

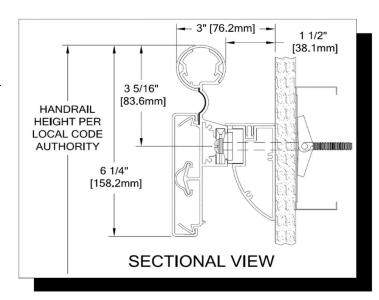
ATTENTION

Please read these instructions thoroughly prior to beginning the <u>HRB-10CQLCMN HANDRAIL</u> installation.

This instruction sheet is intended to provide a specific guide to follow for the installation of the <u>HRB-10CQLCMN HANDRAIL</u>. Contained within is the technical information and installation techniques required to complete an efficient, neat, and long-lasting installation.

See "<u>HANDRAIL</u> – Supplemental Information" sheet for additional notes and other helpful installation tips.

Minimum length of <u>HRB-10CQLCMN HANDRAIL</u> is **15-3/4" [400.3mm]** and requires at least 2 fasteners per bracket.



Parts List

- 1. Ligature Resistant Mounting Bracket (24A336000)
- 2. Top End Plate (24F420000)
- 3. Top Outside Corner Plate (24F421000)
- 4. End Closing Plate (24F258000)
- #6 x 1/2" 18-8 S/S Pin-In-Torx Tamper-Resistant SMS (90H881002)
- 6. Quick Lock
 - a. Standard (24l821000)
 - b. Metal (for OSHPD) (24M068000)
- 7. Aluminum Retainer (24A367000)
- **8.** 10C Quick Lock Retainer End Plate (24F254004)
- **9.** RC-10 Cushion (24U967108H)
- 10. Crash Rail End Cap Assembly
- 11. Crash Rail Outside Corner Assembly
- 12. Handrail End Cap
 - a. Solid Color LH (24l082xxx)
 - b. Solid Color RH (24I083xxx)
 - c. Acrovyn Woodgrains and Brushed Metals LH (24l610xxx)
 - d. Acrovyn Woodgrains and Brushed Metals RH (24l634xxx)
- 13. Handrail Outside Corner Assembly
- **14.** #10-24 x 1/2" Round Head Slotted MS (90H369002)
- **15.** #10 Lock Washer (90H370002)
- **16.** #10 Hex Nut (90H368002)
- **17.** #6 x 5/8" Phillips Flat Head SMS (90H231002)
- 18. Acrovyn Accent Reveal (24N021xxx)
- 19. Acrovyn Crashrail Cover

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- a. Solid Color (24U009xxx)
- Acrovyn Woodgrains and Brushed Metals Color (24U616xxx)
- 20. Acrovyn Handrail Cover
 - a. Solid Color (24U032xxx)
 - Acrovyn Woodgrains and Brushed Metals Color (24U610xxx)
- **21.** Top Plate (24A337000)
- **22.** 1/4-20 x 1/2" Hex Head Machine Screw (90H052002)
- 23. Retainer Splice Bar (24l976000)
- **24.** 1/4" Lock Washer (90H006003)
- 25. 1/4-20 Hex Nut (90H010010)
- **26.** Alignment Plug (24l051000)
- 27. Specified Fastener (see table on bottom of page 3)

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HRB-10CQLCMN HANDRAIL INSTALLATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS

- 1. Establish handrail height above finish floor. Deduct 3-5/16" [83.6mm] and snap a chalk line at that height to mark the locations of the fasteners for the handrail bracket.
- 2. Cut the ligature resistant mounting bracket to length using the required deductions (see layout view). For outside corners, the mounting bracket should be mitered together. Pre-drill clearance holes for the specified wall fastener in the ligature resistant mounting bracket 3" [76.2mm] from each end. Reference chart on bottom of page 3 for correct drill diameters. All other bracket holes must not exceed 32" [812.8mm] on center. Attach closing plates at the end of each ligature resistant mounting bracket where necessary by using two (2) #6 x 1/2" tamper-resistant sheet metal screws.
- 3. Place a quick lock at each clearance hole on the ligature resistant bracket. Use the appropriate fasteners and attach the bracket assemblies to the wall at the pre-drilled locations. See figure "A" callout on page 1.
- 4. Cut the continuous aluminum retainer to length using the required deductions as noted (see layout view).

NOTE: When splicing the aluminum retainer, use the splice bar as a template and pre-drill the aluminum retainer with 9/32" drill bit.

- 5. Where the retainer will have an end cap, attached the 10C Quick Lock retainer end plate to the retainer using two (2) #6 x 1/2" 18-8 S/S pin-in-torx tamper-resistant sheet metal screws
- 6. Attach all end caps / outside corners:
 - a. Attach handrail portion of end cap to retainer:
 - i. Drill 5/32" diameter clearance holes in retainer 3/4" [19.1mm] from end of retainer.
 - ii. Insert the end caps into the retainer and drill 3/32" diameter pilot holes into the end caps.
 - iii. Attach end cap to retainer using #6 x 5/8" Philips flat head sheet metal screw.
 - b. Attach crash rail portion of end cap to the retainer:
 - i. Use end cap as template to drill 7/32" pilot holes in retainer.
 - ii. 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" round head 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 crash rail 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.

- 7. 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 figure "B" callout on page 1. Use a level to ensure retainer is level.
- 8. Cut RC-10 cushion to length noting required deductions (see layout view) and install onto aluminum retainer.
- 9. Cut the accent reveal to length and insert into slot provided in the top section of the aluminum retainer.
- 10. Cut Acrovyn handrail cover and Acrovyn crash rail cover to length. The cover length is determined by measuring the distance between the installed end caps and / or outside corner assemblies.
- 11. Starting at one end, snap the handrail cover onto the retainer along the length of the handrail.
- 12. Install the Acrovyn crash rail cover onto the lower portion of the retainer.
- 13. Using the end plate / outside corner plate as a template, mark the hole locations and drill 5/32" pilot holes. Install the end plates with two (2) #6 x 1/2" tamper-resistant sheet metal screws (four (4) per outside corner plate).
- 14. Cut the continuous top plate to the proper length by measuring the distance between the installed end plates and / or outside corner plates.
- 15. Install the top plate onto the ligature resistant bracket. Place a wood block on top of the top plate. While holding the top plate somewhat level, use a rubber mallet to strike the wood block.

NOTE: Do not hammer directly onto the top plate as this may cause damage to the top plate.

16. Work down along the length of the top plate, driving the top plate approximately half onto the ligature resistant bracket. Return and drive the top plate the remainder of the way in until the top plate is seated flush with the end plates and / or outside corner plates.

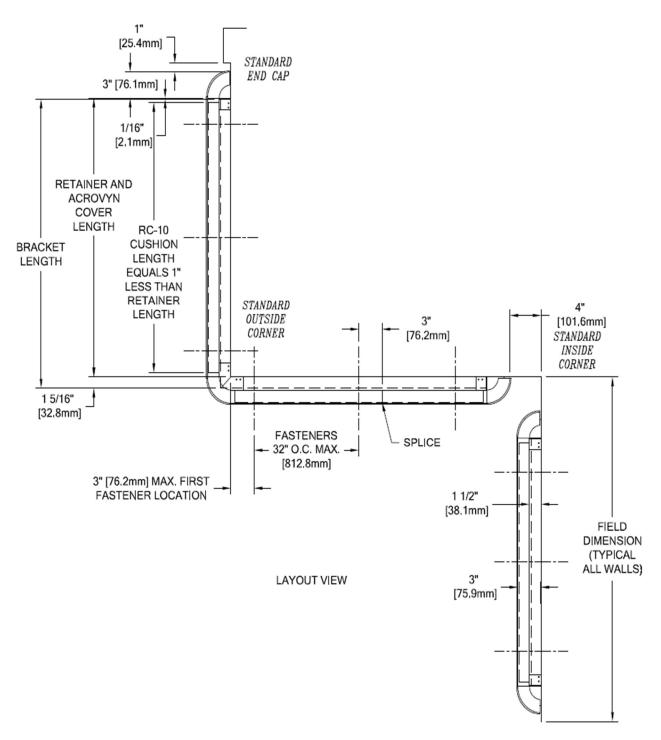
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WALL CONDITION	SPECIFIED FASTENER	DRILL DIAMETER		CS PART
		WALL	RETAINER	NUMBER
Steel Stud / Gypsum Wall	1/4-20 x 5" Round Head bolt with Toggle Lock Washer	3/4"	N/A	90H049002 90H006003
Concrete / Concrete Block	#14 x 5" Phillips Round Head All-Purpose Screw	3/16"	N/A	90H287002
Wood Stud / Gypsum Wall	#14 x 5" Phillips Round Head All-Purpose Screw	1/8"	N/A	90H287002

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