

WINDOW INSTALLATION INSTRUCTIONS



READ THESE INSTRUCTIONS COMPLETELY BEFORE STARTING ANY INSTALLATION. FAILURE TO INSTALL AND MAINTAIN OUR PRODUCT ACCORDING TO THESE INSTRUCTIONS MAY VOID ANY PRODUCT WARRANTY AND MAY ALSO LEAD TO PRODUCT FAILURE. THESE ARE GENERIC INSTRUCTIONS INTENDED TO COVER MOST COMMON SITUATIONS, WHICH MAY NOT BE APPROPRIATE FOR ALL INSTALLATIONS DUE TO BUILDING DESIGN, CONSTRUCTION MATERIALS, METHODS USED, OR BUILDING/SITE CONDITIONS. CONSULT A CONTRACTOR OR ARCHITECT FOR RECOMMENDATIONS.

**PLEASE VISIT OUR WEBSITE AT WWW.MGMINDUSTRIES.COM
OR CALL US AT 1-800-476-5584 FOR MORE INFORMATION.**

NOT FOLLOWING THESE INSTRUCTIONS COULD RESULT IN PRODUCT DAMAGE, INJURY, OR PROPERTY DAMAGE.

HANDLING:

- INSPECT UNITS UPON ARRIVAL. REPORT ISSUES TO YOUR MGM DISTRIBUTOR OR MGM.
- DO NOT CARRY OR LAY FLAT. STACK UNITS AS VERTICAL AS POSSIBLE TO AVOID BOWING.

TOOLS/MATERIALS REQUIRED: MEASURING TAPE, HAMMER, CORDLESS DRILL, PLASTIC SHIMS, LEVEL, FASTENERS (NAILS OR SCREWS), SILICONE (MEETING ASTM C920 TYPE S CLASS 25 PER NAFS)

SEQUENCE:

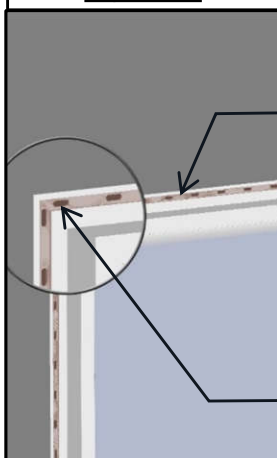
1. INSPECT ALL UNITS FOR ANY DAMAGE OR DEFECTS PRIOR TO INSTALLATION. CONTACT YOUR MGM DISTRIBUTOR OR MGM IF THERE ARE ANY PROBLEMS.
2. CHECK THE ROUGH OPENING SIZE (SEE FIGURE "A").
3. APPLY A 3/8" BEAD OF SILICONE AROUND THE INTERIOR PERIMETER OF THE NAILING FIN. SEAL ALL PRE-PROCESSED NAILING FIN HOLES. (SEE FIGURE "B"). IF A DECISION IS MADE BY OWNER/ARCHITECT TO USE A DISCONTINUOUS BEAD OF SILICONE ACROSS THE SILL NAIL FIN, MGM REQUIRES AN AIR DAM AT THE JOINT BETWEEN THE INTERIOR FACE OF THE WINDOW AND THE ROUGH OPENING AROUND THE ENTIRE PERIMETER (SEE FIGURE "C"). THE AIR DAM METHOD SHOULD NOT BE USED FOR PRODUCTS WITH JAMB EXTENSIONS.

Figure A:

ROUGH OPENING SIZES BELOW ARE COMPARED TO THE SIZE OF THE UNIT NOT INCLUDING SHIMS.

**4700: 3/4" WIDER AND 3/4" TALLER
5600: 5/8" WIDER AND 3/4" TALLER
6000: 1/2" WIDER AND 1/2" TALLER
7010: 1/2" WIDER AND 1/2" TALLER
8010: 5/8" WIDER AND 3/4" TALLER
8017: 5/8" WIDER AND 3/4" TALLER
8005: 1/2" WIDER AND 1/2" TALLER
9000: 1/2" WIDER AND 1/2" TALLER**

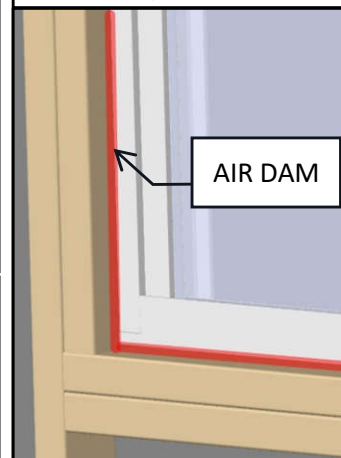
Figure B:



APPLY 3/8" BEAD OF SILICONE AROUND THE INTERIOR PERIMETER OF THE NAILING FIN

SEAL ALL PRE-PROCESSED NAILING FIN HOLES

Figure C:



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4. ENSURE THE JAMB/SILL NAIL FIN JOINT IS SEALED (SEE FIGURE "D").
5. SHUT AND LOCK THE WINDOW/DOOR AND PLACE IT IN THE CENTER OF THE ROUGH OPENING.
6. PLACE 1/4" SHIMS UNDERNEATH ALL VERTICAL LEGS (SEE FIGURE E). DO NOT SHIM THE CENTER SPAN OF THE WINDOW/DOOR. THIS WILL CAUSE THE WINDOW/DOOR TO CROWN AND OPERATE POORLY.
7. AFTER THE WINDOW/DOOR IS POSITIONED IN THE OPENING, INSTALL A FASTENER PARTIALLY THROUGH THE PRE-PUNCHED HOLE IN THE NAIL FIN IN THE TOP RIGHT CORNER. ENSURE THE WINDOW/DOOR IS PLUMB, LEVEL, AND SQUARE, THEN INSTALL A FASTENER IN THE TOP LEFT CORNER. ALWAYS SUPPORT WINDOW OR DOOR IN OPENING UNTIL FULLY FASTENED.
8. AFTER PRELIMINARILY FASTENING, CHECK THE OPERATION OF THE WINDOW/DOOR. ENSURE THE UNIT IS PLUMB, LEVEL, AND SQUARE, WITH AN EVEN REVEAL AROUND ALL SASH EDGES. PLACE A STRAIGHT EDGE ALONG BOTH JAMBS. IF THE FRAME IS BOWED AWAY FROM THE CENTER, SHIM THE JAMBS AS NEEDED TO RESTORE CONTACT AND ENSURE PROPER WEATHERSTRIP ENGAGEMENT WITH THE SASH(ES). THIS IS CRITICAL – SASHES WILL NOT WORK CORRECTLY IF THERE IS A BOW IN THE WINDOW.
9. AFTER FINAL INSPECTION, SECURE WINDOW/DOOR IN PLACE THROUGH PRE-PROCESSED NAIL FIN HOLES WITH FASTENERS PER LOCAL CODES BUT AT A MINIMUM FASTENER MUST ATTACH TO STRUCTURAL FRAMING MEMBER WITH 1.0" FASTENER EMBEDMENT INTO WOOD STUDS WITH A 7/16" HEAD IN EVERY OTHER SLOT. ENSURE BOTH HOLES CLOSEST TO THE CORNERS HAVE FASTENERS. TOENAILING WILL CAUSE THE JAMBS TO BOW AND WILL RESULT IN POOR OPERATION.
10. IF THE UNIT DOES NOT OPERATE CORRECTLY (FOR EXAMPLE: DOES NOT SHUT AND LOCK PROPERLY) AND YOU CANNOT FIGURE OUT THE PROBLEM, CEASE INSTALLATION AND CONTACT YOUR DISTRIBUTOR.
11. PERMENENTALLY TAPE THE NAILING FIN, OVERLAPPING THE BUILDING EXTERIOR SHEATHING WITH A CONSTRUCTION GRADE BUILDING TAPE. FLASHING TAPE MUST MEET ASTM-D779 PERFORMANCE REQUIREMENTS. NAILING FLANGES AND DRIP CAPS (INTEGRAL OR APPLIED) DO NOT TAKE THE PLACE OF WINDOW FLASHING. ALL WINDOWS AND DOORS MUST BE PROPERLY FLASHED AND SEALED WITH MATERIAL COMPATIBLE SEALANT FOR PROTECTION AGAINST WATER AND AIR INFILTRATION AROUND THE ENTIRE PERIMETER. FOLLOW INSTRUCTIONS OF FLASHING MANUFACTURERS REGARDING SAFETY, MATERIAL APPLICATION, COMPATIBILITY, AND PERIODIC MAINTENANCE FOR CONTINUED WEATHER RESISTANCE OF THEIR PRODUCTS.
12. ON THE INTERIOR, INSULATE AROUND THE PERIMETER OF THE WINDOW/DOOR. USE SINGLE COMPONENT AEROSOL EXPANDING POLYURETHANE FOAM INSULATION THAT MEETS AAMA 812. FOLLOW INSTRUCTIONS OF FOAM AND SEALANT MANUFACTURERS REGARDING SAFETY, MATERIAL APPLICATION, COMPATIBILITY, AND PERIODIC MAINTENANCE FOR CONTINUED WEATHER RESISTANCE OF THEIR PRODUCTS. DO NOT OVER STUFF AS THIS MAY CAUSE A BOW IN THE FRAME AND AFFECT OPERATION.
13. LEAVE A 1/4" EXPANSION JOINT WHEN INSTALLING THE EXTERIOR FAÇADE.

Figure D:

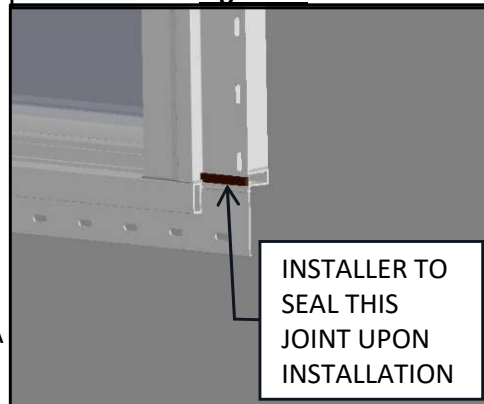
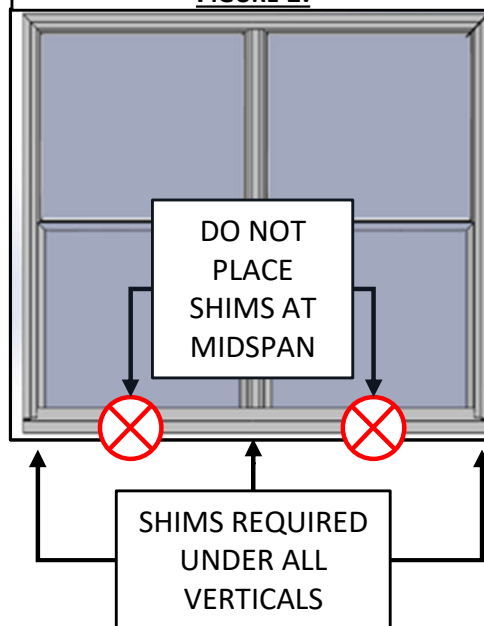


FIGURE E:



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CRITICAL ITEM CHECKLIST:

- ENSURE WINDOW IS PLUMB, LEVEL, AND SQUARE WITHOUT ANY RACKING.
- THE WINDOW SHOULD BE SHIMMED UNDER ALL VERTICAL LEGS.
- ON THE INTERIOR ROUGH OPENING: ENSURE PROPER SPACING SHOWN IN FIGURE "A" IS MAINTAINED FOR THERMAL EXPANSION WITHOUT COMPROMISING WEATHERSTRIP SEALS (SHIM AS NECESSARY).
- SILL AND JAMB NAILFINS MUST BE ADEQUATELY SEALED BY INSTALLER INCLUDING THE SILL/JAMB NAIL FIN JOINT.
- FASTENERS MUST BE THROUGH THE PRE-PUNCHED NAIL FIN HOLES AND DRIVEN STRAIGHT. DO NOT TOENAIL OR DRIVE FASTENERS AT AN ANGLE. DO NOT START FASTENING AT THE SILL. DO NOT OVERDRIVE SCREWS OR NAILS TO THE POINT OF PUNCTURE OR CRACKING.
- ENSURE WINDOW OPERATES FULLY AND CORRECTLY UPON INSTALLATION. IF YOU HAVE ISSUES WITH WINDOW/DOOR OPERATION, DO NOT ALLOW THE EXTERIOR OR INTERIOR SURFACES TO BE APPLIED. IF THE SURFACES ARE APPLIED WITH A POORLY INSTALLED WINDOW/DOOR, THE SURFACES WILL HAVE TO BE REMOVED TO ALLOW THE WINDOW/DOOR TO OPERATE CORRECTLY.
- EXTERIOR: LEAVE A 1/4" GAP BETWEEN THE FAÇADE AND WINDOW/DOOR FOR THERMAL EXPANSION. SEAL GAP BETWEEN WINDOW FRAME AND FAÇADE WITH SILICONE (USE BACKER ROD IF NEEDED). DO NOT ALLOW FAÇADE TO TOUCH THE FRAME.
- EXPOSING THE WINDOW/DOOR TO BUILDING (BRICK, SIDING, ETC.) CLEANERS WILL VOID THE WARRANTY. COVER THE EXTERIOR OF THE WINDOW/DOOR WHILE USING BUILDING CLEANERS. THESE CHEMICALS CAN DETERIORATE THE SEALANTS AND PVC OVER TIME.
- THE USE OF HARSH CHEMICALS (INCLUDING BUT NOT LIMITED TO: ACETONE, ALCOHOL, MINERAL SPIRITS, BLEACH, AMMONIA BASED SOLUTIONS, ETC.) WILL VOID THE WARRANTY AS THESE PRODUCTS MAY CAUSE IRREVERSIBLE DAMAGE.
- DO NOT ALTER THE PRODUCT IN ANY WAY UNLESS SPECIFICALLY STATED IN THESE INSTRUCTIONS.

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PRECAUTIONARY NOTES:

- ALL PACKAGING PRODUCTS (SHIPPING BLOCKS, PADS, ETC.) SHALL BE REMOVED UPON INSTALLATION OR WITHIN TWO WEEKS OF DELIVERY, WHICHEVER COMES FIRST.
- ALL APPLIED TAPES MUST BE REMOVED PRIOR TO THE TAPE MANUFACTURERS RECOMMENDED TIME PERIOD.
- METAL FASTENERS AND COMPONENTS COULD CORRODE WHEN USED WITH PRESERVATIVE-TREATED LUMBER. USE APPROVED FASTENERS AND COMPONENTS TO FASTEN WINDOW.
- MGM DOES NOT SUPPLY ANCHORAGE/FASTENER CALCULATIONS AND IS NOT RESPONSIBLE FOR DETERMINING STRUCTURAL ADEQUACY OF THE ANCHORAGE AND FASTENERS USED TO INSTALL OUR PRODUCTS, OR THE OPENINGS INTO WHICH THEY ARE INSTALLED. CONTACT THE SITE ENGINEER/ARCHITECT FOR ANCHORAGE/FASTENER CALCULATIONS .
- DO NOT STORE THE UNITS OUTSIDE, OR IN A HOT OR COLD ENVIRONMENT.
- DO NOT STACK VINYL PRODUCTS IN DIRECT SUN LIGHT.
- NEVER STACK WINDOWS MORE THAN 20 DEEP.
- STACK WINDOWS AS CLOSE TO VERTICAL AS POSSIBLE, BUT IN NO CASE SHALL THE LEAN BE IN EXCESS OF 10 DEGREES.
- NEVER PLACE THE WINDOWS ON TOP OF RUNNERS.
- DO NOT ALLOW MORTAR TO SET UP ON PAINTED OR CAPSTOCK WINDOWS AND DOORS. REMOVE MORTAR WITH MILD SOAP AND SOFT BRISTLE BRUSH.
- LIVE OR DEAD LOADS TRANSFERRED INTO OUR PRODUCT CAN AFFECT FUNCTIONALITY, DAMAGE FRAME JOINERY OR CAUSE GLASS FAILURES. DEAD LOADS SUCH AS UPPER LEVELS, ROOF, ETC. SHOULD BE CONSTRUCTED BEFORE WINDOW OR DOOR IS INSTALLED.
- ONLY USE AAMA APPROVED MINIMAL EXPANDABLE FOAM INSULATION BETWEEN WINDOW/DOOR AND ROUGH OPENING. THE PRODUCT MUST MEET THE LATEST UPDATE TO AAMA STANDARD 812.
- DO NOT POWER WASH WINDOWS AND DOORS.
- WINDOWS AND DOORS HAVE SMALL PARTS AND PACKAGING. SMALL PARTS/PACKAGING IF SWALLOWED COULD POSE A CHOKING HAZARD TO YOUNG CHILDREN. DISPOSE OF UNUSED, LOOSE, OR EASILY REMOVED SMALL PARTS. FAILURE TO DO SO COULD RESULT IN INJURY.
- ALL RADIUS JAMB EXTENSIONS MUST BE SANDED PRIOR TO BEING PAINTED.

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SASH, DOOR PANEL, AND DOOR SCREEN REMOVAL INSTRUCTIONS:

OPEN THE SASH 8" OR MORE. PULL BOTH TILT LATCHES TOWARD THE CENTER OF THE WINDOW. TILT THE SASH INWARD UNTIL IT IS PARALLEL TO THE FLOOR. LIFT ONE CORNER OUT OF BALANCE SHOE. LIFT THE OTHER CORNER OUT OF THE BALANCE SHOE.

8005 PATIO DOOR FIXED PANEL, FROM THE INTERIOR REMOVE THE FASTENERS LOCATED AT THE HEAD AND DOWN THE ADJACENT JAMB, FASTENERS ARE EMBEDDED IN THE WEATHER-STRIPPING. SLIDE THE FIXED PANEL TO THE MIDDLE OF THE DOOR. FROM THE EXTERIOR FIRMLY GRASP BOTH SIDES OF PANEL AND LIFT IT UP INTO THE HEAD FRAME. PULL THE BOTTOM OF THE PANEL TOWARD YOU AND LOWER OUT OF THE HEAD FRAME.

8005 PATIO DOOR OPERATING PANEL, SLIDE IT OPEN ABOUT 12". TURN THE WHEEL CARRIAGE ADJUSTMENT SCREW COUNTER CLOCKWISE TO LOWER THE PANEL COMPLETELY. DO NOT USE POWER TOOLS, ONLY USE HAND TOOLS. FROM THE EXTERIOR FIRMLY GRASP BOTH SIDES OF PANEL AND LIFT IT UP INTO THE HEAD FRAME. PULL THE BOTTOM OF THE PANEL TOWARD YOU AND LOWER OUT OF THE HEAD FRAME.

9000 PATIO DOOR OPERATING PANEL SLIDE IT OPEN ABOUT 12". TURN THE WHEEL CARRIAGE ADJUSTMENT SCREW COUNTER CLOCKWISE TO LOWER THE PANEL COMPLETELY. DO NOT USE POWER TOOLS, ONLY USE HAND TOOLS. FROM THE INTERIOR FIRMLY GRASP BOTH SIDES OF PANEL AND LIFT IT UP INTO THE HEAD FRAME. PULL THE BOTTOM OF THE PANEL TOWARD YOU AND LOWER OUT OF THE HEAD FRAME.

PATIO DOOR SCREENS. SLIDE IT OPEN ABOUT 12". TURN THE WHEEL CARRIAGE ADJUSTMENT SCREW COUNTER CLOCKWISE TO LOWER THE PANEL COMPLETELY. GRASP BOTH SIDES OF SCREEN AND LIFT IT UP INTO THE HEAD FRAME. PULL THE BOTTOM OF THE PANEL TOWARD YOU AND LOWER OUT OF THE HEAD FRAME.

REVERSE THE PROCESS TO REINSTALL.

LEAD PAINT REMOVAL: BUILDINGS CONSTRUCTED PRIOR TO 1978 COULD CONTAIN LEAD PAINT WHICH COULD BE DISTURBED DURING WINDOW OR DOOR REPLACEMENT. FOR MORE INFORMATION ON PROPER MANAGEMENT OF LEAD PAINT, GO TO: WWW.EPA.GOV/LEAD.

REFERENCE: ASTM E2112 STANDARD PRACTICE FOR INSTALLATION OF EXTERIOR WINDOWS, DOORS AND SKYLIGHTS

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