
- 4.) Remove screen.
- 5.) Open sash fully. Install using suggested #8 x 2-1/2" screws at each of the sill location.
- 6.) Install using suggested #8 x 2-1/2" screws at the center of the head locations, add additional screws if needed.
Screw length is dependent upon frame structure, screw length must be of sufficient length to securely anchor unit in opening.
Screw position is 5/8" away from frame internal wall as shown above.
- 7.) Install screws at each of the side jamb shim locations.
- 8.) IMPORTANT: Seal screw heads in bottom of frame (sill) with silicone.
- 9.) Close sash and before locking, visually inspect the exterior of the window to ensure that the gap between frame and sash members remain constant. If operator fails to open, close or lock properly, verify sill and jambs are square using the measuring tape to cross measure corner to corner (square openings have equal cross measurements). The window can be readjusted by loosening the screws, leveling, shimming and re-tightening them as required.
- 10.) Install screen.
- 11.) Insulate between the window frame and the rough-opening, ensuring all voids are filled. Caution must be exercised not to over pack the insulation, causing unit frame to distort.
- 12.) Seal and trim window inside and out to suit application.

North star Windows and Doors warranty is only valid, if one of these two methods are followed.

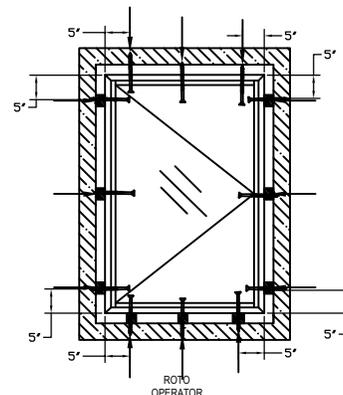


REVISION	BORDERS UPDATE	ND. 2	BY HA	DATE 11-21	DWG. NO. 1171-II0015-A	
TITLE				DIMENSIONS ARE IN INCHES.	DRAWN HA	DATE 04-21
CASEMENT WINDOW				SPECIFIED TOLERANCES:	CHECKED	DATE 04-21
SERIES #1171				DIM+0.050+/-0.008	APPROVED GS	DATE 04-21
UNIT ANCHORING LOCATION				0.051-0.100+/-0.010	SCALE 1:1	SIZE
CONFIDENTIAL The information contained in this document is strictly proprietary to North Star Windows and Doors may not be used in any way or for any purpose outside of the company without the express written consent.				0.101-0.125+/-0.015	plot 1:3	
				0.126-0.25+/-0.018		
				0.251-0.500+/-0.020		
				0.501-1.000+/-0.025		
				DIM>1.000+/-0.030		

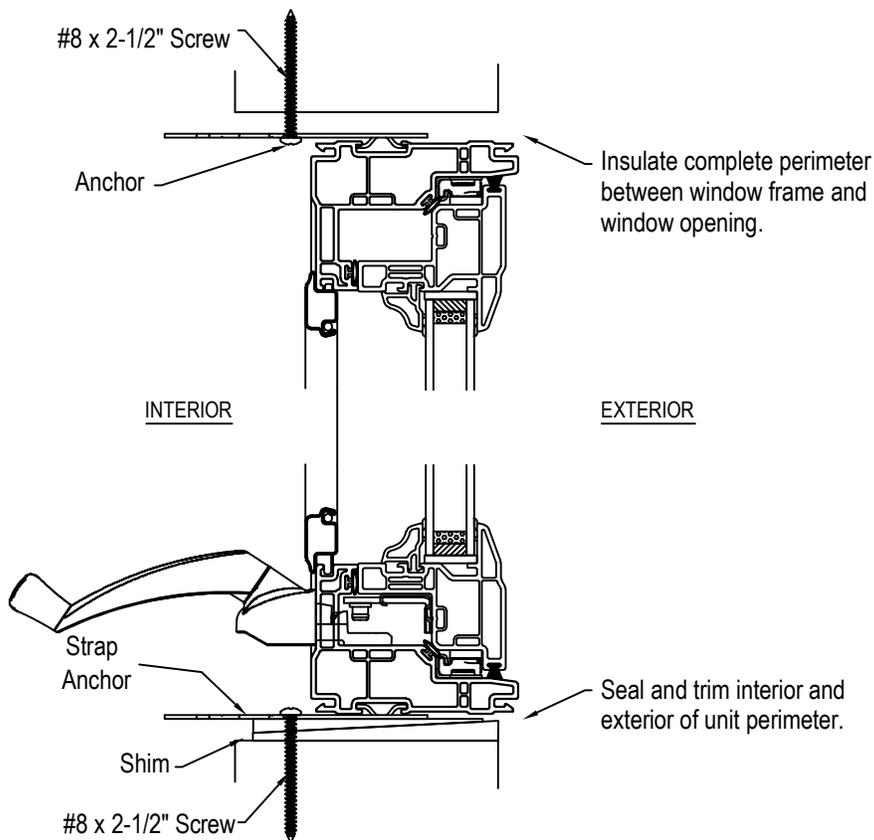
INSTALLATION INSTRUCTIONS

SERIES #1171 CASEMENT WINDOW

SHIMMING/ANCHOR LOCATIONS
DEPENDING ON UNIT SIZE

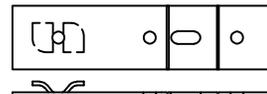


METHOD 2: USING A INSTALLATION CLIP/ ANCHOR



- 1.) Check rough opening to ensure that the window unit will fit. The rough opening should be 1/4" to 1/2" larger than the window, both horizontally and vertically.
 - 2.) Place the galvanized steel strap anchor clips 2" in from each corner and then at approximately 16" intervals around the window.
 - 3.) Center frame in opening so there is equal space between the jambs of the frame and the jambs of the rough opening.
 - 4.) Shim sill so it is level and 1/8" to 1/4" off the sill plate. Shim behind each clip location so that the window is level, plumb and square. DO not shim at the Head. Additional shims & clips at the sill must be place at the sill below the roto operator.
- Check: Shims should be firm but not tight enough to cause the jambs to bow.
 Check: level, plumb and squareness of frame and adjust shims if necessary
- 5.) Install using suggested #8 x 2-1/2" screws at each of these locations
 - 6.) Insulate between the window frame and the rough-opening, ensuring all voids are filled. Caution must be exercised not to over pack the insulation, causing unit frame to distort.
 - 7.) Seal and trim window inside and out to suit application.

Strap
Anchor



North star Windows and Doors warranty is only valid, if one of these two methods are followed.



REVISION	BORDERS UPDATE	ND. 2	BY HA	DATE 11-21	DWG. NO. 1171-II0015-B	
TITLE CASEMENT & AWNING WINDOW SERIES #1171 - INSTALLATION CLIP UNIT ANCHORING LOCATION				DIMENSIONS ARE IN INCHES. SPECIFIED TOLERANCES: DIM$-0.050;+/-0.008$ 0.051-0.100;+/-0.010 0.101-0.125;+/-0.015 0.126-0.25;+/-0.018 0.251-0.500;+/-0.020 0.501-1.000;+/-0.025 DIM>1.000;+/-0.030	DRAWN HA	DATE 04-21
CONFIDENTIAL The information contained in this document is strictly proprietary to North Star Windows and Doors may not be used in any way or for any purpose outside of the company without the express written consent.				CHECKED	DATE 04-21	
				APPROVED GS	DATE 04-21	
				SCALE 1:1 plot 1:3	SIZE	