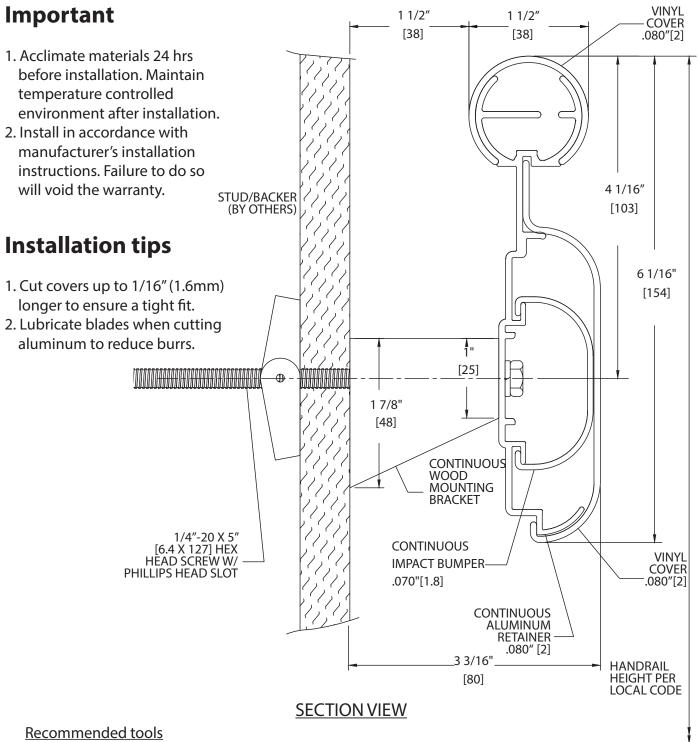
3110/3110FV/G2-3110 Ligature Resistant Handrails



Safety Glasses, Tape Measure, 3/8" socket for machine screw hex bolt, 7/16" socket for wood screw hex bolt, Level, Pillips and Flat head Screwdrivers, Power Drill, Drill Bits - 1/4" masonry (concrete/ concrete block), Power Miter Saw, 10" Blade with 60-80 Carbide Tipped Teeth.

IPC.2150/REV.1



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Component Overview **CBRKRR CBRKLR CBRKOC CBRKIC** RIGHT RETURN LEFT RETURN **OUTSIDE CORNER INSIDE CORNER** 913 914 **LEFT RETURN** RIGHT RETURN INSIDE/OUTSIDE CORNER 3004-OC 3005-IC 3003 3002 **OUTSIDE CORNER INSIDE CORNER** LEFT RETURN RIGHT RETURN 3110A-P 910-RVL 3100-RVL 3100V 910V 3000B **CONTINUOUS REVEAL COVER COVER BUMPER REVEAL ALUMINUM RETAINER** #8 X 5/8" #8 X 1 1/2" **CBRKLF PHILLIPS PHILLIPS** CONTINUOUS SDS SCREW SDS **BRACKET SCREW** Wall Condition Inpro Part# **Specified Fasteners** 1/4-20 x 5" Phillips hex head bolt with toggle wing and lock washer HWK-1001D Steel Stud/Gypsum Wall Concrete/Concrete Block HWK-1001C 1/4-20 x 5" Phillips hex head bolt with lead anchor and lock washer Wood Stud/Gypsum Wall 1/4" x 5" Hex Head Wood Screw and lock washer HWK-1001W HW69 16 gauge steel Backer/Gypsum wall #14 x 4" Indented hex washer, zink-plated TEK screw Steel Stud or Metal Backer/Drywall (OSHPD) 1/4-20 x 5" Phillips hex head Bolt with lock washer and 1/4" Hilit Toggler HWK-10010D Concrete/Concrete Block (OSHPD) 1/4" x 4" Torx Hex Washer Head Screw (Hilti Kwik-Con II) and lock washer HWK-1001OC 1/4" x 5" Hex Head Wood Screw and lock washer Wood Stud or Wood Backer/Gypsum Wall (OSHPD) HWK-1001OW

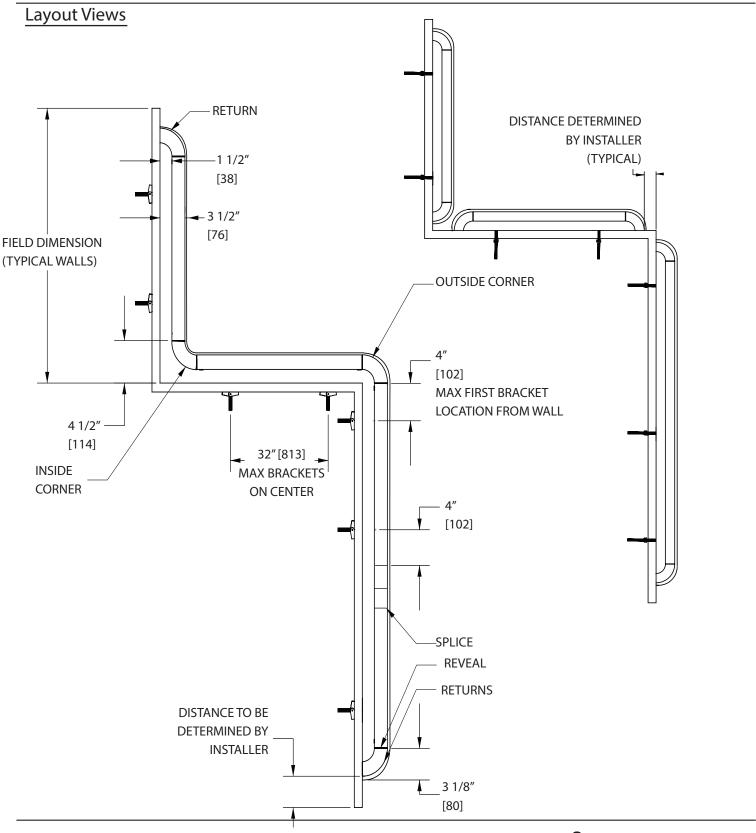
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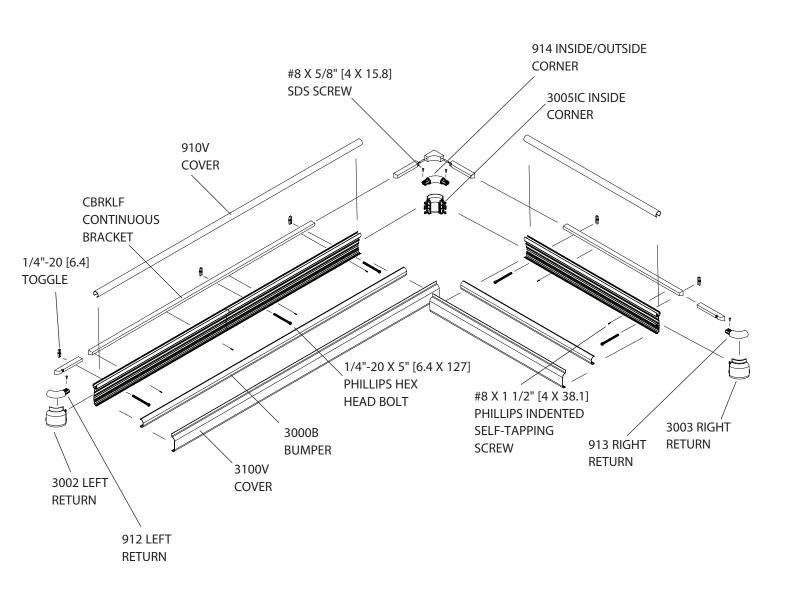
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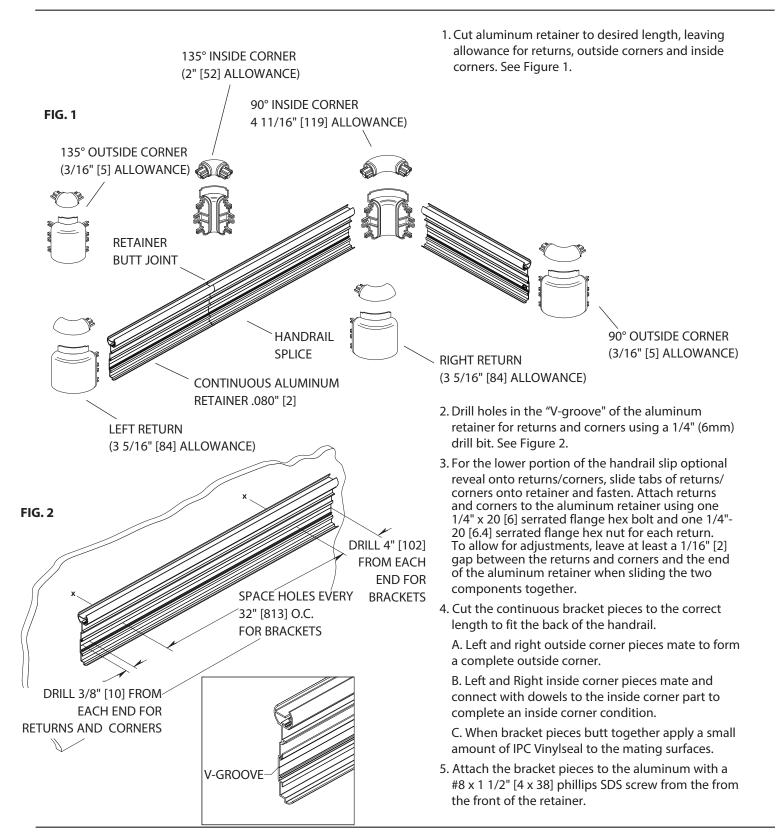
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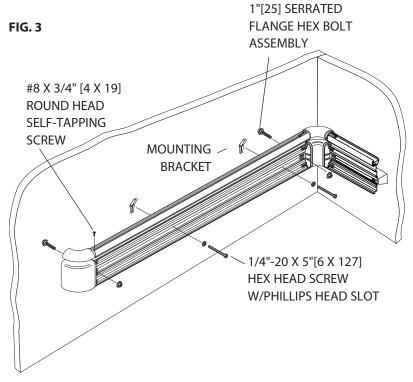
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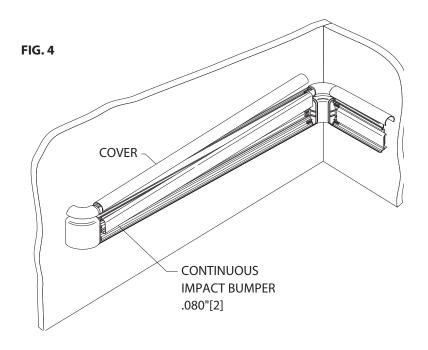
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- Run a bead of IPC Vinylseal caulk along the top edge of the bracket and aluminum, while also filling in any gaps by the fasteners for the returns and corners.
- 7. Drill 1/4" [6] holes on the centerline of the aluminum retainer and through the continuous mounting bracket, for the mouting fasteners. Holes should be 4"[102] from the ends and spaced every 32"[812] max. See figure 3. Hold the handrail and bracket assembly to the wall at the required hight. Level and transfer the mounting holes to the wall. Drill all marked holes on the wall with a 3/4"[19] drill bit for toggle bolts or 1/2"[13] drill bit for lead anchors.
- 8. Insert 5" [127] hex head screw, one lock washer and one toggle wing or lead anchor. Mount the assembled retainer with bracket into holes on wall. Level the retainer and tighten screws to secure the ratainer to the wall.



9. Cut the inner bumper to the length between the tabs on the returns/corners. Position and snap inner bumper in place. Cut cover for top portion of handrail to length between returns and/or corners. (Note: Trim factory edges square before installation) Position cover on retainer at one end and work to the other end by snapping the cover over the retainer. See Figure 4.

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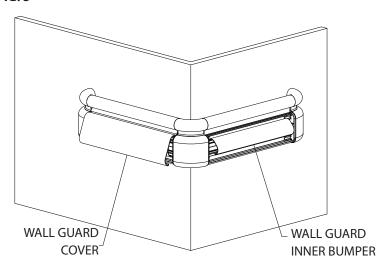
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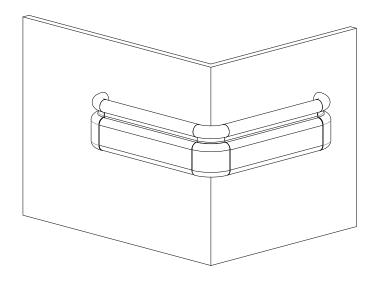
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FIG. 5



5. Cut the cover for lower portion of handrail to the length between reveals on returns and/or corners. (Note: Trim all factory edges square before installation.) Position cover on retainer. Starting with top edge of cover, slip cover under handrail and snap cover on retainer by pivoting bottom of cover over retainer. See Figure 5.

FIG. 6



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