

Installation Instructions

3500WM Handrail

Please read all instructions before installing handrail.

Install product in environmentally controlled conditions. Acclimate the handrail to room temperature 24 hours before installation. When storing straight lengths of materials, lay product flat on a supported surface. Do not lean the rails or lay them on unsupported parallel saw horses.

Note: Wood is a natural material therefore component color may vary. Sort the parts by color (light to dark) before use. Parts may appear different when viewed from the left or the right (metamerism). Keep this in mind when sorting parts.

1. Cut the wood handrail and aluminum wall guard to the desired length leaving allowances for returns and corners. Break or chamfer edges on straight wood pieces to match return/corner edges. Break sharp edges on aluminum wall guard with emery cloth. Finish as needed. See Figure 1.

Handrail Allowance:

Returns - 3"

Outside Corners - 0"

Wall Guard Allowances:

Return - 3-11/32"

Outside Corners - 0"

2. Drill 7/8" deep holes in the wood rail for threaded inserts using an 11/32" drill bit and insert guide for hole placement. Screw threaded inserts into the handrail with 6mm power bit or hex key. Holes should be 4" from each return and spaced a maximum of 32" O.C. See Figure 2.

3. Stainless Steel Returns, Corners and Splices:

a. Drill 1-1/4" deep holes for splines using a 5/32" drill bit and a spline guide for hole placement. Attach splines to handrail. See Figure 3a.

b. Attach returns, corners and splices to handrail by sliding component over the spline and tighten with set screw. See Figure 3b.

4. For Wood Returns and Corners: Drill holes for wood dowels using a 25/64" drill bit and a dowel guide for hole placement in each section of rail. Glue and clamp the handrail and return/corner assembly until the glue is set. Align the surfaces of the rail and returns/corners. See Figure 4.

Note: Joining wood rail to wood rail without using a stainless steel splice, follow instructions in step 4.

FIG. 1

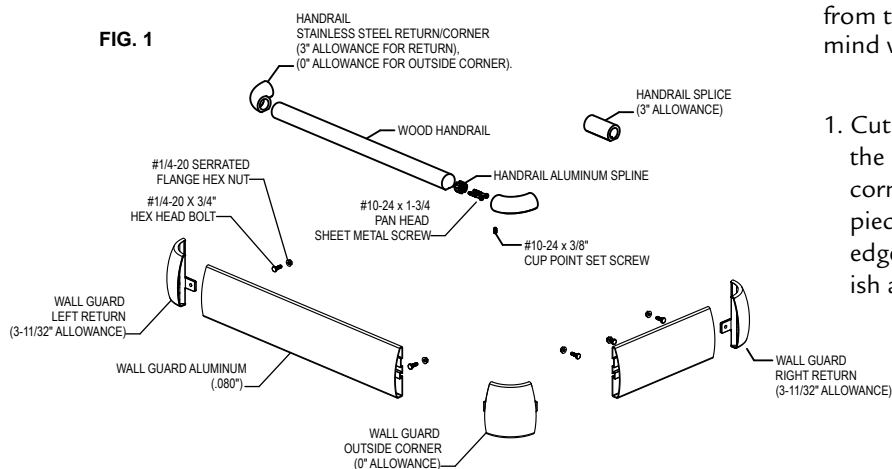


FIG. 2

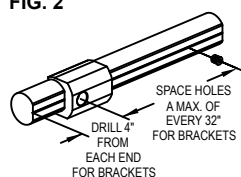


FIG. 3a

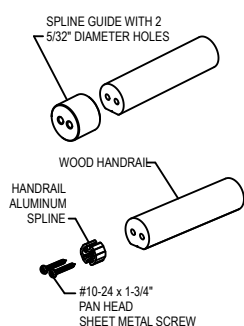


FIG. 3b

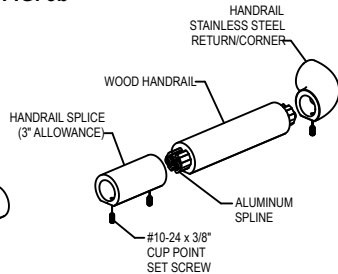
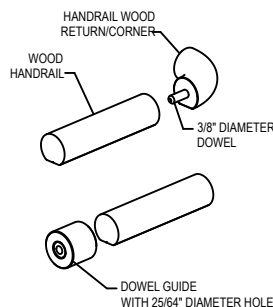


FIG. 4



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FIG. 5a

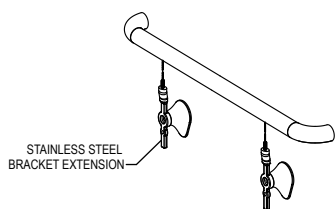


FIG. 5b

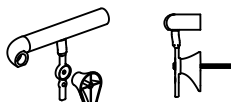
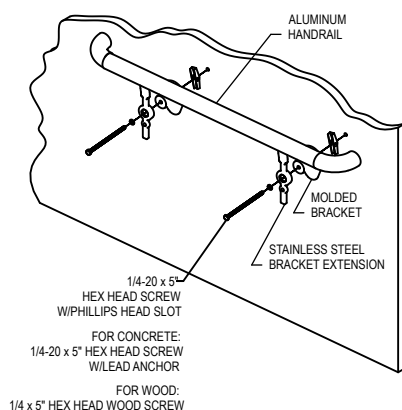


FIG. 6



5. Screw brackets extensions into the threaded inserts on the handrail and align bracket extensions. See Figure 5a.

Orientation of bracket extension is critical. See Figure 5b.

6. Snap a chalk line on the wall 4-7/16\"

7. Slide the hex head of the 1/4-20 x 3/4\"

With lengths longer than 12', use a metal plate splice and 1/4-20 x 3/4\"

Attach the wall guard to the bracket extension using a serrated flange hex nut at each location. See Figure 7c.

8. Attach wall guard returns and corners to the straight lengths using 1/4-20 x 3/4\"

FIG. 7a

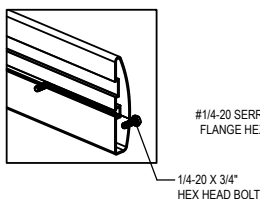


FIG. 7b

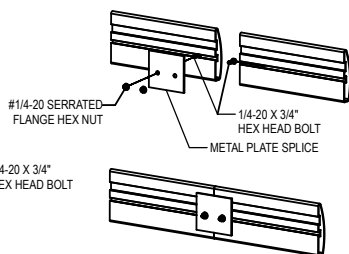


FIG. 7c

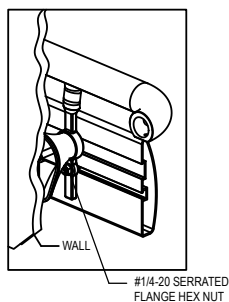
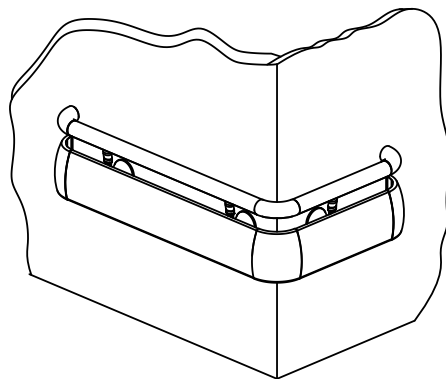
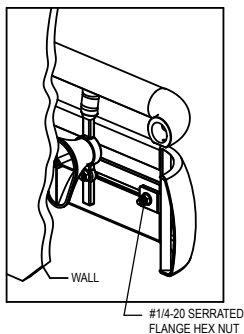


FIG. 8



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