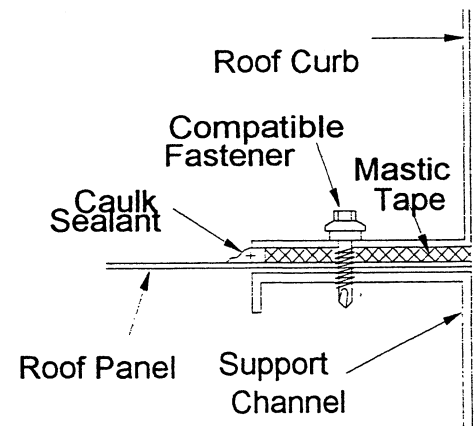
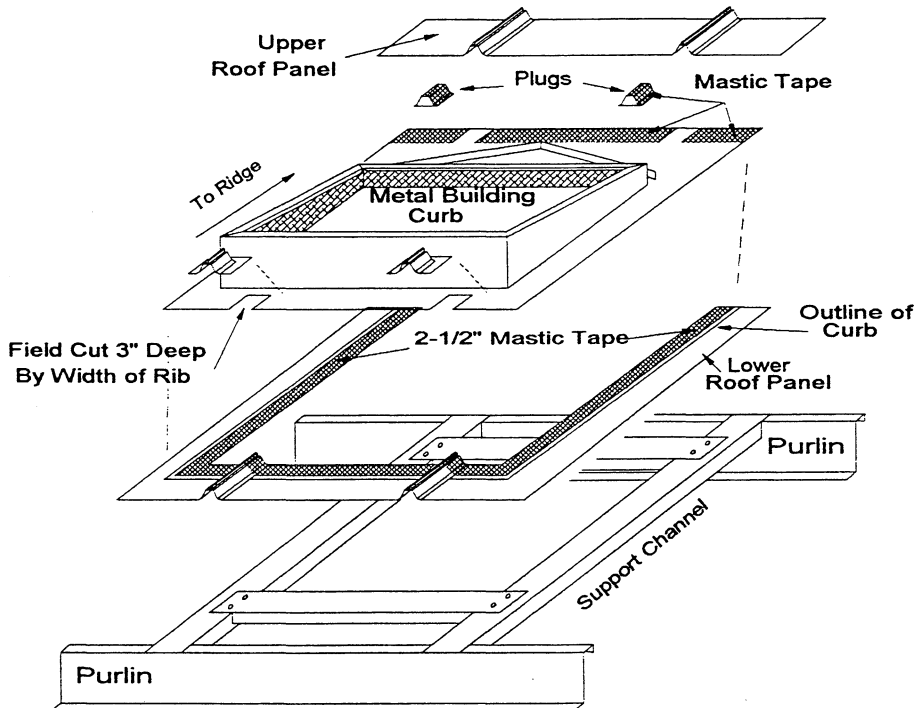


# Installation Instructions Metal Building Roof Curbs

## Trapezoid Seam Roof Panel Curb Model MBS-LRC (Over / Under)

1. Once building framing is complete, locate roof opening and place support framing for roof curb and equipment loads in accordance with building engineer's specifications, being careful not to fasten support channels to purlins. The support framing is to be configured so that at least two parallel curb walls rest on support channels. Loads shall not be supported by a cantilever curb section exceeding 12" in length.
2. Fasten lower roof panel to purlins being careful to mark location of support channels. Position roof curb in desired location. Using a pencil trace the outer perimeter of the curb and the inside opening, also mark on curb location of ribs. Remove curb and measure 3" in from the upper and lower lines on the panel and draw parallel lines. Extend the inside side lines (lines running parallel with ribs) and connect to the lines just drawn 3" in from upper and lower lines.
3. Cut out the roof opening using the last 3 lines just drawn (Note in the event that a panel rib falls between the curb I.D. and the outer side flange, then the 2 side cuts will need to extend past those ribs). On the curb cut rib openings 3" deep on the lower flange only.
4. Using the cut opening, slide and position the support channels so that they will support the two parallel sides running the same direction as the ribs. Now fasten the support channels to the purlins.

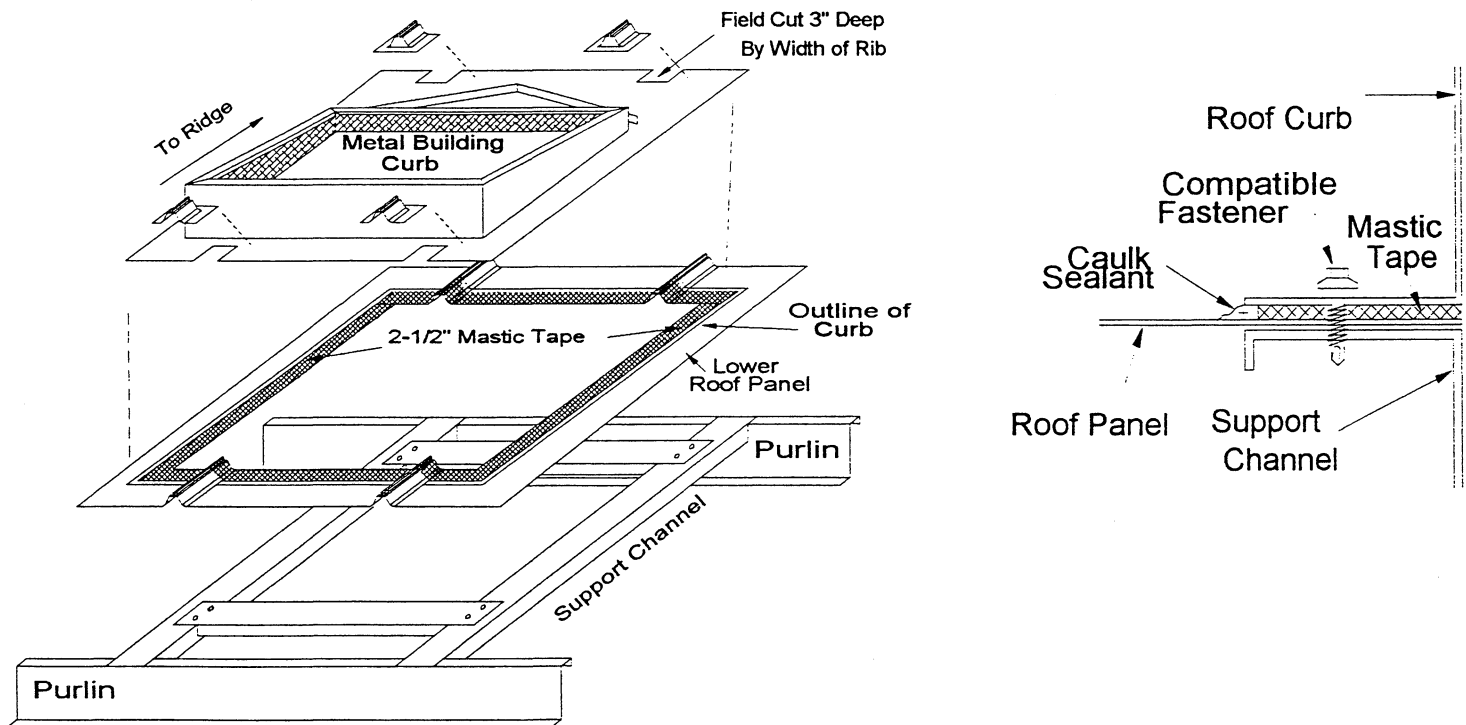


5. Temporarily position roof curb over prepared opening. Check fit and make any corrections or adjustments before continuing.
6. Remove curb and apply the mastic tape to roof panel 1/2" in from the lines penciled on the outer perimeter of the lower panel. Apply mastic tape to the upper top flange of the curb, 1/2" from the upper end. Note do not apply mastic tape to locations of rib plugs. Apply mastic tape to top sides of plugs. Be careful to mitre the corners of the tape (do not butt or overlap the tape), except where the tape ends use a square cut.
7. Place roof curb over opening and secure with 2 screws placed on opposite sides of curb but do not tighten down (these screws are intended to keep the curb in one position). Install upper roof panel in place. Place rib caps and plugs in place and secure with 1 screw. Apply a 1/4" bead of silicone or polyurethane caulk between the outer flange of the roof curb and roof panel and between rib caps and roof/panel (apply caulk liberally).
8. Fasten the curb to the support channels through the curb flange and roof panel using suitable fasteners spaced a minimum of 6 inches apart, using a minimum of 4 fasteners per side. Apply a minimum of 5 screws around perimeter of each rib cap. Also apply a screw per large flat surface of rib cap and upper panel into plugs. You may want to finger tool silicone \ polyurethane caulk to ensure there is no air or missed gaps in caulk.
9. Apply a closed cell neoprene strip to top of roof curb before setting equipment. The equipment should be fastened directly to curb wall using suitable fasteners.

# Installation Instructions Metal Building Roof Curbs

## Trapezoid Seam Roof Panel Curb Model MBS-LRC (Over / Over)

1. Once building framing is complete, locate roof opening and place support framing for roof curb and equipment loads in accordance with building engineer's specifications, being careful not to fasten support channels to purlins. The support framing is to be configured so that at least two parallel curb walls rest on support channels. Loads shall not be supported by a cantilever curb section exceeding 12" in length.
2. Fasten roof panel to purlins being careful to mark location of support channels. Position roof curb in desired location. Using a pencil trace the outer perimeter of the curb and the inside opening, also mark on curb location of ribs. Remove curb and measure 3" in from the upper and lower lines on the panel and draw parallel lines. Extend the inside lines (lines running parallel with ribs) and connect to the lines just drawn 3" in from upper and lower lines.
3. Cut out the roof opening using the last four lines just drawn (Note in the event that a panel rib falls between the curb I.D. and the outer side flange, then the 2 side cuts will need to extend past those ribs). On the curb upper and lower flanges, cut rib openings 3" deep where previously marked.
4. Using the cut opening, slide and position the support channels so that they will support the two parallel sides running the same direction as the ribs. Now fasten the support channels to the purlins.



5. Temporarily position roof curb over prepared opening. Check fit and make any corrections or adjustments before continuing.
6. Remove curb and apply the mastic tape to roof panel 1/2" in from the lines penciled on the outer perimeter of the panel. Be careful to mitre the corners of the tape (do not butt or overlap the tape).
7. Carefully place roof curb over opening and secure with 2 screws placed on opposite sides of curb but do not tighten down. These screws are intended to keep the curb in one position. Place rib caps in place and secure with 1 screw. Apply a 1/4" bead of silicone or polyurethane caulk between the outer flange of the roof curb and roof panel and between rib caps and roof curb/panel (apply caulk liberally).
8. Fasten the curb to the support channels through the curb flange and roof panel using suitable fasteners spaced a minimum of 6 inches apart, using a minimum of 4 fasteners per side. Apply a minimum of 5 screws around perimeter of each rib cap. Also apply a screw in each large flat surface of rib cap. You may want to finger tool silicone \ polyurethane caulk to ensure there is no air or missed gaps in caulk.
9. Apply a closed cell neoprene strip to top of roof curb before setting equipment. The equipment should be fastened directly to curb wall using suitable fasteners.