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Assembly and Installation Guidelines for Picture Frame (Pre-set) Panning System

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Installation Guideline Disclaimer

This document contains general installation guidelines for Graham Architectural products and does not address each particular condition or installation. Shop drawing installation details may vary from these Guidelines as these Guidelines do not address each particular condition so any variances should be addressed by the design professional. These Guidelines do not address the structural adequacy on any installation and such should be addressed by a design professional. Anchorage to existing or proposed wall conditions are not addressed in this document. Sealant compatibilities and application details should be reviewed by the sealant manufacturers. This document does not address the interface between the window system and the buildings weather barrier system and should be reviewed by the waterproofing consultant. It is generally recommended that insulation be installed in all voids created in the installation of a thermally improved system, but the application of insulation in wet areas needs to be addressed by the design professional and the particular type of insulation may need to be specified.



These instructions include the assembly and installation of the Picture Frame Panning System. Read these instructions before starting any installation.

Receiving, Handling, and Storage

Panning systems are finished products and must be protected against damage. The following precautions are recommended to assure early acceptance of your products and workmanship:

<u>Receiving:</u> Prior to receiving the shipment of panning, ensure that there is an adequate location to receive the panning and enough manpower and equipment to off load the products.

- Most trucking companies allow a 3 hour off-loading time, and will charge a detention fee if the truck is not off-loaded within that time period. That should be considered when determining the location where the truck will be off-loaded and how much manpower will be needed to complete the process.
- Ensure that the storage location is close to the off-loading area. The product storage area must meet the requirements listed in the "Storage" section below.

Handling: HANDLE CAREFULLY - DO NOT DROP.

- Only use material handling equipment that will not damage the finish of the products.
- Do not use any of the extrusions for lifting or manipulating the panning bundle. Lift each bundle from the bottom of the bundle.

Storage:

- The storage location for any finished products must be cordoned off to prevent damage from other trades, such as moving equipment.
- All products should be stored on top of wood blocking to protect the finish. Do not stack more than three bundles high.
- Protect products completely from moisture and dirt prior to installation. It is important that panning that are not installed, are protected from direct contact with rain, snow, or ice so as to protect the finish of the product. Storing the panning in the building is preferred, as long as they are not in a high traffic area.
- Construction debris and dirt can affect the finish of the panning. Protect all products from paint, weld spatter, construction debris, cement, plaster, terrazzo, and other construction materials, which include, but are not limited to, alkali based materials or caustic cleaners. This must be removed immediately to prevent damage to the finish of the aluminum.
- If the panning has been wrapped in a transparent plastic protective wrap, this wrap cannot be on the product for more than 90 days from the date of manufacturing, otherwise, it will be very difficult to remove protective wrap from the finish.
- Prior to applying sealants, the surfaces must be cleaned and prepared as directed by the sealant manufacturer.



CAUTION – Panning is not to be used as ladders, scaffolds, or supports. Installed panning openings are not to be used as construction entrances, unless adequate protection to the sill and jambs is provided. Damage to any products from any construction activity will void the product warranty for the products in question.

Note: Copies of these instructions can be downloaded from www.grahamwindows.com/architectural-resources/technical-information/

A. Upon delivery	Table #1	Installation Tolerances (+/- Target)		
carefully check that		Inches/	Inches	Method of
all products have		foot	Maximum	Measurement
been received	Level (Horizontal	1/00"	1 /0"	Maggura gill uging loval
undamaged. If any	Measurement)	1/32	1/0	Measure sill using level
of the products have	Plumb (Vertical	1/20"	1 /0"	Measure jambs using
been damaged,	Measurement)	1/32	1/0	level or plumb bob
immediately notify	True (In Plane			Attach strings across
vour Graham	Mossuromont	1/32"	1/8"	corners. Measure where
Representative.	Measurement			they cross
	Extrusion	1/64"	1/16"	Measure with straight
B. The sill will need	Straightness	1/04	1/10	edge.
adequate support.	Square (Diagonal	ΝΙ/Δ	1/16"*	Measure diagonal
The sill must be	Measurement)		1/8"**	corners (Difference/2)
level in accordance with Table #1	* Openings up	to 20 sq. 1	it. **Openi	ngs 20 sq. ft. and over

General Installation Instructions

C. All work should start from established bench marks and column center lines established by the architectural drawings and the general contractor.

D. The sequence of installation should be coordinated with the job superintendent so delays are prevented.

F. Be aware of allowable edge distance requirements for the fasteners into the substrate, especially when the substrate is masonry. Refer to the fastener manufacturer's instruction for proper usage.

G. Seal the exterior in accordance with the shop drawings.

H. Insulate between the window frame and the rough opening.

Note: Panning cannot support the weight of a window.



with Table #1.



Picture #1



Picture #2

Panning Assembly

- A. Clean all the areas that are going to be sealed with isopropyl alcohol, and dry with clean rag prior to applying sealant (See Picture #1).
- B. Lay out the parts of the panning system on a large flat area, that will protect the finish of the parts. It is recommended to lay 5/8" thick supports under the step of the panning to line up the mitered corners (See Picture #2).
- C. Profile the bottom end of the jamb panning with silicone-based sealant.
- D. Prior to attaching the sill to the jambs, shoot sealant into the attachment holes in the sill. Fasten the sill to the jambs with the Phillips head screws provided by Graham, however, do not tighten the screws.
- E. Insert the corner keys into the head extrusion (See Picture #4), until the spring-loaded buttons "Poppers" snap into place (See Picture #3).



Picture #3





Panning Assembly (Continued)



Picture #5



Picture #6



Picture #7

- F. Profile the ends of the head extrusion with a silicone-based sealant (See Picture #5).
- G. Slide the other side of the corner key into the jambs, until the spring-loaded button pops into place (See Picture #6).
- H. Start to tighten the corner key screws (See Pictures #7 & #8) with a 4mm Allen wrench to draw the corners together, however, leave the screws slightly loose for future adjustment of the corner.
- Clean the squeeze out at the corner and make sure the miter is aligned. Then, tighten the corner key screws. Re-check the corner alignment from all sides. If the corner did not align correctly, loosen the corner key screw, re-align the corner and tighten the screw (See Picture #7).
- J. Once the mitered corners are squared and tightened, tighten the screws that attach the sill to the jambs.
- K. Check the assembly for square. Re-adjust if necessary.







Picture #9



Picture #10



Picture #11

- L. Flip the panning assembly over and apply a small amount of sealant along the exterior side of the jamb/head miter joint and tool it into the joint. (See Picture #9). Repeat this process at the jamb/sill corners.
- M. Wipe off the excess sealant, and then clean the corners with isopropyl alcohol (See Picture #10). Repeat this process at the jamb/sill corners.
- N. Flip the panning assembly face down and back-seal the head/jamb miter joints. Tool these sealant joints (See Picture #11). Repeat this process at the jamb/sill joints.
- O. Make sure that the outer edge of the head/jamb corners are sealed, and the sealant is tooled (See Picture #12)



Picture #12



Panning Installation

- A. Install continuous blocking at the sill of the rough opening to support the sill panning (See Figure #14).
- B. If applicable, attach the panning clips to the head and jamb panning (See Figure #13), at the fastener locations. The fastening schedule will generally be determined by a structural engineer. Attach the panning clips to the panning with screws (not supplied by Graham).
- C. Measure the opening where the apron of the sill pan will contact the rough sill, and then trim the apron of the sill pan accordingly (See Figure #14).
- D. Position the panning assembly in the opening (dry fit) and check the clearances of the sealant locations. Be careful not to twist or rotate the panning during handling or installation.
- E. Apply shims and/or blocking to make the panning level, plumb and square in accordance with Table 1. Shims and blocking are required at each mullion.
- F. Apply fasteners at each panning clip, and through the sill pan.
- G. Insert appropriately sized backer rod between the head and jambs and the rough opening.
 Bond breaker tape is recommended where the sill apron meets the rough sill* (See detail in Figure #14).
- H. Clean the sealing surfaces, and prime (if necessary). Apply sealant around the perimeter and tool the sealant*.
- I. It is recommended to re-seal the interior corners of the panning at this time.
- * Note: Contact the sealant manufacturer for proper application techniques.





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Window Installation

- A. Follow the installation instructions for the particular window or door type that is being installed. Below are instructions which apply when installing these products with this panning system.
- B. Prior to installing the window, apply sealant where the exterior leg of the sill will meet the sill pan (See Figure #16).
 Apply a continuous back-seal along the panning gasket (See Figure #15).
- C. Set the window onto the sill panning and rotate the window into place. Make sure there is squeeze out of the backseal.
- D. Blocking may be needed to ensure that the jambs are straight.
- E. Attach the trim clips to the perimeter of the rough opening.
- F. Insulate between the rough opening and the head and jambs. The insulation material should be water repellant (hydrophobic) (See Figure #15)
- G. Make sure the window is level, plumb and square in accordance with Table 1. Attach the trim clips to the frame of the window with screws (not supplied by Graham).
- ര് Back Seal Cap Seal Figure #15 Set in Sealant Cap Seal

Figure #16

- H. Cap seal the window to the panning joint around the exterior perimeter of the window frame.
- I. The trim covers are field cut to size. Snap trim covers on using a rubber mallet, or a block of wood with a hammer. Be careful not to dent or scratch the finish on the trim cover when installing them.

