



HRB-4CN HANDRAIL CANADIAN/INTERNATIONAL OFFSET

PLEASE READ

PLEASE READ THESE INSTRUCTIONS THOROUGHLY PRIOR TO BEGINNING THE HRB-4CN HANDRAIL INSTALLATION!

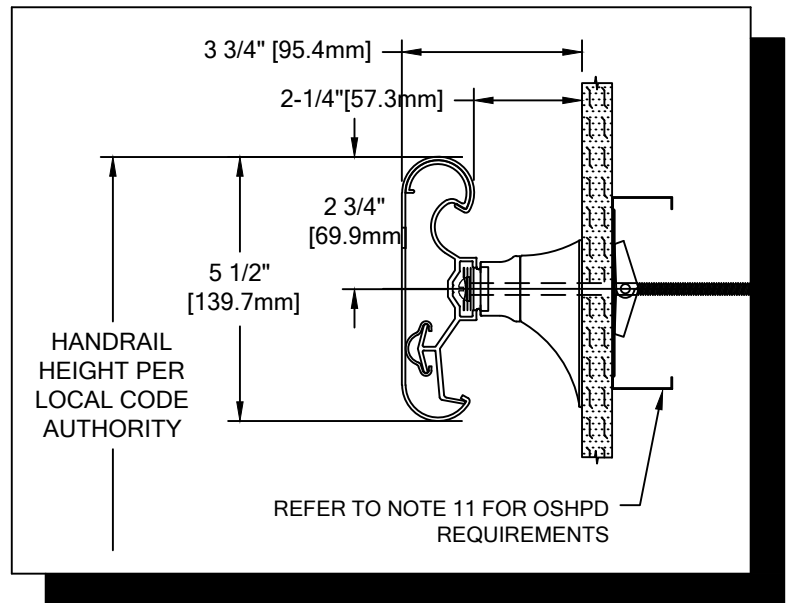
THIS INSTRUCTION SHEET IS INTENDED TO PROVIDE A SPECIFIC GUIDE TO FOLLOW FOR THE INSTALLATION OF HRB-4CN HANDRAIL. CONTAINED WITHIN IS THE TECHNICAL INFORMATION AND INSTALLATION TECHNIQUES REQUIRED TO COMPLETE AN EFFICIENT, NEAT AND LONG-LASTING INSTALLATION.

HRB-4CN 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 HRB-4CN HANDRAIL PLEASE NOTIFY CUSTOMER SERVICE ON 1300 272 602.

INSPECT ALL MATERIALS FOR DAMAGE OR MISSING PARTS. IF YOU DISCOVER DAMAGED OR MISSING MATERIALS, PLEASE NOTIFY CUSTOMER SERVICE ON 1300 272 602.

IMPORTANT NOTES

1. ALL LINEAL MATERIAL TO BE SUPPLIED IN STOCK LENGTHS. ALUMINUM AND ACROVYN IN LENGTHS UP TO 10'-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.
4. INSTALL OUTSIDE CORNERS FIRST.
5. INSTALL LONGEST RUN OF HANDRAIL FIRST.
6. ALUMINUM RETAINER SPLICE SHOULD NOT EXCEED 4" [101.6mm] DISTANCE FROM A BRACKET.
7. THE DISTANCE BETWEEN AN ACROVYN SPLICE JOINT AND AN ALUMINUM RETAINER SPLICE JOINT SHOULD BE STAGGERED 4" [101.6mm].
8. 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.
10. THIS HANDRAIL REQUIRES A MINIMUM OF 2 MOUNTING BRACKETS PER UNIT.
11. FOR OSHPD REQUIREMENTS, A CONTINUOUS HORIZONTAL 20 GA. STEEL STUD OR A .036" THICK X 6" WIDE STEEL MEMBER MUST BE INCORPORATED IN THE WALL CONSTRUCTION. THE FOLLOWING FASTENERS MUST ALSO BE USED: 1/4-20 X 5" RD. HD. BOLT WITH FLAT WASHER 1/4" TOGGLE WING (SEE CHART ON PAGE 2)



SECTIONAL VIEW

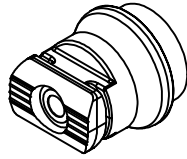


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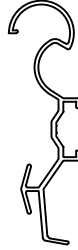
COMPONENTS & WALL FASTENERS



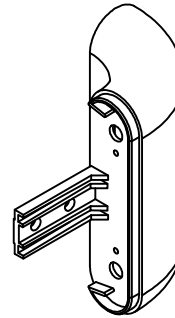
ACROVYN HANDRAIL COVER
(24U008xxx)



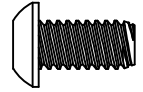
EXTENDED
QUICK LOCK
(24I098108)



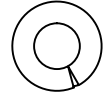
ACROVYN HANDRAIL
RETAINER
(24A306000)



HANDRAIL ENDCAP
(24I115xxx)



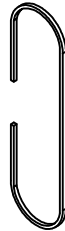
FASTENER #1
1/4 X 1/2" HEX HEAD
SCREW (90H772002)



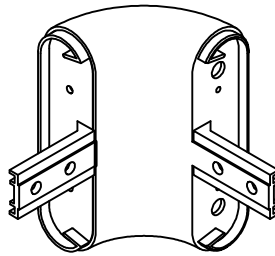
FASTENER #2
1/4 X 3/4" FLAT WASHER
(90H006003)



QUICK LOCK
MOUNTING BRACKET
(24I820xxx)



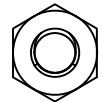
OPTIONAL REVEAL
(24I838xxx)
OPTIONAL S/S REVEAL
(24S096000)



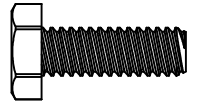
HANDRAIL CORNER ASSEMBLY
(OUTSIDE, 4COSxxx)
(INSIDE, 4CISxxx)



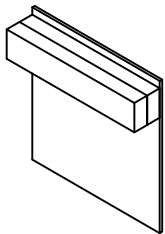
RC-10 CUSHION
(24U952108)



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



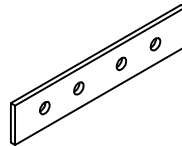
FASTENER #4
1/4-20 X 3/4"
HEX HEAD MACHINE SCREW
(90H008002)



ACROVYN LINE-UP SPLICE
(24F041002)



OPTIONAL
CONTINUOUS BRACKET
ENCLOSURE
(24F196xxx)



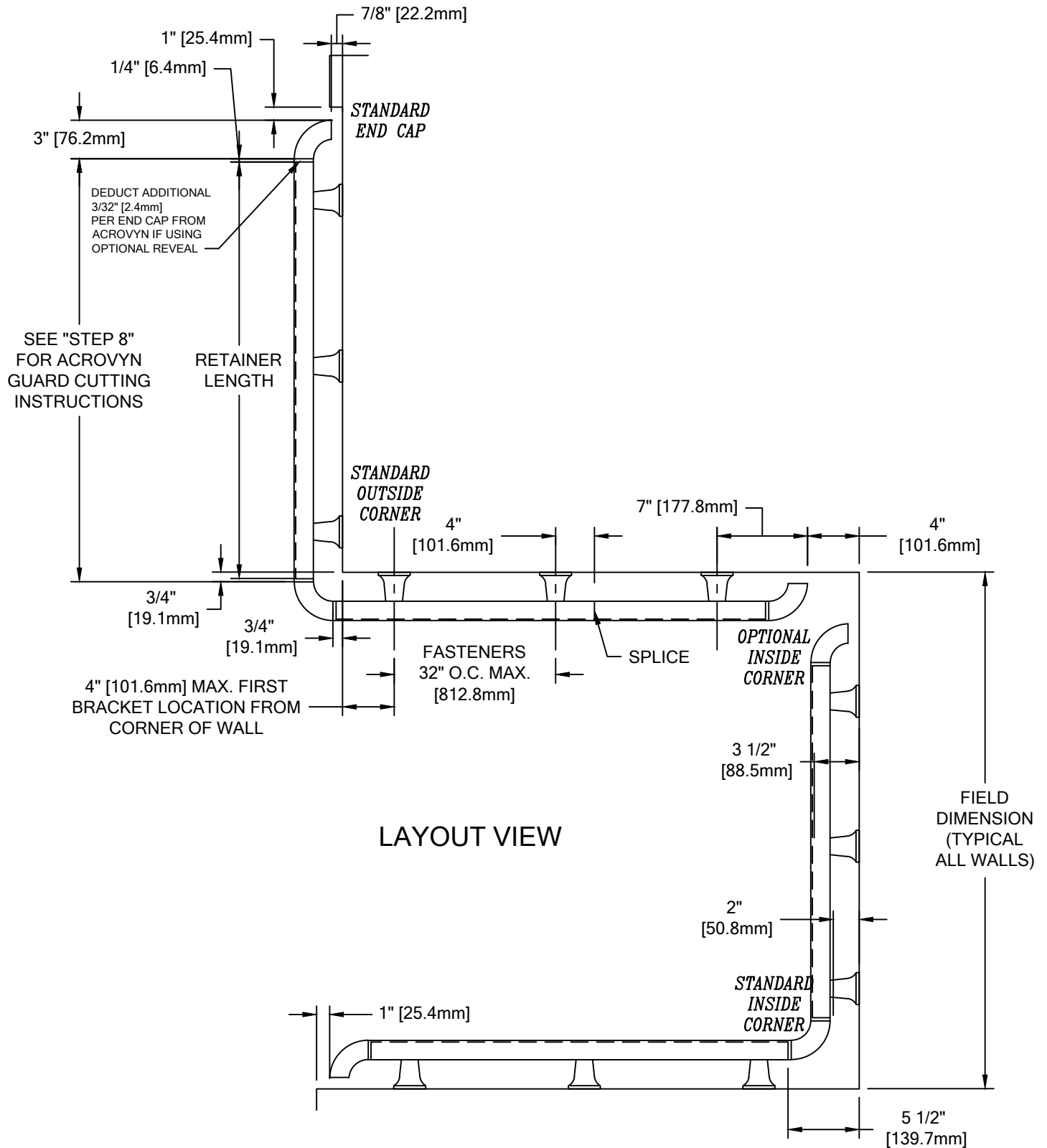
RETAINER SPLICE BAR
(24I976000)

WALL CONDITION	SPECIFIED FASTENER	DRILL DIAMETERS		C/S PART NUMBER
		WALL	RETAINER	
STEEL STUD/GYPSUM WALL	1/4-20 X 5" ROUND HEAD BOLT WITH TOGGLE, AND LOCK WASHER	3/4"	N/A	90H049002 90H006003
CONCRETE/CONCRETE BLOCK	#14 X 5" PHILLIPS RD HD ALL-PURPOSE SCREW	3/16"	N/A	90H287002
WOOD STUD/GYPSUM WALL	#14 X 5" PHILLIPS RD HD ALL-PURPOSE SCREW	1/8"	N/A	90H287002
20 GA. STEEL STUD/GYPSUM WALL (OSHDP)	1/4-20 X 5" RD. HD. BOLT WITH FLAT WASHER 1/4" TOGGLER WING	1/2"	N/A	90H659002 90H007003 90H062004



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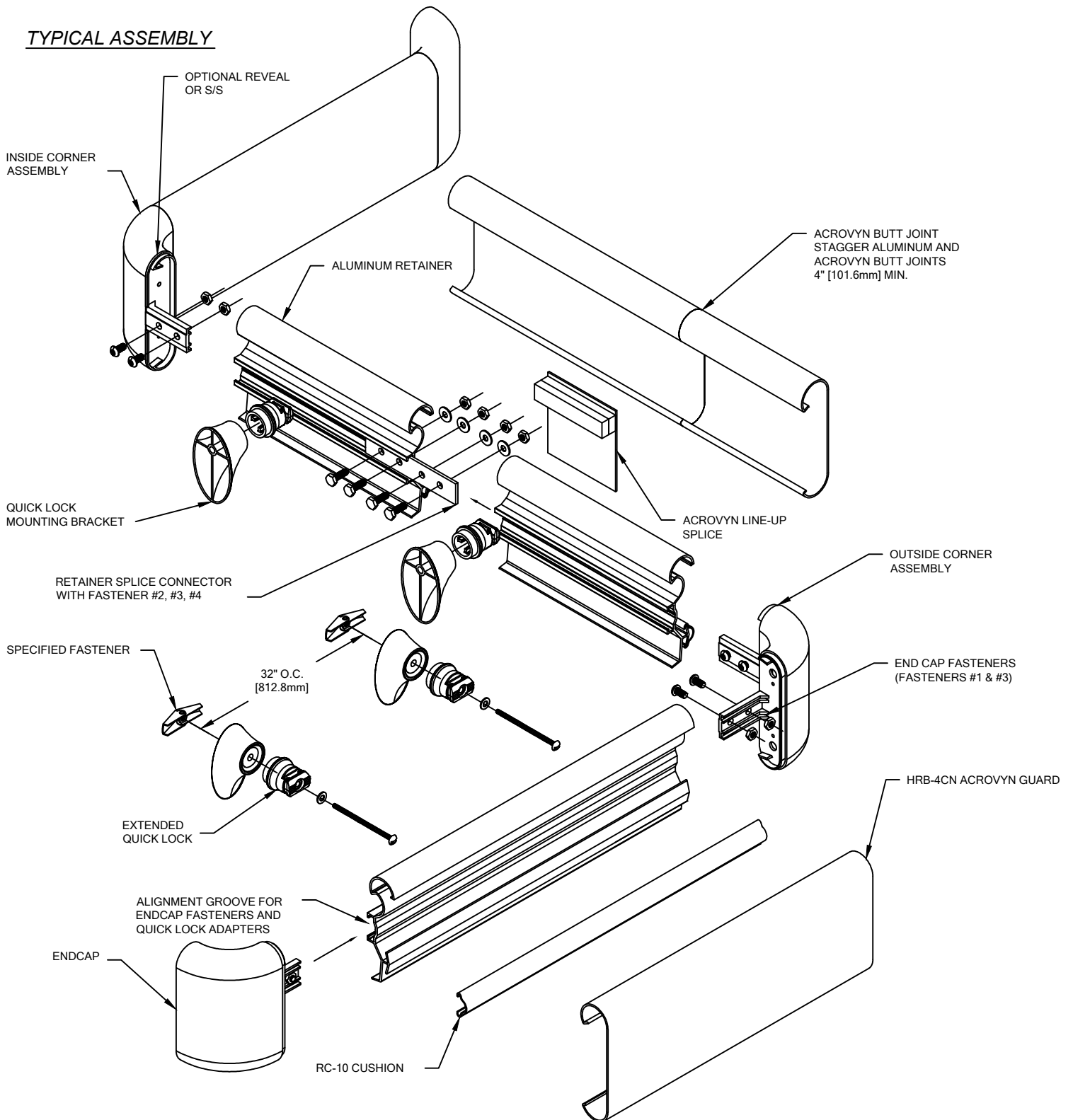
LAYOUT VIEW





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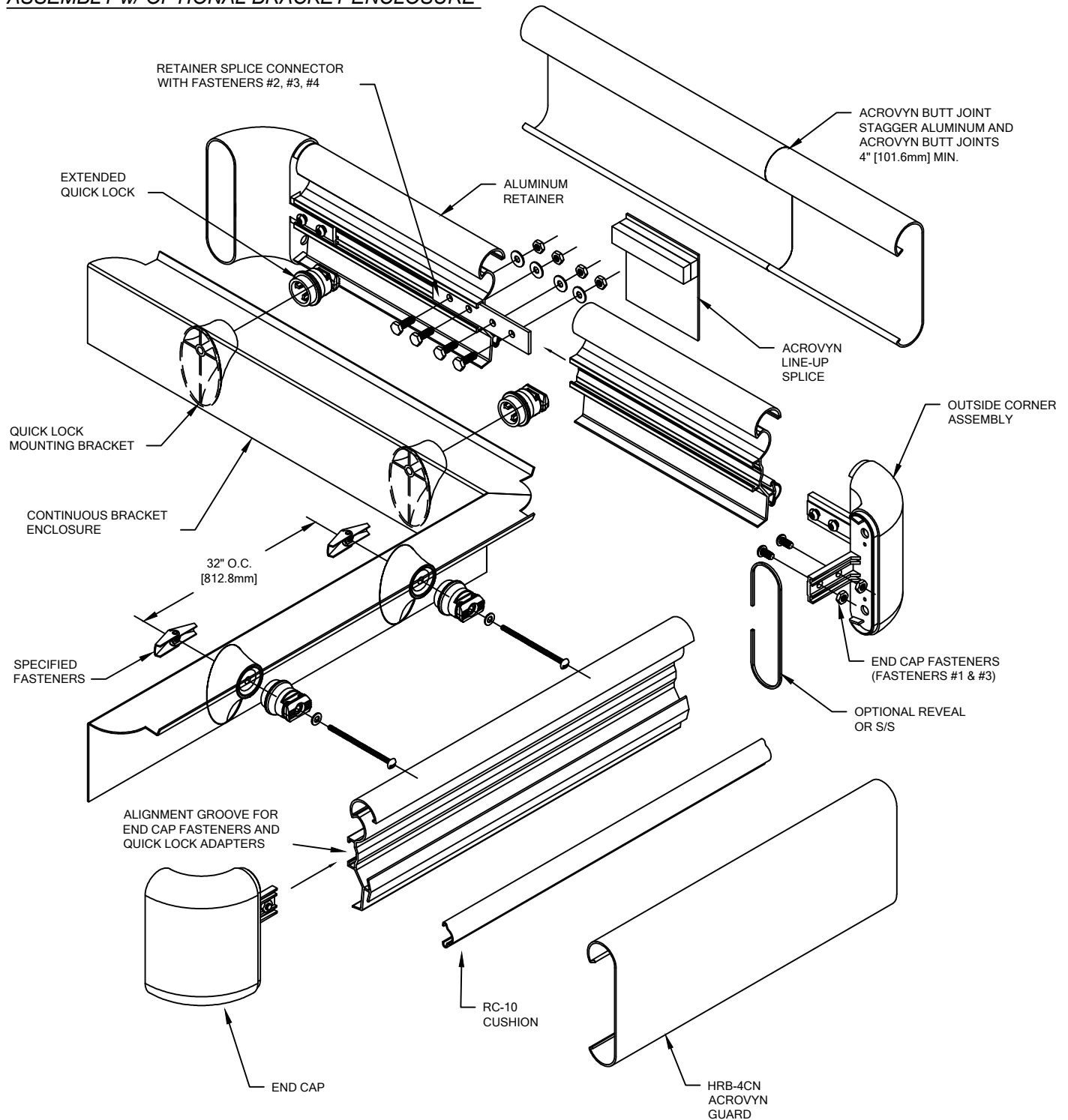
TYPICAL ASSEMBLY





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ASSEMBLY w/ OPTIONAL BRACKET ENCLOSURE



NOTES:

1. CUT THE CONTINUOUS BRACKET COVER TO LENGTH USING THE REQUIRED DEDUCTIONS AS NOTED (SEE LAYOUT VIEW). PRE-DRILL CLEARANCE HOLES IN THE BRACKET COVER 4" [101.6mm] FROM EACH END, 4" [101.6mm] FROM ONE SIDE OF EACH RETAINER SPLICE AND AT 32" [812.8mm] MAX. ON CENTER THROUGH LENGTH, AS REQUIRED (SEE SPECIFIED FASTENER CHART).

NOTE: IT IS IMPORTANT TO OVERLAP ALL BRACKET COVER SPLICE JOINTS BY AT LEAST 3" [76.2mm] AND TO POP RIVET OR GLUE THE TWO PIECES TOGETHER.

2. IT IS IMPORTANT TO COPE THE ENDS OF THE BRACKET ENCLOSURE BEFORE ATTACHING END CAPS/OUTSIDE CORNERS. USING AN END CAP, SCRIBE BRACKET ENCLOSURE AND CUT WITH INDUSTRIAL SHEARS.

HRB-4CN HANDRAIL CANADIAN/INTERNATIONAL OFFSET

WALL BRACKET & RETAINER INSTALLATION

ILLUSTRATION 1

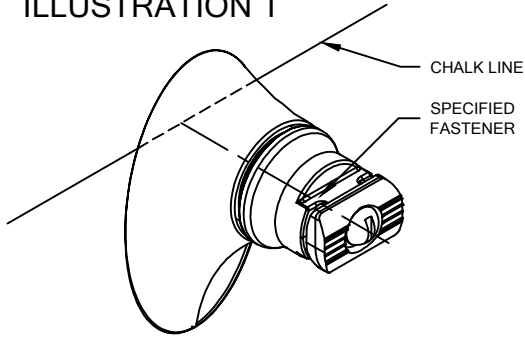


ILLUSTRATION 2

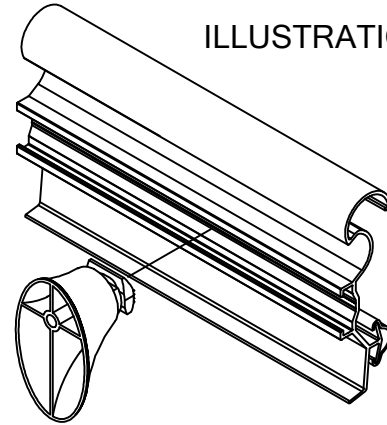


ILLUSTRATION 3

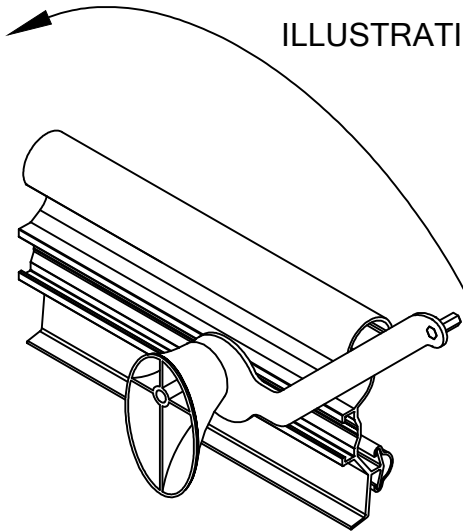
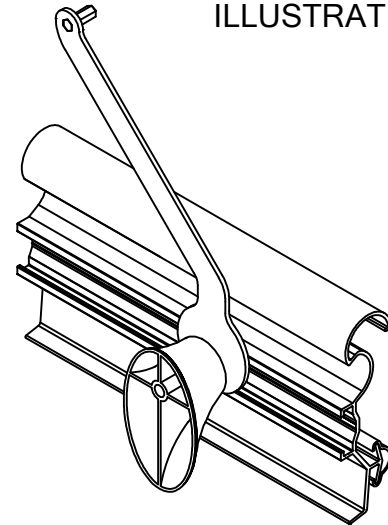


ILLUSTRATION 4



1. USING LOCAL CODE REQUIREMENTS, ESTABLISH HANDRAIL ABOVE FINISH FLOOR. DEDUCT 2-3/4" [69.8mm] AND SNAP A CHALK LINE AT THAT HEIGHT. THIS MARKS THE LOCATION OF THE FASTENERS FOR THE HANDRAIL BRACKETS.
2. DETERMINE WALL FASTENER LOCATIONS BY USING THE REQUIRED DEDUCTIONS (SEE LAYOUT VIEW) AND DRILL HOLE DIAMETER FOR SPECIFIED WALL FASTENERS. REFERENCE CHART ON PAGE 2 FOR CORRECT DRILL DIAMETERS.
3. PLACE A BRACKET LOCK INTO EACH BRACKET BASE. USING THE APPROPRIATE FASTENERS, ATTACH THE BRACKET ASSEMBLIES TO THE WALL AT THE PRE-DRILLED LOCATIONS. SEE ILLUSTRATION 1.
4. CUT THE CONTINUOUS ALUMINUM RETAINER TO LENGTH USING THE REQUIRED DEDUCTIONS AS NOTED (SEE LAYOUT VIEW).

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

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

OPTIONAL: THE END CAPS AND COVERS MAY BE INSTALLED ONTO THE RETAINER PRIOR TO POSITIONING THE RETAINER TO THE WALL BRACKETS. IF THIS INSTALLATION METHOD IS PREFERRED, PROCEED WITH STEPS 7 THROUGH 9 BEFORE COMPLETING STEP 6.

6. PLACE THE RETAINER ON THE WALL BRACKETS SO THAT THE HEAD OF EACH QUICK LOCK INSERTS INTO THE CHANNEL ON THE BACK OF THE RETAINER. USING THE WRENCH PROVIDED, TWIST EACH LOCK 90° TO SECURE THE BRACKET BASE INTO PLACE. SEE ILLUSTRATIONS 2 THROUGH 4. USE A LEVEL TO ENSURE RETAINER IS LEVEL..



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END CAP & CORNER ASSEMBLY INSTALLATION

NOTE: INSTALLATION OF OUTSIDE CORNER ASSEMBLY SHOWN FROM THE BACKSIDE FOR CLARITY. INSIDE CORNERS AND STANDARD END CAPS SIMILAR.

ILLUSTRATION 5

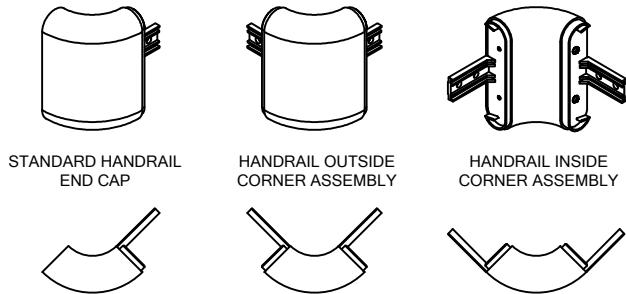


ILLUSTRATION 6

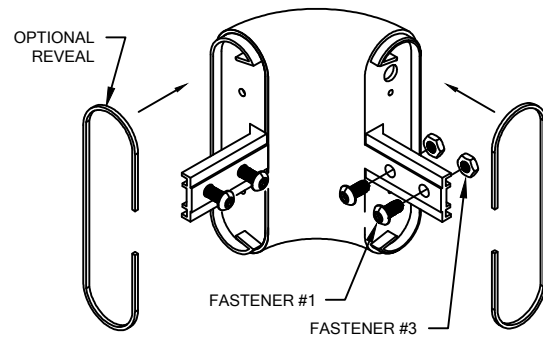


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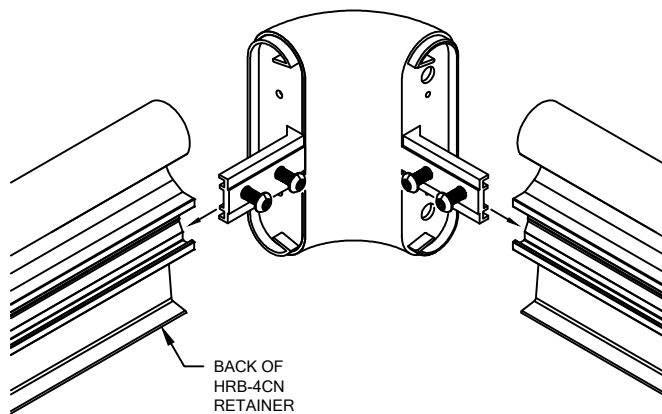
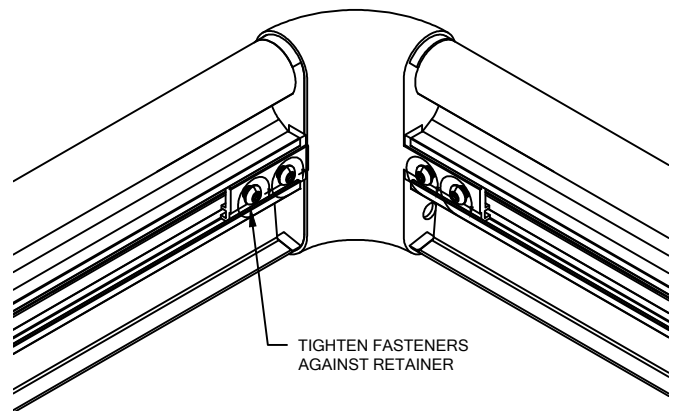


ILLUSTRATION 8



NOTE: IF END CAP REVEALS ARE INCLUDED, FIT THEM OVER THE SHOULDERS OF THE END CAPS / CORNER ASSEMBLIES AT THIS TIME.

7. ATTACH END CAPS AND/OR CORNER ASSEMBLIES BY LOOSELY THREADING TWO (2) 1/4-20 x 1/2" BUTTON SOCKET HEAD CAP SCREWS THROUGH THE BACKSIDE OF THE FLANGE OF EACH END CAP (FOUR (4) PER CORNER ASSEMBLY) INTO THEIR RESPECTIVE NUTS ON THE RETAINER SIDE OF THE FLANGE. SLIDE THE FLANGE INTO THE RECEIVER CHANNEL OF THE ALUMINUM RETAINER AND TIGHTEN THE BUTTON SOCKET HEAD CAP SCREWS FOR A SECURE FIT. SEE ILLUSTRATIONS 6 THROUGH 8.

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

8. CUT THE ACROVYN COVERS TO THE PROPER LENGTH. THE COVER LENGTH IS DETERMINED BY MEASURING THE DISTANCE BETWEEN THE INSTALLED END CAPS AND/OR INSIDE/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 GUARD-TO-END CAP FIT.

9. ALIGN THE TOP OF THE ACROVYN COVER WITH THE TOP OF THE ALUMINUM RETAINER AND SNAP THE GUARD ONTO 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.

09/12/11 CDN\DP

