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ROOF CURB INSTALLATION INSTRUCTIONS:
R-PANELS

Installation Check List:

PARTS LIST

◎ Flat Washer	Polyurethane Sealant Caulk
⬡ Nut	14 Gauge Galvinized Steel Subframe 5-1/2" tall Length is equal to the purlin spacing minus 1-3/8"
3/8" x 1" bolts	
#14 - 1 1/8" Neoprene Self-Tap Screw	
Triple Bead Sealant Tape	Back-up Channel

BEGIN INSTALLATION

① ATTACH SUB-FRAMES

Attach sub-frames to purlins (see drawing 1.1 and 1.2). Finger tighten all hardware, then upset threads to secure nuts. Attach sub-frames using the nuts, bolts, and washers.

Washer
Bolt
Nut
Sub-frame

Drawing 1.1
Drawing 1.2

Roof Purlin
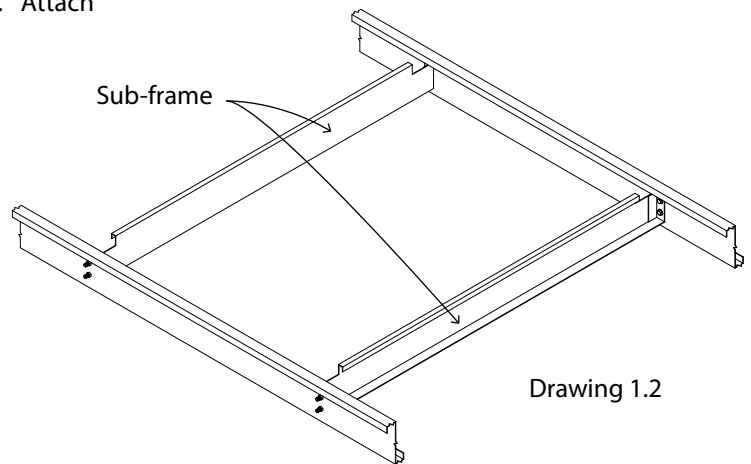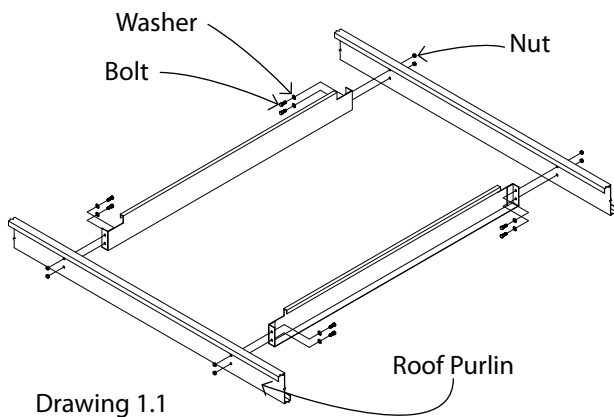
NOTICE Sub-frame max. loading 500 lbs.

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② LAYOUT CURB ON ROOF PANEL

Mark base flange locations and throat area cut lines by setting roof curb in place on roof panel (DO NOT USE LEAD PENCIL). Upslope/downslope cut lines will be 2 1/2" less than outer edge of base flange.

Note #1: For uninsulated curb(s), throat opeing is actual I.D. of curb. For insulated curb(s), use actual I.D. and add 1 3/4" to each side.
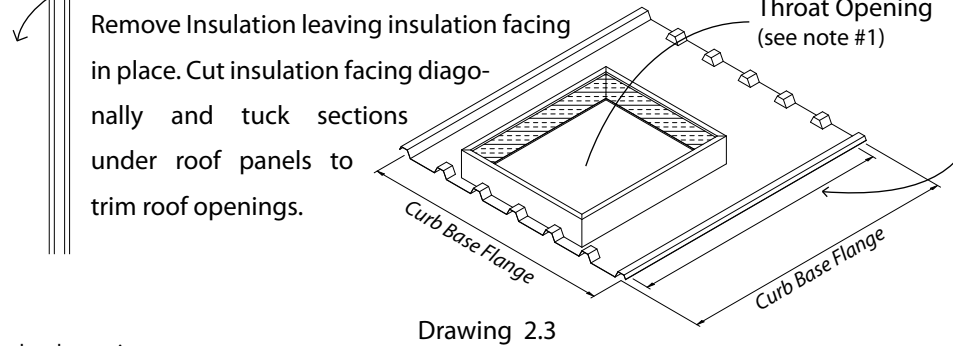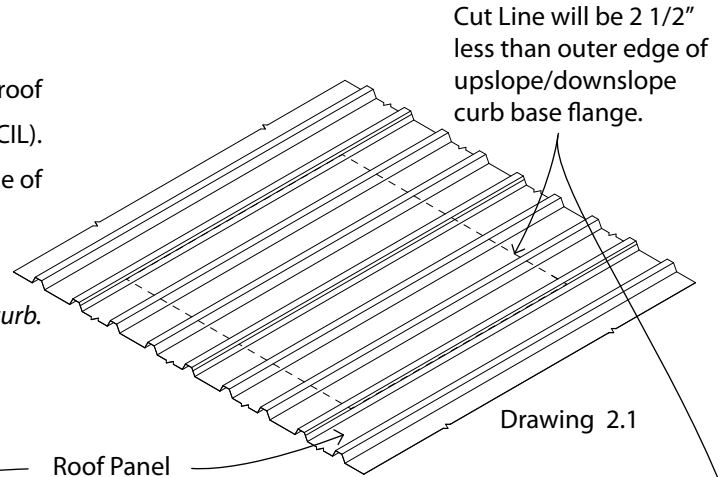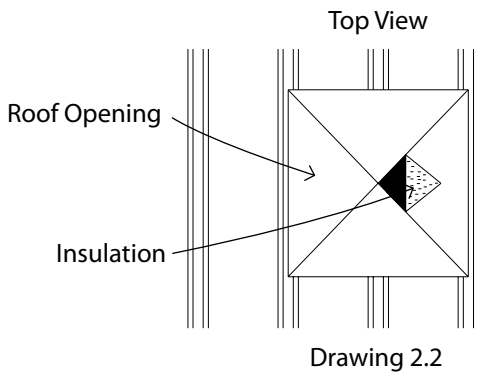
Cut Line will be 2 1/2" less than outer edge of upslope/downslope curb base flange.

Drawing 2.1

Roof Panel

Top View

Roof Opening

Insulation

Drawing 2.2

Remove Insulation leaving insulation facing in place. Cut insulation facing diagonally and tuck sections under roof panels to trim roof openings.

Throat Opening (see note #1)
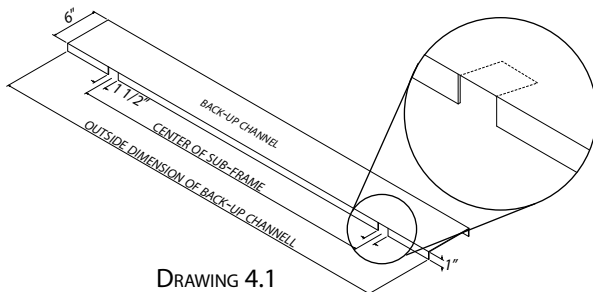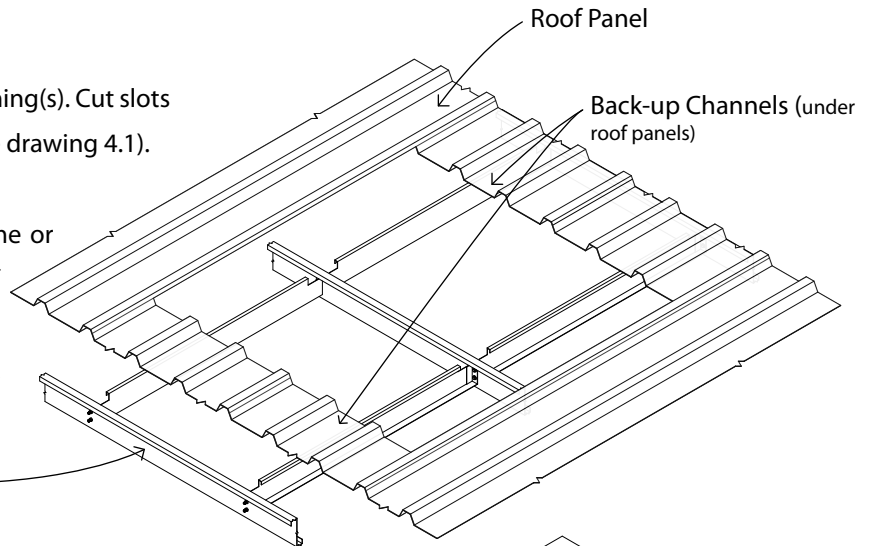
Curb Base Flange

Curb Base Flange

Drawing 2.3

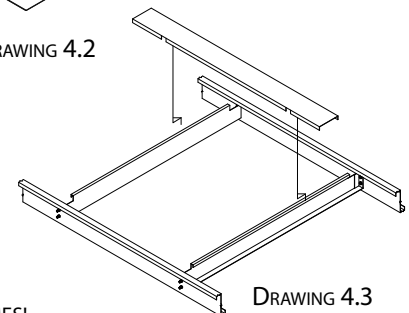*Notice* Sub-frames and back-up channels not shown in the above picture.

③ MOUNT BACK-UP CHANNELS

Center back-up channels with the center roof opening(s). Cut slots in back-up channels to slide over sub-frame(s) (see drawing 4.1).

Back-up channels are not be screwed to sub-frame or purlin. Slide back-up channels underneath roof panel (see drawing 4.2). Back-up channels are to be flush with roof opening as showing in drawing 4.2.

Roof Panel

Back-up Channels (under roof panels)

Roof Purlin

Drawing 4.2

6"
2 1/2"
BACK-UP CHANNEL
CENTER OF SUB-FRAME
OUTSIDE DIMENSION OF BACK-UP CHANNEL
1"
1"

Fold cut tabs up 90 degrees underneath the back-up channels as shown.

Drawing 4.1

Drawing 4.3

NOTICE DO NOT SCREW BACK-UP CHANNELS TO SUB-FRAMES!

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④ **APPLY SEALANTS & SET CURB IN PLACE**

Apply a strip of sealant tape on the upslope side of the roof curb(s) and on downslope side of the roof panel before setting roof curb(s) in place (see drawing 4.1).

The upslode highs are to be installed _UNDER_ the roof panel.

Roof Curb

Roof Panel

The downslope highs are to be installed _OVER_ the roof panel.
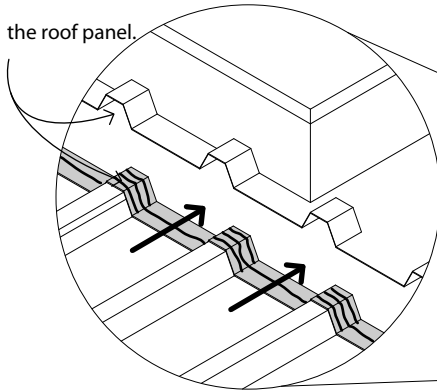
Caulk
(apply as shown)

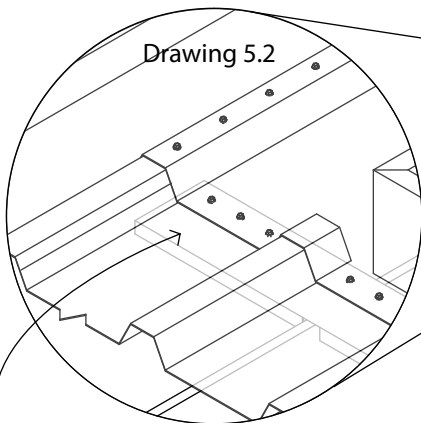Sealant Tape

Sealant tape on both sides of roof opening.

Drawing 4.1

NOTICE Sub-frames and back-up channels not shown in the above picture(s).

⑤ **FASTEN CURB TO BACK-UP CHANNELS**

Fasten curb(s) to back-up channels and roof panel using self-tap screws (see drawing 5.2). DO NOT FASTEN CURB, ROOF PANEL, OR BACK-UP CHANNELS TO SUB-FRAMES.

Roof Panel

Drawing 5.2
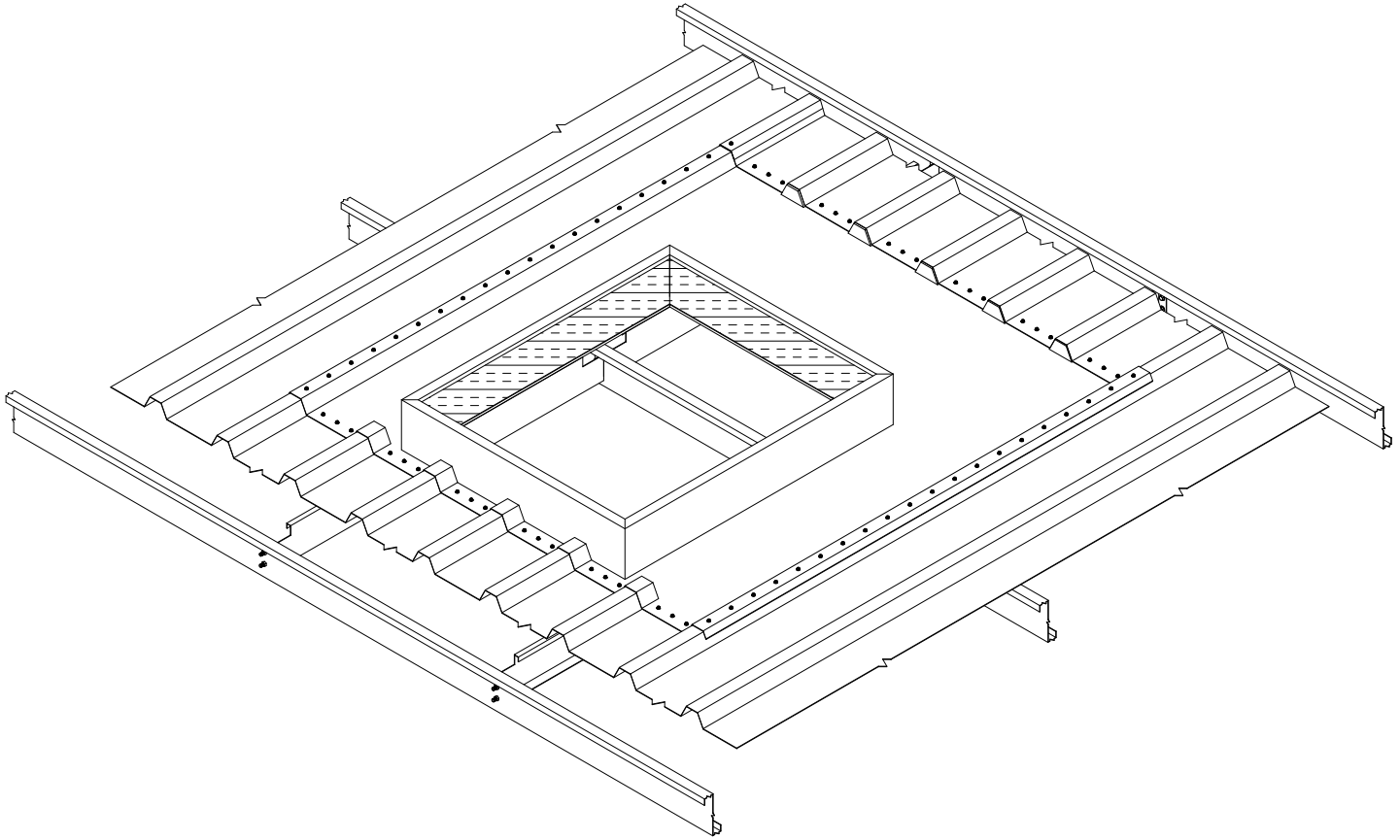
Self Tap Screws

Back-up Channels (under roof panels)

Drawing 5.1

NOTICE Sub-frames and back-up channels not shown in the above picture(s).

WARNING!
ALWAYS USE FALL PROTECTION WHILE
WORKING AROUND ROOF OPENINGS.

COMPLETED INSTALLATION

WARNING!
ALWAYS USE FALL PROTECTION WHILE
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