PLEASE READ

PLEASE READ THESE INSTRUCTIONS THOROUGHLY PRIOR TO BEGINNING THE ECR-32 CRASH RAIL INSTALLATION!

THIS INSTRUCTION SHEET IS INTENDED TO PROVIDE A SPECIFIC GUIDE TO FOLLOW FOR THE INSTALLATION OF ECR-32 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.

ECR-32 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 ECR-32 CRASH RAIL PLEASE CALL THE FACTORY AT (800) 233-8493 OR EMAIL 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. RADIAL MATERIAL MAY BE SUPPLIED FACTORY FORMED OR IN STRAIGHT LENGTHS FOR FIELD FORMING. CONSULT FACTORY FOR OPTIONS.

3. TANGENT POINTS ON FACTORY FORMED RADIAL MATERIAL WILL BE MARKED APPROXIMATELY AND SHOULD BE CUT TO SUIT FIELD CONDITIONS.

4. ALL DIMENSIONS ARE TYPICAL.

5. 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.

6. 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.

7. MAY REQUIRE USE OF FIRE PUTTY WHEN INSTALLED ON FIRE WALL WITH TOGGLE BOLTS. REFERENCE INSTRUCTIONS 24FIREPUTTY FOR FIRE PUTTY INSTALLATION.

8. THIS CRASH RAIL REQUIRES A MINIMUM OF 2 MOUNTING BRACKETS PER UNIT. MINIMUM END BEND TO END BEND DIMENSION IS 13” [330.2mm]

ECR-32A AND ECR-32S

COMPONENTS & FASTENERS

ECR-32A ALUMINUM CRASH RAIL
(24A295000)
ECR-32S STAINLESS STEEL
CRASH RAIL
(24S057000)

ALUMINUM TUBE BRACKET
(24F067003)

NEOPRENE GASKET
(24F068004)
(1) FOR ECR-32A
(2) FOR ECR-32S

<table>
<thead>
<tr>
<th>WALL CONDITION</th>
<th>SPECIFIED FASTENER</th>
<th>DRILL DIAMETERS</th>
<th>CS PART NUMBER</th>
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<tbody>
<tr>
<td>STEEL STUD/GYPSUM WALL</td>
<td>1/4-20 X 6&quot; S/S PHILLIPS FLAT HEAD MS</td>
<td>3/4&quot; N/A</td>
<td>90H307002 90H019004</td>
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<tr>
<td></td>
<td>1/4-20 TOGGLE</td>
<td></td>
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<tr>
<td>CONCRETE/CONC. BLOCK</td>
<td>1/4-20 X 5&quot; S/S PHILLIPS FLAT HEAD MS</td>
<td>1/2&quot; N/A</td>
<td>90H308002 90H020004</td>
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<tr>
<td></td>
<td>1/4-20 X 1 1/4&quot; 4-WAY LEAD SHIELD</td>
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<tr>
<td>WOOD STUD/GYPSUM WALL</td>
<td>#14 X 6&quot; PHILLIPS FLAT HEAD WOOD SCREW</td>
<td>3/16&quot; N/A</td>
<td>90H524002</td>
</tr>
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</table>
NOTE: THIS MODEL IS FABRICATED CUT-TO-SIZE IN THE FACTORY. ALL PIECES ARE TO BE CUT, BENT, AND DRILLED FOR FASTENER LOCATIONS IN THE FACTORY. THE PROVIDED CRASH RAIL SHOULD BE USED AS A TEMPLATE FOR MARKING BRACKET LOCATIONS ON THE WALL. THIS DETAIL IS TO SHOW THE STANDARD CONDITIONS FOR THE MODEL.

UNIT LENGTH

STANDARD END RETURN

STANDARD OUTSIDE CORNER

SPLICE

STANDARD INSIDE CORNER

SETBACK FROM DOOR FRAME
TYPICAL 1" [25.4mm]

3" [76.2mm]

FIELD DIMENSION (TYPICAL ALL WALLS)

UNIT LENGTH

SPLICE
NOTE: INSTALLATION OF LINEAL OR RADIAL ECR-32A & ECR-32S CRASH RAIL SHOULD BE DONE IN ACCORDANCE WITH THE FOLLOWING INSTRUCTIONS.


2. ESTABLISH CRASH RAIL HEIGHT ABOVE THE FINISHED FLOOR. DEDUCT 2" [50.8mm] AND SNAP A CHALK LINE AT THAT HEIGHT. THIS MARKS THE CENTERLINE OF THE FASTENERS FOR THE CRASH RAIL.

3. DRILL CLEARANCE HOLES IN WALL SURFACE FOR MOUNTING HARDWARE, USING THE CRASH RAIL AS A TEMPLATE (SEE CHART ON PAGE 2).

4. INSTALL EACH SECTION OF CRASH RAIL, IN SUCCESSION, USING THE NEOPRENE GASKETS, BRACKETS AND THE APPROPRIATE HARDWARE. USE A NEOPRENE GASKET BETWEEN THE CRASH RAIL AND BRACKET ON MODEL ECR-32S ONLY. USE A LEVEL TO ENSURE CRASH RAIL IS LEVEL.

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

5. TIGHTEN ALL FASTENERS AND REMOVE PROTECTIVE COATING FROM RAIL TO COMPLETE INSTALLATION.