

## CRWS-2 CRASH RAIL

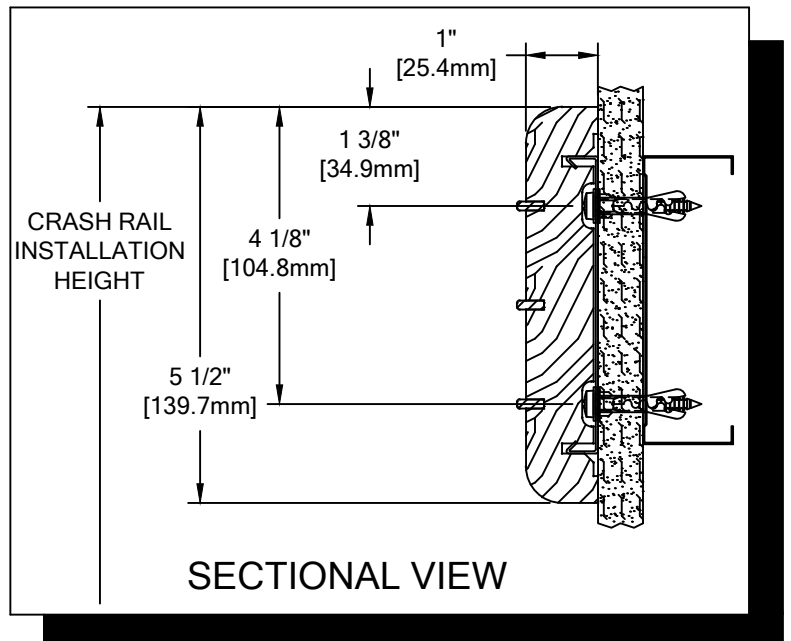
### PLEASE READ

PLEASE READ THESE INSTRUCTIONS THOROUGHLY PRIOR TO BEGINNING THE CRWS-2 CRASH RAIL INSTALLATION!

THIS INSTRUCTION SHEET IS INTENDED TO PROVIDE A SPECIFIC GUIDE TO FOLLOW FOR THE INSTALLATION OF THIS CRWS-2 CRASH RAIL. 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.

CRWS-2 CRASH RAIL 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 CRWS-2 CRASH RAIL PLEASE CALL THE FACTORY IN THE USA AT (800) 233-8493 OR EMAIL [IWPTECHSUPPORT@C-SGROUP.COM](mailto:IWPTECHSUPPORT@C-SGROUP.COM). IN CANADA CALL (888) 895-8955.



### IMPORTANT NOTES

1. THIS MATERIAL HAS BEEN MANUFACTURED TO CUSTOMER SPECIFIED DIMENSIONS AND CAN NOT BE CUT OR MODIFIED ON SITE. TO DO SO COULD VOID THE WARRANTY.
2. DUE TO THE NATURE OF WOOD, COMPONENT COLORS MAY VARY. SORT WOOD COMPONENTS AND MATCH PARTS BY COLOR.
3. ALL DIMENSIONS ARE TYPICAL.
4. 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.
5. AF-6 PLASTIC ANCHORS SHOULD SEAT FLUSH WITH GYPSUM WALL
6. CRASH RAIL SPLICE SHOULD NOT EXCEED 4" [101.6mm] DISTANCE FROM A WALL MOUNT CLIP.
7. MATERIAL MUST REACH 65°F MIN. TO 75° MAX. 24 HOURS PRIOR TO INSTALLATION. THIS IS ESSENTIAL TO MINIMIZE EXPANSION AND CONTRACTION.
8. THIS RAIL REQUIRES A MINIMUM OF 2 MOUNTING BRACKETS PER UNIT. THE MINIMUM END CAP-TO-END CAP CRASH RAIL LENGTH IS 7" [177.8mm].
9. FOR MORE INFORMATION ON CRWS-2 CRASH RAIL SEE OUR WEBSITE AT [www.c-sgroup.com](http://www.c-sgroup.com).

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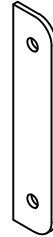
COMPONENTS & WALL FASTENERS



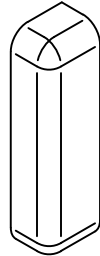
WOOD CRASH RAIL  
(24W171xxx)



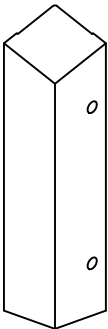
WALL MOUNT CLIP  
(24M042000)



STAINLESS STEEL  
END CAP  
(24S067000)



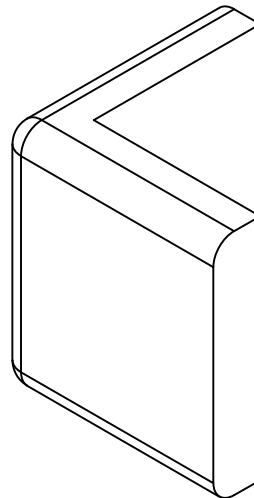
OPTIONAL WOOD  
END CAP  
(24W172xxx)



OPTIONAL TAPERED INSIDE  
CORNER BLOCK  
(24W249xxx)



ACCENT REVEAL  
(24I102108)



OPTIONAL WOOD OUTSIDE  
CORNER  
(24W329xxx)



FASTENER #1  
#12 X 1" OVAL HD  
S/S PH SMS  
(90H562002)



FASTENER #2  
#10 COUNTERSUNK FLANGED  
S/S WASHER  
(90H047003)



STAINLESS STEEL BAR  
(24S066000)

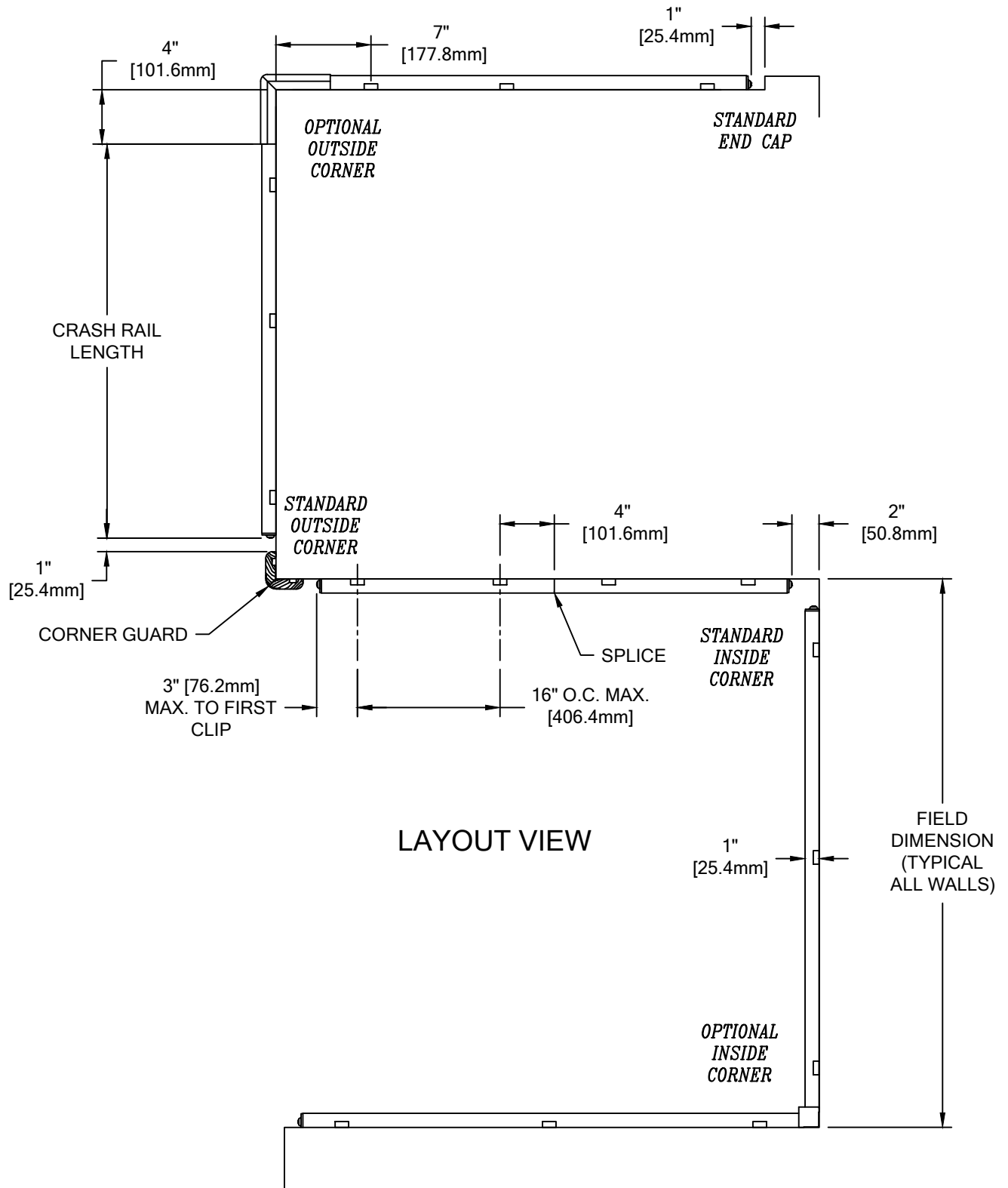


FASTENER #3  
#10 X 1 1/2" PHILLIPS  
PAN HEAD SMS  
(90H189002)

WALL CONDITION	SPECIFIED FASTENER	DRILL DIAMETERS		CS PART NUMBER
		WALL	RETAINER	
STEEL STUD/GYPSUM WALL	#10 X 1 1/2" PHILLIPS PAN HEAD SMS AF-6 PLASTIC ANCHORS	1/4"	N/A	90H189002 90H039004
CONCRETE/CONCRETE BLOCK	#10 X 1 1/2" PHILLIPS PAN HEAD SMS AF-6 PLASTIC ANCHORS	1/4"	N/A	90H189002 90H039004
WOOD STUD/GYPSUM WALL	#10 x 2-1/4" PHILLIPS PAN HEAD SMS	N/A	N/A	90H421008
20 GA. MIN. STEEL STUD AND 20 GA. MIN. STEEL STRAPPING / GYPSUM WALL CONSTRUCTION REQUIRED (TEK SCREWS)	#6 PHILLIPS PAN HEAD BUGLE HEAD TEK SCREW	N/A	N/A	90H079002

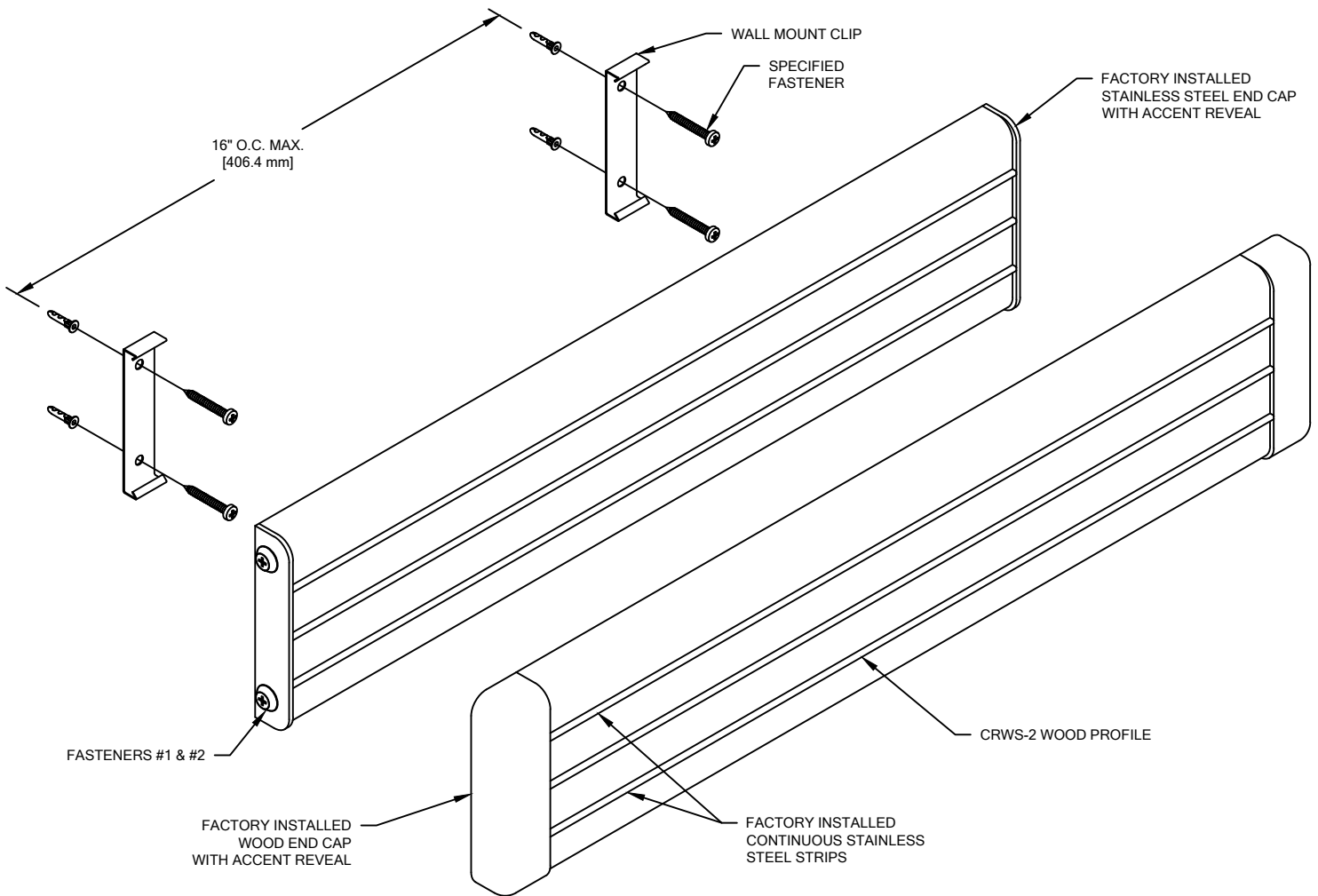
**CRWS-2 CRASH RAIL**

LAYOUT VIEW



**CRWS-2 CRASH RAIL**

TYPICAL ASSEMBLY



INSTALLING CRASH RAIL:

**NOTE:** INSTALLATION OF LINEAL OR RADIAL CRWS-2 CRASH RAIL SHOULD BE DONE IN ACCORDANCE WITH THE FOLLOWING INSTRUCTIONS.

1. ESTABLISH CRASH RAIL HEIGHT ABOVE FINISH FLOOR. DEDUCT 1 3/8" [34.9mm] AND SNAP A CHALK LINE AT THAT HEIGHT. THIS MARKS THE LOCATION OF THE UPPER ROW OF FASTENERS FOR WALL MOUNT CLIPS.

**NOTE:** IF THE OPTIONAL WOOD OUTSIDE CORNERS WERE SUPPLIED, SEE PAGE 5 FOR INSTALLATION. THESE NEED TO BE INSTALLED PRIOR TO STEP 2.

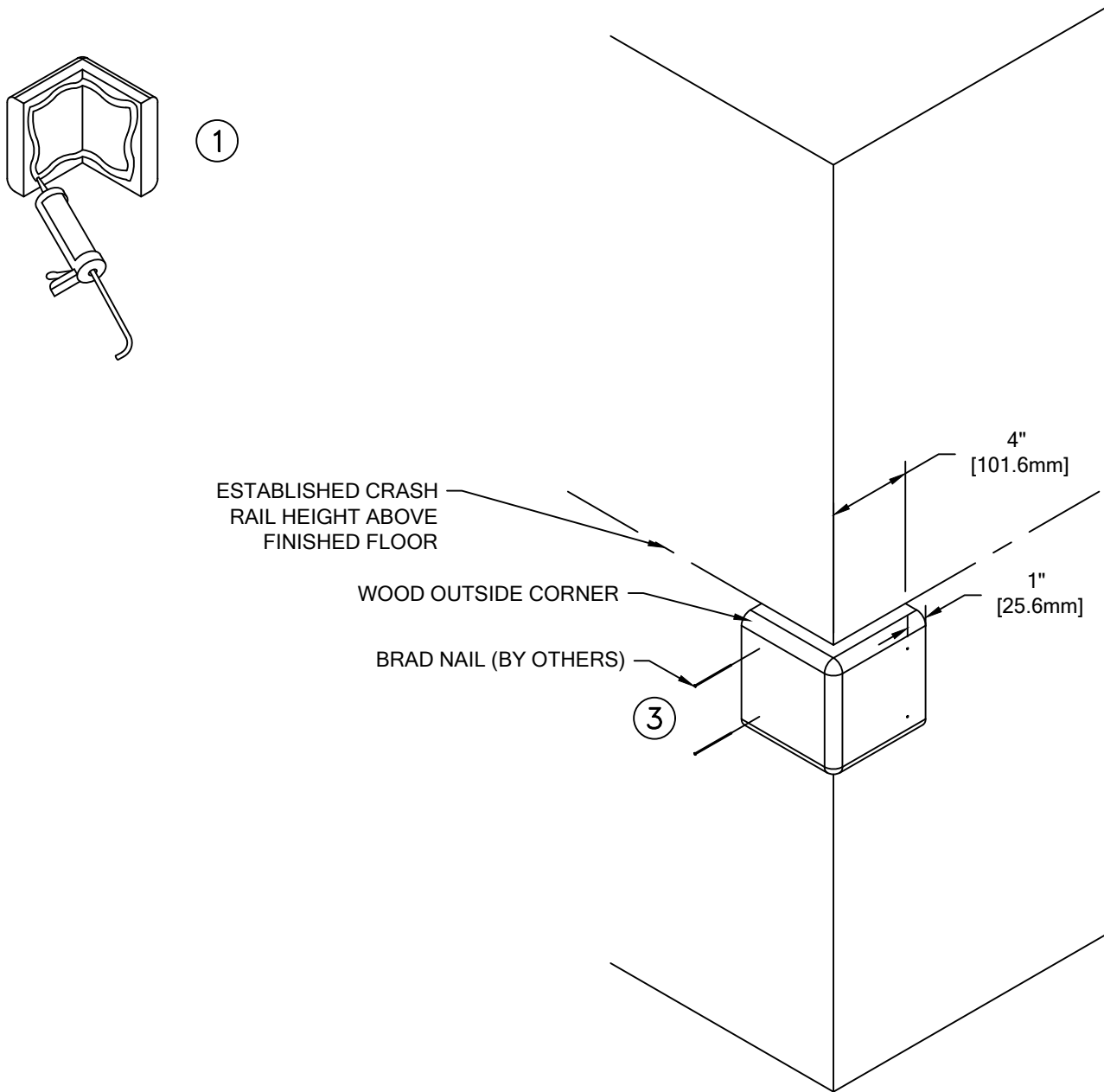
2. DETERMINE WALL FASTENER LOCATIONS BY USING THE REQUIRED DEDUCTIONS (SEE LAYOUT VIEW) AND DRILL CLEARANCE HOLES IN WALL SURFACE FOR MOUNTING HARDWARE, USING WALL MOUNT CLIP AS A TEMPLATE. SEE CHART ON PAGE 2 FOR CORRECT DRILL DIAMETERS.
3. INSTALL EACH WALL MOUNT CLIP, IN SUCCESSION, USING THE APPROPRIATE FASTENERS. USE A LEVEL TO ENSURE WALL MOUNT CLIPS ARE PLUMB. **CAUTION:** OVER TIGHTENING FASTENERS WILL DEFORM WALL MOUNT CLIP.

**WARNING:** BE SURE WALL MOUNT CLIPS AND RAIL ARE IN CORRECT LOCATION. ONCE CRASH RAIL IS INSTALLED, IT WILL BE DIFFICULT TO REMOVE WITHOUT DAMAGING CRASH RAIL. WALL AND/OR WALL MOUNT CLIPS.

4. TO INSTALL CRASH RAIL, BEGIN CLIPPING CRASH RAIL TO WALL AT ONE END AND WORK YOUR WAY DOWN THE LENGTH OF THE RAIL. USE A SOFT RUBBER Mallet TO TAP THE FACE AT CLIP LOCATIONS TO SEAT THE CRASH RAIL ONTO THE RETAINER CLIPS. BE CAREFUL NOT TO DAMAGE THE CRASH RAIL. SEE SECTIONAL VIEW FOR ALIGNMENT. THOROUGHLY CLEAN CRASH RAIL UPON COMPLETION OF INSTALLATION.

**NOTE:** WHEN FIELD FORMING RADIUS CRASH RAIL, BE SURE TO APPLY NEEDED PRESSURE FROM CLIP TO CLIP.

CRWS-2 CRASH RAIL

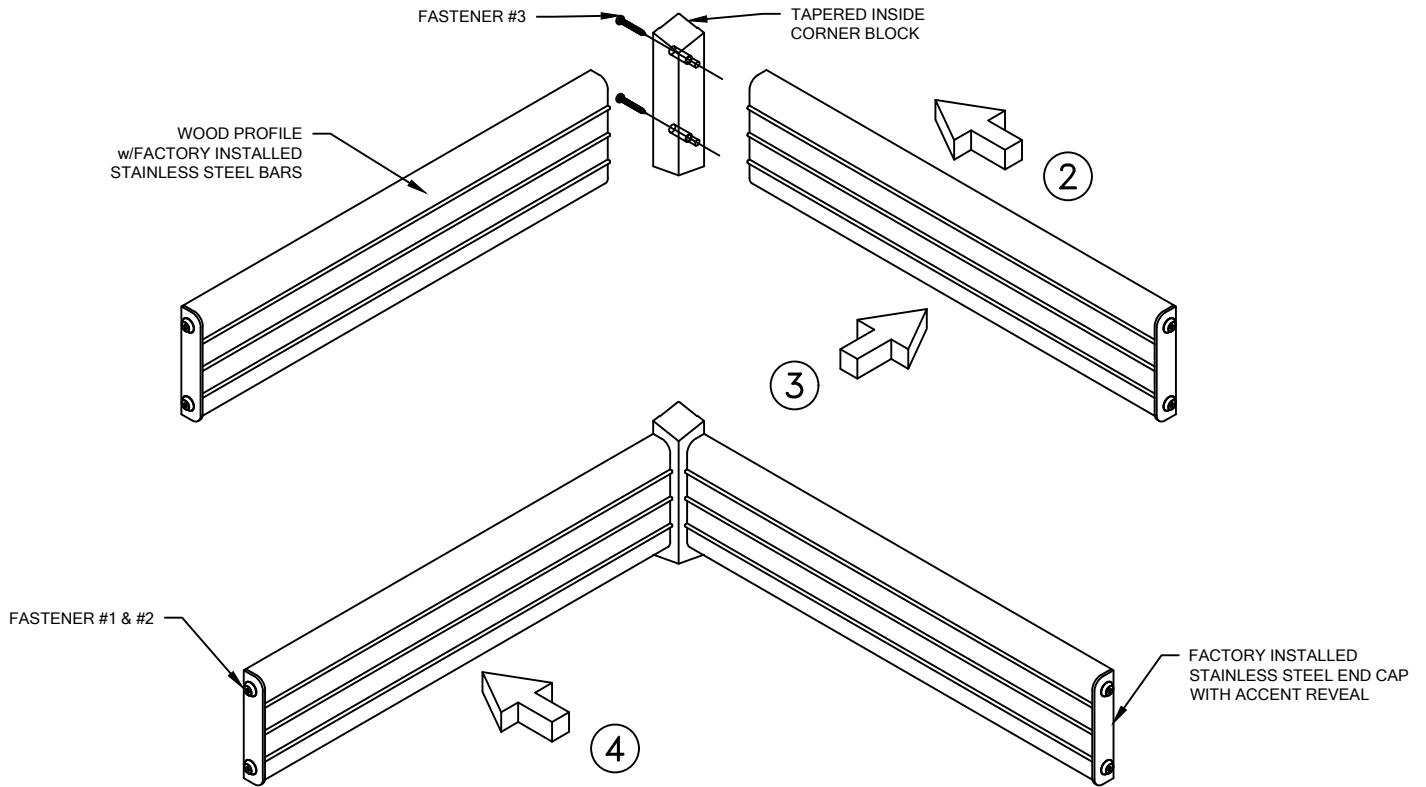


INSTALLING OPTIONAL WOOD OUTSIDE CORNERS:

1. ON THE BACK OF SUPPLIED WOOD OUTSIDE CORNER, APPLY A CONTINUOUS 1/4" BEAD OF M-1 STRUCTURAL ADHESIVE AROUND THE PERIMETER OF THE LEGS. BEAD SHOULD BE 1/2" [17.7mm] IN FROM THE EDGES.
2. PRESS THE WOOD OUTSIDE CORNER ONTO THE WALL AT THE MARKED LOCATION .
3. ONCE THE WOOD OUTSIDE CORNER IS PRESSED ONTO THE WALL, INSTALL (2) BRAD NAILS INTO EACH LEG. BRAD NAILS SHOULD BE AT LEAST 18 GA AND 2" [50.8mm] IN LENGTH AND SHOULD BE 1" [25.4mm] FROM EDGES.

NOTE: USE A FILL STICK TO CONCEAL THE BRAD NAIL HOLES.

**CRWS-2 CRASH RAIL**



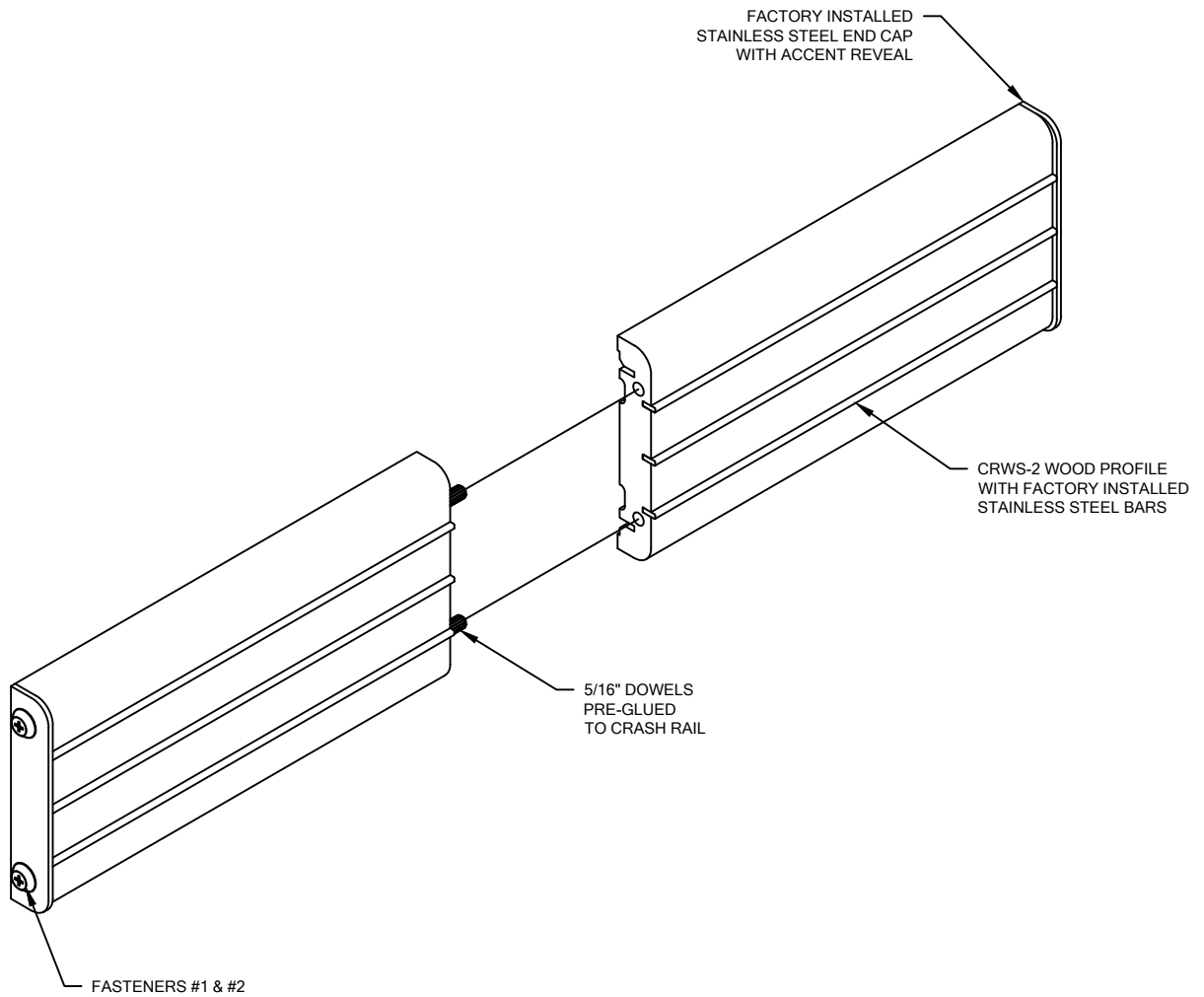
**INSTALLING INSIDE CORNER:**

1. INSTALL ENOUGH WALL MOUNT CLIPS FOR BOTH SECTIONS OF CRASH RAIL.
2. ATTACH INSIDE CORNER BLOCK TO ONLY ONE SECTION OF CRASH RAIL WITH TWO #10 X 1 1/2" PHILLIPS PAN HEAD SHEET METAL SCREWS.
3. LOCATE THE INSIDE CORNER BLOCK AND CRASH RAIL TIGHTLY AGAINST INSIDE CORNER OF WALL. FIRMLY PRESS CRASH RAIL OVER WALL MOUNT CLIPS.

**WARNING:** BE SURE WALL MOUNT CLIPS ARE IN THE CORRECT LOCATIONS. ONCE CRASH RAIL IS INSTALLED, IT WILL BE DIFFICULT TO REMOVE WITHOUT DAMAGING THE CRASH RAIL, WALL AND/OR WALL MOUNT CLIPS.

4. TO CREATE A TIGHT SEAM AT THE INSIDE CORNER BLOCK, PRESS THE ADJOINING SECTION OF RAIL AGAINST INSIDE CORNER BLOCK, AND FIRMLY PRESS CRASH RAIL OVER WALL MOUNT CLIPS.

CRWS-2 CRASH RAIL



INSTALLING SPLICE:

1. INSTALL ENOUGH WALL MOUNT CLIPS FOR BOTH SECTIONS OF CRASH RAIL. INSTALL FIRST SECTION OF CRASH RAIL.
2. APPLY GLUE TO DOWEL AND PRE-DRILLED HOLES IN CRASH RAILS. TITEBOND WOOD GLUE IS RECOMMENDED FOR THIS APPLICATION.
3. TO INSTALL THE ADJOINING SECTION OF RAIL HOLD IT AT AN ANGLE, WITH MATING END CLOSEST TO WALL. PRESS THIS SECTION OF RAIL FIRMLY AGAINST PRECEDING RAIL (WITHOUT ENGAGING WALL MOUNTING CLIPS) TO CREATE A TIGHT SEAM. WHILE MAINTAINING PRESSURE TOWARDS SEAM, FIRMLY PRESS RAIL ONTO PREVIOUSLY INSTALLED WALL MOUNT CLIPS.

**WARNING:** BE SURE WALL MOUNT CLIPS ARE IN THE CORRECT LOCATION. ONCE CRASH RAIL IS INSTALLED, IT WILL BE DIFFICULT TO REMOVE WITHOUT DAMAGING THE CRASH RAIL, WALL AND/OR WALL MOUNT CLIPS.