WITH LIGATURE RESISTANT MOUNTING BRACKET

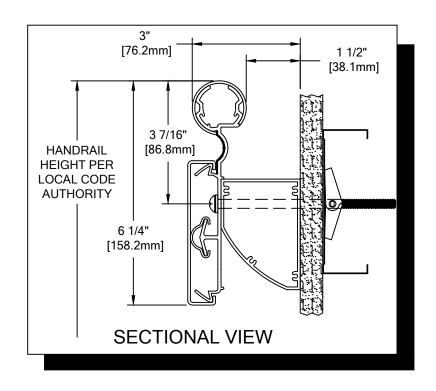
PLEASE READ

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

THIS INSTRUCTION SHEET IS INTENDED TO PROVIDE A SPECIFIC GUIDE TO FOLLOW FOR THE INSTALLATION OF THIS <u>HRB-10CCMN 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.

HRB-10CCMN HANDRAIL MUST BE INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS! FAILURE TO FOLLOW THESE INSTRUCTIONS MAY VOID ANY PRODUCT WARRANTIES AND RESULT IN AN UNSUCCESSFUL INSTALLATION. FOR SPECIFIC QUESTIONS REGARDING THE INSTALLATION OF THIS HRB-10CCMN 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

- ALL LINEAL MATERIAL TO BE SUPPLIED IN STOCK LENGTHS. ALUMINUM AND ACROVYN 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.
- 2. ALL DIMENSIONS ARE TYPICAL.
- 3. 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 THE STUDS PLEASE CONSULT THE LOCAL AUTHORITY HAVING JURISDICTION.
- 4. INSTALL OUTSIDE CORNERS FIRST.
- 5. INSTALL LONGEST RUN OF HANDRAIL FIRST.
- 6. ALUMINUM RETAINER SPLICES SHOULD NOT EXCEED 3" [76.2mm] DISTANCE FROM A FASTENER.
- 7. THE DISTANCE BETWEEN AN ACROVYN SPLICE JOINT AND AN ALUMINUM RETAINER SPLICE JOINT SHOULD BE STAGGERED 4" [101.6mm].
- 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.
- 9. MAY REQUIRE USE OF FIRE PUTTY WHEN INSTALLED ON FIRE WALL WITH TOGGLE BOLTS. REFERENCE INSTRUCTIONS <u>24FIREPUTTY</u> FOR FIRE PUTTY INSTALLATION.
- 12. THIS HANDRAIL REQUIRES A MINIMUM OF 2 FASTENERS PER LIGATURE RESISTANT MOUNTING BRACKET PER UNIT. THE MINIMUM END CAP-TO-END CAP CRASH RAIL LENGTH IS 13" [330.2mm]
- 13. FOR MORE INFORMATION ON HRB-10CCMN HANDRAIL SEE OUR WEBSITE AT www.c-sgroup.com.

COMPONENTS & WALL FASTENERS



ACROVYN HANDRAIL COVER (24U032xxx) ACROVYN WOODGRAINS AND BRUSHED METALS COVER (24U610xxx)



RC-10 CUSHION (24U967108H)



ACROVYN CRASH RAIL COVER (24U009xxx) ACROVYN WOODGRAINS AND BRUSHED METALS COVER (24U616xxx)



LIGATURE RESISTANT MOUNTING BRACKET (24A365000)



LIGATURE RESISTANT END PLATE (24F412000, LH SHOWN) (24F413000, RH)



FASTENER #1 #6 X 5/8" PHILLIPS FLAT HEAD SMS (90H231002)



FASTENER #2 #10-24 X 1/2" HEX HEAD MACHINE SCREW (90H939002)

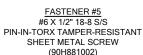


FASTENER #3 #10 LOCK WASHER (90H370002)



FASTENER #4 #10 HEX NUT (90H368002)







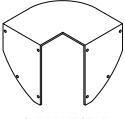
ALUMINUM RETAINER (24A354000)



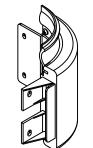
HANDRAIL END CAP (24I083xxx, RH SHOWN) (24I082xxx, LH) ACROVYN WOODGRAINS AND BRUSHED METALS END CAP (24I634xxx, RH SHOWN) (24I610xxx, LH)



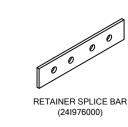
CRASH RAIL END CAP ASSEMBLY (RIGHT-HAND SHOWN) (LEFT-HAND AVAILABLÉ)



LIGATURE RESISTANT **OUTSIDE CORNER PLATE** (24F411000)



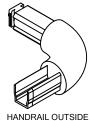
CRASH RAIL OUTSIDE CORNER ASSEMBLY



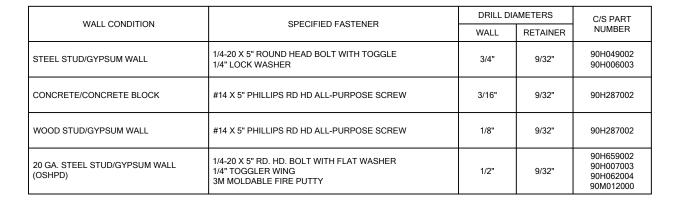


ACROVYN ACCENT REVEAL

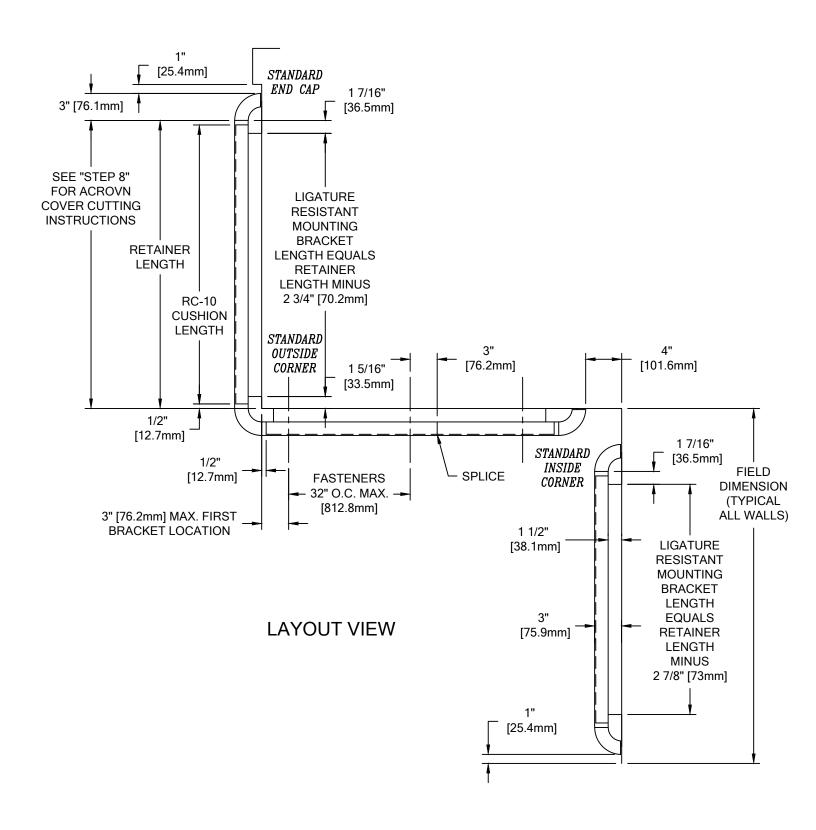
(24N021xxx)

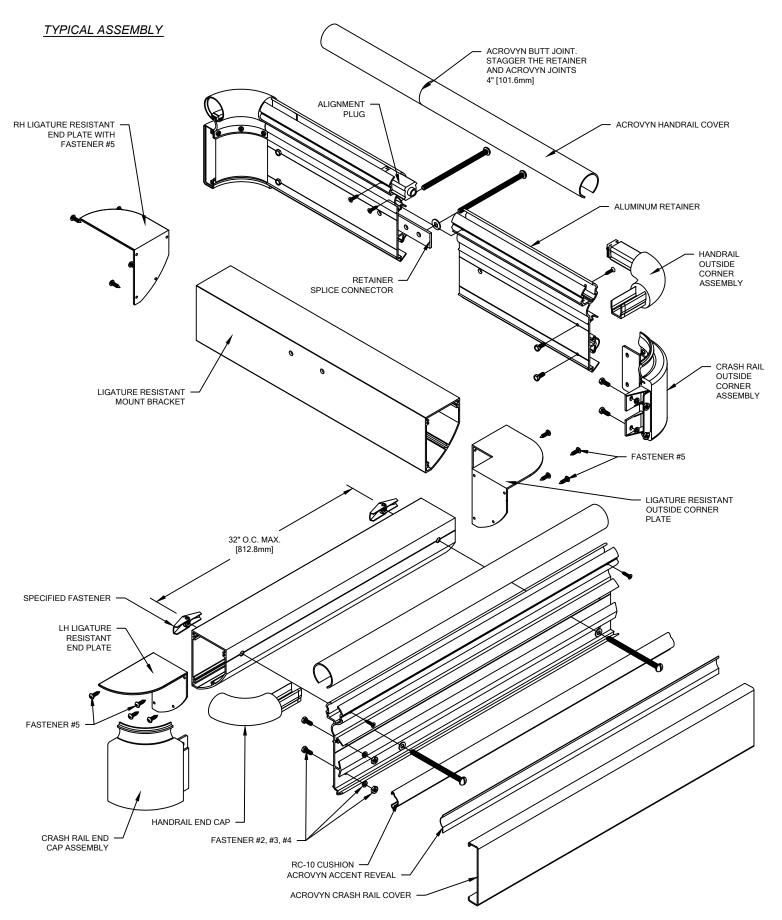


CORNER ASSEMBLY

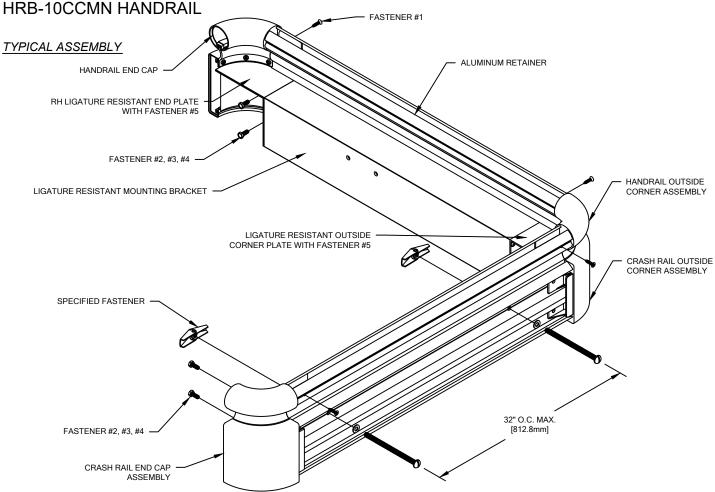


LAYOUT VIEW









NOTE: INSTALLATION OF LINEAL HRB-10CCMN HANDRAIL SHOULD BE DONE IN ACCORDANCE WITH THE FOLLOWING INSTRUCTIONS.

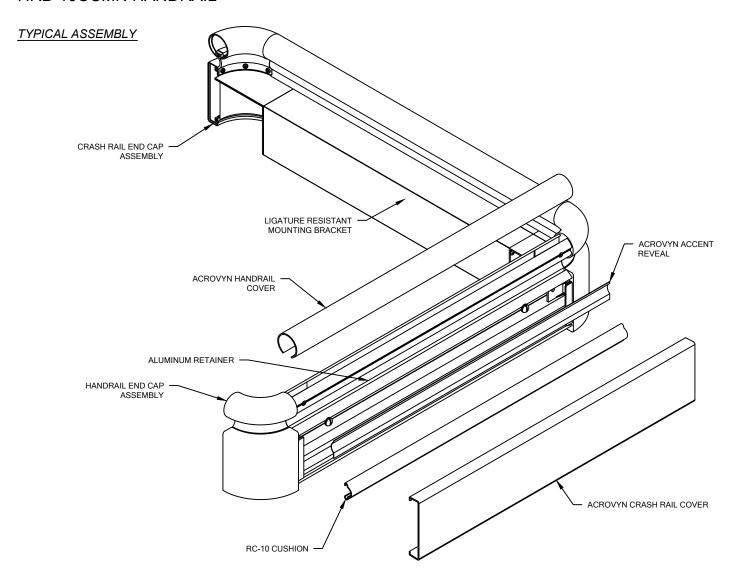
- USING "LOCAL CODE" REQUIREMENTS, ESTABLISH HANDRAIL HEIGHT ABOVE FINISH FLOOR. DEDUCT 3 7/16" [86.8mm] AND SNAP A CHALK LINE AT THAT HEIGHT. THIS MARKS THE LOCATION OF THE HOLE FOR THE MOUNTING BRACKET FASTENER.
- 2. CUT THE CONTINUOUS ALUMINUM RETAINER AND THE LIGATURE RESISTANT MOUNTING BRACKET TO LENGTH USING THE REQUIRED DEDUCTIONS (REFERENCE LAYOUT VIEW).

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

- 3. ATTACH THE LIGATURE RESISTANT END PLATES / OUTSIDE CORNER PLATES WITH (4) #6 X 1/2" TAMPER-RESISTANT SHEET METAL SCREWS ((8) FOR OUTSIDE CORNER PLATES).
- 4. ATTACH ALL END CAPS/OUTSIDE CORNERS:
 - A. ATTACH HANDRAIL PORTION OF END CAP TO RETAINER:
 - DRILL 5/32" DIAMETER CLEARANCE HOLES IN RETAINER 3/4" [19.1mm] FROM END OF RETAINER.
 - INSERT THE END CAPS INTO THE RETAINER.
 - DRILL 3/32" DIAMETER PILOT HOLES INTO THE END CAP.
 - ATTACH END CAP TO RETAINER USING #6 x 5/8" PHILLIPS FLAT HEAD SHEET METAL SCREW.
 - B. ATTACH CRASH RAIL PORTION OF END CAP TO THE RETAINER:
 - USE END CAP AS TEMPLATE TO DRILL 7/32" PILOT HOLES IN RETAINER.
 - ATTACH END CAP/OUTSIDE CORNERS BY SLIDING THE END CAP ONTO THE END OF THE ALUMINUM RETAINER AND SECURING INTO
 POSITION USING TWO (2) #10-24 X 1/2" HEX HEAD MACHINE SCREW WITH LOCK WASHER AND #10 HEX NUT AT EACH END CAP AND FOUR (4)
 AT EACH OUTSIDE CORNER.

NOTE: TO AID IN LOCATING THE END CAPS CORRECTLY, CUT A 4" [101.6mm] SECTION OF COVER FROM SCRAP AND SNAP IT ON THE RETAINER. LOCATE THE CAP SO IT ALIGNS FLUSH WITH THE TOP AND BOTTOM OF THE COVER.

- 5. PRE-DRILL CLEARANCE HOLES IN THE ALUMINUM RETAINER AND LIGATURE RESISTANT MOUNTING BRACKETS 3" [76.2mm] FROM EACH END OF THE RETAINER AND 32" [812.8mm] O.C. AS REQUIRED AT THE V-GROOVE ALONG THE FRONT OF THE RETAINER AND MOUNTING BRACKET. FILE ALL ENDS OF RETAINER TO REMOVE BURRS AND SHARP EDGES AT HANDRAIL.
- DRILL CLEARANCE HOLES IN WALL SURFACE FOR MOUNTING HARDWARE, USING THE RETAINER AND LIGATURE RESISTANT MOUNTING BRACKET
 AS A TEMPLATE. REFERENCE CHART ON PAGE 2 FOR CORRECT DRILL DIAMETERS.
- 7. INSTALL EACH SECTION OF ASSEMBLED RETAINER IN SUCCESSION USING THE MOUNTING BRACKET AND THE APPROPRIATE WALL FASTENERS.



- 8. CUT RC-10 CUSHION TO LENGTH NOTING REQUIRED DEDUCTIONS (SEE LAYOUT VIEW) AND INSTALL ONTO ALUMINUM RETAINER.
- 9. CUT ACCENT REVEAL TO LENGTH AND INSERT INTO SLOT PROVIDED IN THE TOP SECTION OF THE ALUMINUM RETAINER.

NOTE: SEE PAGE 8 FOR ACROVYN WOODGRAINS AND BRUSHED METALS REVEAL INSTALLATION.

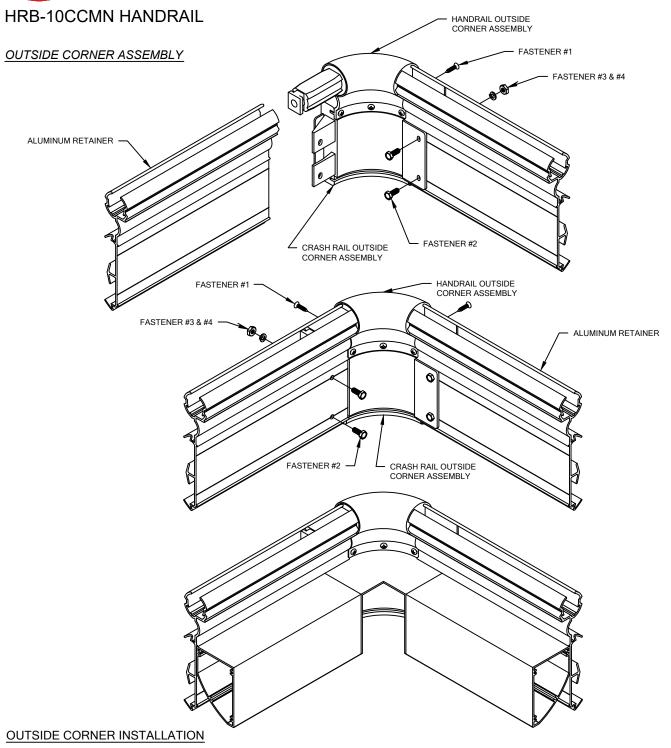
10. CUT ACROVYN HANDRAIL COVER AND ACROVYN CRASH RAIL TO LENGTH. THE COVER LENGTH IS DETERMINED BY MEASURING THE DISTANCE BETWEEN THE INSTALLED END CAPS AND/OR OUTSIDE CORNER ASSEMBLIES.

NOTE: IT IS RECOMMENDED THAT THE ACROVYN COVERS BE CUT SLIGHTLY LONGER (1/32" UP TO 5'-0", 1/16" OVER 5'-0") THAN THE MEASURED DISTANCE. THIS ADDITIONAL LENGTH WILL PROVIDE FOR A TIGHTER COVER-TO-END CAP FIT.

- 11. STARTING AT ONE END, SNAP THE HANDRAIL COVER ONTO THE RETAINER ALONG THE LENGTH OF THE HANDRAIL.
- 12. COMPLETE INSTALLATION BY INSTALLING THE ACROVYN COVER ONTO THE LOWER PORTION OF THE RETAINER.

NOTE: MANUFACTURER RECOMMENDS ALL PRINTED "PRODUCT IDENTIFICATION" ON THE REAR OF THE ACROVYN PROFILE SHALL BE ORIENTED IN THE SAME DIRECTION DURING INSTALLATION TO ENSURE PROPER ALIGNMENT AT SPLICE BUTT JOINTS.

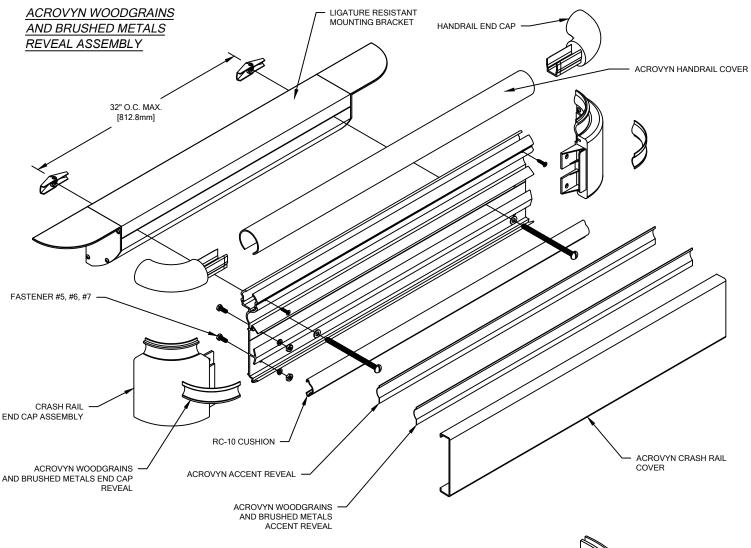




- 1. ATTACH ALL OUTSIDE CORNERS:
 - A. ATTACH HANDRAIL PORTION OF OUTSIDE CORNER TO RETAINER:
 - DRILL 5/32" DIAMETER CLEARANCE HOLES IN RETAINER 3/4" [19.1mm] FROM END OF RETAINER.
 - INSERT THE OUTSIDE CORNERS INTO THE RETAINER.
 - DRILL 3/32" DIAMETER PILOT HOLES INTO THE END CAP.
 - ATTACH OUTSIDE CORNER TO RETAINER USING #6 x 5/8" PHILLIPS FLAT HEAD SHEET METAL SCREW.
 - B. ATTACH CRASH RAIL PORTION OF OUTSIDE CORNER TO THE RETAINER:
 - USE OUTSIDE CORNER AS TEMPLATE TO DRILL 7/32" PILOT HOLES IN RETAINER.
 - ATTACH OUTSIDE CORNERS BY SLIDING THE CORNER ONTO THE END OF THE ALUMINUM RETAINER AND SECURING INTO POSITION USING FOUR (4) #10-24 X 1/2" HEX HEAD MACHINE SCREW WITH LOCK WASHER AND #10 HEX NUT AT EACH OUTSIDE CORNER.

NOTE: TO AID IN LOCATING THE OUTSIDE CORNERS CORRECTLY, CUT A 4" [101.6mm] SECTION OF COVER FROM SCRAP AND SNAP IT ON THE RETAINER. LOCATE THE CORNER SO IT ALIGNS FLUSH WITH THE TOP AND BOTTOM OF THE COVER.

NOTE: SOLID PORTION OF OUTSIDE CORNER FLANGE MOUNTS TO THE BACK OF THE RETAINER WHILE THE SPLIT FLANGE MOUNTS TO THE INSIDE OF THE RETAINER. SEE ILLUSTRATION ABOVE.



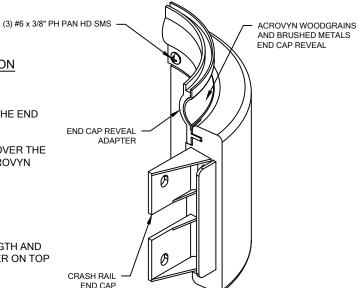
ACROVYN WOODGRAINS AND BRUSHED METALS REVEAL INSTALLATION

END CAPS

- 1. LOOSEN THE #6 x 3/8" PHILLIPS PAN HEAD SHEET METAL SCREWS THAT HOLD THE END CAP REVEAL ADAPTER TO THE END CAP.
- 2. SLIDE THE ACROVYN WOODGRAINS AND BRUSHED METALS END CAP REVEAL OVER THE INSTALLED END CAP ADAPTER. BE SURE TO PLACE THE LONG LEG OF THE ACROVYN WOODGRAINS AND BRUSHED METALS REVEAL AT THE TOP.
- 3. TIGHTEN THE (3) THREE #6 x 3/8" PHILLIPS PAN HEAD SHEET METAL SCREWS

HANDRAIL

 CUT ACROVYN WOODGRAINS AND BRUSHED METALS ACCENT REVEAL TO LENGTH AND INSERT INTO SLOT PROVIDED IN THE TOP SECTION OF THE ALUMINUM RETAINER ON TOP OF PREVIOUSLY INSTALLED STANDARD REVEAL.



9/26/2025

