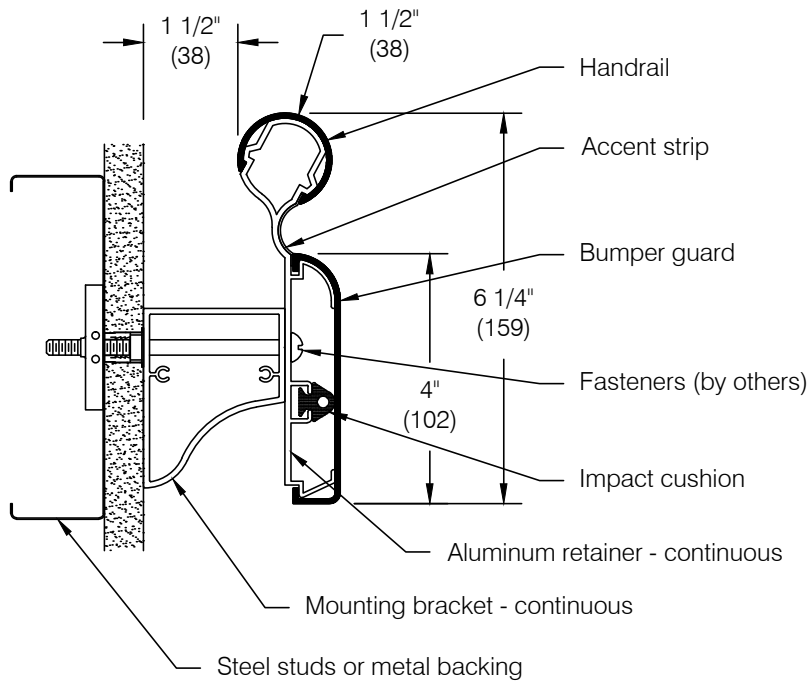
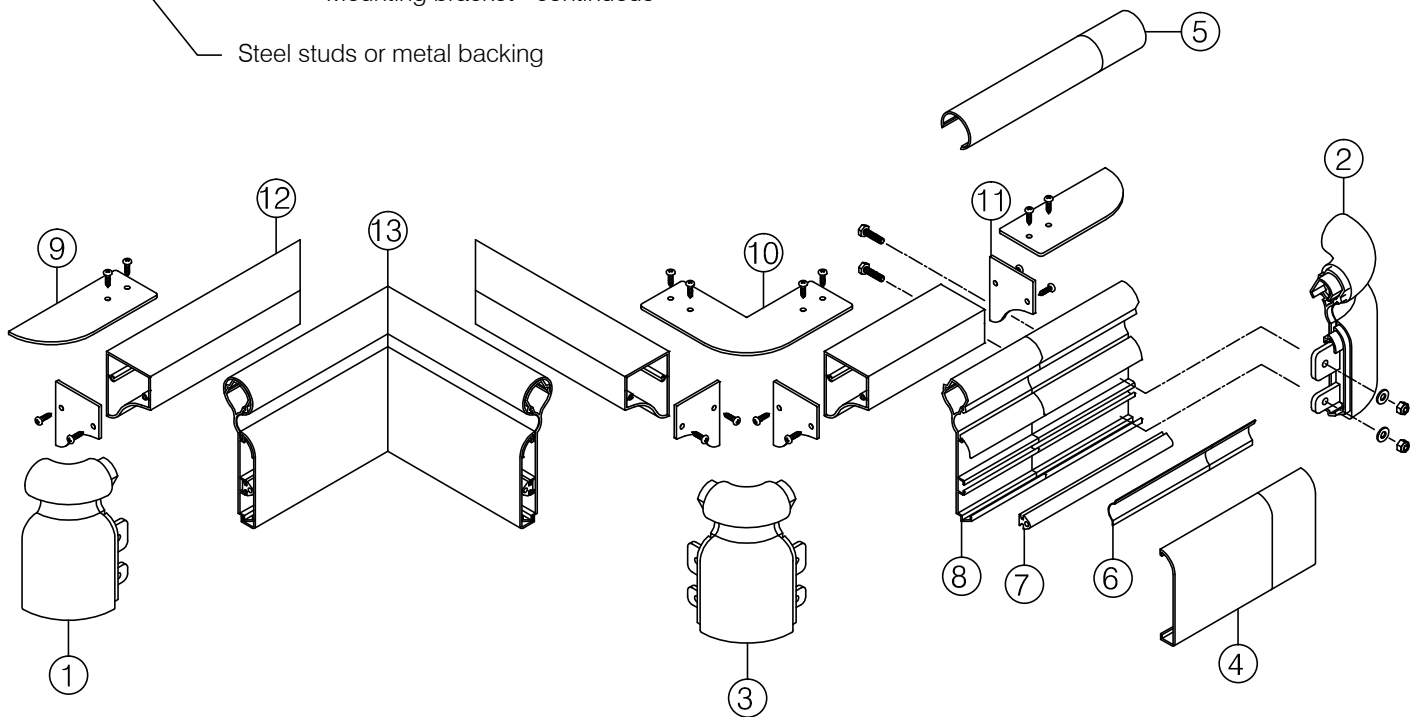


Infinity Series 2000S



This installation instruction is applicable to:

- 2000S Standard textured
- 2000S.1 Grooved and textured



Component Part Numbers:

- | | |
|----------------------|-------------------------------|
| 1) Left return | 7) Impact cushion |
| 2) Right return | 8) Aluminum retainer |
| 3) Outside corner | 9) Return plate |
| 4) Snap-on cover | 10) Outside corner plate |
| Standard textured | 11) End plate |
| Grooved and textured | 12) Continuous bracket |
| 5) Handrail cover | 13) Field miter inside corner |
| 6) Accent | |

wallguard.com Infinity Series 2000S Handrail Installation Instructions

- Step 1:** Determine top of handrail height and snap a chalk line 3 3/4" below for centerline of mounting hardware, see **fig 1**.
Important: Store material in a clean dry place where the temperature is maintained between 50°F (10°C) and 100°F (38°C). Walls and rooms should be maintained at a minimum of 65°F (18°C) for at least 48 hours prior to installation. Acclimate materials to normal building conditions for at least 24 hours before cutting and installing.
- Step 2:** Cut aluminum retainer and continuous bracket. See **Cutting Adjustment Diagrams and Schedule** for adjustments to aluminum retainer and bracket length at wall returns, inside corners, and outside corners. To allow for accessory mounting hardware continuous bracket must be cut 1" shorter than aluminum retainer at all accessories, see **fig 2**. Refer to **Minimum Layout Configurations** for additional information.
Important: All cuts must be square and deburred.
- Step 3:** Layout aluminum retainer "face up" and mark bracket mounting hole locations. Place retainer on top of continuous bracket making sure end bracket is set in 1" from end of retainer at each accessory location, see **fig 2**. Align V-Groove in retainer and bracket extrusions to locate centerline for drilling. Using the V-Groove in the retainer as a guide, drill clearance holes through both profiles for wall mount fasteners.
Note: The V-Grooves are located in each extrusion to ensure proper vertical alignment between retainer and bracket, see **fig 3**.
Bracket mounting holes must be spaced:
- Not to exceed 32" on center
 - 2" to 6" from end of aluminum retainer at returns and corner accessories
 - To align with metal studs (on metal stud construction) or preferably with horizontal metal backer plate (by others)
- Step 4:** Locate and drill bracket mounting holes in wall construction using the aluminum retainer as a template or by careful measurement. Choice of hardware will dictate hole diameter.
- Step 5:** Insert molded accessories into end of retainer, press firmly to ensure molded part is seated squarely against the end of the retainer. Drill accessory mounting holes using the accessory as the template, see **fig 4**.
- Step 6:** Cut flexible bumper cushion approximately 1/2" shorter than the aluminum retainer. Slide the cushion into the channel provided in the aluminum retainer, see **fig 5**.
- Step 7:** Attach molded returns and outside corners to retainer with accessory seated firmly and squarely while tightening. Fasten with 1/4" bolt, flat washer and nylon lock-nut provided. Attach corners on one side only at this time. Do not attach corners on both sides and do not attempt to install corner sections as an assembly. Doing so will not allow for installation of the outside corner plates after the rail has been secured to the wall.
Caution: Do not use a lock washer, use flat washers only. Always place a flat washer between nut and molded tab. Tighten to 10 ft-lbs maximum torque, see **fig 6**.
- Step 8:** Attach end plates to open ends of continuous bracket using #8-32 x 3/8" type F Phillips pan head screws included. Install end plates only at ends where molded accessory occurs, see **fig 7**.
- Step 9:** Mount continuous bracket and aluminum retainer (with molded accessories attached) to wall with the appropriate hardware according to wall construction. See **step 11** for splicing information. Install railing from one end of a section to the other. Do not start at each end and work toward the middle.
Important: Position inside and outside corner plates at each corner condition before attaching the second end of the corner accessory to the next section of retainer. Secure second end of corner accessories to aluminum retainer only after the corner plates have been loosely set in place. The corner plates are too wide to be set in place after the handrail has been mounted.
Suggested hardware:
- Drywall: Toggler® brand toggle bolts
 - Masonry: Plastic Alligator® insert
- Step 10:** Place a return plate at each wall return. Secure return plates and corner plates to continuous bracket using the #8 x 1/2" Phillips pan head self drilling screws, see **fig 8**. An optional pilot hole may be drilled using a #29 bit.
- Step 11:** Additional splice hardware is not required with a continuous mounting bracket. For best results offset butt joints in aluminum retainer from butt joints in continuous bracket and offset butt joints in cover from butt joints in aluminum retainer.
- Step 12:** Measure between accessories (corners and returns) and cut the handrail cover, accent, and bumper guard profiles. Measure and cut profiles so they will span aluminum retainer butt joints.
Important: All cuts must be square and deburred.
- Step 13:** Place the accent strip in the finger groove of the aluminum retainer ID mark down, see **fig 9**. Snap on the upper handrail cover then snap on the lower bumper guard cover by hooking the upper leg along the groove provided in the retainer and then snapping the lower edge into position.

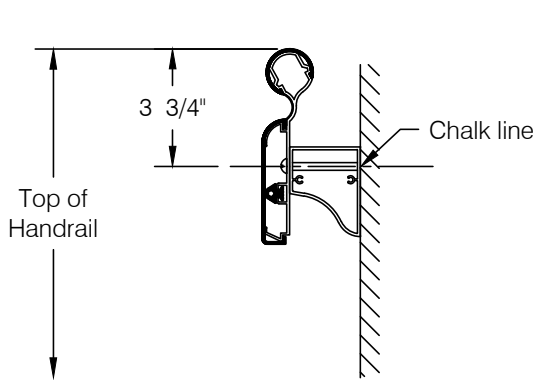


fig 1

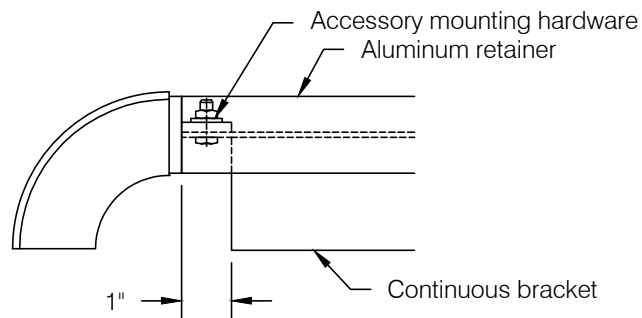


fig 2

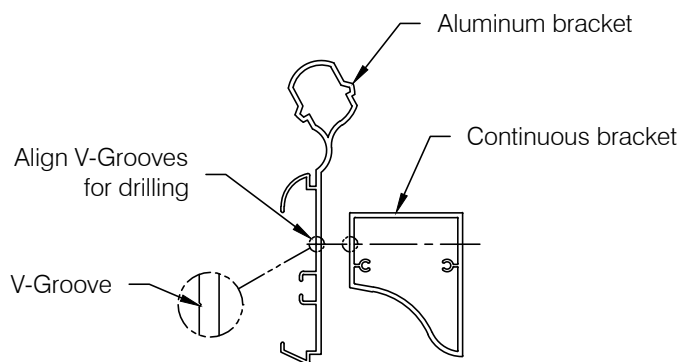


fig 3

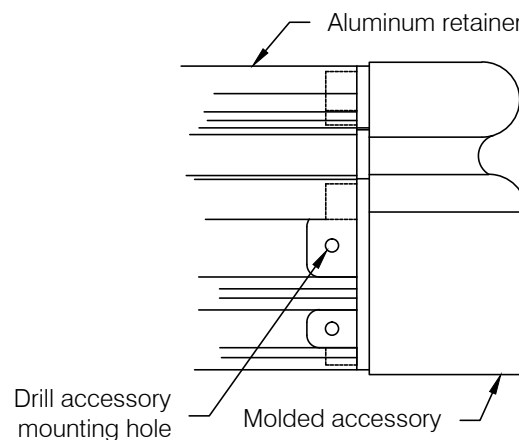


fig 4

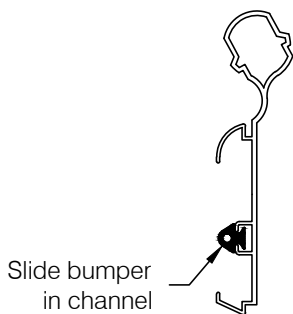


fig 5

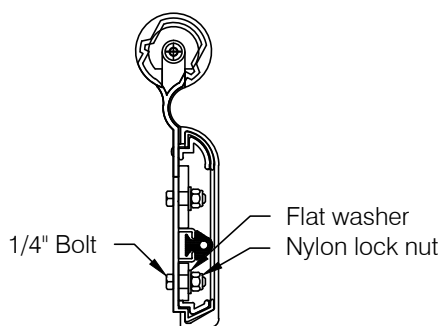


fig 6

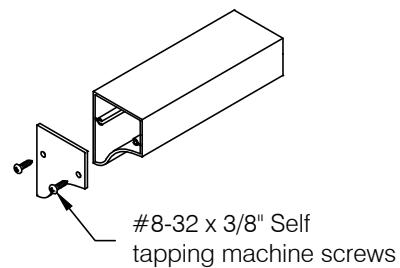


fig 7

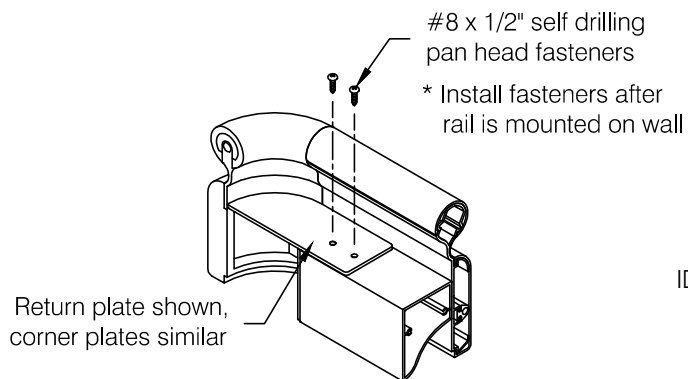


fig 8

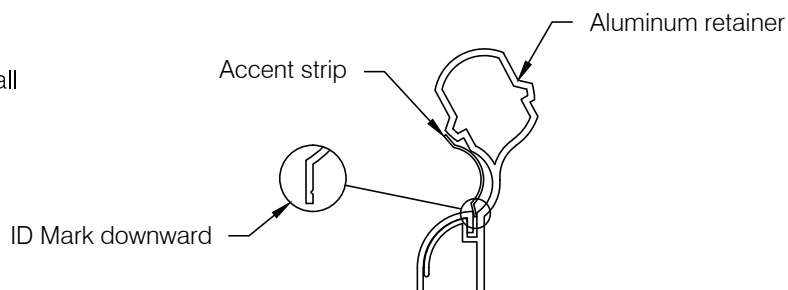
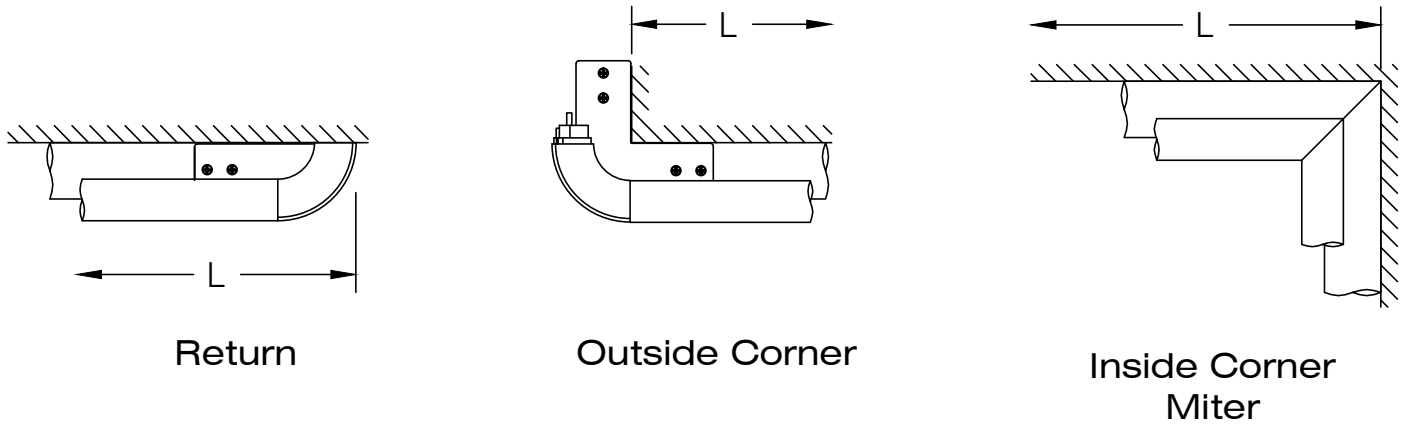


fig 9

Cutting Adjustment Diagrams and Schedule



	Aluminum Retainer	Snap-on Cover	Continuous Bracket
Return	L - 3 3/8"	L - 3 1/8"	L - 4 3/8"
Outside Corner	L - 3/16"	L + 1/16"	L - 1 3/16"
Inside Corner	Miter	Miter	Miter

Important: install aluminum retainer, continuous bracket and molded accessories before cutting the snap-on cover.

Minimum Layout Configurations

