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.

Critical Installation Guidance

- **Weatherproofing**: Proper moisture management is crucial. Ensure flashing and sealing systems prevent water infiltration. Always install per manufacturer's 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.

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.

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.

Preparation and Demolition:

1. **Level Substrate:** Ensure the concrete or wood substrate is level. Use high-performance concrete fill or grinding if necessary for a flat and level surface.
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:**

    (Note: Method of shoring needs to be provided by a professional)

    - Shore each header and jack it up an additional ¼" at the TonyView corner end.
    - If there's a point load (where there is no supporting header) within 32 inches of building corner, 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 bear over the new TonyView posts. Which is approximately 10" from building corner.
    - 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 the adjacent header.
    - Maintain a minimum 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 TonyView side of the opening for flange clearance.

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

10. **Block Fill for Short Headers to Corner:**
    - TonyView can be supplied with an open-corner metal box within the L-Bracket assembly to fill the space from the existing header to corner.

Installation:

1. **Check Header Height:**
    - Existing headers should be ¼" higher than the bottom of the L-Bracket.
    - Trim headers up to ½" at the L-Bracket if necessary or shim under the existing header for final installation. Only trim header at the TonyView 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: (Under TonyView)**
    - Solid 4x block the corner frame floor assembly (minimum 3 ½" deep and 16" in each direction).
    - For wood framing, pre-drilling is required.
4. **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.
5. **Place TonyView Unit:**
    - Slide the unit into position from outside. Insert thermal shims (sized to height) between the TonyView Frame and Structural L-Bracket.
    - **Note:** Your TonyView is sized for standard installation height of 6'8" and 8'0" openings. You can adjust the rough opening height by the insertion of additional thermal shims.
    - Align the unit and plumb it in place.
6. **Secure Sill Plate:** Install fasteners through the TonyView Sill Plate into concrete or wood framing. Do not fully tighten fasteners.

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

7. **Secure Brackets:**

   - Install the structural L-Bracket including the thermal spacer onto the TonyView upper head plate. Only loosely tighten.
   - Verify that the TV Unit is Plumb and level. Slowly release shoring to load 5% of the weight onto the unit. Re-verify plumb and level and tighten all fasteners and bolts to approximately 50%. Increase load onto the TonyView unit to about 80% and tighten all fasteners securely. Drop the shoring and fully load the TonyView unit; check all fasteners to verify final tightening.

New Construction/ New Header TonyView Installation

Floor and Frame Preparation:

1. **Level Substrate:** Ensure the concrete or substrate is flat and level. Use high performance concrete fill or grind concrete as required for a flat and level surface.
2. **Frame Support:** Solid 4x block the floor corner frame assembly (minimum 3 ½" deep and 16" in each direction).

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 TonyView unit until unit is completely installed.
4. **Shear Resistance:** Ensure shear elements are installed on the wall planes adjacent to the TonyView unit. Please note the TonyView unit is not designed to resist shear. Placing the TonyView unit under any shear condition(s) will void the warranty.

Installation:

1. **Locate Corner Points:** Verify corner point and wall plane lines using a plumb line or similar.
2. **Drill for Floor Fasteners:** Use the template to mark and drill holes in concrete or wood framing. Do not install fasteners yet.
3. **Set TonyView Unit:**
    - Assemble and position the unit using the supplied thermal shims for adjustment (if necessary). See #5 in remodeling section.
    - Install the new headers onto the TonyView unit.
    - Secure the TonyView unit temporarily by tack-nailing the headers and fastening the TonyView sill plate to concrete or wood.
    - Plumb the unit in all directions before final tightening.
    - Note: Never let the TonyView unit go unbraced once the floor fasteners have been installed. The TonyView unit must remain vertically plumbed and erect prior to the headers being placed upon the TonyView unit. Never 'rack' the TonyView unit under any conditions, this will potentially void your warranty.

4. **Secure Headers:**
    - Tack the L-Bracket Back Plate opposite the Structural L-Bracket.
    - Drill and install bolts and nuts, tightening them loosely.
    - Completely tighten the floor fasteners. Then completely tighten the TonyView 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.

WATERPROOFING YOUR TONYVIEW INSTALLATION

⚠️ **IMPORTANT:** Proper integration of the TonyView system into the building's waterproofing envelope is the responsibility of the purchaser. While TonyView provides general guidance for flashing the unit into the building envelope, TonyView warrants only the waterproof integrity of the window itself, consistent with standard window manufacturer practices. Installation of the building's waterproofing system should be performed by qualified professionals experienced in integrating windows and doors into exterior wall assemblies. TonyView's flashing guidance is intended as a reference and may require modification to suit specific project conditions. TonyView cannot anticipate all site-specific conditions, and responsibility for proper integration rests with the purchaser. As a conventional window system, TonyView integrates into standard building envelopes using well-established flashing and waterproofing methods commonly understood by qualified professionals.

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.

TonyView installs 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.

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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, caulk the flashing fin onto the concrete face.
- **Above-grade or wood framed installations:**
    - The primary building waterproofing membrane must be tucked behind the SAM. This means the primary building waterproof membrane must be applied first before the SAM.
    - Before installing the TonyView, apply a 6" SAM (self-adhered membrane) sheet under the lip of the window fin.
    - The window fin must overlap the SAM so that the window fin of the TonyView applies to the SAM set in sealant.

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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 vertical window fin must lap over the pvc bottom fin of the TonyView sill and over the top pvc fin at the TonyView head.

- Fully seal this intersection with caulk, then fasten the adjacent fin to the TonyView per the illustrated screw schedule and screw placement line. These properly sized screws must be installed on the installation line, or you will puncture the TonyView cassette and leaks will occur.

With Fins

- When ordered with fins, apply a 6" SAM sheet to the vertical framing member before installing the TonyView.
- Extend a full length of the SAM over the framing and at least 6" past the top and bottom of the TonyView nailing fins.
- The top edge of the SAM must extend at least 6" above the TonyView and beneath any 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. You may fasten it off in the nailing zone of the TonyView Fin.

3. Install the TonyView into Position (see previous instructions)

4. 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.**
- Before the unit is secured, ensure the vertical SAM pieces installed on the posts extend approximately 6" above the head of the unit and below the bottom sill fin.
- After the TonyView is set, install a horizontal length of SAM that bridges from one vertical SAM edge to the other, lapping over the head fin. Caulk SAM to TonyView fin with 2 beds of caulking.

5. 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 another full-length vertical SAM strip from sill to head. Seal the edge directly to the nailing flange.
- Lap the primary building membrane over the vertical SAM and seal again with caulk.

6. Final Top Finish

- After exterior trim is installed, place a **water table or Z-bar flashing** over the top horizontal trim.
- Lap another layer of primary building membrane over the vertical leg of the Z-bar, sealing it in place. Properly shingle all primary building waterproofing from bottom to top.
- Secure the assembly with neoprene-washered screws through the TonyView shim screw line.

With these steps complete, your TonyView installation will be fully integrated with the building's weather barrier system, maintaining both performance and warranty coverage.

TONYVIEW EXTERIOR TRIM INSTALLATION

Exterior and Interior Trim Applications

All TonyView units are supplied with pre-cut, properly sized trim components for both exterior and interior applications.

Exterior Trim Installation

Each TonyView unit includes six exterior trim pieces:

- Two long vertical trims
- Four shorter trims for the top and bottom

Trim System Description

The TonyView exterior trim system utilizes a PVC exterior cassette mounted to the window frame. This cassette incorporates a continuous ball-mount receiver, allowing the exterior trim to snap into place. The ball-mount design enables the installer to adjust (toggle) the trim to align with surrounding exterior surfaces.

Each exterior trim profile includes two different return depths:

- The thinner return installs over the glass
- The thicker return faces outward toward the exterior wall assembly

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Installation Steps

1. Snap each trim piece into the ball-mount receiver on the TonyView cassette in any order.
2. Once all trim pieces are installed around the perimeter, adjust (toggle) the trims so they lie flat and create a uniform reveal from the glass.
3. Align the trims as needed to meet adjacent exterior substrates. The adjustable feature is intended to simplify alignment without forcing the trim into position.
4. Ensure a consistent caulk joint of approximately ¼” between the trim and the glass. This joint is critical to performance.
5. Apply sealant between the outboard face of the trim and the adjacent building material, also maintaining a joint depth of approximately ¼”.
6. After the primary perimeter joints are sealed, apply a thin bead of sealant at the trim miter joints to complete the installation.

General Sealant Note

All sealant joints must be applied to **clean, dry surfaces free of dust and debris**. Follow the sealant manufacturer’s instructions for proper application and curing.

Interior Trim Installation

Each TonyView unit includes **six interior trim pieces**:

- Two long vertical trims
- Four shorter trims for the top and bottom

Vertical Trim Installation

1. Install the two long vertical trims first.
2. Thoroughly clean the two sides of the steel post that will receive the trims. Surfaces must be **clean, dry, and free of dust or debris**.
3. Apply adhesive sealant sparingly. The sealant must compress flat to allow the trim to seat properly.
    - Recommended application: small dots of sealant approximately **6 inches apart**, staggered vertically:
        - Two rows on the 3-inch face
        - One row on the 2-inch face
4. Press the vertical trims firmly into place, ensuring they lie flat against the post.

Note: Minimal sealant is required for proper adhesion. Excess sealant may prevent the trim from seating correctly.

Important Installation Note

The interior trim system is designed with small gaps between pieces for ease of installation. Because the sealant remains workable for a limited time, **all six interior trim pieces should be installed in one continuous operation**. Begin installation only when you are prepared to complete the full trim assembly.

Horizontal Trim Installation (Top and Bottom)

1. Each short trim piece includes **two integral tabs** on the interior side that align with the top or bottom sill.
2. Dry-fit a trim piece to identify where the tabs contact the steel frame.
3. Clean the steel frame, trim, and tabs so they are **dry and free of dust or debris**.
4. Apply a **thin bead of sealant** either:
    - Along the length of the tabs on the trim, **or**
    - Directly on the steel frame
      (Do not apply sealant to both surfaces.)

5. Position each trim piece carefully to maintain **small, consistent gaps** between adjacent trim components.
6. Allow the trim to remain undisturbed for **24–48 hours** while the sealant cures.
7. Once cured, apply a thin, color-compatible finish caulk to the trim joints as needed.

Final Interior Trim Note

Interior trim installation should be performed **only after interior finishes are ready** to be completed. The vertical trims wrap around the post to allow interior finishes to terminate cleanly or be sealed to adjacent windows or doors.

This stage also provides the final opportunity to verify proper bolting at the head and sill plates. Once the trim has cured in place, it is **not intended to be removed**, and removal may cause damage. The interior trims are designed to remain in place for the life of the TonyView installation.

Finless Adjacent Window / Door Condition

Scope:

This section applies to commercial installations where the TonyView unit and adjacent window or door are finless and integrated using direct sealant joints, consistent with standard commercial glazing practice. Structural installation of the TonyView unit shall be performed in accordance with the primary installation instructions.

Waterproofing Requirements:

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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.

TonyView installs 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.

Waterproofing Installation Steps:

1. **Prepare Joint Surfaces:**
   Clean the TonyView frame, adjacent window/door frame, and all mating substrates to ensure proper sealant adhesion.
2. **Establish Sealant Joint:**
   Maintain a consistent joint width of approximately ¼" inch between the TonyView unit and the adjacent window or door frame.
3. **Install Backer Rod:**
   Install backer rod as required to control sealant depth and prevent three-sided adhesion.
4. **Apply Primary Sealant:**
   Apply sealant continuously along the full interface between the TonyView unit and the adjacent window/door frame.
5. **Tool Sealant:**
   Tool the sealant to ensure full contact with both frames and a smooth, uniform finish.
6. **Interior and Exterior Sealing:**
   Apply sealant at both the interior and exterior interfaces as required by the project details and performance requirements.
7. **Curing Protection:**
   Protect sealant joints from movement, moisture, and contamination during curing in accordance with the sealant manufacturer's instructions.