

**CURB DETAILS**

EN3010 - SINGLE ROOF CURB

EN3030 - DOUBLE ROOF CURB

EN3098 - PURLIN CAVITY FRMAING INSTALLATION (LIGHTWEIGHT CURBS)

EN3099 - LIGHTWEIGHT ROOF CURB INSTALLATION

EN3100 - LIGHTWEIGHT ROOF CURB

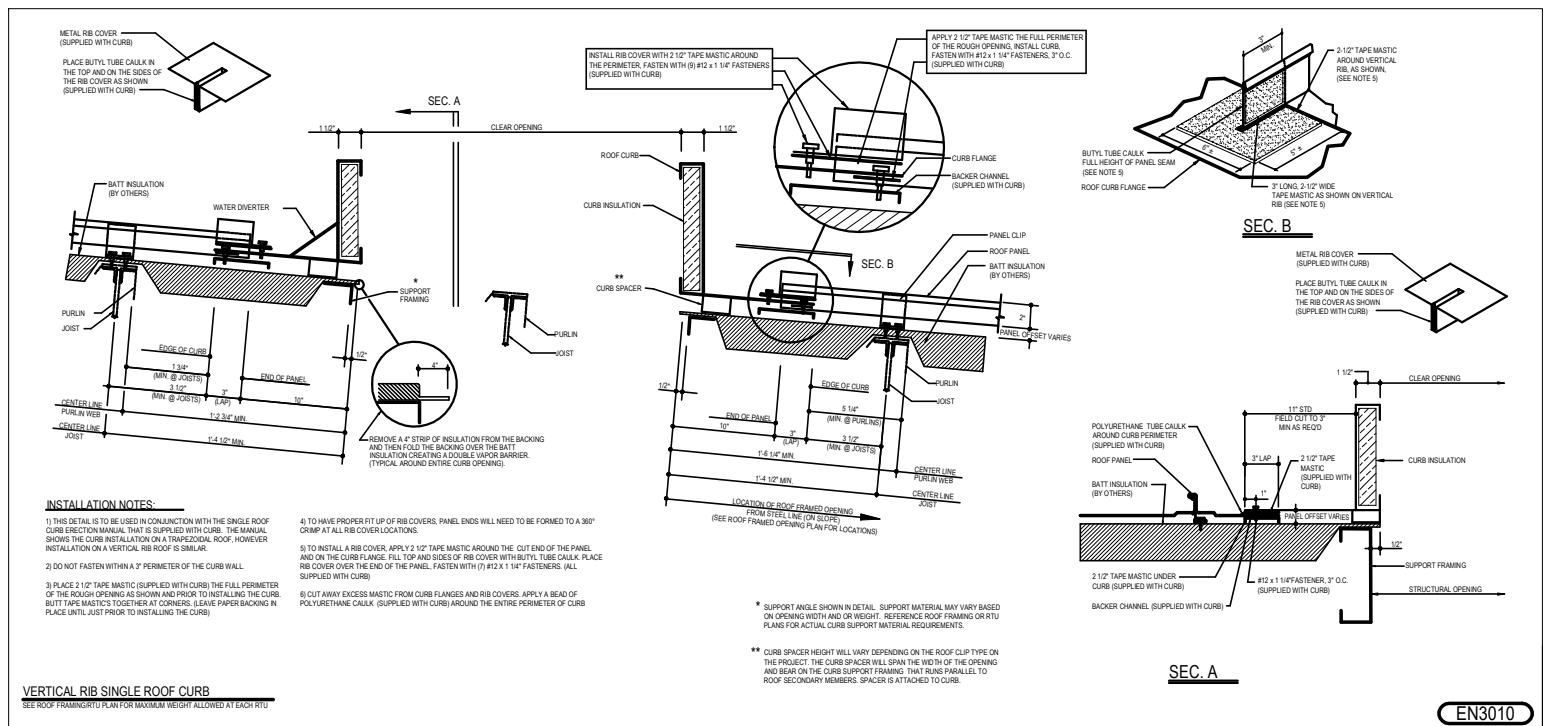
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# NUCOR® STANDARD and LIGHTWEIGHT CURB DETAILS

## VERTICAL RIB ROOF PANELS

### EN3010 - SINGLE ROOF CURB

Download the DWG file by clicking [here](#).



#### Detailer Notes:

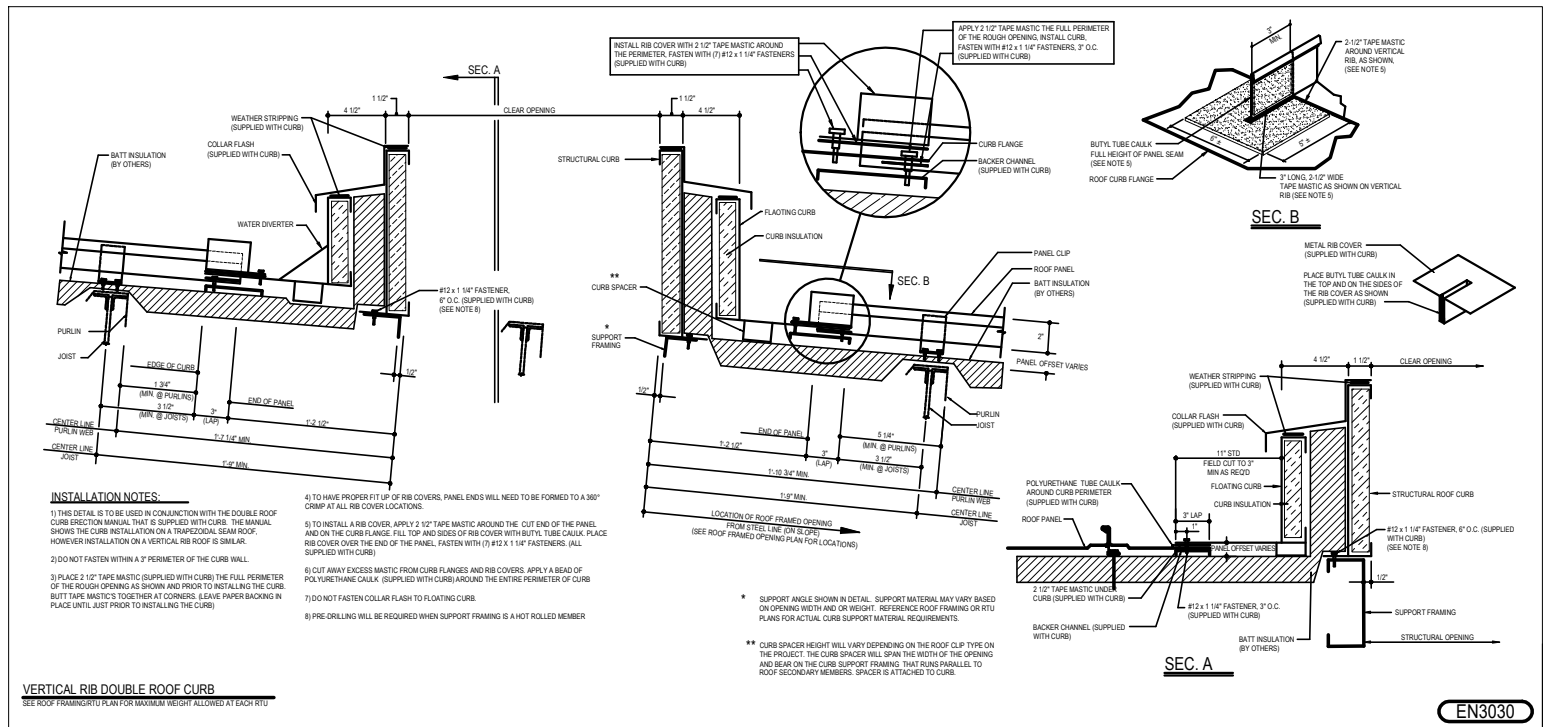
1) N/A

# NUCOR® STANDARD and LIGHTWEIGHT CURB DETAILS

## VERTICAL RIB ROOF PANELS

### EN3030 - DOUBLE ROOF CURB

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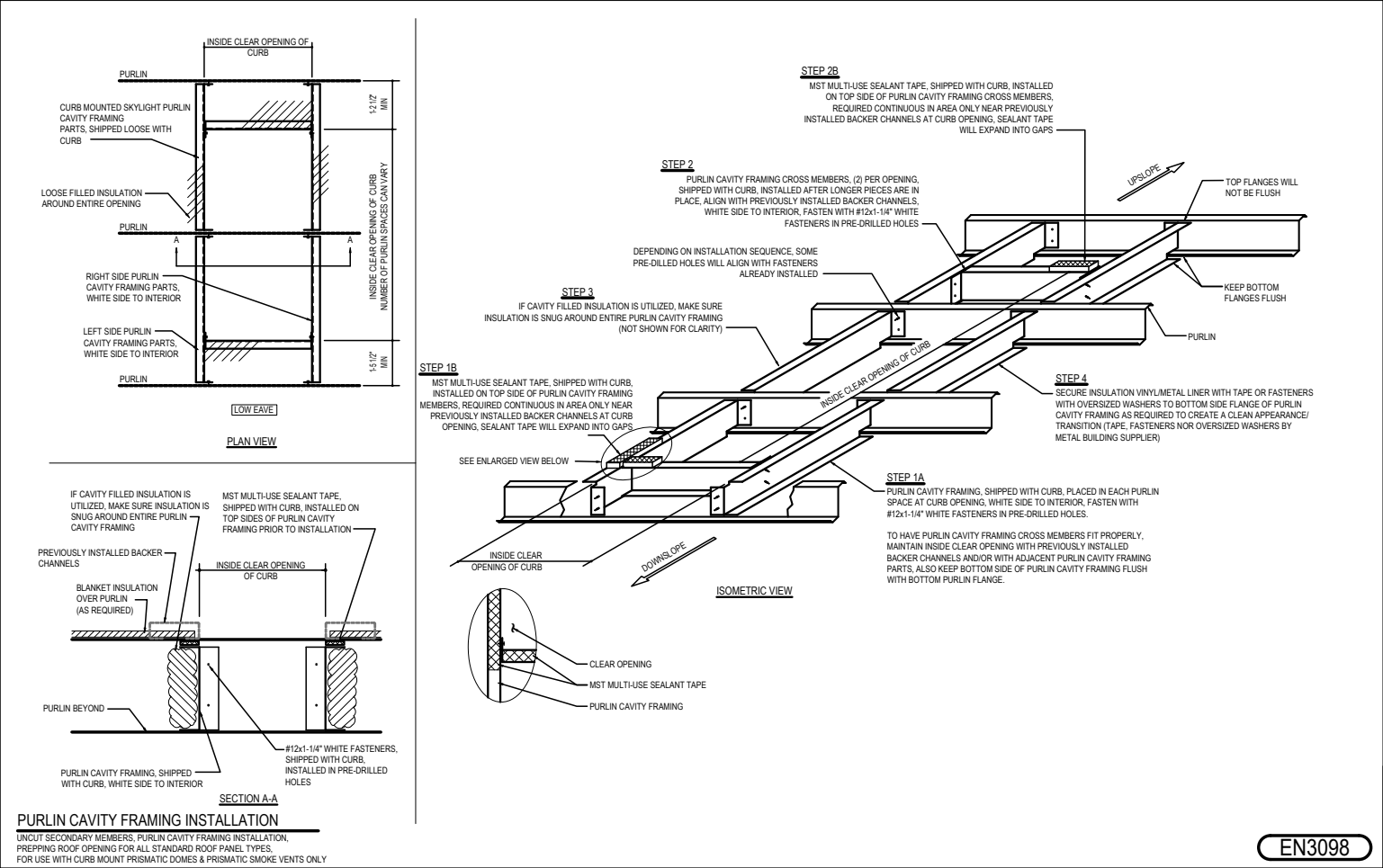


#### Detailer Notes:

1) N/A

EN3098 - PURLIN CAVITY FRAMING INSTALLATION (LIGHTWEIGHT CURBS)

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Detailer Notes:

1) THIS DETAIL IS A DUPLICATE OF DETAILS DL0098, EN3098, AND EN6098. WHEN MAINTENANCE IS REQUIRED, BE SURE TO UPDATE THE ADDITIONAL DETAILS AS REQUIRED (PD ONLY).

# NUCOR® STANDARD and LIGHTWEIGHT CURB DETAILS

## BUILDINGS GROUP

### VERTICAL RIB ROOF PANELS

## EN3099 - LIGHTWEIGHT ROOF CURB INSTALLATION

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**SAFETY PRECAUTION:**  
WORKERS SHOULD MAINTAIN A CONSTANT AWARENESS OF THEIR LOCATION IN RELATION TO THE ROOF EDGE AND ANY ROOF OPENINGS AT ALL TIMES. DO NOT WALK OR STAND ON CURB FRAMING UNTIL PANELS ARE SECURED PROPERLY.

- DO NOT FASTEN OR ATTACH BACKER SUPPORT/CROSS CHANNELS TO SECONDARY.
- BACKER SUPPORT AND CROSS CHANNELS ARE DESIGNED TO "FLOAT".

ROOF SECONDARY IS NOT DESIGNED TO BE CUT AND MUST REMAIN CONTINUOUS BELOW THE BACKER CHANNEL FRAMING AS SHOWN.

**INSTALLATION PROCEDURE (RETRO-FIT):**

- 1) DETERMINE ROOF CURB LOCATION(S). IF POSSIBLE, TRY TO CENTER OPENING/CURB OVER A MAJOR RIB/SEAM. KEEP OPENING MINIMUM 2" FROM EDGE OF RIB. SEE SECTION A-A.
- 2) FOLLOW ROOF PANEL CUT-OUT PROCEDURES (AT RIGHT) FOR PROPERLY CUTTING OPENING IN ROOF PANEL.
- 3) INSTALL BACKER SUPPORT CHANNELS (SIDES), USING CAUTION NOT TO TEAR/CUT ROOF INSULATION WHEN PLACING WITHIN OPENING.
- 4) CENTER BACKER FRAMING OVER SECONDARY MAKING SURE THE ENDS OF THE BACKER SUPPORT CHANNELS REST ON SECONDARY EQUALLY. (IF A NON-THERMAL BLOCK ROOF APPLICATION, THE BACKER SUPPORT CHANNELS WILL COME FACTORY NOTCHED AT SECONDARY).
- 5) INSTALL BACKER CROSS CHANNELS (UPSLOPE/DOWNSLOPE), WITH FACTORY NOTCHED ENDS, ON TOP OF BACKER SUPPORT CHANNELS AND UNDER ROOF PANEL.
- 6) FOLLOW INSULATION TIE-OFF PROCEDURE (FROM BELOW) FOR PROPERLY REMOVING INSULATION FROM ROOF OPENING.

**INSTALLATION PROCEDURE (NEW CONSTRUCTION):**

- 1) DETERMINE ROOF CURB LOCATION(S). IF POSSIBLE, TRY TO CENTER OPENING/CURB OVER A MAJOR RIB/SEAM. KEEP OPENING MINIMUM 2" FROM EDGE OF RIB. SEE SECTION A-A.
- 2) ASSEMBLE BACKER SUPPORT/CROSS CHANNELS. PLACE (2) POP RIVETS IN EACH CORNER TO HELP HOLD BACKER CHANNELS TOGETHER, AS REQ'D.
- 3) LAY BACKER FRAMING ON TOP OF INSULATION. (IF NO INSULATION IS UTILIZED THEN LAY DIRECTLY ON TOP OF SECONDARY).
- 4) CENTER BACKER FRAMING OVER SECONDARY MAKING SURE THE ENDS OF BACKER SUPPORT CHANNELS REST ON THE SECONDARY EQUALLY. (IF A NON-THERMAL BLOCK ROOF APPLICATION, THE BACKER SUPPORT CHANNELS WILL COME FACTORY NOTCHED AT SECONDARY).
- 5) START SHEETING OVER BACKER FRAMING. ATTACH ROOF PANELS PER STANDARD PRACTICE.
- 6) PLACE A FASTENER AT LOWER AND UPPER CORNER OF SUPPORT FRAMING.
- 7) FOLLOW INSULATION TIE-OFF PROCEDURE (AT RIGHT) FOR THIS INSTALLATION. CONTINUE SHEETING ROOF PANELS AND PLACE A FASTENER AT OTHER LOWER AND UPPER CORNERS OF SUPPORT FRAMING.
- 8) FOLLOW INSULATION TIE-OFF PROCEDURE (FROM BELOW) FOR PROPERLY REMOVING INSULATION FROM ROOF OPENING.

**ROOF PANEL CUT-OUT PROCEDURE:**

WHEN FIELD CUTTING PANELS DO NOT USE ABRASIVE SAWS OR OTHER CUTTING METHODS WHICH PRODUCE HOT METAL PARTICLES AND/OR BURN THE CUT EDGES. THESE METHODS WILL DAMAGE THE PAINTED AND ALUMINUM COATED FINISH AND VOID ANY WARRANTIES. USE DOUBLE CUT SHEARS, NIBBLERS OR OTHER CUTTING DEVICES WHICH DO NOT PRODUCE HOT METAL PARTICLES OR BURNED EDGES.

- 1) FOR RETRO-FIT INSTALL, THE ROOF OPENING WIDTH DIMENSION WILL BE THE OUTSIDE OF CURB FLANGE DIMENSION MINUS (1/8)". THE ROOF OPENING LENGTH DIMENSION WILL BE THE INSIDE OF CURB DIMENSION. ONCE DIMENSIONS ARE LAID OUT AND CONFIRMED, DRILL A HOLE IN PANEL AT EACH CORNER AND CUT AWAY ROOF PANELS, USING CAUTION NOT TO CUT INTO ROOF INSULATION (IF UTILIZED).
- 2) FOR NEW CONSTRUCTION, PLACE A FASTENER AT EACH CORNER OF THE SUPPORT FRAMING AS SHOWN IN DETAIL "A" (THIS IS TEMPORARY AND WILL HELP ENSURE THE SUPPORT FRAMING DOES NOT MOVE DURING PANEL INSTALLATION). LOCATE CORNER FASTENERS UNDER ROOF PANELS, DRILL A HOLE IN ROOF PANEL AT EACH FASTENER LOCATION AND CUT AWAY ROOF PANELS, USING CAUTION NOT TO CUT INTO ROOF INSULATION (IF UTILIZED).
- 3) DEBURR ALL FIELD CUT PANEL CORRUGATIONS AND PANEL EDGES OF SHARP EDGES BEFORE PROCEEDING.

**INSULATION TIE-OFF PROCEDURE AT BLANKET INSULATION:**

USE WITH PURLINS OR JOIST AS ROOF SECONDARY MEMBER TYPES.

- 1) REMOVE INSULATION BACKING FROM THE LINER WITHIN THE ROOF OPENING AREA. CUT LINER INSIDE OF THE ROOF OPENING AREA.
- 2) TUCK LINER UNDER ROOF PANEL AND ON TOP OF BACKER CHANNELS (SIDES).
- 3) FOLD LINER OVER UP/HILL/DOWN/HILL BACKER CHANNELS AND TAPE LINER TO BACKER CHANNELS.
- 4) OPTIONAL TIE-OFF PROCEDURE: INSTALL ROOF CURB (WITH PROPER SEALANTS UNDER CURB FLANGES), SECURE ROOF CURB, WRAP LINER UP AND OVER INNER CURB FLANGE PERIMETER, SECURE LINER WITH TAPE OR FASTENERS WITH OVERSIZED WASHERS (TAPE, FASTENERS NOR WASHERS NOT BY METAL BUILDING SUPPLIER).

**INSULATION TIE-OFF PROCEDURE AT PURLIN CAVITY FRAMING:**

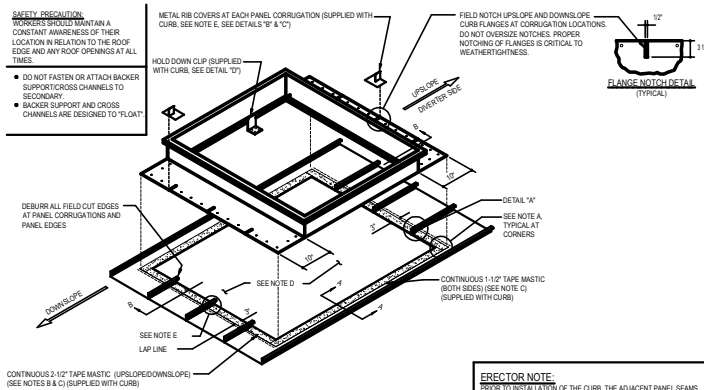
USE WITH CAVITY FILLED INSULATION (BASKET) SYSTEMS AND/OR WITH METAL ROOF LINER IF ORDERED.

- 1) REMOVE ADDITIONAL INSULATION FROM WITHIN THE ROOF OPENING AREA TO BE ABLE TO INSTALL PURLIN CAVITY FRAMING. BUT NOT SO MUCH AS TO CREATE VOIDS. INSULATION NEEDS TO BE SNUG AROUND PURLIN CAVITY FRAMING.
- 2) INSTALL PURLIN CAVITY FRAMING PARTS WITH MULTI-USE SEALANT TAPE APPLIED ON TOP SIDE FLANGE, TO CREATE SEAL BETWEEN BACKER CHANNELS AND PURLIN CAVITY FRAMING.
- 3) FILL INSULATION VOIDS WITH ADEQUATE INSULATION, AS REQUIRED.
- 4) SECURE INSULATION VINYL/METAL LINER WITH TAPE OR FASTENERS WITH OVERSIZED WASHERS TO BOTTOM SIDE FLANGE OF PURLIN CAVITY FRAMING (TAPE, FASTENERS NOR OVERSIZED WASHERS BY METAL BUILDING SUPPLIER).

### Detailer Notes:

- 1) FOR USE WITH CURB MOUNT PRISMATIC DOMES & PRISMATIC SMOKE VENTS ONLY
- 2) THIS DETAIL IS A DUPLICATE OF DETAILS DL0099, EN3099, AND EN6099. WHEN MAINTENANCE IS REQUIRED, BE SURE TO UPDATE THE ADDITIONAL DETAILS AS REQUIRED (PD ONLY).

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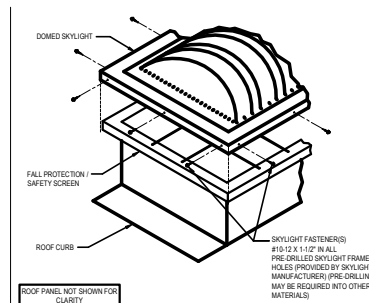
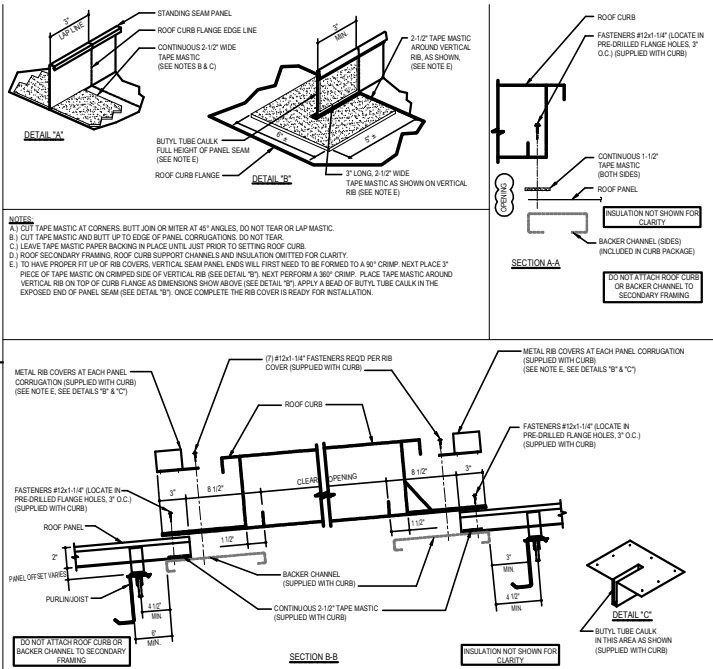
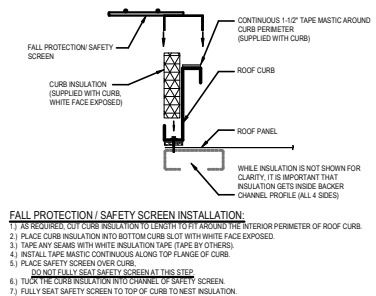
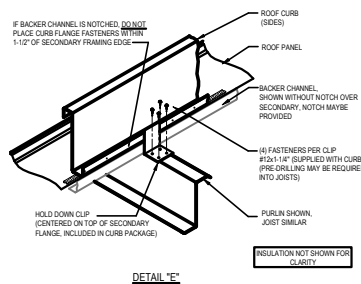


### INSTALLATION PROCEDURES:

- [illegible]

## LIGHTWEIGHT ROOF CURB INSTALLATION

VERTICAL RIB ROOF PANEL  
FOR USE WITH PRISMATIC DOMES AND PRISMATIC SMOKE VENTS ONLY



- ### DOMED SKYLIGHT INSTALLATION:
- 1) HANDLE DOMED SKYLIGHT WITH CARE. INSURE THE INSIDE OF THE UNIT IS CLEAR OF DEBRIS THROUGHOUT THE INSTALLATION PROCESS. DO NOT HIT SKYLIGHT FRAME WITH HAMMER OR ANY OTHER KIND OF Mallet. THIS MAY CAUSE DAMAGE TO THE SKYLIGHT.
  - 2) PROPERLY ELEVATE DOMED SKYLIGHT FROM FLAT SURFACES DURING STORAGE TO PREVENT HEAT BUILD-UP OR EXCESSIVE INTERNAL TEMPERATURES UNDER THE DOME. OTHER DAMAGE CAN OCCUR TO INTERNAL COMPONENTS.
  - 3) CALL FOR TOP SIZE OF THE SKYLIGHT. AN OVERSIZING SKYLIGHT SCREEN IS NOT REQUIRED. AN AIR SEAL TAPE IS PRE-MOUNTED TO THE UNDERSIDE OF THE SKYLIGHT.
  - 4) SET SKYLIGHT UNDER PREPARED CURB. MARKING SURFACE SKYLIGHT IS SQUARE AND EQUALLY SPACED ALL FOUR SIDES OF CURB.
  - 5) ATTACH SKYLIGHT WITH PROVIDED SCREWS. BE SURE NOT TO DISTORT THE SKYLIGHT FRAME. DRIVE SCREWS INTO CURB. DO NOT OVER-TIGHTENING MAY CREATE FORCES WHICH MAY CRACK THE SKYLIGHT LENS.

DOMED SKYLIGHT CLEANING:

- 1) WHEN CLEANING LENS, USE ONLY WATER OR WATER WITH MILD SOAP. USE A SOFT RAG TO MINIMIZE THE SCRATCHING.
- 2) NEVER USE AMMONIA, ALCOHOL, AROMATIC OR PETROLEUM BASED PRODUCTS TO CLEAN LENS. THIS WILL CAUSE DETERIORATION AND/OR CRACKING OF THE LENS AND WILL VOID THE WARRANTY.

Detailer Notes:

1) N/A