Installation Instructions

3110/3110FV/G2-3110/A3110 Handrails

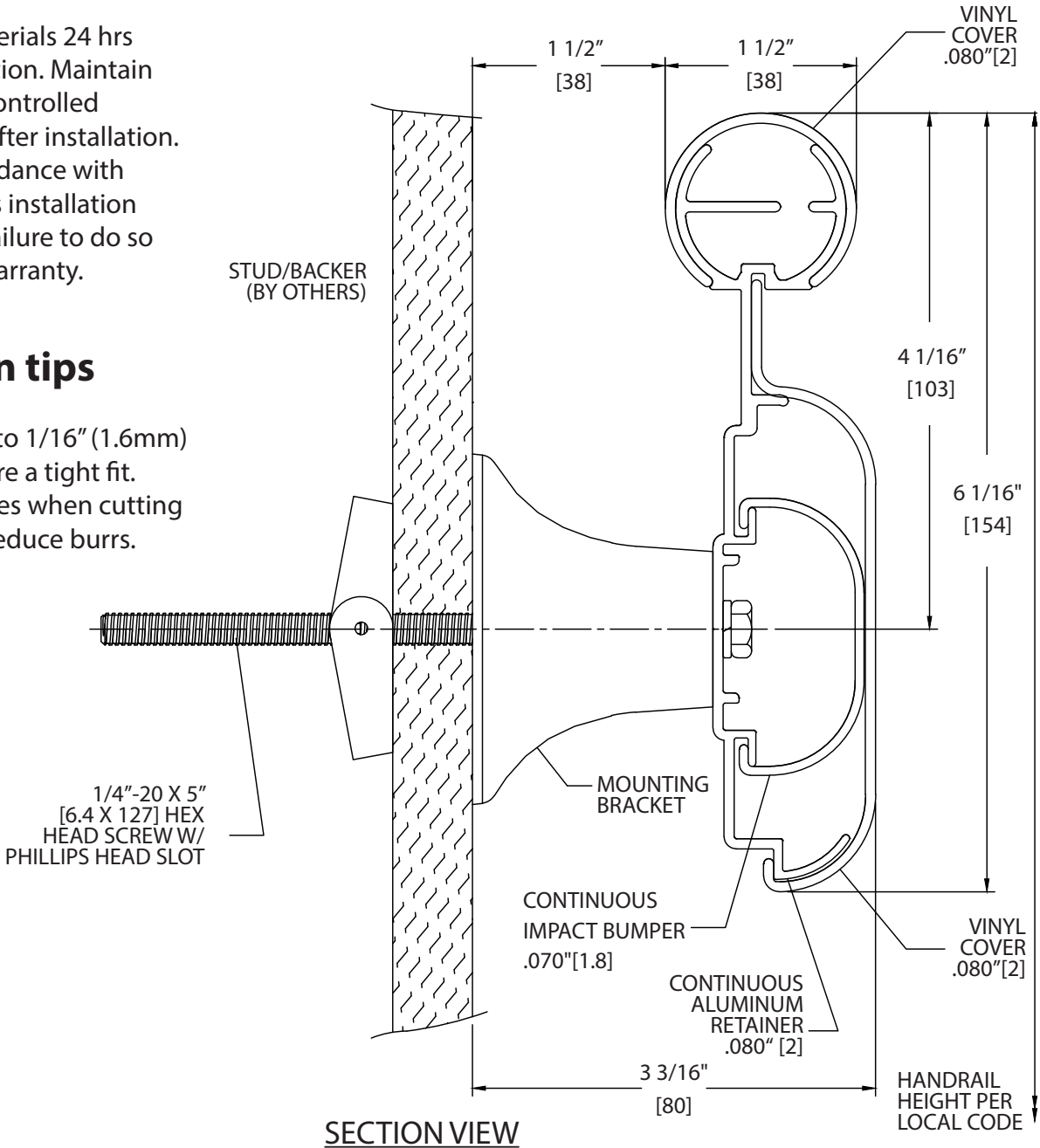
Please read all instructions before installing handrail.

Important

1. Acclimate materials 24 hrs before installation. Maintain temperature controlled environment after installation.
2. Install in accordance with manufacturer's installation instructions. Failure to do so will void the warranty.

Installation tips

1. Cut covers up to 1/16" (1.6mm) longer to ensure a tight fit.
2. Lubricate blades when cutting aluminum to reduce burrs.



SECTION VIEW

Recommended tools

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, 1O" Blade with 60-80 Carbide Tipped Teeth.

IPC.2148/REV.1

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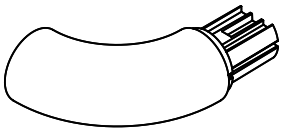
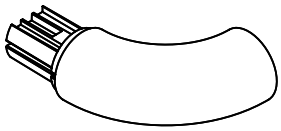
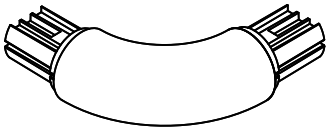
Component Overview



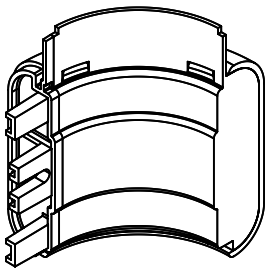
912
LEFT RETURN



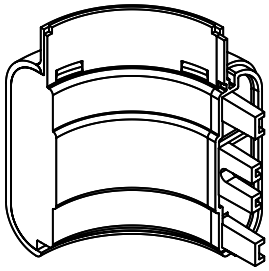
913
RIGHT RETURN



914
INSIDE/OUTSIDE CORNER



3002
LEFT RETURN



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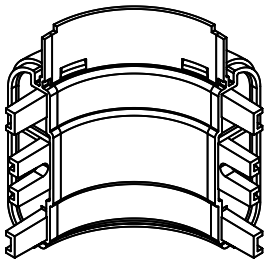
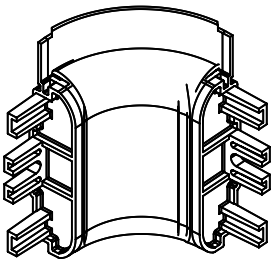
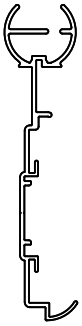
RIGHT RETURN



3004-OC
OUTSIDE CORNER



3005-IC
INSIDE CORNER



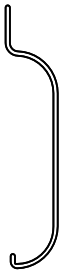
3110A-P
CONTINUOUS
ALUMINUM RETAINER

910V
COVER

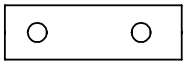
1400B
BUMPER

910-RVL
REVEAL

3100-RVL
REVEAL



3100V
COVER

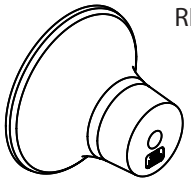


804-SPL
SPLICE

1/4-20
SERRATED
FLANGE NUT

1/4-20 3/4"
HEX HEAD
BOLT

#8 X 5/8"
PHILLIPS
SDS
SCREW



1001
MOLDED BRACKET

Wall Condition	Specified Fasteners	Inpro Part#
Steel Stud/Gypsum Wall	1/4-20 x 5" Phillips hex head bolt with toggle wing and lock washer	HWK-1001D
Concrete/Concrete Block	1/4-20 x 5" Phillips hex head bolt with lead anchor and lock washer	HWK-1001C
Wood Stud/Gypsum Wall	1/4" x 5" Hex Head Wood Screw and lock washer	HWK-1001W
16 gauge steel Backer/Gypsum wall	#14 x 4" Indented hex washer, zink-plated TEK screw	HW69
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-1001OD
Concrete/Concrete Block (OSHPD)	1/4" x 4" Torx Hex Washer Head Screw (Hilti Kwik-Con II) and lock washer	HWK-1001OC
Wood Stud or Wood Backer/Gypsum Wall (OSHPD)	1/4" x 5" Hex Head Wood Screw and lock washer	HWK-1001OW

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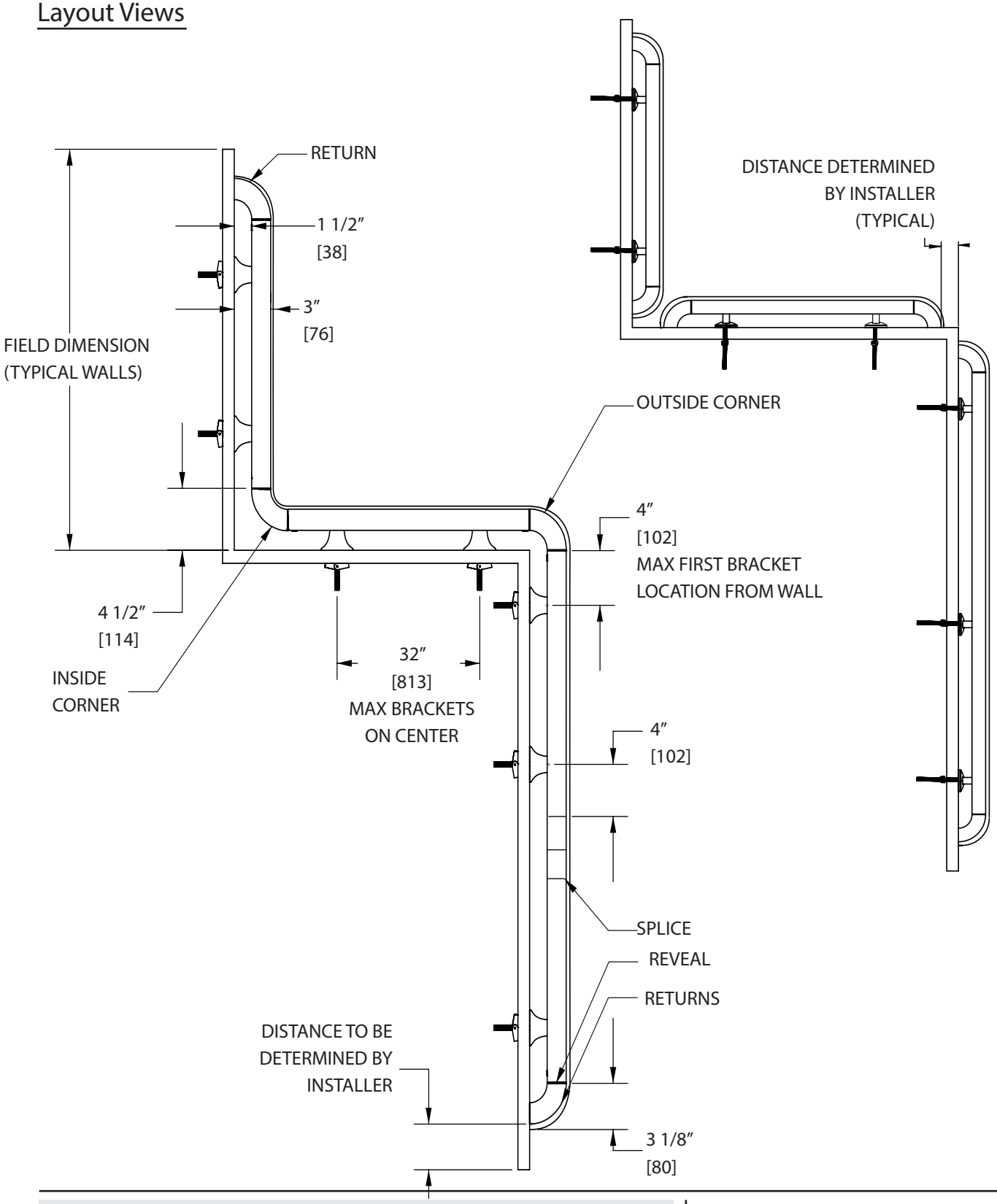
Installation Instructions

3110/3110FV/G2-3110/A3110 Handrails

Please read all instructions before installing handrail.

Layout Views



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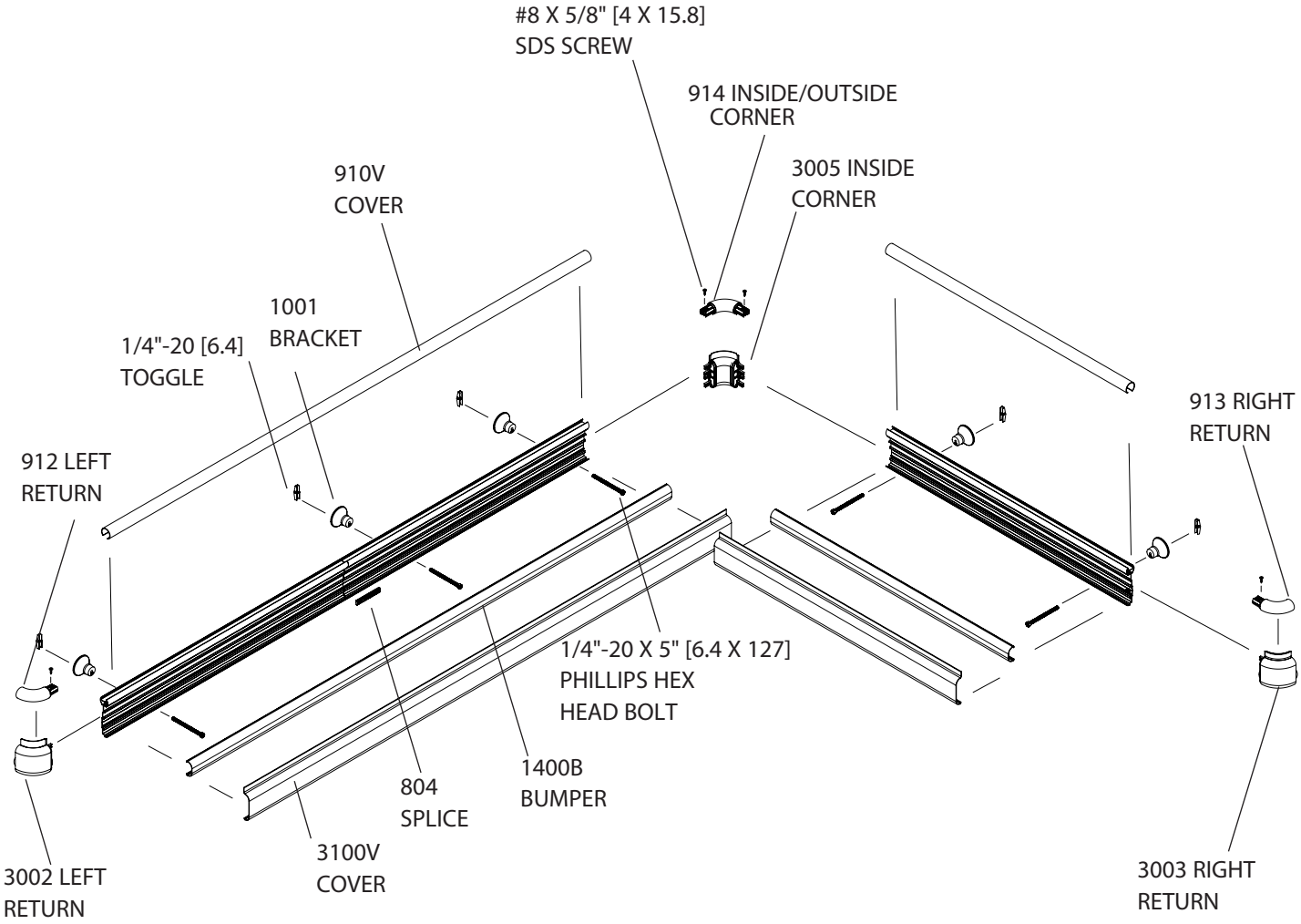

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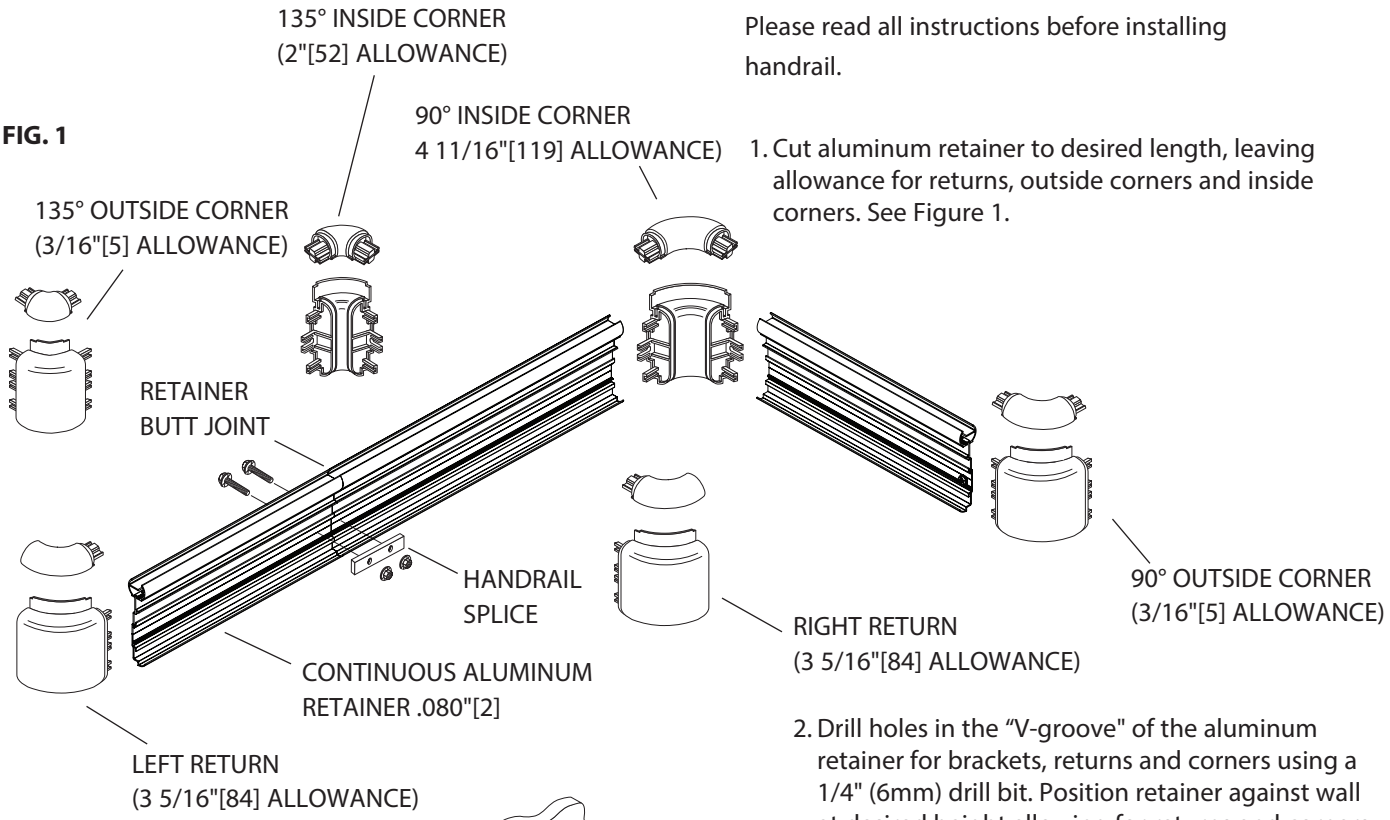
FIG. 1



Please read all instructions before installing handrail.

1. Cut aluminum retainer to desired length, leaving allowance for returns, outside corners and inside corners. See Figure 1.

2. Drill holes in the “V-groove" of the aluminum retainer for brackets, returns and corners using a 1/4" (6mm) drill bit. Position retainer against wall at desired height allowing for returns and corners. When assembled, the top of the handrail is 4 1/16" [103] above the “V-groove." Level and mark bracket holes on wall. Drill marked holes with 3/4" (19mm) drill bit for toggle bolts (drywall installation) or 1/2" (13mm) drill bit for lead anchor (concrete wall application). See Figure 2.

FIG. 2

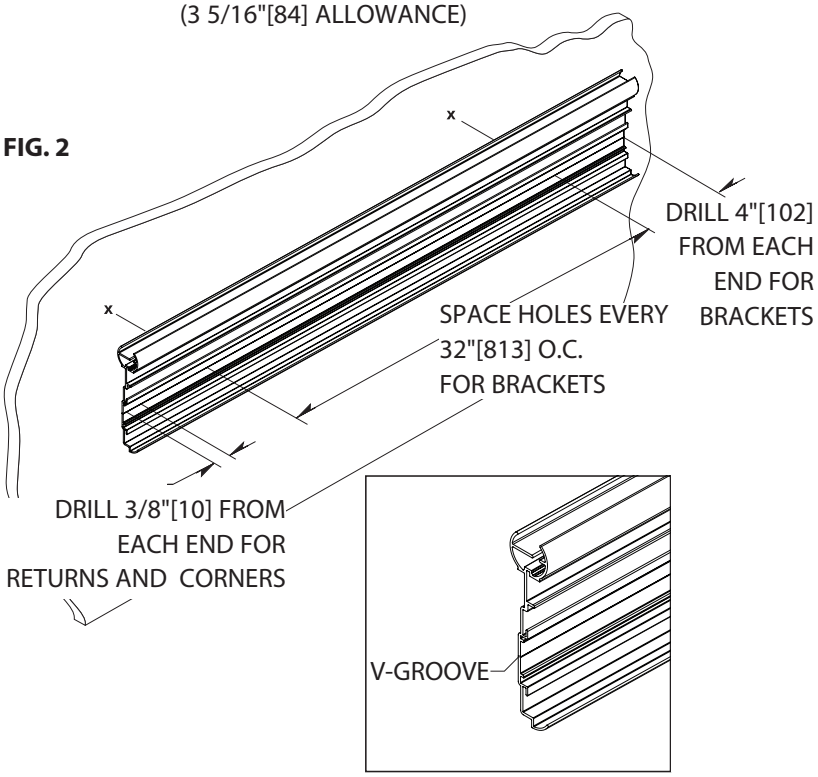


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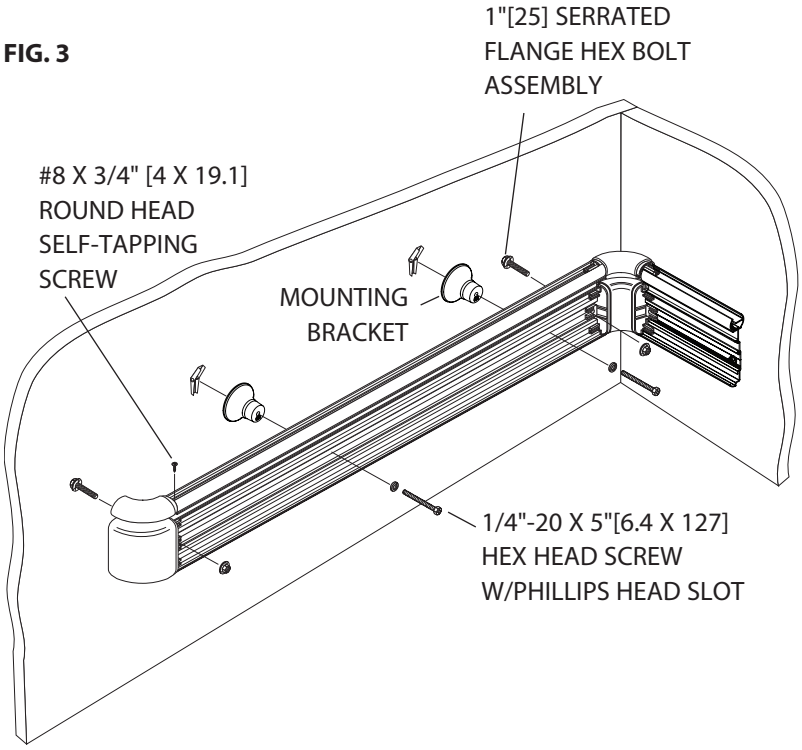
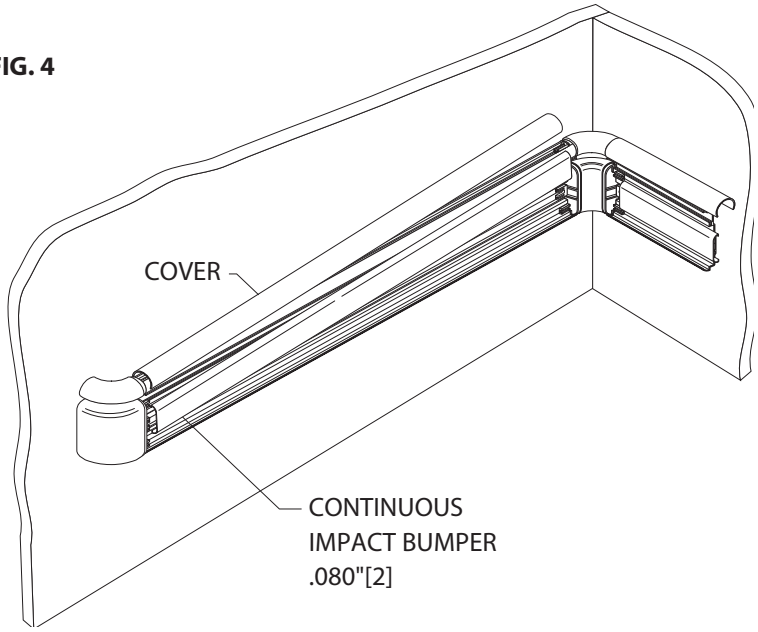
FIG. 3



3. Using a 1/4" (6mm) drill bit, drill hole through the tab on the returns/corners for the top portion of the handrail Slide tabs onto top portion of retainer and fasten. For the lower portion of the handrail slip optional reveal onto returns/corners, slide tabs of returns/corners onto retainer and fasten. Loosely attach brackets to retainer. Mount on wall, level retainer and tighten screws to secure. See Figure 3.

FIG. 4



4. 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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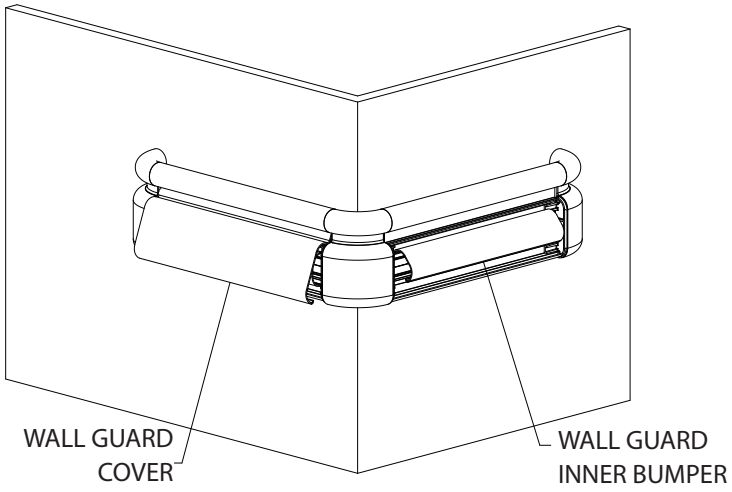
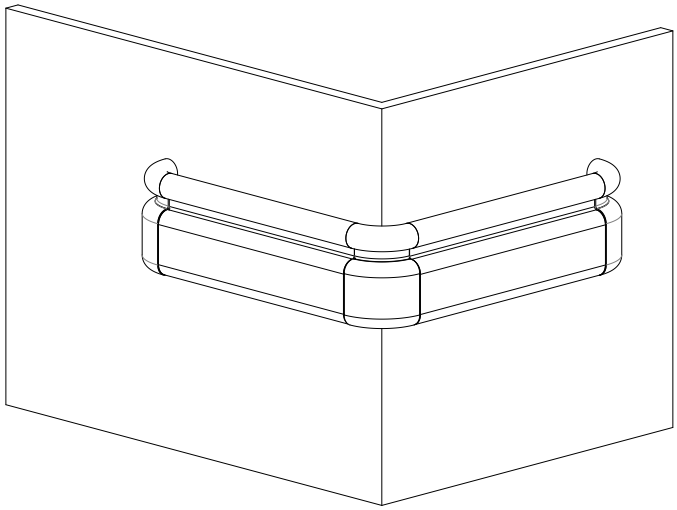
FIG. 5



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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