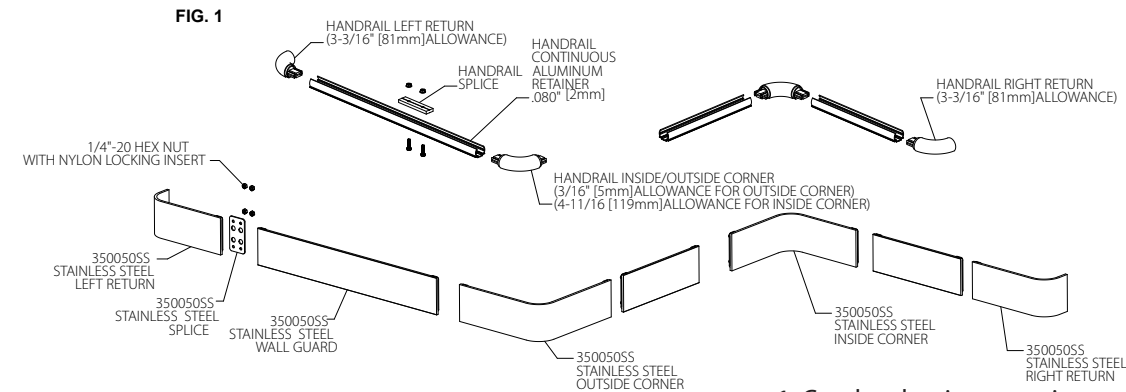


Installation Instructions

3500VS/G2-3500VS Handrail

Please read all instructions before installing handrail.

Note: Install product in environmentally controlled conditions. Acclimate the product to room temperature 24 hours before installation.



1. Cut the aluminum retainers to the desired length leaving allowances for returns, outside corners and inside corners. See **Figure 1**.

Handrail Allowances:

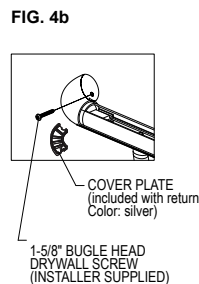
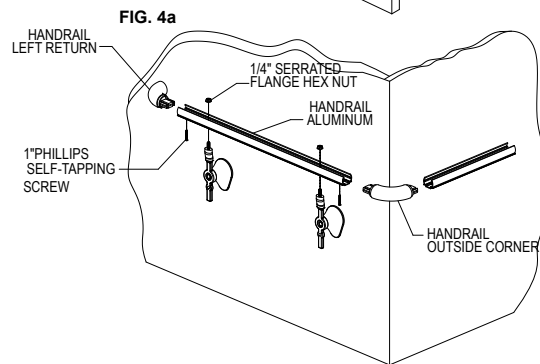
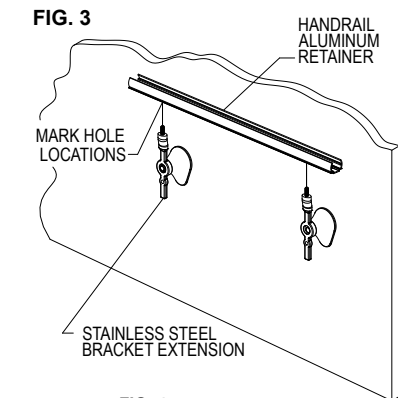
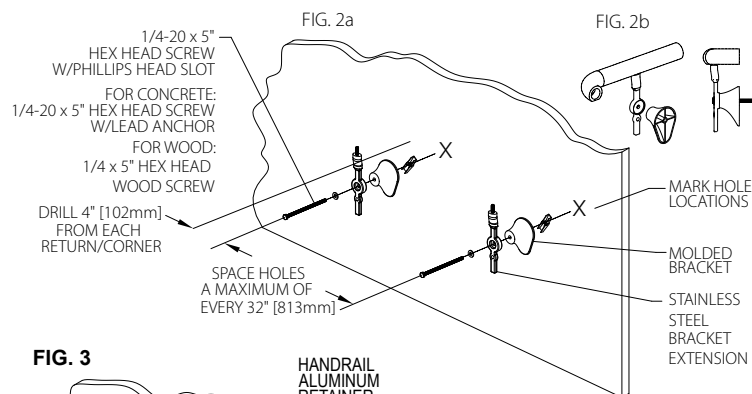
Returns - 3 3/16" [81mm]

Inside Corners - 4-11/16" [119mm]

Outside Corners - 3/16" [4.7mm]

Wall Guard Allowances: Stainless steel wall guards are manufactured to customer supplied measurements.

2. Snap a chalk line 4-7/16" [119mm] below the top of the handrail. Drill 3/4" [19mm] holes for toggle bolts (drywall/metal stud installation), 1/2" [13mm] holes for lead anchor (concrete wall installation) or 1/8" [3mm] pilot hole (wood screw into wood studs). Holes should be 4" [102mm] from each return or corner and spaced a maximum of 32" [813mm] O.C. Attached the molded bracket and stainless steel bracket extension to the wall using one 1/4-20 x 5" hex head screw, lock washer and toggle wing (concrete-1/4-20 x 5" hex head screw, lock washer and lead anchor), (wood stud-5" hex head wood screw and lock washer) per bracket. See **Figure 2a**. Note: Orientation of extension brackets. See **Figure 2b**.



3. Measure and transfer the handrail mounting hole locations from the top of the bracket extensions to the handrail aluminum retainer making sure you allow for the returns and corners. Drill 5/16" holes at these marks. See **Figure 3**.

4. Attach returns and corners to the aluminum retainer using 1" phillips self-taping screw. See **Figure 4a**. Attach the handrail retainer to the stainless steel bracket extensions using a lock washer and nut.

Note: Handrail Return should be secured to the wall. Remove the bottom plate of the handrail return and fasten the return with installer supplied screws through the hole location in the return. Re-attach bottom plate. See **Figure 4b**.

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Installation Instructions

3500VS/G2-3500VS Handrail

FIG. 5a

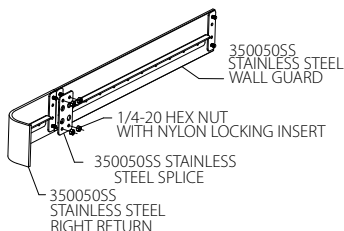


FIG. 5b

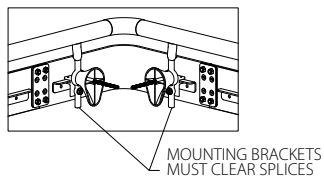


FIG. 6

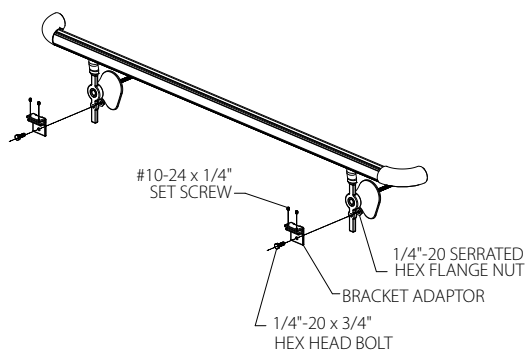


FIG. 7b

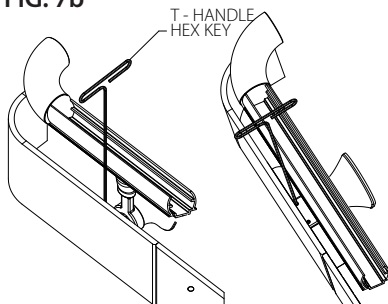


FIG. 7a

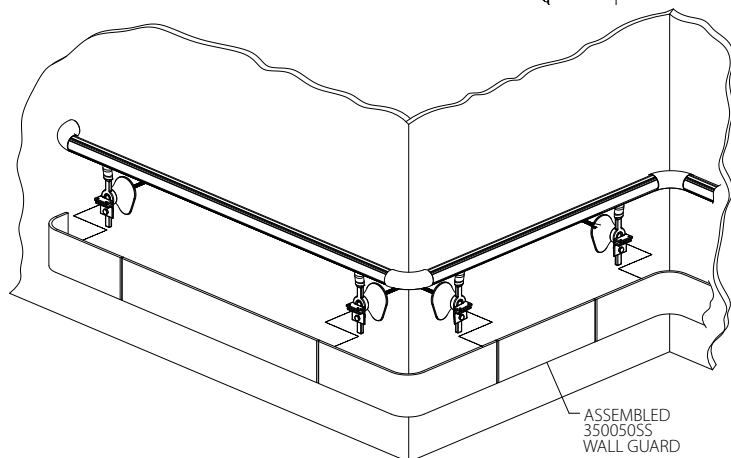
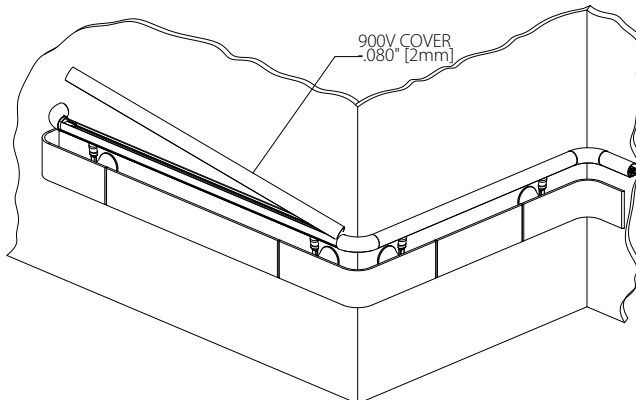


FIG. 8



5. Attach the returns and corners to the straight lengths using splices. Align mating pieces and fit splice plate over 4 studs. Fasten 1/4 hex nut with nylon locking insert, using a 7/16 wrench or socket set. See Figure 5a. When determining handrail bracket extension locations, brackets must be clear of splice location. See Figure 5b.

6. Attach bracket adapters to the stainless steel bracket extensions, 1/4-20 x 3/4" [19mm] hex head bolt and serrated hex flange nut. Level the adapters. See Figure 6.

7. Lift the wall guard assembly into position on the bracket adapters. See Figure 7a. Secure using two set screws in each adapter. See Figure 7a.

8. Measure and cut the handrail covers to length. Snap the cover on the aluminum retainer. See Figure 8.

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