

GRANDVIEW MULTI-SLIDE PATIO DOOR SITE ASSEMBLY AND PANEL INSTALLATION



CONTENTS:

- IMPORTANT SAFETY INFORMATION
- PRODUCT SPECIFICATIONS AND GENERAL INFORMATION
- PART LIST AND MATERIALS
- SITE ASSESSMENT
- FRAME ASSEMBLY
- FRAME INSTALLATION
- PANEL INSTALLATION
- FINAL INSPECTION



Head Office, Plant & Showroom
8104 Evans Rd, Chilliwack, BC, V2R 5RB
Phone: 1-604-792-6700 Fax: 1-604-792-6714
Email: sales@westeckwindows.com
Web: www.westeckwindows.com

IMPORTANT SAFETY INFORMATION

Safety Alert Symbols

These Safety Alert Symbols are used within this document to alert you to potential hazards or personal injury. Obey all safety messages located within this document to avoid possible injury or death.



IMPORTANCE – Important procedure and product information



NOTICE – Care is to be taken to avoid product or property damage



CAUTION – Could result in minor Injury



CAUTION – Could result in major injury or death



CAUTION – Halt work and obtain approval



RECYCLING/DISPOSAL – Ensure that left over materials or packaging is properly recycled or disposed of



Warranty – Care is to be taken to maintain warranty

IMPORTANT SAFETY INFORMATION

Personal Protective Equipment (PPE)



- Always wear PPE when handling, assembling, installing and adjusting products. Failure to do so could result in minor/major personal injury or death.
- PPE **IS NOT** included within the part kits, nor is it supplied by Westeck Windows Mfg.

Tools



- Follow all manufactures' instructions and safety protocols for any hand and/or power tools required. Failure to do so could result in personal injury, product or property damage.

Handling



- Patio Door frames and panels must be stored in an upright position on a level surface that is free from debris on top of sufficient blocking, **NOT** on uneven surfaces that have not been cleaned.
- Patio Door frames and panels are to be protected from construction debris at all times including but not limited to sawdust, drywall dust, brick and/or concrete grindings as these will plug drainage paths and could result in product damage and loss of warranty.
- Patio Door frames and panels can be heavy. Use safe lifting techniques and practices and allow for a reasonable number or qualified, able-bodied persons to lift, carry and stage products.
- **DO NOT** lay Patio Door panels flat.
- **DO NOT** stack more than 5 Patio Door panels vertically against one another.
- **DO NOT** lean any other materials or products against Patio Door frame or panels.
- **DO NOT** cartwheel, drag, rock or walk Patio Door frames or panels into across any surface. Doing so may result in product and/or property damage and may void product warranty.

Installation



- Always use caution when working in construction areas and around other work trades. Always wear appropriate PPE when preparing for, assembling, and installing Patio Doors.
- Ensure that Patio Door assembly area is safe, clean and free from debris.
- Ensure that there is ample room to maneuver Patio Door frames and panels within working space.
- Follow all manufactures' instructions for safe use of ladders and scaffolding. Failure to do so may result in minor/major personal injury or death.

- Patio Door assembly kits may contain small parts that may present a choking hazard if swallowed that may results in minor/major personal injury or death.
- Collect, dispose of or recycle left over parts or packaging materials left over from the Patio Door assembly/installation.
- Consult local building codes to ensure that proper Rough Opening preparation is in place prior to Patio Door installation.
- **DO NOT** remove any product performance labels such as NAFS or NFRC labels prior to final inspection and approval from the local Authority Having Jurisdiction (AHJ). Doing so may lead to failed building/product inspections and added costs for re-labelling and/or product removal from site.

Sealing



- Always wear PPE when handling sealant products.
- Follow all manufactures' instructions for safe use and application of sealants. Failure to do so may result in minor personal injury, product and/or property damage.
- Care is to be taken to ensure sealant compatibility with building membranes and water proofing detailing.
- Ensure that all surfaces in which sealants are applied are clean from debris and dry.
- Ensure that all used and partially used sealant containers are properly and safely recycled or disposed of.

Fastening



- Only use approved fasteners and components to assemble Patio Door and fasten back to building structure. Failure to do so may result in a door installation failure that may result in minor personal injury, product and/or property damage.
- All fasteners must be adequately attached back to structural building framing members. Failure to do so will reduce the structural performance to less than the published product values and may affect product performance.
- Ensure proper Patio Door assembly and installation to maintain all product warranties.

Insulating Glass Units (IGUs)



- **DO NOT** use scrapers or razor blades to remove stubborn deposits or labels on the Insulating Glass Units (IGUs).
- **DO NOT** use abrasive cleaning solutions on glass surfaces.
- **DO NOT** allow splashed materials such as paint, stucco, mortar, or drywall putty/gypoc dust to dry or remain on glass surfaces for a prolonged period of time. Doing so may have warranty implications.

Cleaning



- **DO NOT** use solvents, abrasives, hydrochloric or muriatic acid-based cleansers on or near the product. Doing so may result in minor personal injury, product and/or property damage and warranty implications.
- **DO NOT** remove any product performance labels such as NAFS or NFRC labels prior to final inspection and approval from the local AHJ. Doing so may lead to failed building/product inspections and added costs for re-labelling and/or product removal from site.
- Vinyl Patio Door frames may be cleaned with a mixture of mild dish detergent and warm water. Always rinse completely with clear water and wipe dry with soft lint free cloths or paper towel.
- **DO NOT** use pressurized water to rinse debris from products. Doing so may damage weather stripping, seals and/or gaskets.
- Please be aware that soil deposits may contain abrasive elements and vigorous wiping or scrubbing may cause scratching or damage to frame or glass surfaces. Use caution to identify debris prior to cleaning.
- Ensure drainage holes are always clear of dirt and debris that might obstruct the free flow of water, both inside and outside of the Patio Door in the bottom of the frame and panel.
- Please be aware that exposure to hard water or sea air may result in mineral deposits on your IGUs. Prolonged exposure may damage the glass surface. If it does not rinse away, ensure this is cleaned by hand as soon as it is noticed. Hard water mineral deposits from any source, including overspray from lawn and garden sprinkler systems may build up over time and can permanently damage the glass.
- Periodic maintenance should be conducted every six months to one year in order to maintain full warranty for all components, including but not limited to vinyl frames/panels, weather stripping, gaskets and hardware.

PRODUCT SPECIFICATIONS AND GENERAL INFORMATION

- Confirm with local building code officials and AHJ regarding compliant Rough Opening membrane/preparation prior to commencing work. Work completed over top
- Contact local authorities or waste management companies for proper recycling and/or disposal of any packaging or remaining materials left over from Patio Door installation.
- For all warranty information please visit: www.westeckwindows.com

PART LIST AND MATERIALS

PPE – NOT INCLUDED

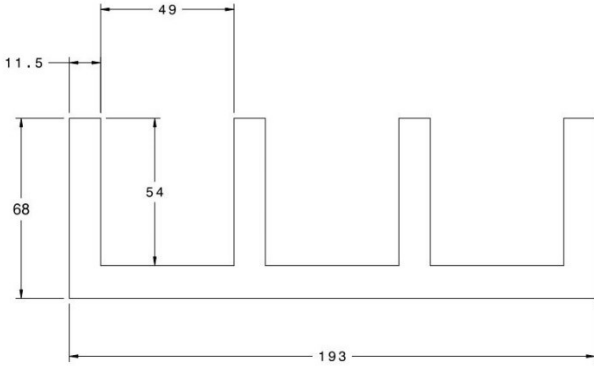

Ear Protection	Eye protection	Gloves	Hard Hat	High-Visibility Vest	Steel Toe Boots
					





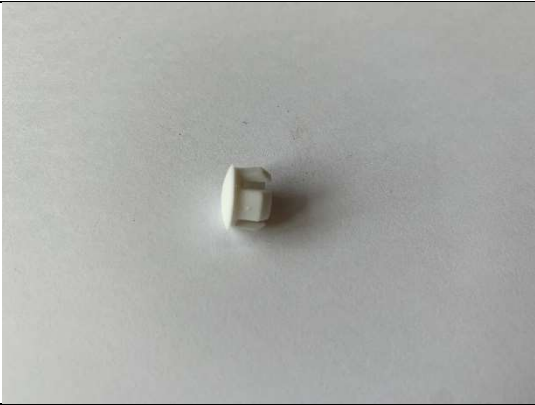

Tools and Supplies Required – NOT INCLUDED

Caulking Gun	Ladder	Level	Power Drill	Rigid UPVC Door Shims	Sealant
					

Door Installation Kit

3-Track GrandView Multi-Slide:

<p>3-Track Frame Gasket (x12) Part # GASK-2720-GV3-WHT (x6) Part # GASK-2720-GV3-BLK (x6)</p>	<p>Patio Door Frame Fasteners (x40) #8x3" Round/Washer Robertsons c/w Gasket</p>
	

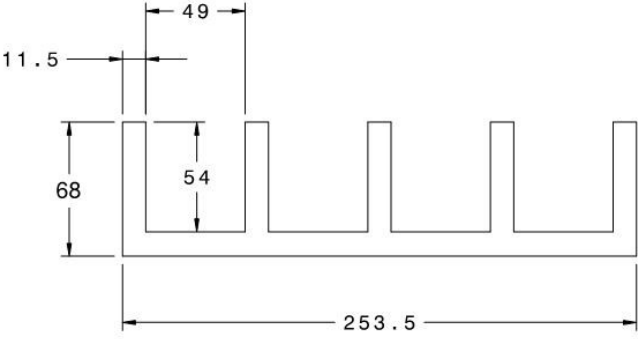




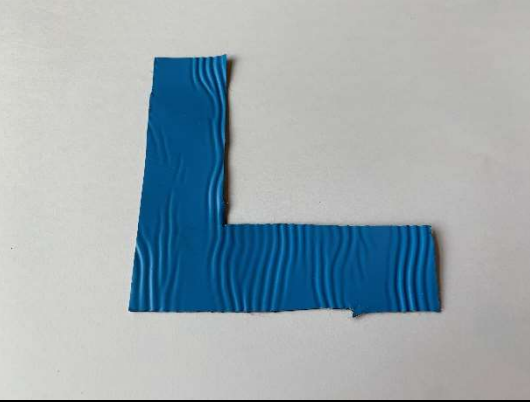
<p>Fixed Panel Fasteners (x22) #8x2" SQR FLAT FT SDS ZINC</p>	<p>Security Fasteners (x2)</p>
	
<p>Installation Angle Screws (x104)</p>	<p>Corner Nail Flange Membrane (x4)</p>
	
<p>Operable Panel Wheel Adjustment Plugs (x8)</p>	<p>Interior Aluminum Installation Angle 1"x1"x1/16"x(door width)</p>
	
<p>Exterior Aluminum Support Angle 1 1/2"x1"x1/8"x(door width)</p>	<p>Sill Drainage Weep Gates (x4)?</p>



Black Rubber Sill & Header Bumpers



4-Track GrandView Multi-Slide

<p>4-Track Frame Gasket (x12) Part # GASK-2722-GV4-WHT (x6) Part # GASK-2722-GV4-BLK (x6)</p> 	<p>Patio Door Frame Fasteners (x40) #8x3" Round/Washer Robertsons c/w Gasket</p> 
<p>Fixed Panel Fasteners (x22) #8x2" SQR FLAT FT SDS ZINC</p> 	<p>Security Fasteners (x2)</p> 
<p>Installation Angle Screws (x104)</p> 	<p>Corner Nail Flange Membrane (x4)</p> 
<p>Operable Panel Wheel Adjustment Plugs (x8)</p>	<p>Installation Angle 1"x1"x1/16"x(door width) Aluminum Angle</p>



Exterior Aluminum Support Angle
1 1/2"x1"x1/8"x(door width)



Sill Drainage Weep Gates (x4)



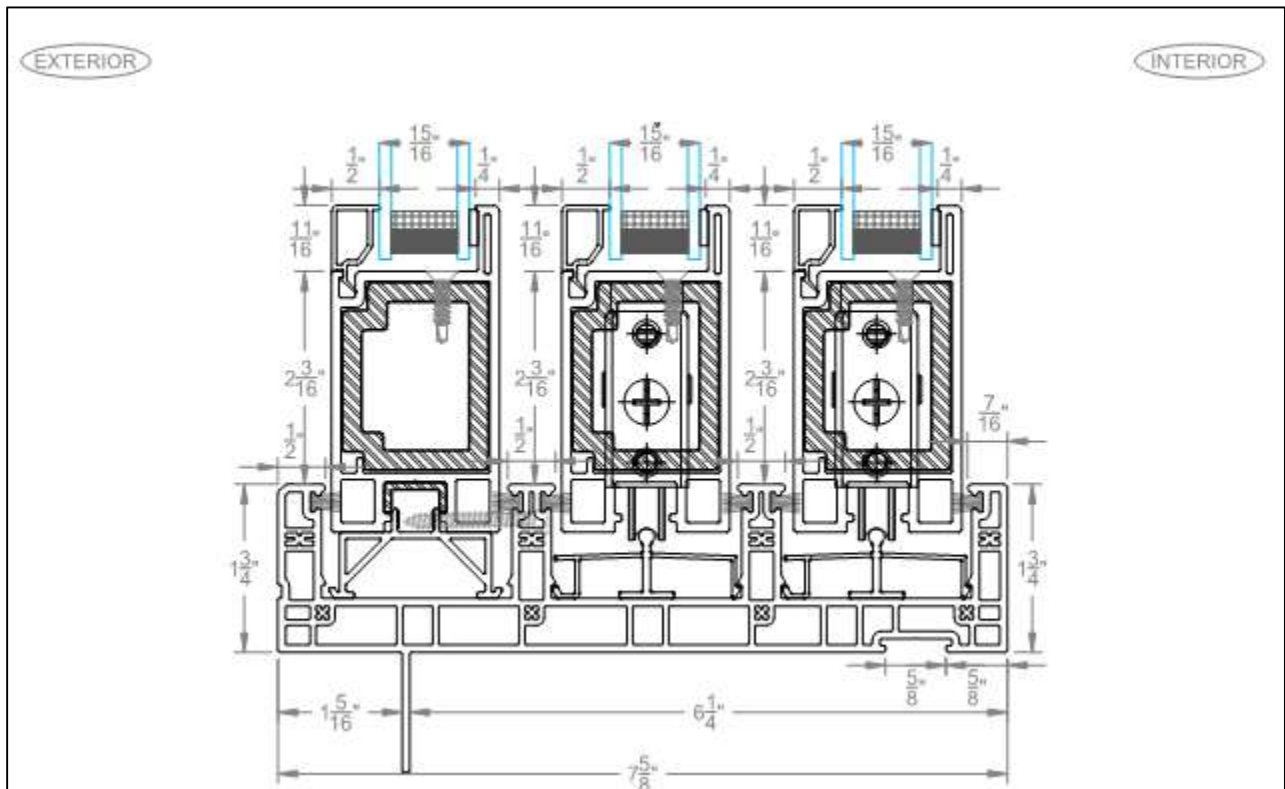
Black Rubber Sill & Header Bumpers



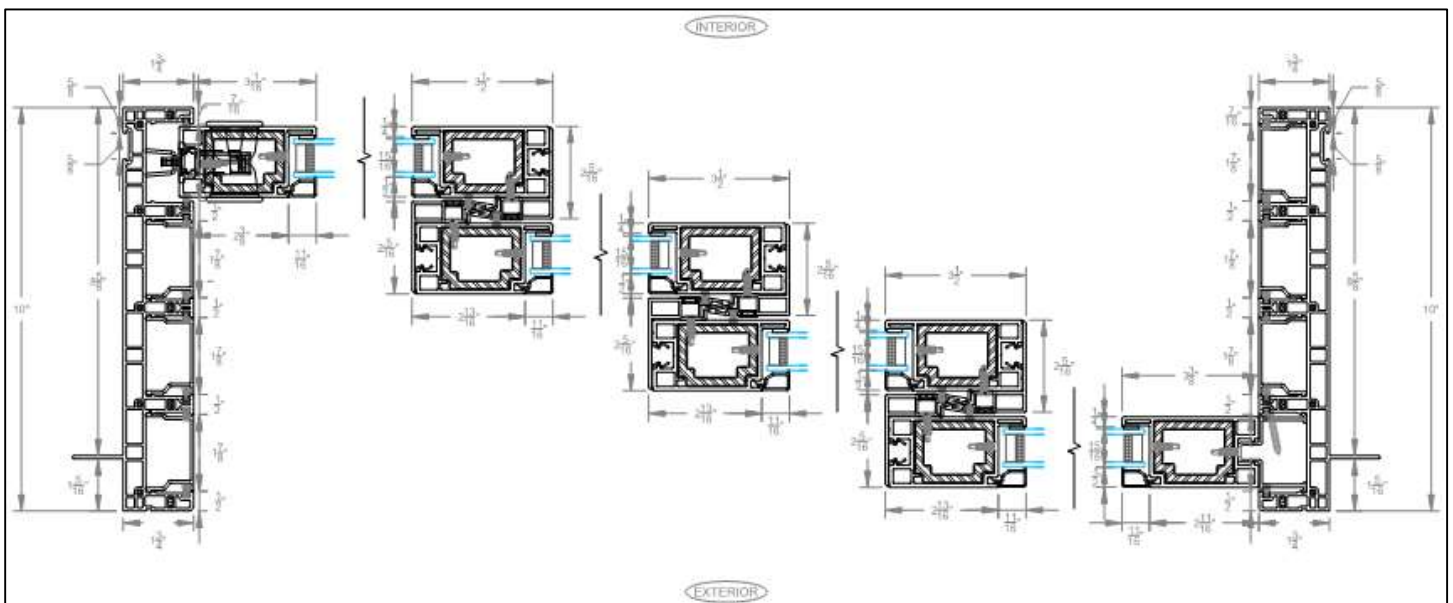
October 2021 - V1

Page 11

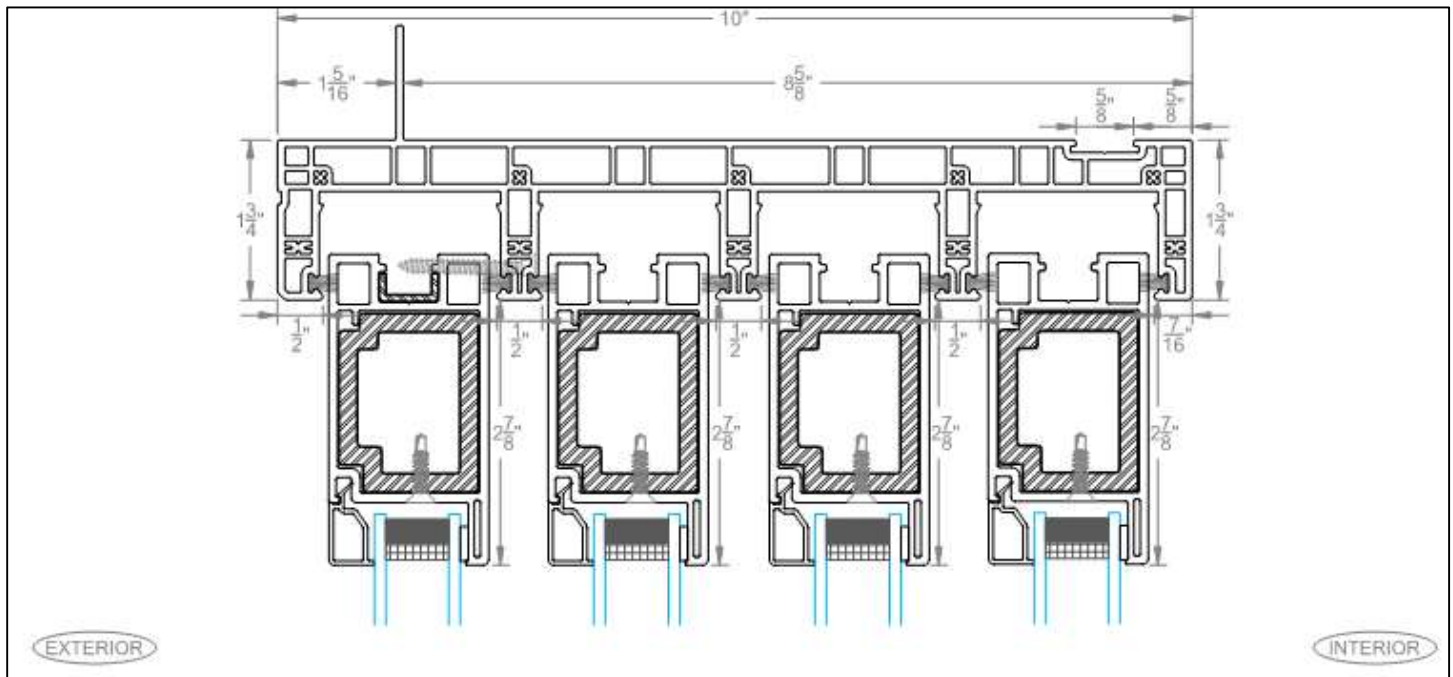
3-Track Vertical Sill Section:



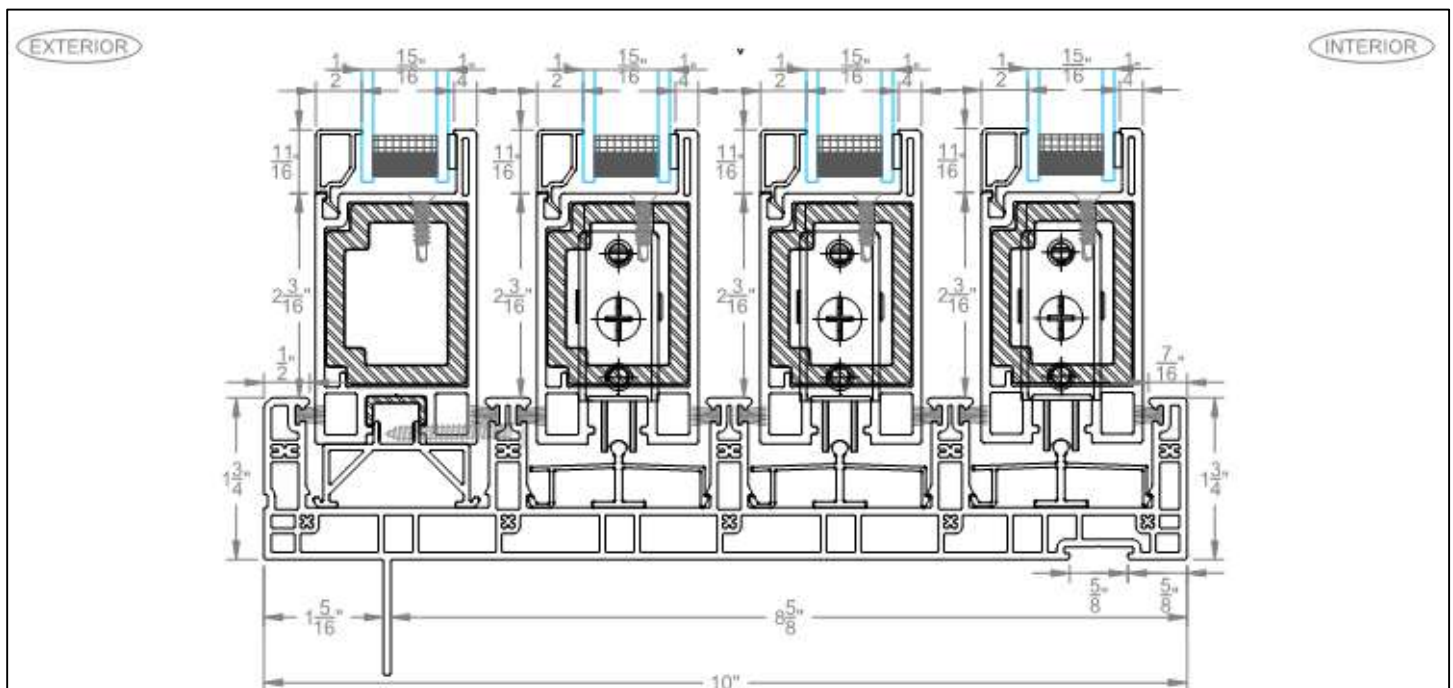
4-Track XXXF Horizontal Section:



4-Track XXXF Vertical Head Section:



4-Track Vertical Sill Section:



FRAME ASSEMBLY



Clearing Space

- Ensure that there is ample floor area space available to properly and safely assemble door frame. This space should be level ground that is free from construction debris and workplace hazards.
- Ensure that there is a clear pathway from the door assembly area to the respective Rough Opening.
- Ensure that the correct patio door products have been staged to the correct locations within the building.

Preparation

- Stage blocking in the four corners on the clean floor space in anticipation to support the entire door frame once assembled horizontally.
- Ensure that the blocking used is adequate in lifting the patio door frame up off the floor to such a height as to properly aid in assembly of the frame corners.
- Ensure that blocking used will not damage the patio door frame or scratch the paint surfaces. This may include, but may not be limited to protective cardboard or similar product between the blocking and patio door frame.

Unwrapping / uncrating

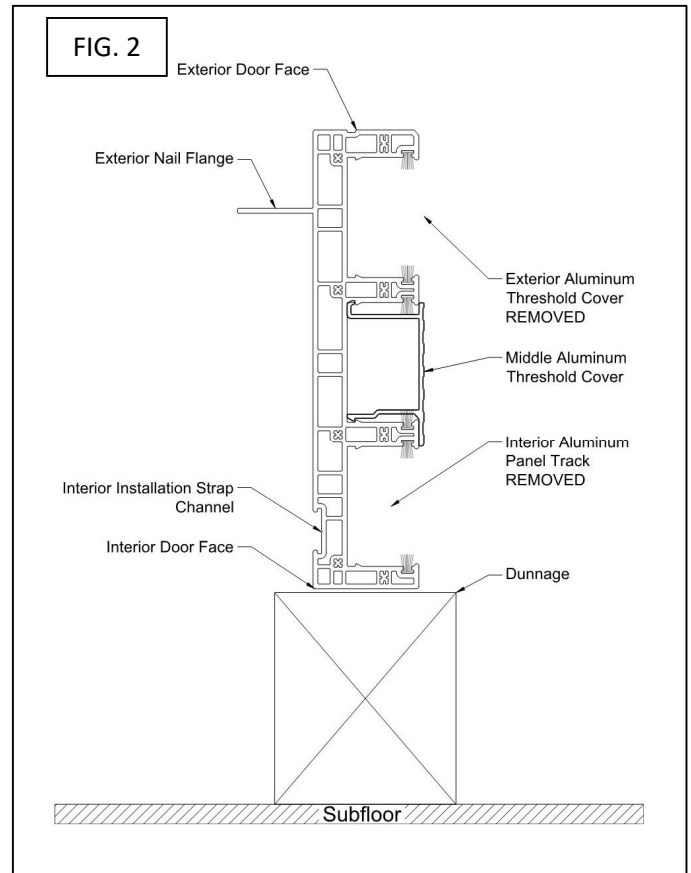
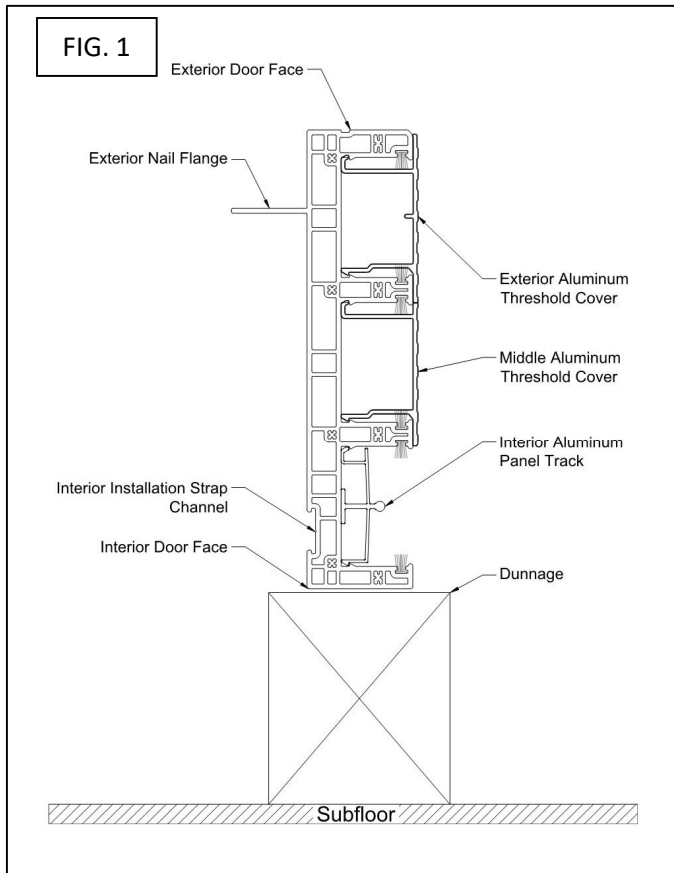
Inspection of quality

- 1) Ensure that all frame profiles measure to the correct size as indicated on the product order prior to continuing with assembly. If measurements of the head, sill and/or jamb differ from the product order or as noted below, **STOP** and call
 - a. The head and sill profile will measure out to the heel width of the door minus 28.97MM / 1.14" ($\pm 1.5\text{MM} / 0.0625''$)
 - b. The jamb profile will measure out to the full heel height ($\pm 1.5\text{MM} / 0.0625''$)
- 2) Ensure that all product is free from damage or debris prior to assembly. If there is noticeable damage that would impede proper door assembly or installation **STOP** and call.
- 3) Ensure that all weather stripping has remained intact.
 - a. Weather stripping of the head and sill will be made of two different thicknesses, butted together to make one continuous length.
 - i. This is done to ensure the highest air infiltration/exfiltration and water ingress performance while maintaining optimum ease of operation.
 - b. If any weather stripping appears to be damaged or missing **STOP** and call Westeck Service Department for advice.
 - i. It may be possible to insert all weather stripping after the door is installed, but doing so should be at the approval of the Westeck Service Department.

Staging frame parts

- 1) Orientate the head, sill and jamb profiles in a square formation, relative to how the door would be assembled and place each profile on top of blocking to lift it from the floor surface.
 - a. Ensure exterior of the patio door frame is facing upward (Fig 1).
- 2) Remove Exterior Aluminum Threshold Cover (Fig 2).
 - a. Care is required to remove exterior threshold to avoid scratching or damaging part.

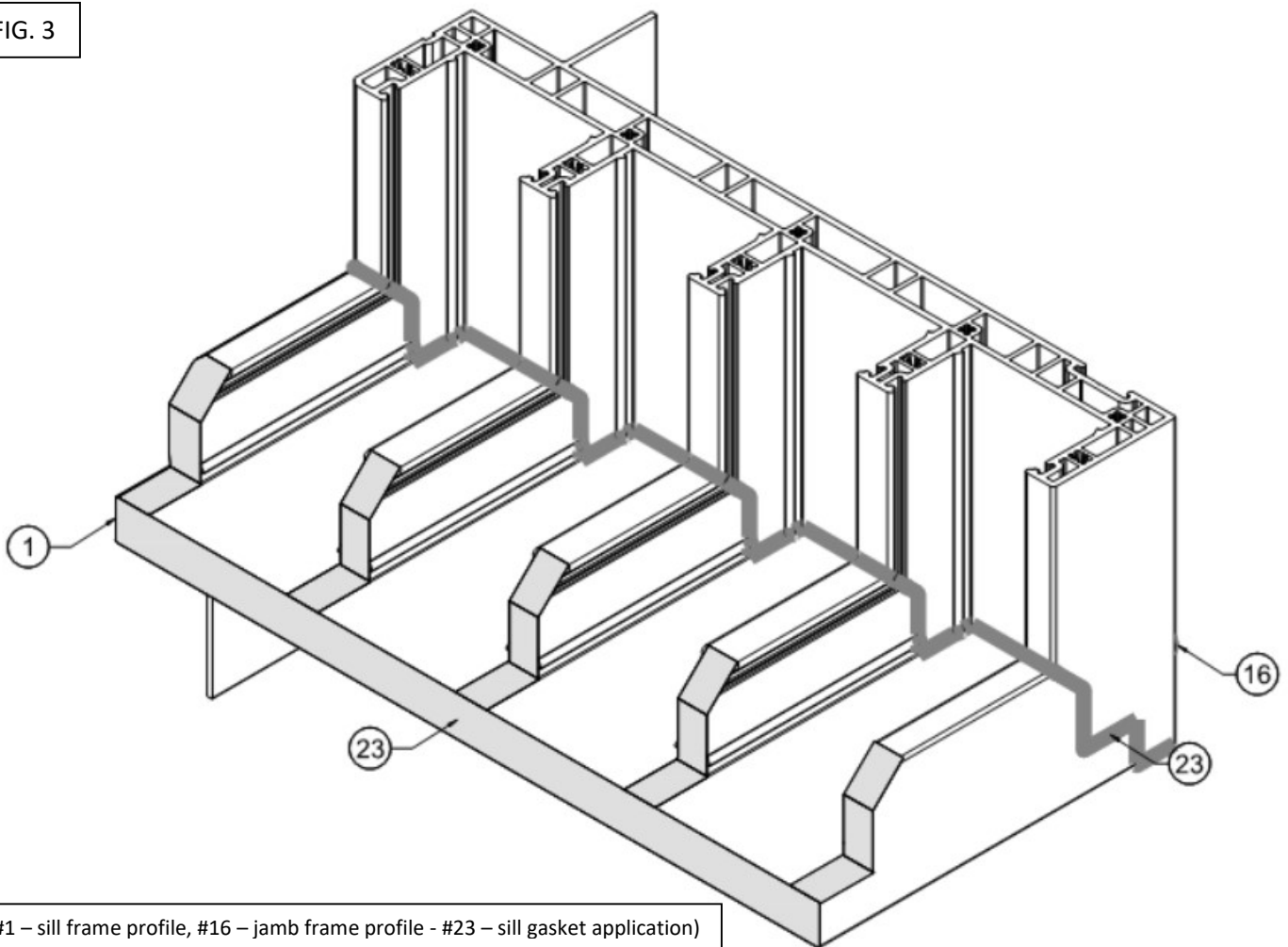
- b. Removing exterior threshold at this moment will allow for greater ease of fixed panel installation once the door frame is assembled.
 - c. Ensure that exterior threshold cover is stored in a safe location as to not damage the part.
- 3) Remove Interior Aluminum Panel Track (Fig 2).
- a. Care is required to remove panel track to avoid scratching or damaging part.
 - b. Removing panel track at this moment will allow for proper sealing of interior joint once the door frame is assembled.
 - c. Ensure that exterior threshold cover is stored in a safe location as to not damage the part.



Gasket application

- 1) Apply frame gaskets to the head and sill frame profiles as shown below (Fig 3).
 - a. Ensure that head and sill profiles are clean from debris and the gasket is properly adhered and/or positioned. Failure to ensure proper adhesion and/or positioning will compromise the doors water ingress and air infiltration/exfiltration performance ratings and have warranty implications

FIG. 3



Frame fastening

- 1) Fasten corners of door frame together through the jamb profile using 10 (Patio Door Frame Fastener #8x3" Round/Washer Robertsons c/w Gasket) per corner.
 - a. Ensure that fasteners are not over driven.
 - b. Ensure that black rubber gaskets are not compromised.
- 2) Visually inspect all corner connections after fastening them together.
 - a. Corners should be of clean joinery and square.
 - b. There should be no sign of protruding frame gaskets.
 - c.

Nail flange gaskets

- 1) Apply Corner Nail Flange Membrane to corners in order to create continuous exterior plane around the nail flange.
 - a. Ensure that Corner Nail Flange Membrane is properly sealed back to the nail flange of both the sill and jamb profile

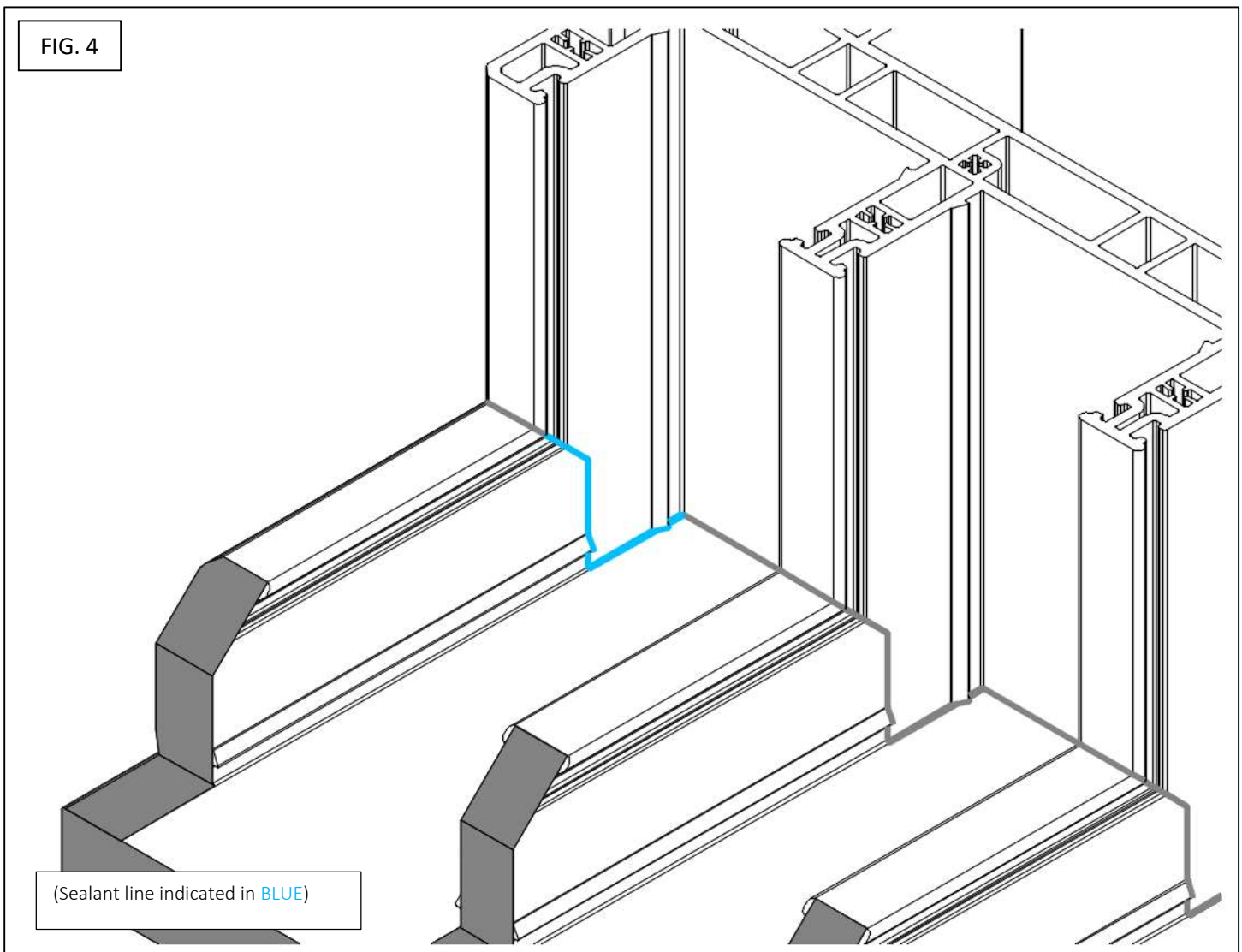
Propping up frame

- 1) Prior to lifting the assembled patio door frame up from its horizontal position, ensure that there is enough room to safely do so.

- 2) Ensure adequate labour is also available as assembled door frames can be heavy and need to be position into the Rough Opening properly and safely.
- 3) Lift door up in its horizontal position to allow for removal of dunnage.
- 4) Sit door sill down and pivot door frame upward into a fully vertical position.
 - a. Patio door sill will be the profile with the visible exterior weep gates, aluminum threshold covers and aluminum panel tracks.
 - i. The head and both jamb profiles will be identifiable due to their vinyl pocket covers.
- 5) Once patio door frame is its full vertical position, lift door from both jamps and carefully positioning it closer to the rough opening it will be installed into.
 - a. Care is to be taken to also support the head and sill of the door frame as it will be unsupported at this moment.
 - b. **DO NOT** drag the patio door frame to the rough opening. Doing so may cause product and property damage and cause warranty implications.

Sealing frame

- 1) Seal the vertical and horizontal joint of the sill-to-jamb connection with sealant as shown below (Fig.4).
- 2) Ensure that care is taken when applying this sealant joint to the interior of the sill. Failure to do so may cause water ingress and property damage.

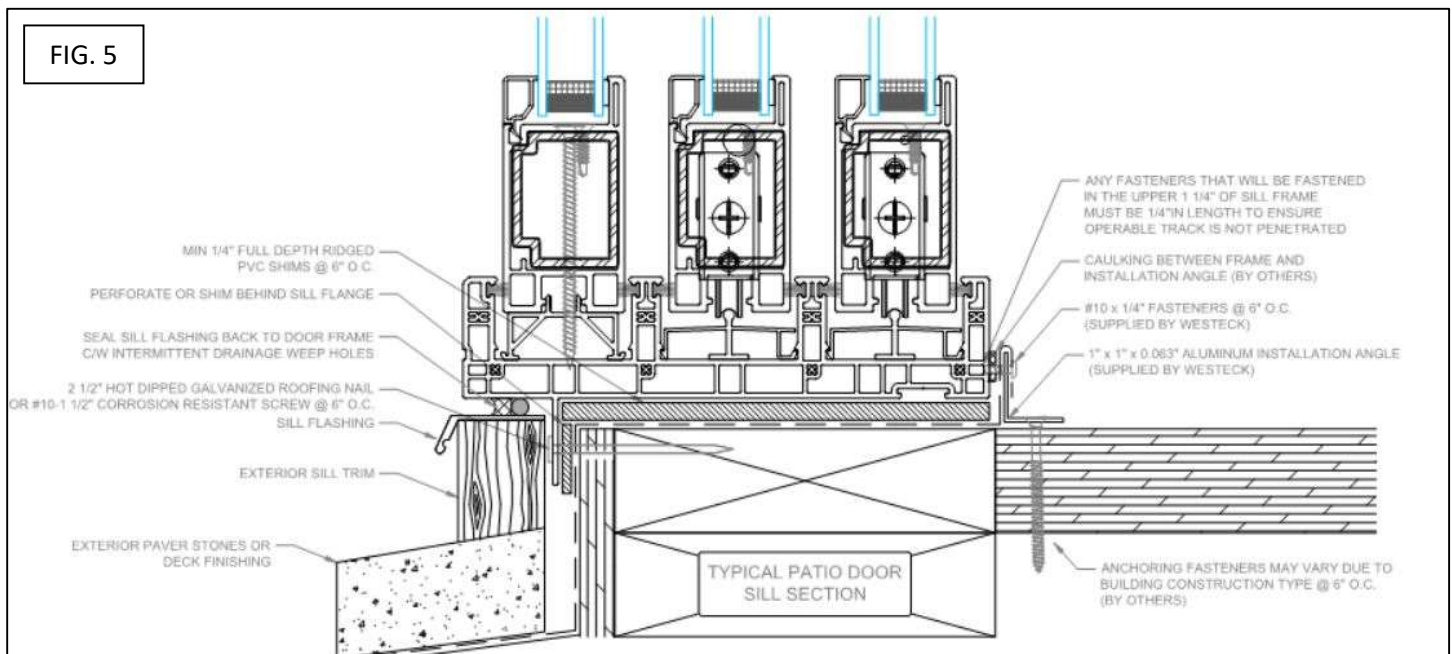


FRAME INSTALLATION



Patio Door Frame Installation

- 1) Ensure that installation instructions provided in the products Care Package are followed. All Alternative installation methods must have written approval. Failure to do so will **void warranty**.
- 2) Ensure that interior installation angle is utilized in installation to properly secure the door sill back to the building structure.
 - a. Installation of the interior installation angle in proper sequence of sill membrane detail is recommended (Fig 5).
 - b. Alternate detailing for installation of interior installation angle after sill membrane has been completed needs to be reviewed and approved.
- 3) Continuing with door installation overtop of any work previously completed presumes that prior work has been completed to a Building Code minimum and all accepted Best Practices.
 - a. If previous work has not been completed to a Building Code minimum or to accepted Best Practices **STOP** all work until items of issue are resolved and approved.



PANEL INSTALLATION



1. Installation of perimeter door frame must be completed for sill and jambs only prior to installation of fixed panels. Head anchoring should be done after panel installation. See Westeck installation details ensuring plumb, level, square.
2. Please note that Westeck GrandView Patio Doors are an exterior glazed system.
 - Ensure that all panels are orientated so that the drain holes in the glazing bead are facing to the exterior of the building.
3. Ensure the fixed panel support blocks are installed below fixed panel location.
4. Ensure that all weather stripping has not been damaged during installation of the door frame.
5. Remove jamb vinyl pocket cover from jamb track directly behind where the fixed panel is to be installed.
 - This is done to allow access to the fasteners used for the fixed panel.
6. Set glazed fixed panel onto the setting block track and slide into jamb pocket, tight to the jamb spacer blocks, with glazing beads and drainage holes to the exterior and interlock facing interior.
7. Once the fixed panels are set into the frame, anchor the head of the main frame to structure, ensure to keep level.
 - Ensure that Westeck installation detailing is followed.
8. Check panel is square to frame, and weather-stripping is compressing against the frame towers.
9. Check the frame and panel are straight and square at the jamb. Check dimension from sill tower to sash daylight, should be no more than 3", (66.7MM).



10. Install one #8 x 2 ¼" screw into the jamb tower 3" up from sill, through the weather-strip slot.



11. Install #8 x 2 ¼" screw into the jamb tower 3" down from head, through the weather-strip slot.



12. Add #8 x 2 ¼" screws at 10" (255MM) spacing along the vertical jamb through the weather-strip slot into the panel.



13. Install two #8 x 2 ¼" screws through the frame tower through weather-strip slot at the sill at interlock end of the panel. See image for correct angle. Use caution to not over tighten which may strip screws.



14. Install aluminum sill threshold cover and jamb/head vinyl pocket covers.
- Ensure that threshold covers and pocket covers are free from damage and fit tightly against the fixed panel.
15. Install operating panels, check for interlocks meeting between fixed and operator. There should be no binding or excessive play once the door is closed and locked.

Quality checks after install

- 1) There should be minimal play at the interlocks when door is closed and locked, < .25" (6mm).
 - a. If excessive, ensure that fixed panel(s) are seated properly into the jambs snug to the spacer blocks.
- 2) Ensure that all operable panels are square. No more than 1/8" (2MM) on panels and 3/16" (3MM) on frames diagonally should be found.

Check operation of panels, and lock engagement.

- Operable Panels
- Operation
- Wheel adjustments
- Striker plate adjustments
 - o Security screws