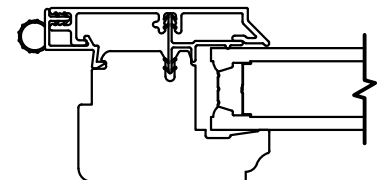
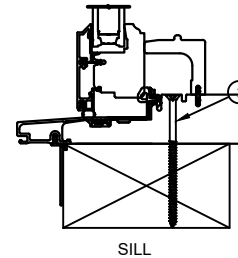
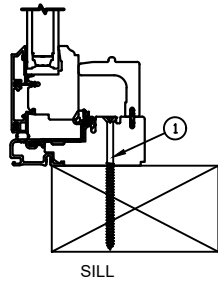


NOTE: Additional #8 x 3inch screws must be installed through each side of the Operator Base Hardware. This does not apply to Fixed Units.



JAMB SCREW INSTALLATION METHOD:  
 - UNIT MUST NOT BE IN DIRECT CONTACT WITH EITHER CONCRETE OR TREATED BUCK MATERIAL. IF SHIM SPACE IS LESS THAN 1/8" WRAPPING THE UNIT ON ALL 4 SIDES WITH WINDOW FLASHING TAPE IS REQUIRED AS A BARRIER BETWEEN THE UNIT AND CONCRETE OR TREATED LUMBER.  
 - MINIMUM OF 2 PER SIDE  
 - SECURE ALL SIDES WITH #8 X 3"SCREWS.  
 - SHIM AT EACH SCREW LOCATION.  
 - ALTERNATE SUBSTRATES ALSO APPLY PROVIDED SCREW SIZE IS EQUAL TO OR LARGER THAN A #8 SCREW.  
 - FOR DIRECT MOUNT TO CONCRETE 3/16" CONCRETE SCREWS MAY BE SUBSTITUTED FOR THE # 8 SCREWS; THE SCREW MUST BE FULLY SUPPORTED BY SHIM MATERIAL AND HAVE A MINIMUM EDGE DISTANCE OF 2" AND MINIMUM PENETRATION OF 1 1/2". MAXIMUM SHIM SPACE BETWEEN CONCRETE AND UNIT IS 3/4".

NARROW FRAME PRODUCT DETAILS

FULL FRAME PRODUCT DETAILS

GLASS COMPLIES WITH ASTM E1300 GLASS DETAIL

NOTES FOR ALL METHODS:  
 1. THIS PRINT IS FOR STRUCTURAL PERFORMANCE ONLY. FOR FLASHING & SEALING INSTRUCTIONS, REFER TO THE INSTALLATION INSTRUCTIONS.  
 2. SHIMS  
 -PLACE A SHIM WITHIN 4-6 INCHES OF EACH CORNER AND SPACE ALL OTHERS EVENLY A MAXIMUM OF 15" APART.  
 3. IF CHEMICALLY TREATED LUMBER IS USED FOR BUCK MATERIAL, FASTENERS INTO THE BUCK MUST BE A MINIMUM OF 0.90 OZ/FT<sup>2</sup> ZINC HOT DIPPED GALVANIZED OR STAINLESS STEEL TYPE 304 OR 316.

UNIT	MAX FRAME SIZE	DP RATING
UL CSMNT	36 X 102	+40/-40
UL CSMNT NF	36 X 102	+40/-40
UL CSMNT	40 X 96 1/8	+40/-40
UL CSMNT NF	40 X 96 1/8	+40/-40
UL CSMNT	44 X 71 1/8	+50/-50
UL CSMNT NF	44 X 71 1/8	+50/-50
UL CSMNT	44 X 91 1/8	+40/-40
UL CSMNT NF	44 X 91 1/8	+40/-40

ITEM NO	REF NO	DESCRIPTION
3	-----	WOOD BUCK BY OTHER
2	-----	SHIM
1	-----	#8 X 3.000 WOOD SCREW

UNSPECIFIED TOLERANCES	
DECIMALS: XX ± .03 XXX ± .012	ANGLE DEG: ± .5
LINEAL: + .125 - .000	FAB LINEAL: ± N/A
MATERIAL: N/A	

MARVIN <sup>®</sup> RESEARCH & DEVELOPMENT			
PRODUCT CATEGORY:	ULTIMATE CASEMENT		
UNIT TYPE:	UCANF, UCA		
DWG TYPE:	INSTALLATION		
DESCRIPTION:	INSTALLATION		
CHK:	SIZE: B	CLASS: MISC	DWG NO: 00100229
APP:	SCALE: NA	DATE: 04/20/16	DWG BY: BORNEMAN, SKIP
			SHEET: 1 OF 1

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