

IMPORTANT SAFETY AND PRODUCT INFORMATION – TONYVIEW INSTALLATION

⚠ WARNING: Failure to follow these instructions may result in severe property damage, personal injury, or voiding of your warranty. It is essential to ensure that all work complies with the latest International Building Code (IBC), International Residential Code (IRC), and any state or local amendments.

Environmental & Safety Notice

- **Lead Paint Alert:** Buildings constructed before 1978 may contain lead-based paint. Removing old windows may disturb lead paint, creating hazardous dust. Follow EPA's Lead Renovation, Repair, and Painting (RRP) Rule guidelines. Consult local regulations and refer to www.epa.gov/lead for safe practices.
 - **Asbestos Caution:** Prior to retrofitting or remodeling, asbestos testing should occur.
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Critical Installation Guidance

- **Weatherproofing:** Proper moisture management is crucial. Ensure flashing and sealing systems prevent water infiltration. Always install per manufacturers requirements.
 - **Structural Integrity:** Verify all substrates are level, plumb, and structurally sound. Ensure headers and supporting structures meet load-bearing requirements and allow for thermal expansion.
 - **Product Compatibility:** This window system is designed for use in water-managed wall systems only. Do not install barrier systems like EIFS (Exterior Insulation and Finish Systems) without additional approved moisture management measures.
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Maintenance & Care

- Clean frames and glass with mild soap and water. Avoid abrasive materials or harsh chemicals that may damage finishes.
 - For aluminum-clad or factory-finished products, do not use solvents like toluene, xylene, or mineral spirits.
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Local Compliance Requirements

TonyView is a structural installation to your building. As such, you must comply with all Local, State and Federal Building Code Requirements for the placement of a structural member in your building.

Installation by licensed professionals is strongly recommended. Failure to comply with these instructions and/or local building codes may result in serious risks, liability issues, and warranty nullification.

For further assistance, contact (858) 875-5087.

Tools & Materials Needed:

Preparation and Demolition:

1. **Level Substrate:** Ensure the concrete or wood substrate is level. Use high-performance concrete fill or grinding if necessary.
2. **Remove Adjacent Openings:**
 - For adjacent doors/windows, remove them.
 - For adjacent blank walls, strip back framing to expose a minimum of 32 inches of the corner.
3. **Shore Existing Headers:**
 - Shore each header and jack it up an additional ¼" at the TV corner end.
 - If there's a point load (where there is no supporting header) within 32 inches, shore it from below but keep at least 16 inches from the corner to avoid interference.
4. **Plaster Removal (If Applicable):** Remove plaster from the bottom of the top plate above. Drywall may be left but could crack during work.
5. **Protect Area:** Shield openings from weather and vandalism and cover flooring. Consult professionals if electrical, plumbing, or mechanical systems need adjustments.
6. **Remove Framed Corner:** Remove the existing corner framing and secure the area until the TonyView unit is installed.

Framing Considerations:

7. **Header Fit:**
 - Existing headers must be within 1" of the new TonyView posts.
 - For new headers, extend them completely to the corner, cutting them at a 45-degree angle for proper joining.
8. **Framing Adjacent Walls:**
 - For fully framed walls, install a new header block section (minimum 32 inches) with a 45-degree cut to join adjacent headers.
 - Maintain a ¼" gap between the last stud and the TonyView rough opening.
9. **Rough Opening Dimensions:** Measure from the TonyView post to the end of the adjacent framing. Ensure a ¼"-½" gap at the TV side of the opening for flange clearance.
10. **Block Fill for Short Headers:**
 - Install clear, knot-free blocks between the corner and existing headers. Blocks must be joined with 45-degree cuts and fill the space completely. Pre-drill block for fastener installation.

REMODELING/ RETROFIT TONYVIEW INSTALLATION UTILIZING EXISTING IN-PLACE HEADERS (CONTINUED)

Installation:

1. Check Header Height:

- Existing headers should be ¼" higher than the TonyView.
- Trim headers up to ½" if necessary or shim under the existing header for final installation. Only trim header at the TV structural cap.

2. Template for Fasteners:

- Use the provided template to mark drilling points for concrete fasteners. Drill holes per manufacturers requirements.
- Ensure the corner point aligns with the headers above and the template is squared. Do not install fasteners yet.

3. Frame Floor Substrate Support:

- Solid block the corner frame floor assembly (minimum 3 inches deep and 16 inches in each direction).
- For wood framing, pre-drilling is required.

4. Install Stainless Steel Sill Shoe:

- Clean the substrate and apply a continuous sealant layer.
- Press the sill shoe into place with a 2x4 and at least 20 lbs. of pressure. Allow sealant to set.

5. Install Structural L Bracket:

- Tack the bracket to the headers. Measure and install shims as needed to account for header lifting.
- Tack the Header Back Plate in place and mark holes for drilling. Drill and install bolts loosely.

6. Place TonyView Unit:

- Slide the unit into position from outside. Insert thermal shims (sized to height) between the TV Frame and Structural L Bracket.
- Align the unit and plumb it in place.

7. Secure Sill Plate: Install fasteners through the TV Sill Plate into concrete or wood framing. Do not fully tighten fasteners.

8. Secure Brackets:

- Install vertical screws through the TonyView Upper Head Plate into the Structural L Bracket. Only loosely tighten.
- Verify that the TV Unit is Plumb and level. Slowly release shoring to load 20% of the weight onto the unit. Reverify Plumb and level and tighten all fasteners and bolts. To approximately 50%. Increase load onto the TV Unit to about 80% and tighten all fasteners securely. Drop the

shoring and fully load the TV Unit; check all fasteners to
verify final tightening.

WATERPROOFING YOUR TONYVIEW INSTALLATION

Waterproofing your TonyView is the same whether it's being installed in new construction, a retrofit, or a remodeling project. The following step-by-step guide outlines the proper waterproofing and flashing procedures. Please refer to the illustrations for additional detail.

⚠ Important: Failure to follow the procedures described here will void the TonyView warranty for exterior water intrusion. For best results, we strongly recommend that a qualified professional perform the waterproofing installation.

TonyView installs much like a high-performance window or door system. As with most building waterproofing, the process begins at the bottom of the assembly and works upward.

1. Install the Pan Flashing

- The pan flashing installation is covered in the main section of the TonyView Installation Guide and applies to both new construction and retrofit projects. This step is required for warranty coverage.
 - **Foundation-level installations:** If the TonyView is installed directly on a concrete foundation or curb with no finishes or waterproofing below, the pan flashing installation is complete once set.
 - **Above-grade installations:**
 - Before installing the pan flashing, apply a 6" SAM (self-adhered membrane) sheet under the lip of the pan flashing.
 - The pan flashing must overlap the SAM so that the lower leg of the flashing sits on top of the SAM.
 - Do not adhere the SAM directly to the framing. The primary building waterproofing membrane must be tucked beneath the SAM.
 - Before setting the pan flashing over the SAM, apply **two continuous beads of sealant** between the SAM and the flashing.
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2. Flash the Vertical Posts

There are two ordering options for TonyView vertical posts:

1. **Without flashing fins** (most common).
2. **With integrated flashing fins.**

Without Fins

- Typically used when mating the TonyView to an adjacent window or door that already has a flashing fin.
- Apply two beads of sealant to the TonyView cassette before overlapping the adjacent unit's fin.
- The adjacent fin must lap over the plastic bottom fin of the TonyView sill.
- Fully seal this intersection with caulk, then fasten the adjacent fin to the TonyView per the illustrated screw schedule.

With Fins

- When ordered with fins, apply a 6" SAM sheet to the vertical framing member before installing the TonyView.
 - Extend the SAM over the sill pan flashing and at least 6" past the unit, tying into any existing or new building membrane.
 - The top edge of the SAM must extend at least 6" above the TonyView, beneath the building membrane.
 - Apply two beads of sealant to the SAM before positioning the TonyView against it.
 - Once in place, secure the fin to the vertical framing per the illustration.
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WEATHERPROOFING YOUR TONYVIEW INSTALLATION (CONTINUED)

3. Flash the Head (Top)

- TonyView units include a factory-applied flashing fin at the head. As with typical windows, **no building membrane should be installed underneath this top fin.**
 - After the unit is secured, ensure the vertical SAM pieces installed on the posts extend approximately 6" below the head of the unit.
 - Install a horizontal length of SAM that bridges from one vertical SAM edge to the other, lapping over the head fin.
 - This horizontal SAM must be integrated beneath the building's weather barrier and fully sealed to the TonyView head fin.
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4. Complete the Waterproofing Membrane

- At this stage, SAM should fully surround the perimeter of the TonyView.
- Starting at the sill, tuck the building's primary membrane under the loose lower edge of the sill SAM. Seal thoroughly with caulk.
- Apply full-length vertical SAM strips from sill to head. Seal the edge directly to the nailing flange.
- Lap the building membrane over the vertical SAM and seal again with caulk.

5. Final Top Finish

- After exterior trim is installed, place a **water table or Z-bar flashing** over the top horizontal trim.
 - Seal this counterflashing directly to the horizontal SAM.
 - Lap the primary building membrane over the vertical leg of the Z-bar, sealing it in place.
 - Secure the assembly with neoprene-washed screws through the cassette screw line.
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With these steps complete, your TonyView installation will be fully integrated with the building's weather barrier system, maintaining both performance and warranty coverage.

New Construction/ New Header TonyView Installation

Floor and Frame Preparation:

1. **Level Substrate:** Ensure the concrete or substrate is flat and level.
 2. **Frame Support:** Solid block the floor corner frame assembly (minimum 3 inches deep and 16 inches in each direction).
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Framing Considerations:

1. **Header Placement:** Headers must meet at a 45-degree mitered angle at the corner.
 2. **Alignment:** Ensure the corner is plumb within ¼" in all directions. Use a TonyView unit for alignment before final fastening headers.
 3. **Avoid Point Loads:** Do not create or drop heavy point loads over the TV Unit.
 4. **Shear Resistance:** Ensure shear elements are installed on the wall planes adjacent to the TV Unit. Please note the TV Unit is not designed to resist shear. Placing the TV Unit under any shear condition(s) will void the warranty.
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Installation:

1. **Locate Corner Points:** Verify corner point and wall plane lines using a plumb line.
2. **Drill for Floor Fasteners:** Use the template to mark and drill holes in concrete or wood framing. Do not install fasteners yet.
3. **Install Stainless Steel Sill Shoe:** Follow the same procedure as in the remodeling section.
4. **Header Preparation:** Drill clearance holes in the headers for vertical fasteners prior to installation (on the ground).
5. **Set TonyView Unit:**
 - Assemble and position the unit using the supplied thermal shims for adjustment (if necessary).
 - Install the new headers onto the TV Unit.
 - Secure the TV Unit temporarily by tack-nailing the headers and fastening the sill plate to concrete or wood.
 - Plumb the unit in all directions before final tightening.
 - Note: Never let the TV Unit go unbraced once the floor fasteners have been installed. The TV Unit must remain vertically plumbed and erect prior to the headers being laced upon the TV Unit. Never 'rack' the TV Unit under any conditions, this will potentially void your warranty.
6. **Secure Headers:**
 - Tack the Header Back Plate opposite the Structural L Bracket.

New Construction/ New Header TonyView Installation (Continued)

- Drill and install bolts and nuts, tightening them loosely.
- Completely tighten the floor fasteners. Then completely tighten the TV Unit to the TV L bracket (if the spacer was replaced). Then completely tighten the L Bracket and Back Plate bolts.

Final Steps:

- Keep protective material on the TonyView unit during construction.
- Ensure all fasteners are tightened to specifications.
- Remove all bracing and verify alignment.

Congratulations! Your TonyView unit is now installed.

For detailed information on structural, thermal and testing data, please visit www.tonyviewtm.com or scan below for direct links:

Structural

Thermal

ICC-ES

Troubleshooting:

Question: What should I do if the existing header is not level or is slightly misaligned with the rough opening?

Answer: Use a laser level or long level to identify the high and low points of the header. Shim the low side using high-performance shims, ensuring they are positioned securely under the header. If the header is too low overall, you may trim up to ½ inch from the bottom of the header. Ensure that any modifications do not compromise structural integrity. Recheck for level before proceeding with the installation of the TonyView unit.

Question: How can I ensure that the TonyView unit is plumb and square within the opening before fastening?

Answer: Use a plumb bob or laser level to verify vertical alignment on both sides of the unit. Measure the diagonal distances across the opening (corner-to-corner) to ensure they are equal. Make necessary adjustments using shims beneath the unit or at the sides. Once plumb and square, temporarily tack the unit in place with nails or clamps before securing it permanently.