

# Installation Instructions

## 3500VM/G2-3500VM 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.

FIG. 1

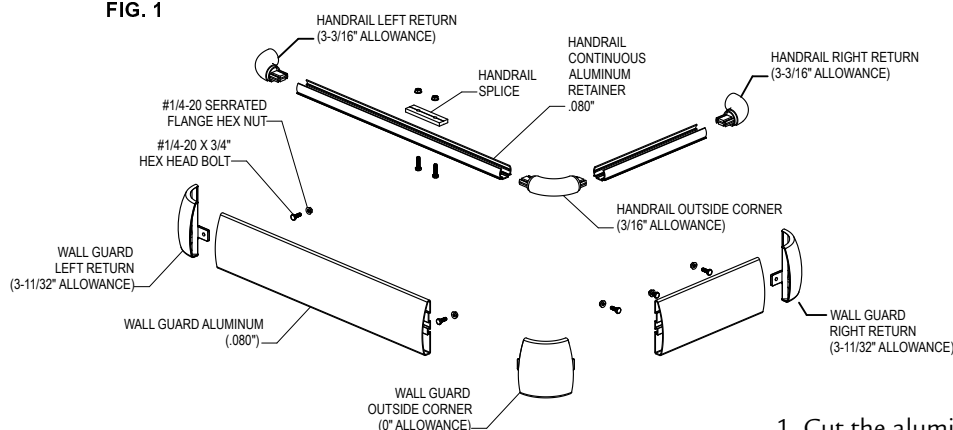


FIG. 2a

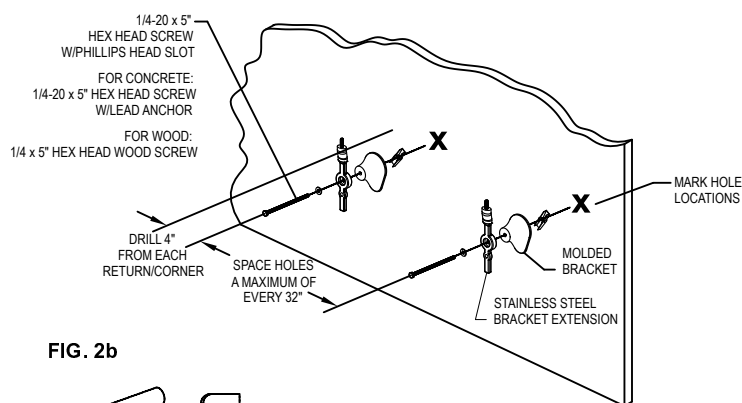


FIG. 2b

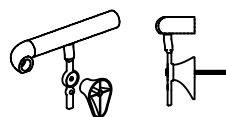
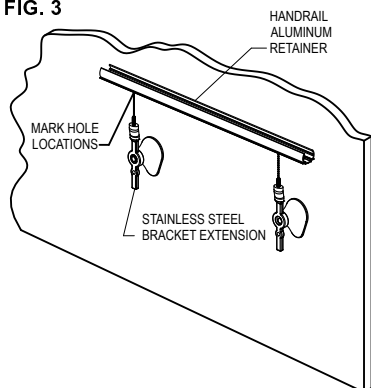


FIG. 3



1. Cut the aluminum retainers to the desired length leaving allowances for returns, outside corners and inside corners. The handrail aluminum is 3/8" shorter than the wall guard. Break sharp edges on metal wall guard with fine Emory cloth. See Figure 1.

Handrail Allowances:

Returns - 3-3/16"

Outside Corners - 3/16"

Wall Guards Allowances:

Returns - 3-11/32"

Outside corners - 0"

2. Snap a chalk line 4-7/16" below the top of the handrail. Drill 3/4" holes for toggle bolts (drywall/metal stud installation), 1/2" holes for lead anchor (concrete wall installation) or 1/8" pilot hole (wood screw into wood studs). Holes should be 4" from each return or corner and spaced a maximum of 32" 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.

IPC.647/REV.3

### Installation Questions?

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FIG. 4a

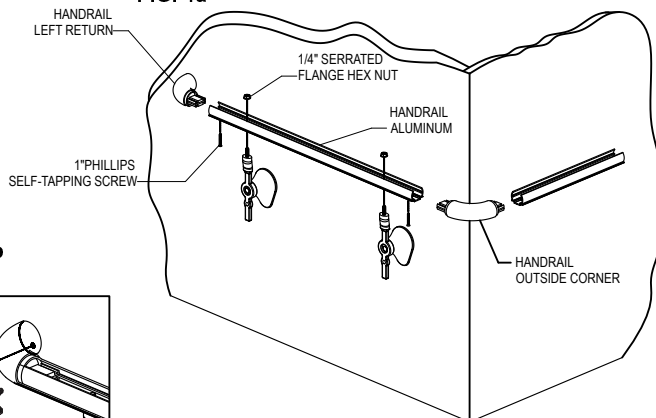
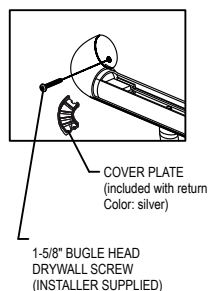


FIG. 4b



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 serrated flange hex 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.

5. Slide the hex head of the 1/4-20 x 3/4" bolts into the channel on the back of the wall guard. Slide them into position so they align with the holes in the bracket extensions. See Figure 5a. With lengths longer than 12', use a metal plate splice and 1/4-20 x 3/4" bolts to join sections. See Figure 5b. Attach the wall guard to the bracket extension using a serrated flange hex nut at each location. See Figure 5c. The handrail aluminum is 3/8" shorter than the wall guard. Center the wall guard aluminum between the ends of the handrail aluminum.

FIG. 5a

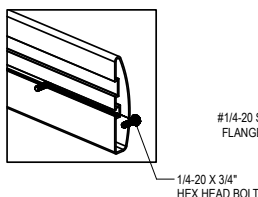


FIG. 5b

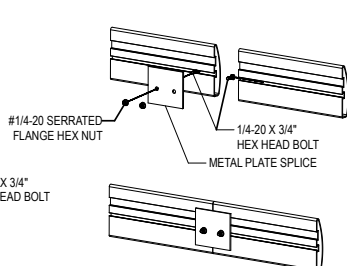


FIG. 5c

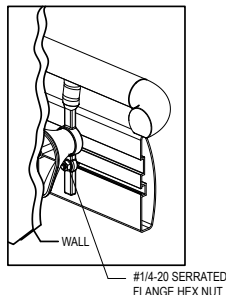


FIG. 6

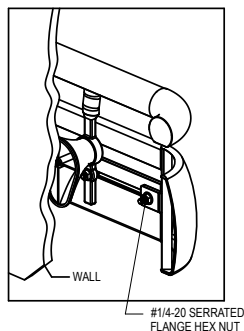
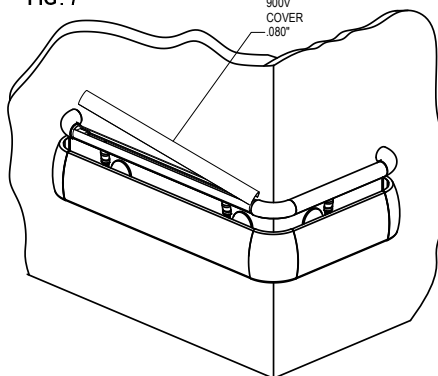


FIG. 7



6. Attach wall guard returns and corners to the straight lengths using 1/4-20 x 3/4" hex head screws and nuts. See Figure 6.

7. Cut the handrail cover to length between returns and/or corners. (Note: Trim factory edges square before installation). Position the cover on retainer at one end and work to the other end by snapping the cover over the retainer. See Figure 7.

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