

INSTALLATION INSTRUCTIONS

PANELGRIP®

Product Reference: GR2460HCB / GR2460HCB-10 / GR2457HCB / GR2457HCB-10

RECOMMENDED TOOLS:

- PG2 Allen Socket
- Torque Wrench
- Shims
- Rubber Mallet

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IMPORTANT SAFETY INSTRUCTIONS:

GLASS SAFETY:

- Read the installation instructions in their entirety before installing. It is important to save these instructions.
- All components must be installed in accordance with IBC 2015 or per local codes as specified by the "Authority having Jurisdiction".
- All Glass must be tempered monolithic or tempered laminated safety glass.
- Glass selection should be in accordance with:
 - ASTM C1036-16 (Standard specification for flat glass – Table 4 - Dimensional Tolerances for Rectangular Shapes of Type 1 – Transparent Flat Glass)
 - ASTM C1172 -14 (Standard specification for laminated architectural flat glass)
 - ASTM C1048 (Specification for heat strengthened and fully tempered flat glass)

- For PanelGrip® accessories and or replacement parts contact:
 - Wagner Companies
 - Tel: (888) 243-6914
 - Tel: (+1) 414-214-0444
 - Fax: (+1) 414-214-0450
 - Web: www.wagnerarchitectural.com
 - Email: rfq@mailwagner.com

RAIL SAFETY:

- Check and confirm all local railing code requirements.
- A structural analysis may be required per local codes. Structural analysis is the customers' responsibility.
- This product must be installed in a manner consistent with its intended use.

INSTALLATION:

1. Mount PanelGrip® (GR2457HCB/GR2457HCB-10/GR2460HCB/GR2460HCB-10) aluminum extrusion to the intended substrate. (Anchor hardware should be located Max 12" on center and 4" max from the end of the extrusion).
 - a. For mounting to concrete: Concrete compressive strength must be greater than or equal to 4,000 psi. (For GR2457HCB/GR2457HCB-10 use KHEZ500-0450 ½" x 4 ½" self-tapping concrete anchor, for GR2460HCB/GR2460HCB-10 use WB7216 3/8" x 4" self-tapping concrete anchor)
 - b. For mounting to steel – thickness of support plate must be ½" or greater
 - For GR2457HCB/GR2457HCB-10 use low profile cap screws, 1/2-13 x ¾"/Steel zinc plated SHC1Z1213-0750 or Stainless SHC3N1213-0750
 - For GR2460HCB/GR2460HCB-10 use low profile cap screws 3/8"x16 x 1" long with a 3/8" dia. SAE 316 stainless steel washer
 - c. For mounting to wood or other substrates, contact (888) 243-6914 or rfq@mailwagner.com
 - d. If drainage is required beneath the base shoe use:
 - Drain Block GR225DB-10 with shoe GR2457HCB/GR2457HCB-10
 - Drain Block GR238DB-10 with shoe GR2460HCB/GR2460HCB-10
 - e. If mounting base shoe to a steel supporting plate use:
 - Weld Block GR175WB-10 with shoe GR2457HCB/GR2457HCB-10
 - Weld Block GR150WB-10 with shoe GR2460HCB/GR2460HCB-10
2. Use non-compressive shims to ensure the shoe is level and plumb.
 - a. Clearance between mounting substrate and aluminum shoe should be no greater than 0.25".
3. Clean debris from the PanelGrip® channel.
4. Position the isolators within the PanelGrip® shoe (see Fig. i) every 12" on center starting 4" in from datum end. (Max panel width 48" / if over 48" contact (888) 243-6914 or rfq@mailwagner.com).
 - a. Four (4) isolators are required per lite of glass. Ensure all isolators are placed on the same side of the extrusion. Do not alternate.
5. Carefully place a lite of glass on the isolators. Sliding the glass at an angle may make installation easier. The glass should sit against the bottom of the isolator (see Fig. iii).
6. Install the glass with a minimum joint gap between the individual lites of ½" (verify and confirm with project specification). In the case of long runs, consideration should be given to spanning any joints with a glass panel to assist with alignment.
7. Once the glass is correctly located, place a PanelGrip® mechanism opposite each of the isolators. It should seat against the flat section of the extrusion. Ensure the colored isolator pad is facing the glass (See Fig. iii & iv).



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8. When using PanelGrip® base shoes GR2460HCB/GR2460HCB-10:
 - a. For 9/16" (13.52mm) Laminated Tempered Glass:
 - Use (PG2460 thickness range 0.520" – 0.560") – Use Brown isolator/mechanism with white pad (See Fig. iv & vi).
9. Pre-tighten the PanelGrip® mechanisms to 10 ft.-lbs. Gently rock the glass forward and backwards to settle the glass and then re-tighten again not exceeding a maximum 14 ft.-lbs. torque.



Fig. iv



Fig. vi

10. For gasket installation without decorative cladding, take the GR9355 gasket and cut it to the desired length. Spray face of glass with a suitable non-permanent lubricant. Locate gasket as shown (See Fig. vii).
11. For gasket installation with decorative cladding:
 - a. Take cladding material
 - GR2802.4AN anodized aluminum
 - GR3802.4 Satin stainless steel
 - GR3802.7 Polished stainless steel
 - GR4802.7 Polished Brass
 - b. Select GR9302 cladding gasket, remove protective tape and apply gasket to underside of cladding as shown (See Fig. viii).
12. Install cladding.
 - a. Using GR975 cladding tape. Apply two rows along the full length of cladding (See Fig. ix).
 - b. Or apply silicone adhesive using a wave format pattern (See Fig. x).
13. Install end caps.
 - a. Apply silicone adhesive (Fig. xi) to the end cap on the base shoe facing side. Place end cap against base shoe and retain until silicone adhesive has cured.
 - b. Without cladding – Base shoe GR2460HCB/GR2460HCB-10 (2.1/2" x 4 1/8") use:
 - Satin Aluminium GR2852E.4



Fig. vii



Fig. viii

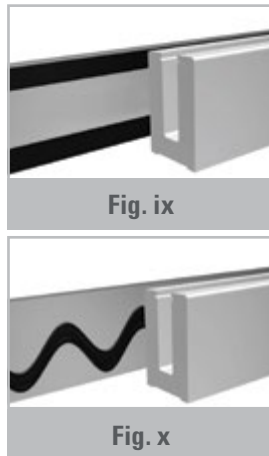


Fig. ix

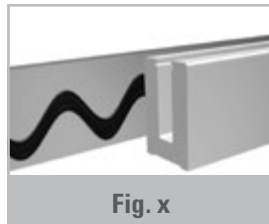


Fig. x

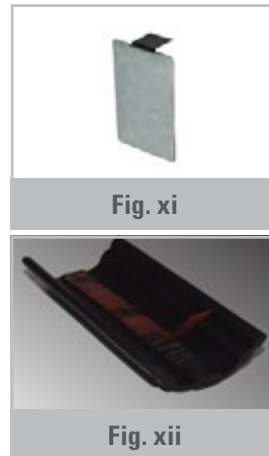


Fig. xi



Fig. xii



Fig. xiii



Fig. xiv

- Satin Anodized Aluminum GR2852E.4AN
 - Satin Stainless GR3852E.4
 - Polished Stainless GR3852E.7
- c. Without cladding – Base shoe GR2457HCB/GR2457HCB-10 (2 3/4" x 4 1/8") use:
 - Satin Aluminum GR2876E.4
 - Satin Stainless GR3876E.4
 - Polished Stainless GR3876E.7
 - d. With cladding – Base shoe GR2460HCB/GR2460HCB-10 (2.5/8" x 4 1/8") use:
 - Satin Aluminum GR2852EC.4
 - Satin Anodized Aluminum GR2852EC.4AN
 - Stainless Steel GR3852EC.4
 - Polished Stainless GR3852EC.7
 - e. With cladding – Base shoe GR2457HCB/GR2457HCB-10 (2 7/8" x 4 1/8") use:
 - Satin Aluminum GR2876EC.4
 - Satin Anodized Aluminum GR2876EC.4AN
 - Satin Stainless GR3876EC.4
 - Polished Stainless GR3876EC.7
14. Install decorative cap rail. After peeling off the protective backing from one side only of the GR9397 cap rail gasket (Fig. xii), place the gasket across the top of the glass. Remove the remaining protective tape on the top side of the gasket (Fig. xiii) and slide the cap rail over the gasket and onto the glass (See Fig. xiv). If necessary, a rubber mallet can be used to ensure the cap rail is completely seated.