

HRB-10CN-AU HANDRAIL WITH STANDARD AUSTRALIA OFFSET

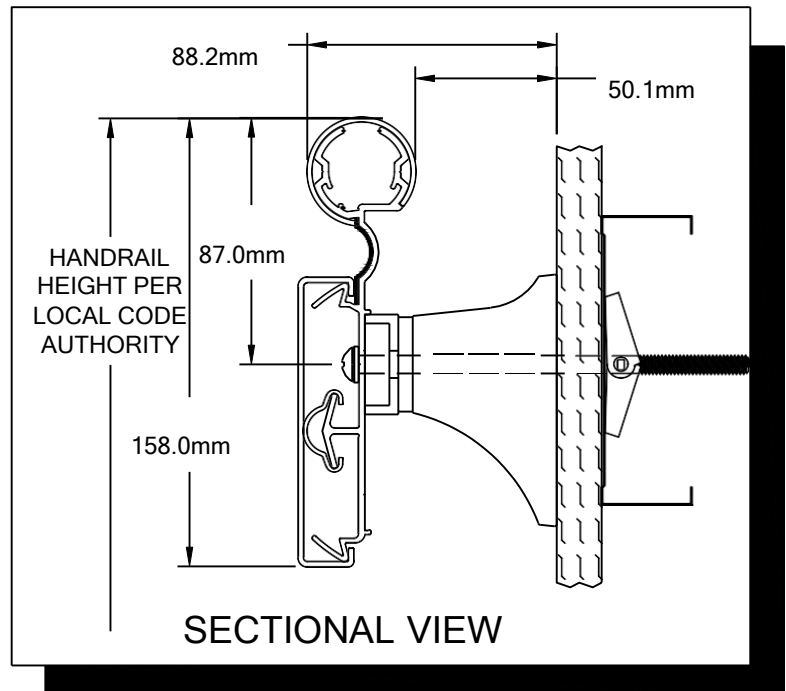
PLEASE READ

PLEASE READ THESE INSTRUCTIONS THOROUGHLY PRIOR TO BEGINNING THE HRB-10CN-AU HANDRAIL INSTALLATION!

THIS INSTRUCTION SHEET IS INTENDED TO PROVIDE A SPECIFIC GUIDE TO FOLLOW FOR THE INSTALLATION OF THIS HRB-10CN-AU HANDRAIL. 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, PLEASE NOTIFY THE CUSTOMER SERVICE AT 1300 272 602.

HRB-10CN-AU 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-10CN-AU HANDRAIL PLEASE CALL 1300 272 602 OR E-MAIL SALES@C-SGROUP.COM.AU.



HANDRAILS INSTALLATION AS PER AS1428.1: 2009 IMPORTANT NOTES

1. HANDRAILS TO BE INSTALLED AT THE HEIGHT OF 865MM TO 1000MM.
2. HANDRAIL TERMINATION SEQUENCE TO BE IN ACCORDANCE WITH AS1428.1: 2009
3. HANDRAILS ARE TO HAVE NO OBSTRUCTION <600MM ABOVE HANDRAIL.
4. STAIRWAY HANDRAILS TO BE INSTALLED ON BOTH SIDES OF THE STAIRS.
5. STAIRWAY HANDRAILS ARE TO DEMONSTRATE 1 TREAD WIDTH EXTENSION FROM NOSING.
6. HANDRAILS TO BE PROVIDED WITH 300MM FLAT EXTENSION PRIOR TO HANDRAIL TERMINATION.

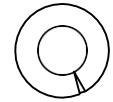
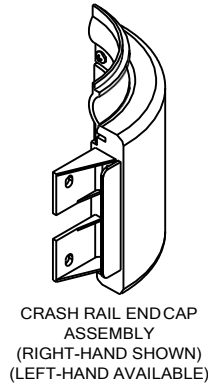
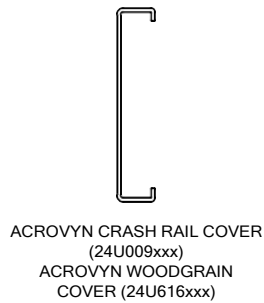
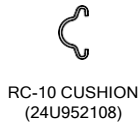
HRB-10CN-AU HANDRAIL WITH STANDARD AUSTRALIA OFFSET

IMPORTANT NOTES

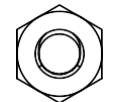
1. ALL LINEAL MATERIAL TO BE SUPPLIED IN STOCK LENGTHS. ALUMINUM AND ACROVYN IN LENGTHS UP TO 3050mm. THIS MATERIAL IS TO BE FIELD CUT USING QUALITY EQUIPMENT TO INSURE THAT ALL CUTS ARE SQUARE. WHEN CUTTING MATERIAL SECTIONS, CS RECOMMENDS USING AN 80-100 TOOTH CARBIDE TIPPED SAW BLADE OR EQUIVALENT, 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 76.2mm DISTANCE FROM A BRACKET.
7. THE DISTANCE BETWEEN AN ACROVYN SPLICE JOINT AND AN ALUMINUM RETAINER SPLICE JOINT SHOULD BE STAGGERED 101.6mm.
8. MATERIAL MUST REACH 18°C MIN. TO 24°C 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 24FIREPUTTY FOR FIRE PUTTY INSTALLATION.
10. THIS HANDRAIL REQUIRES A MINIMUM OF 2 MOUNTING BRACKETS PER UNIT. THE MINIMUM END CAP-TO-END CAP HANDRAIL LENGTH IS 330.2mm.
11. FOR MORE INFORMATION ON HRB-10CN HANDRAIL SEE OUR WEBSITE AT www.c-sgroup.com.au.

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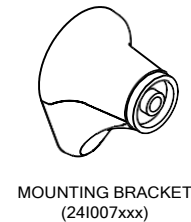
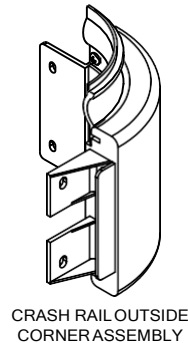
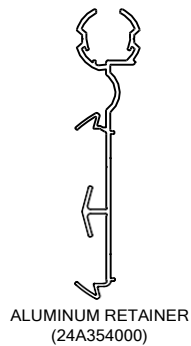
COMPONENTS & WALL FASTENERS



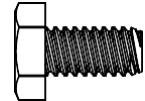
FASTENER #2
1/4 X 3/4" FLAT
WASHER
(90H006003)



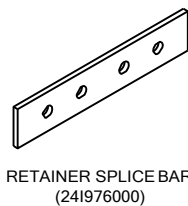
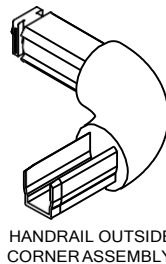
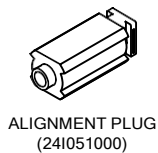
FASTENER #3
1/4-20 HEX NUT
(90H010001)



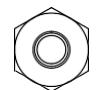
FASTENER #4
#6 X 16 mm S/S
PHILLIPS FLAT HEAD
SMS
(90H231004)



FASTENER #5
1/4 X 3/4" HEX BOLT
(90H052006)



FASTENER #6
1/4 X 3/4" FLAT WASHER
(90H370002)



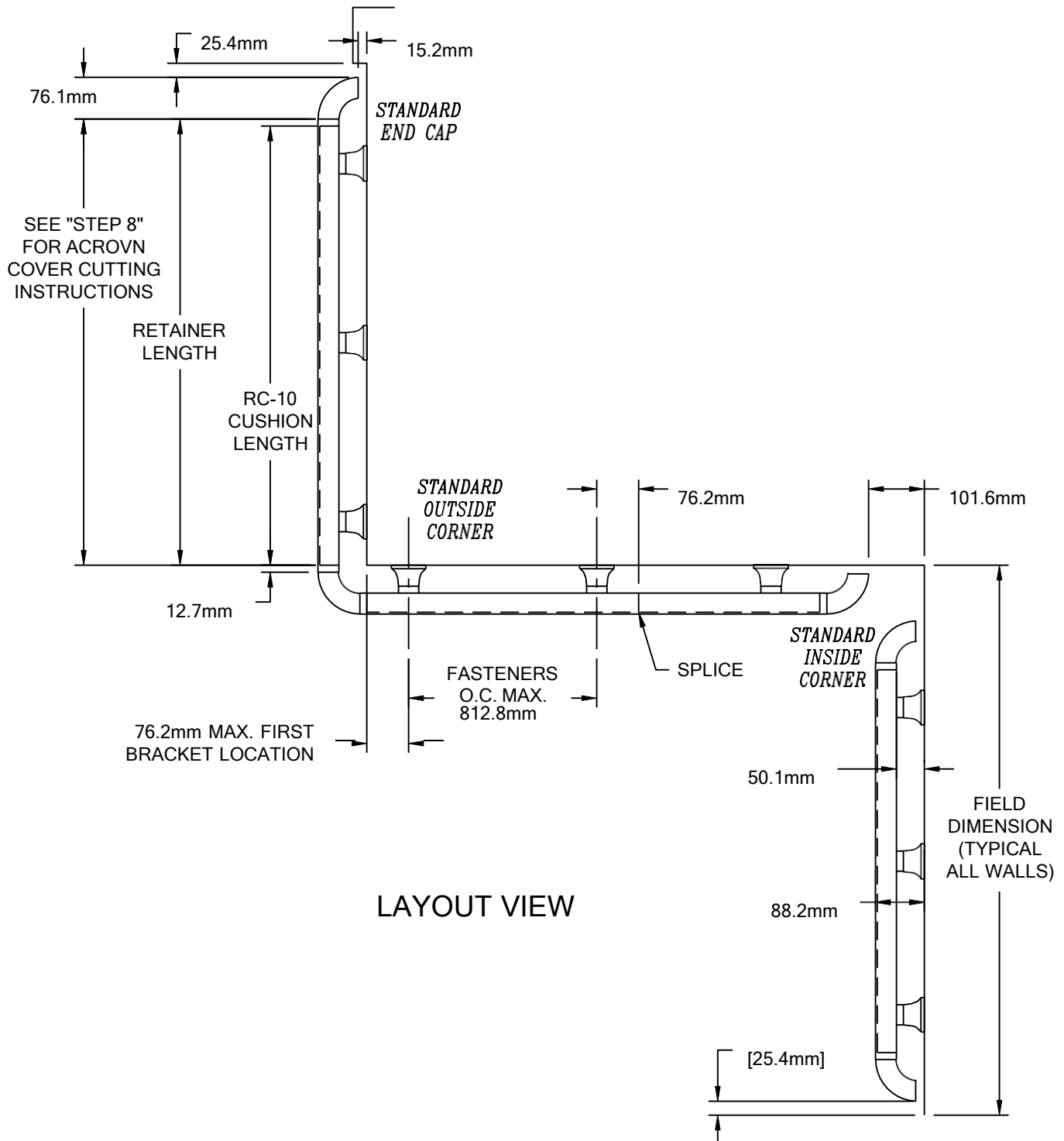
FASTENER #7
1/4" HEX NUT
(90H368002)

ACCEPTABLE FASTENERS FOR DIFFERENT WALL MATERIAL

WALL CONDITION	SPECIFIED FASTENER	DRILL DIAMETERS		CS PART NUMBER
		WALL	RETAINER	
WOOD STUD/GYPSUM WALL	#14 X 125 mm PHILLIPS RD HD S/S ALL-PURPOSE SCREW (STANDARD SUPPLY)	4 mm	7 mm	90H287006
STEEL STUD/GYPSUM WALL	1/4-20 X 125 mm ROUND HEAD BOLT WITH TOGGLE 1/4" LOCK WASHER	19 mm	7 mm	90H049002 90H006003
CONCRETE/CONCRETE BLOCK	#14 X 125 mm PHILLIPS RD HD S/S ALL-PURPOSE SCREW + MUNGO ML PLUG 8 X 80	8 mm	7 mm	90H287006

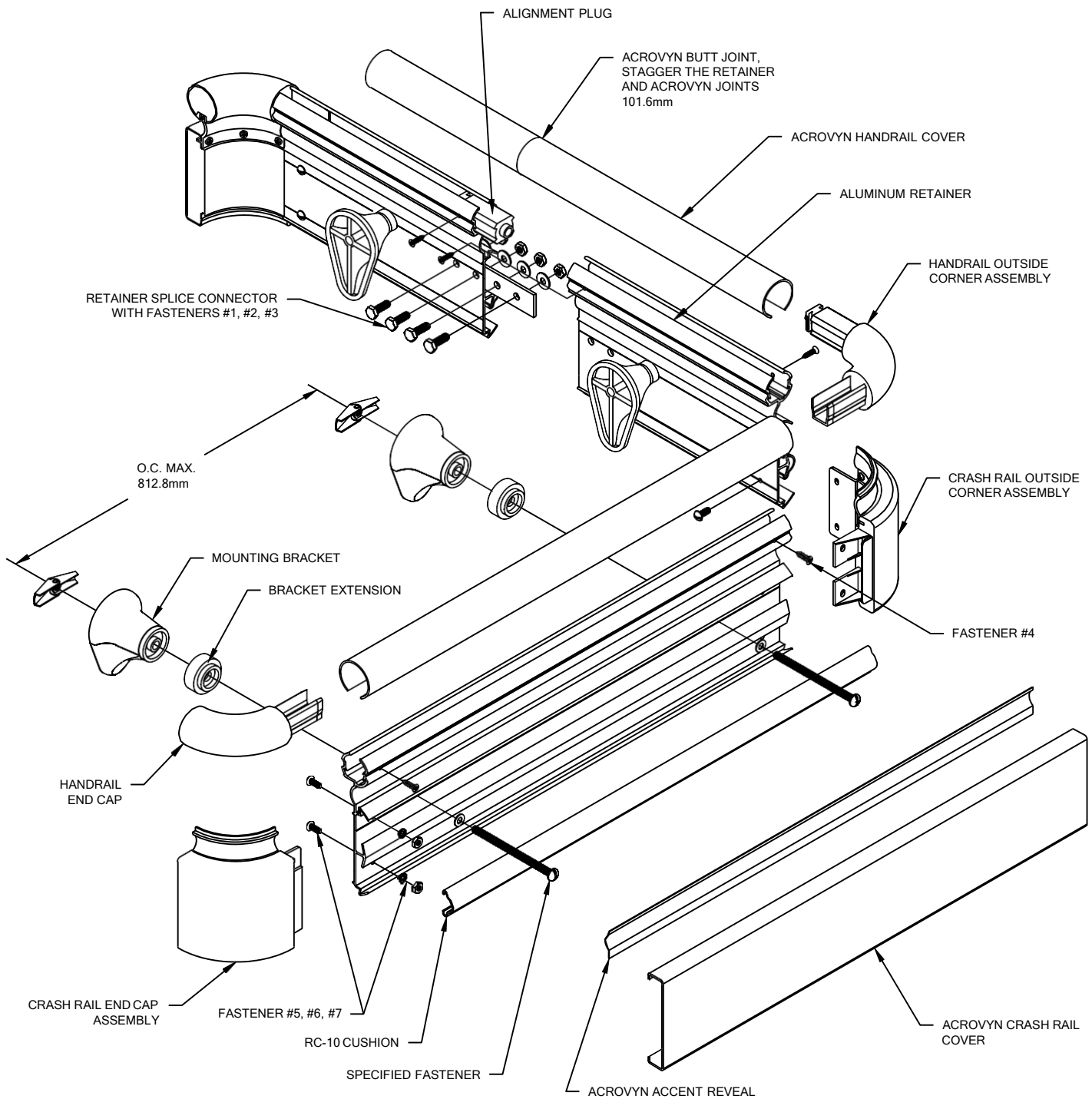
HRB-10CN-AU HANDRAIL
WITH STANDARD AUSTRALIA OFFSET

LAYOUT VIEW



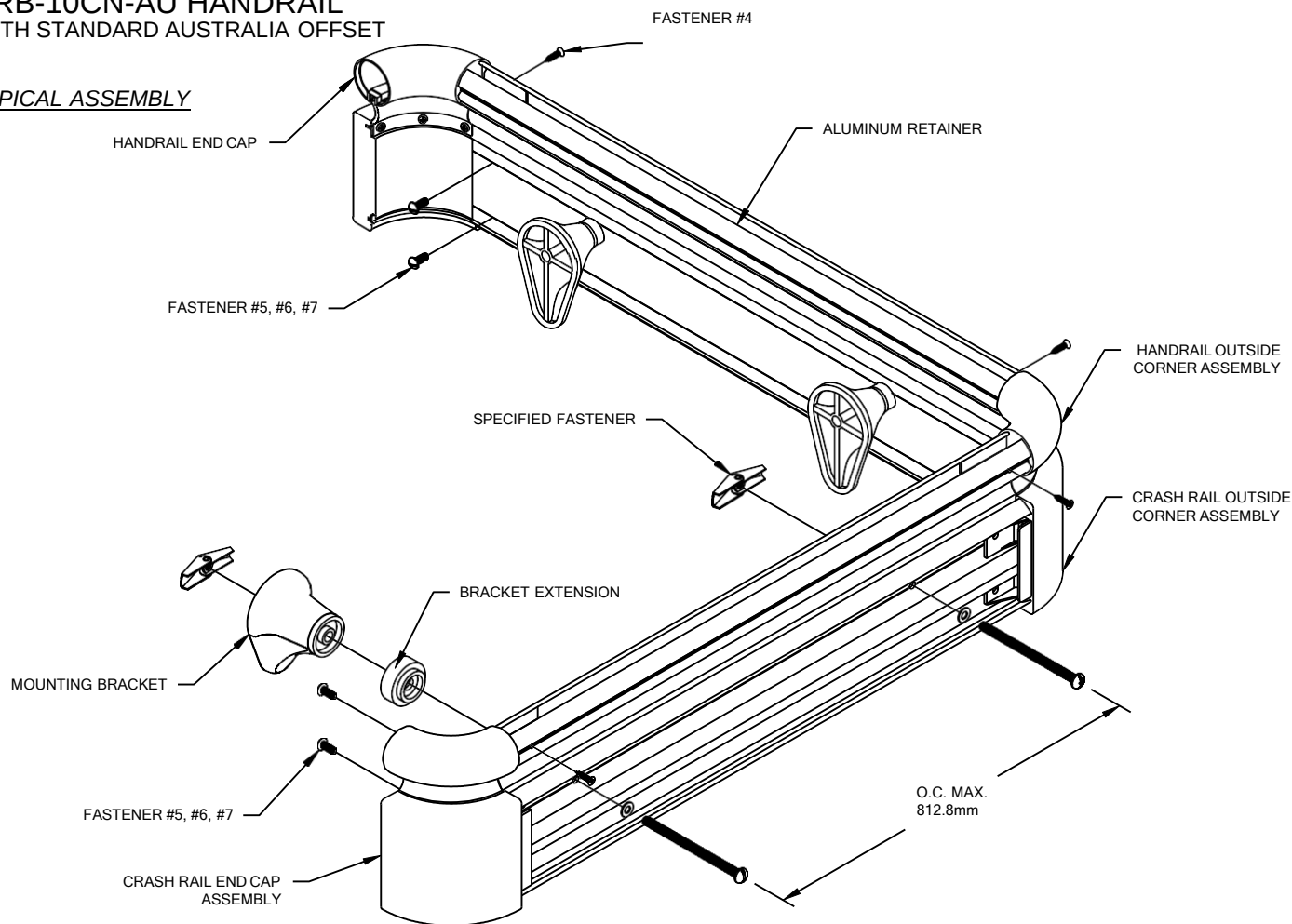
HRB-10CN-AU HANDRAIL WITH STANDARD AUSTRALIA OFFSET

TYPICAL ASSEMBLY



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TYPICAL ASSEMBLY



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

1. USING "LOCAL CODE" REQUIREMENTS, ESTABLISH HANDRAIL HEIGHT ABOVE FINISH FLOOR. DEDUCT 87 mm 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 TO LENGTH USING THE REQUIRED DEDUCTIONS (REFERENCE LAYOUT VIEW). PRE-DRILL CLEARANCE HOLES FOR THE SPECIFIED WALL FASTENERS IN THE ALUMINUM RETAINER 76.2mm FROM EACH END. REFERENCE CHART ON PAGE 3 FOR CORRECT DRILL DIAMETERS. ALL OTHER BRACKET HOLES MUST NOT EXCEED 812.8mm ON CENTER.

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. DRILL CLEARANCE HOLES IN WALL SURFACE FOR MOUNTING HARDWARE, USING THE RETAINER AS A TEMPLATE. REFERENCE CHART ON PAGE 2 FOR CORRECT DRILL DIAMETERS.
4. ATTACH ALL END CAPS/OUTSIDE CORNERS:
 - A. ATTACH HANDRAIL PORTION OF END CAP TO RETAINER:
 - DRILL 4 mm DIAMETER CLEARANCE HOLES IN RETAINER 20 mm FROM END OF RETAINER.
 - INSERT THE END CAPS INTO THE RETAINER.
 - DRILL 2.5 mm DIAMETER PILOT HOLES INTO THE ENDCAP.
 - ATTACH END CAP TO RETAINER USING #6 x 16 mm PHILLIPS FLAT HEAD SHEET METAL SCREW.
 - B. ATTACH CRASH RAIL PORTION OF END CAP TO THE RETAINER:
 - USE END CAP AS TEMPLATE TO DRILL 6 mm 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 12.7mm RD HD SLOTTED MACHINE SCREW WITH LOCK WASHER AND #10 HEX NUT AT EACH END CAP AND FOUR (4) AT EACH OUTSIDE CORNER.

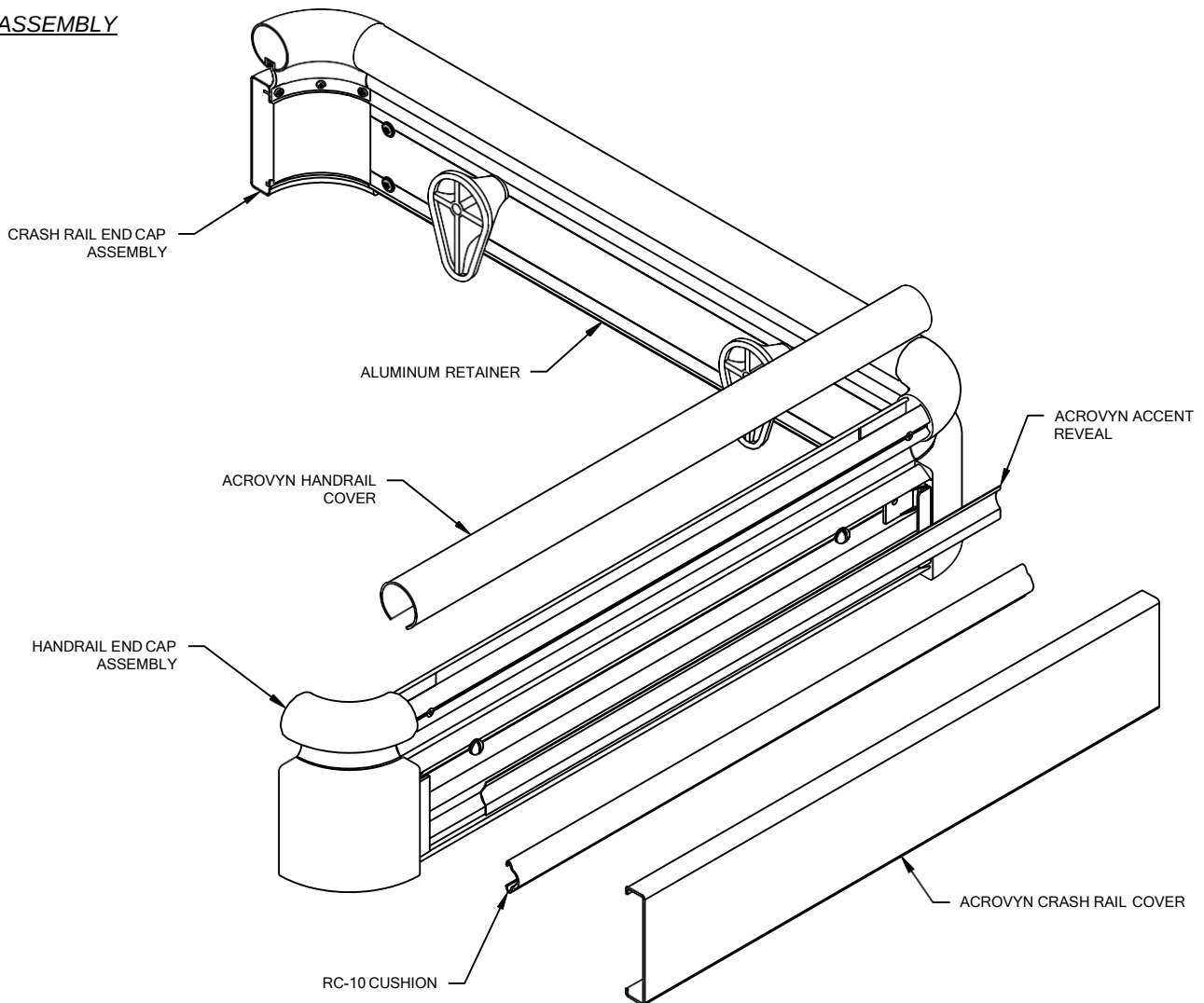
NOTE: TO AID IN LOCATING THE END CAPS CORRECTLY, CUT A 101.6mm SECTION OF COVER FROM SCRAP AND SNAP IT ON THE RETAINER. LOCATE THE CAP SO IT ALIGNS FLUSH WITH THE TOP AND BOTTOM OF THE COVER.

5. INSTALL EACH SECTION OF ASSEMBLED RETAINER IN SUCCESSION USING THE WALL BRACKETS AND THE APPROPRIATE WALL FASTENERS.

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

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TYPICAL ASSEMBLY



6. CUT RC-10 CUSHION TO LENGTH NOTING REQUIRED DEDUCTIONS (SEE LAYOUT VIEW) AND INSTALL ONTO ALUMINUM RETAINER.

7. CUT ACCENT REVEAL TO LENGTH AND INSERT INTO SLOT PROVIDED IN THE TOP SECTION OF THE ALUMINUM RETAINER.

NOTE: SEE PAGE 9 FOR CHAMELEON REVEAL INSTALLATION.

8. 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 (0.8mm UP TO 1524mm, 1.6mm OVER 1524mm) THAN THE MEASURED DISTANCE. THIS ADDITIONAL LENGTH WILL PROVIDE FOR A TIGHTER COVER-TO-END CAP FIT.

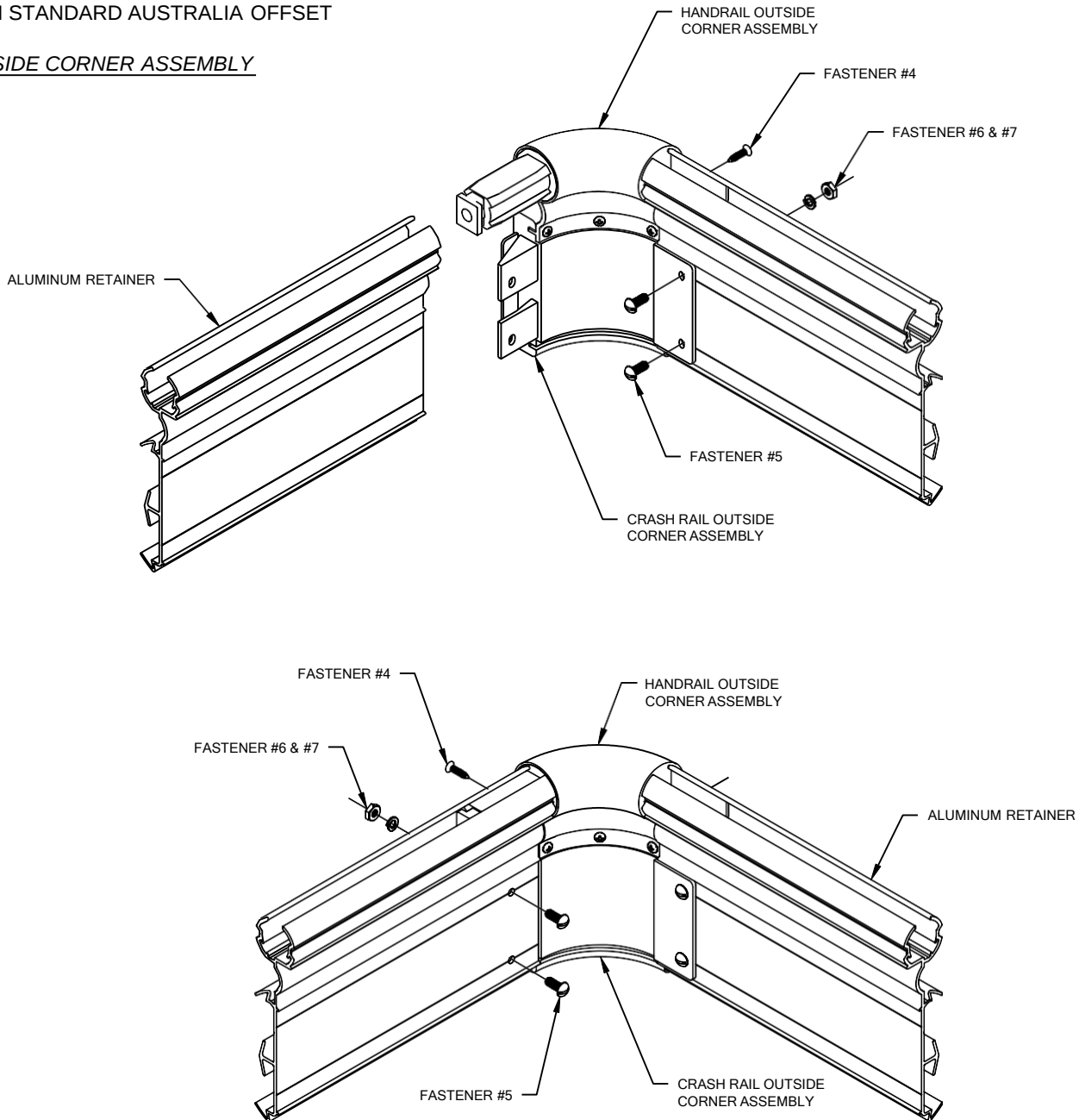
9. STARTING AT ONE END, SNAP THE HANDRAIL COVER ONTO THE RETAINER ALONG THE LENGTH OF THE HANDRAIL.

10. 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.

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OUTSIDE CORNER ASSEMBLY



OUTSIDE CORNER INSTALLATION

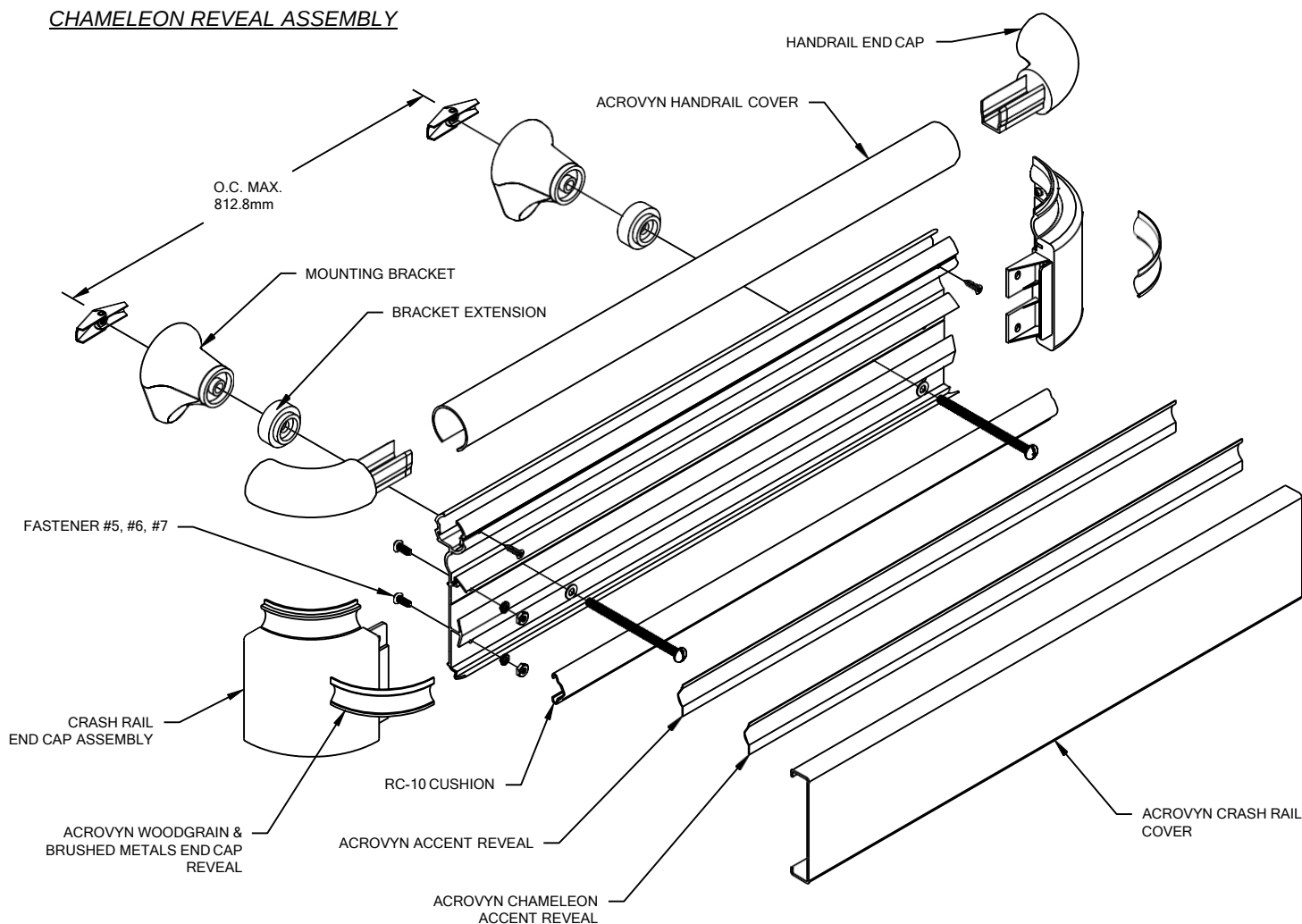
1. ATTACH ALL OUTSIDE CORNERS:
 - A. ATTACH HANDRAIL PORTION OF OUTSIDE CORNER TO RETAINER:
 - DRILL 4 mm DIAMETER CLEARANCE HOLES IN RETAINER 19.1mm FROM END OF RETAINER.
 - INSERT THE OUTSIDE CORNERS INTO THE RETAINER.
 - DRILL 2.5 mm DIAMETER PILOT HOLES INTO THE ENDCAP.
 - ATTACH OUTSIDE CORNER TO RETAINER USING #6 x 16 mm PHILLIPS FLAT HEAD SHEET METAL SCREW.
 - B. ATTACH CRASH RAIL PORTION OF OUTSIDE CORNER TO THE RETAINER:
 - USE OUTSIDE CORNER AS TEMPLATE TO DRILL 6 mm 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 12.7mm RD HD SLOTTED MACHINE SCREW WITH LOCK WASHER AND #10 HEX NUT AT EACH OUTSIDE CORNER.

NOTE: TO AID IN LOCATING THE OUTSIDE CORNERS CORRECTLY, CUT A 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.

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CHAMELEON REVEAL ASSEMBLY



CHAMELEON REVEAL INSTALLATION

END CAPS

1. LOOSEN THE #6 x 10 mm PHILLIPS PAN HEAD SHEET METAL SCREWS THAT HOLD THE END CAP REVEAL ADAPTER TO THE ENDCAP.
2. SLIDE THE CHAMELEON END CAP REVEAL OVER THE INSTALLED END CAP ADAPTER. BE SURE TO PLACE THE LONG LEG OF THE CHAMELEON REVEAL AT THE TOP.

3. TIGHTEN THE (3) THREE #6 x 10 mm PHILLIPS PAN HEAD SHEET METAL SCREWS

HANDRAIL

1. CUT CHAMELEON ACCENT REVEAL TO LENGTH AND INSERT INTO SLOT PROVIDED IN THE TOP SECTION OF THE ALUMINUM RETAINER ON TOP OF PREVIOUSLY INSTALLED STANDARD REVEAL.

