

HRW-10CHL HANDRAIL

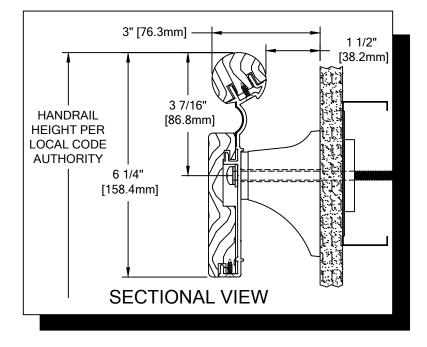
PLEASE READ

PLEASE READ THESE INSTRUCTIONS THOROUGHLY PRIOR TO BEGINNING THE <u>HRW-10CHL HANDRAIL</u> INSTALLATION!

THIS INSTRUCTION SHEET IS INTENDED TO PROVIDE A SPECIFIC GUIDE TO FOLLOW FOR THE INSTALLATION OF THIS <u>HRW-10CHL HANDRAIL</u>. CONTAINED WITHIN IS THE TECHNICAL INFORMATION AND INSTALLATION TECHNIQUES REQUIRED TO COMPLETE AN EFFICIENT, NEAT AND LONG-LASTING INSTALLATION.

INSPECT ALL MATERIALS FOR DAMAGE OR MISSING PARTS. IF YOU DISCOVER DAMAGED OR MISSING MATERIALS, IN THE USA PLEASE NOTIFY THE FACTORY AT (800) 233-8493, AND IN CANADA (888) 895-8955 FOR CUSTOMER SERVICE.

HRW-10CHL HANDRAIL MUST BE INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS! <u>FAILURE</u> TO FOLLOW THESE INSTRUCTIONS MAY VOID ANY PRODUCT WARRANTIES AND RESULT IN AN UNSUCCESSFUL INSTALLATION. FOR SPECIFIC QUESTIONS REGARDING THE INSTALLATION OF THIS HRW-10CHL HANDRAIL PLEASE CALL THE FACTORY IN THE USA AT (800) 233-8493 OR EMAIL IWPTECHSUPPORT@C-SGROUP.COM. IN CANADA CALL (888) 895-8955.



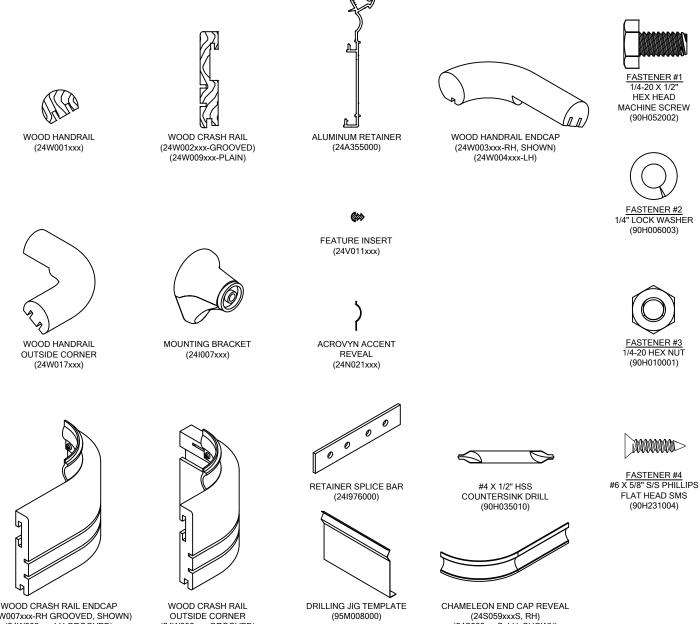
IMPORTANT NOTES

- 1. DUE TO WOOD BEING A NATURAL PRODUCT, COMPONENTS MAY GROW AND SHRINK AT DIFFERENT RATES. BECAUSE OF THIS, C/S HAS DESIGNED THIS HANDRAIL TO UTILIZE A BEVEL AS SHOWN IN THESE INSTRUCTIONS (SEE FIGURE 1). <u>THIS BEVEL MUST BE</u> <u>APPLIED AT ALL WOOD JOINTS AND MUST MATCH FACTORY BEVEL ON END CAPS</u>.
- 2. DUE TO THE NATURE OF WOOD, COMPONENT COLORS MAY VERY. SORT WOOD COMPONENTS AND MATCH PARTS BY COLOR.
- 3. ALL LINEAL MATERIAL TO BE SUPPLIED IN STOCK LENGTHS. WOOD IN 7'-0" TO 12'-0" VARIABLE, AND ALUMINUM IN LENGTHS UP TO 20'-0". THIS MATERIAL IS TO BE FIELD CUT USING QUALITY EQUIPMENT TO INSURE THAT ALL CUTS ARE SQUARE. WHEN CUTTING MATERIAL SECTIONS, C/S RECOMMENDS USING AN 80-100 TOOTH CARBIDE TIPPED SAW BLADE OR EQUIVALENT, TO MINIMIZE CHIPPING AND MAINTAIN JOINT ALIGNMENT.
- 4. RADIAL MATERIAL MAY BE SUPPLIED FACTORY FORMED OR IN STRAIGHT LENGTHS FOR FIELD FORMING. CONSULT FACTORY FOR OPTIONS.
- 5. ALL DIMENSIONS ARE TYPICAL.
- 6. FOR DRYWALL/PLASTER WALL CONSTRUCTION, IT IS RECOMMENDED FOR FASTENERS TO BE ENGAGED INTO METAL/WOOD STUDS TO MAINTAIN MAXIMUM PULLOUT STRENGTH. IF DURING INSTALLATION YOU ENCOUNTER SPECIAL WALL CONDITIONS THAT DO NOT ALLOW FOR DIRECT ATTACHMENT TO STUDS PLEASE CONSULT THE LOCAL AUTHORITY HAVING JURISDICTION.
- 7. INSTALL OUTSIDE CORNERS FIRST.
- 8. INSTALL LONGEST RUN OF HANDRAIL FIRST.
- 9. MATERIAL MUST REACH 65°F MIN. TO 75°F MAX. 24 HOURS PRIOR TO INSTALLATION. THIS IS ESSENTIAL TO MINIMIZE EXPANSION AND CONTRACTION OF MATERIAL.
- 10. MAY REQUIRE USE OF FIRE PUTTY WHEN INSTALLED ON FIRE WALL WITH TOGGLE BOLTS. REFERENCE INSTRUCTIONS <u>24FIREPUTTY</u> FOR FIRE PUTTY INSTALLATION.
- 11. THIS HANDRAIL REQUIRES A <u>MINIMUM</u> OF 2 MOUNTING BRACKETS PER UNIT. THE <u>MINIMUM</u> END CAP-TO-END CAP CRASH RAIL LENGTH IS 12" [304.8mm].
- 12. FOR HIGH LOAD HANDRAIL USE A MINIMUM 20 GA. STEEL STUD AND 20 GA. STEEL STRAPPING AND 5/8" GYPSUM WALL BOARD.
- 13. FOR MORE INFORMATION ON HRW-10CHL HANDRAIL SEE OUR WEBSITE AT www.c-sgroup.com. Doc#: II-24HRW10CHL Issue Date: 08/11/14

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COMPONENTS & WALL FASTENERS



WOOD CRASH RAIL ENDCAP
(24W007xxx-RH GROOVED, SHOWN)
(24W008xxx-LH GROOVED)
(24W010xxx-RH PLAIN)
(24W011xxx-LH PLAIN)
. ,

(24W006xxx-GROOVED) (24W021xxx-PLAIN)

(24S060xxxS, LH, SHOWN)

WALL

1/2"

DRILL DIAMETERS

RETAINER

9/32"

C/S PART

NUMBER

90H872004

90H873004

90H006003

90H007003

Rev Date: 06/24/16

(HIGH LOAD)

WALL CONDITION

20 GA. STEEL STUD/GYPSUM WALL

SPECIFIED FASTENER

1/4-20 X 5" S/S PHILLIPS PAN HEAD MACHINE SCREW

1/4" S/S TOGGLER WING

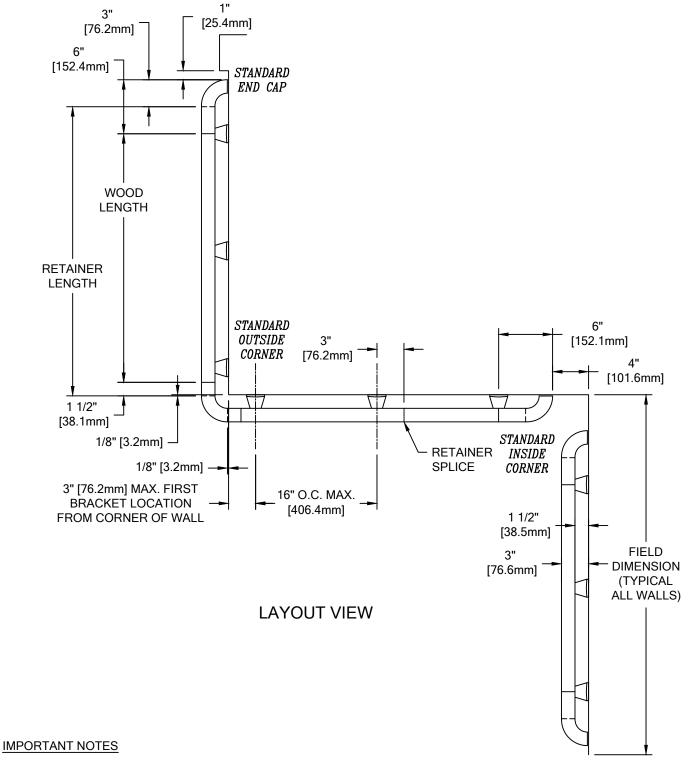
1/4" LOCK WASHER

1/4" FLAT WASHER

24HRW10CHL



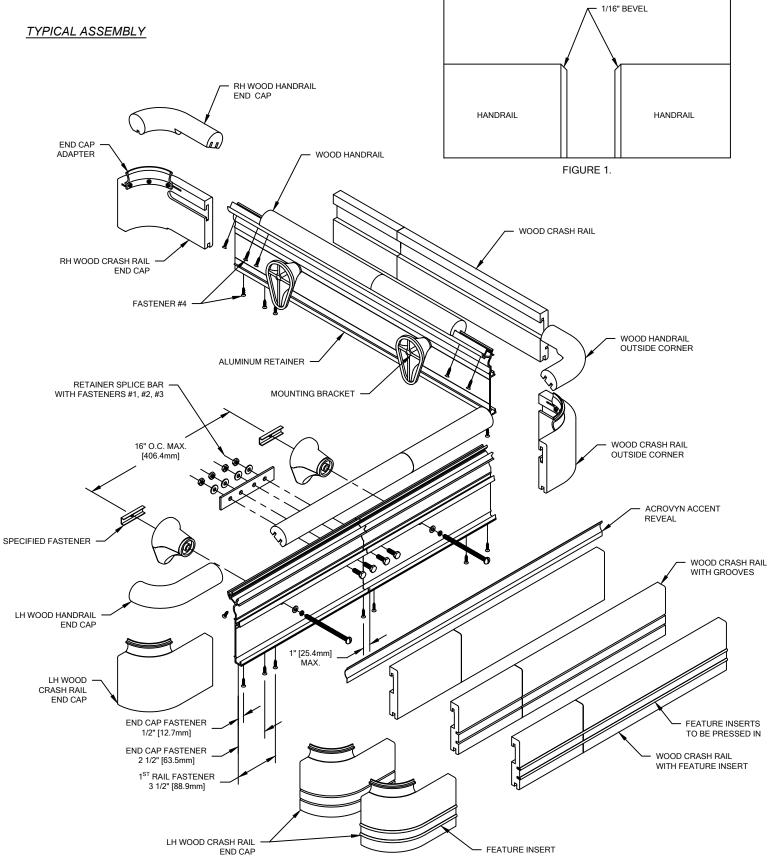
LAYOUT VIEW



- 1. ALUMINUM RETAINER SPLICES SHOULD NOT EXCEED 3" [76.2mm] DISTANCE FROM A BRACKET.
- 2. THE DISTANCE BETWEEN A WOOD SPLICE JOINT AND AN ALUMINUM RETAINER SPLICE JOINT SHOULD NOT BE LESS THAN 12" [304.8mm].
- 3. TANGENT POINTS ON FACTORY FORMED RADIAL MATERIAL WILL BE MARKED APPROXIMATELY AND SHOULD BE CUT TO SUIT FIELD CONDITIONS.

24HRW10CHL







HRW-10CHL HANDRAIL

NOTE: INSTALLATION OF LINEAL OR RADIAL HRW-10CHL HANDRAIL SHOULD BE DONE IN ACCORDANCE WITH THE FOLLOWING INSTRUCTIONS.

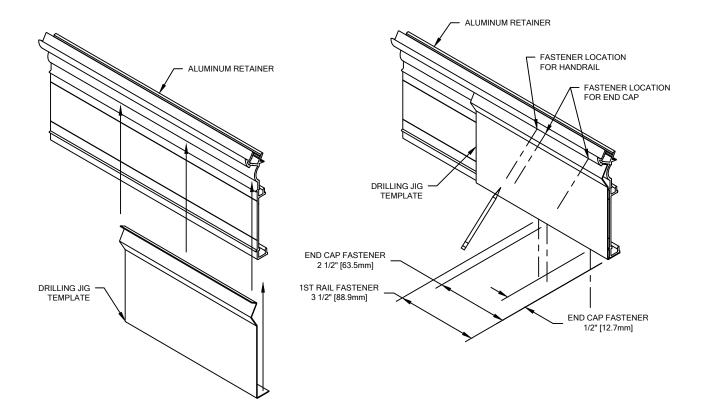
- 1. USE LOCAL CODE REQUIREMENTS AND ESTABLISH HANDRAIL HEIGHT ABOVE FINISH FLOOR. DEDUCT 3 7/16" [87.3mm] AND SNAP A CHALK LINE AT THAT HEIGHT. THIS MARKS THE LOCATION OF THE MOUNTING BRACKET FASTENERS.
- 2. CUT THE CONTINUOUS RETAINER TO LENGTH USING THE REQUIRED DEDUCTIONS AS NOTED (SEE LAYOUT VIEW). PRE-DRILL CLEARANCE HOLES IN THE ALUMINUM RETAINER FOR THE MOUNTING BRACKETS 3" [76.2mm] FROM EACH END AND 16" [406.4mm] O.C. AS REQUIRED AT THE V-GROOVE ALONG THE FRONT OF THE RETAINER. <u>FILE ALL ENDS OF RETAINER TO REMOVE BURRS AND SHARP</u> EDGES AT HANDRAIL.

NOTE: IT IS RECOMMENDED THAT THE ALUMINUM RETAINER BE CUT WITH AN 80-100 TOOTH CARBIDE TIPPED SAW BLADE OR EQUIVALENT.

- 3. A TEMPLATE IS SUPPLIED TO LOCATE HOLES IN THE RETAINER FOR FASTENING WOOD COMPONENTS (SEE ILLUSTRATION BELOW). USE THE SUPPLIED COUNTERSINKING DRILL FOR HOLES WHERE WOOD COMPONENTS ARE TO BE FASTENED TO RETAINER. THIS WILL ALLOW SCREW HEADS TO BE FLUSH WITH RETAINER WHEN ASSEMBLED. COUNTERSUNK HOLES FOR WOOD RAIL NEED TO BE 24" ON CENTER MAX. REMOVE ANY BURRS LEFT FROM DRILLING AND COUNTERSINKING HOLES IN RETAINER.
- 4. DRILL CLEARANCE HOLES IN WALL SURFACE FOR MOUNTING HARDWARE, USING THE RETAINER AS A TEMPLATE. REFERENCE CHART ON PAGE 2 FOR CORRECT DRILL DIAMETER.

NOTE: FASTENERS MUST BE ENGAGED IN BOTH THE STRAPPING AND STUDS.

5. APPLY ACCENT REVEAL TO RETAINER USING DOUBLE-FACED TAPE.



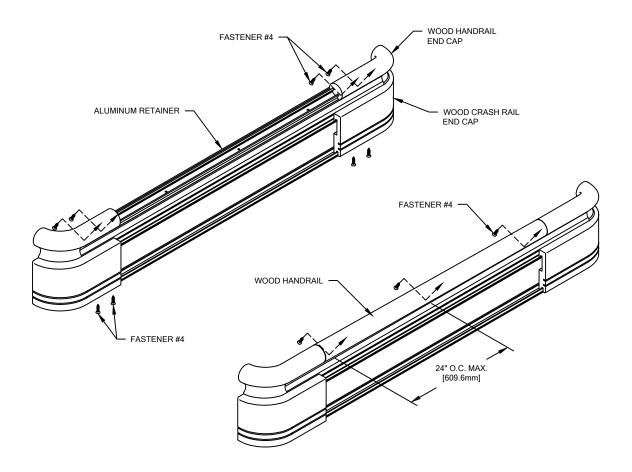


6. ATTACH CRASH RAIL END CAPS/OUTSIDE CORNER TO EACH END OF RETAINER. USING THE HOLE IN THE RETAINER AS A GUIDE, DRILL 3/32" DIAMETER PILOT HOLES 3/8" DEEP INTO THE CRASH RAIL END CAP TO ACCEPT THE #6 X 5/8" PHILLIPS FLAT HEAD SHEET METAL SCREWS.

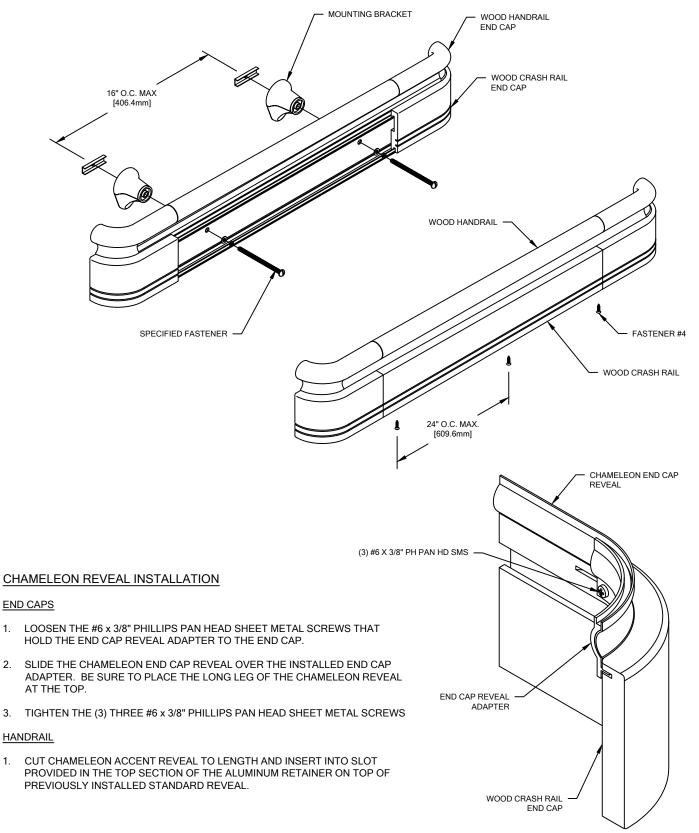
- 7. ATTACH HANDRAIL END CAPS/OUTSIDE CORNER. THIS CAP FITS ONTO RETAINER AS WELL AS THE TOP OF THE MAIN BODY ADAPTER. USING THE HOLE IN THE RETAINER AS A GUIDE, DRILL 3/32" DIAMETER PILOT HOLES 3/8" DEEP IN THE HANDRAIL END CAP TO ACCEPT THE #6 X 5/8" SCREWS.
- 8. CUT THE WOOD HANDRAIL TO LENGTH USING THE REQUIRED DEDUCTIONS (REFERENCE LAYOUT VIEW). BEVEL THE HANDRAIL EDGES SLIGHTLY WITH 150 GRIT SANDPAPER (SEE FIGURE 1). <u>TOUCH UP SANDED EDGES WITH SUPPLIED STAIN MARKER</u>.
- 9. USING THE HOLE IN THE ALUMINUM RETAINER AS A GUIDE, DRILL 3/32" DIAMETER PILOT HOLES 3/8" DEEP IN THE TOP WOOD HANDRAIL TO ACCEPT THE #6 X 5/8" SCREWS. ATTACH THE WOOD HANDRAIL TO THE RETAINER USING THE SUPPLIED SCREWS.
- 10. INSTALL EACH SECTION OF ASSEMBLED RETAINER IN SUCCESSION USING THE ACROVYN MOUNTING BRACKETS AND APPROPRIATE FASTENERS. REFERENCE CHART ON PAGE 2. USE A LEVEL TO ASSURE RETAINER IS LEVEL.

NOTE: WHEN FIELD FORMING RADIUS HANDRAIL, BE SURE TO APPLY NEEDED PRESSURE FROM BRACKET TO BRACKET.

- 11. CUT THE WOOD CRASH RAIL TO LENGTH USING THE REQUIRED DEDUCTIONS (REFERENCE LAYOUT VIEW). BEVEL THE CRASH RAIL EDGES SLIGHTLY WITH 150 GRIT SANDPAPER (SEE FIGURE 1). <u>TOUCH UP SANDED EDGES WITH SUPPLIED STAIN MARKER</u>.
- 12. USING THE HOLE IN THE ALUMINUM RETAINER AS A GUIDE, DRILL 3/32" DIAMETER PILOT HOLES 3/8" DEEP IN THE BOTTOM WOOD CRASH RAIL TO ACCEPT THE #6 X 5/8" SCREWS. ATTACH THE WOOD CRASH RAIL TO THE RETAINER USING THE SUPPLIED SCREWS.









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06/24/16

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