

Size Code	Rough Opening	Finished Opening	Max. Outside Dimension	Fits on Center Spacing
2x2 CMC	22 1/2" x 22 1/2"	21 1/2" x 21 1/2"	26 1/4" x 26 1/4"	24"
2x4 CMC	22 1/2" x 46 1/2"	21 1/2" x 45 1/2"	26 1/4" x 50 1/4"	24"
3x3 CMC	30 1/2" x 30 1/2"	29 1/2" x 29 1/2"	34 1/4" x 34 1/4"	16"

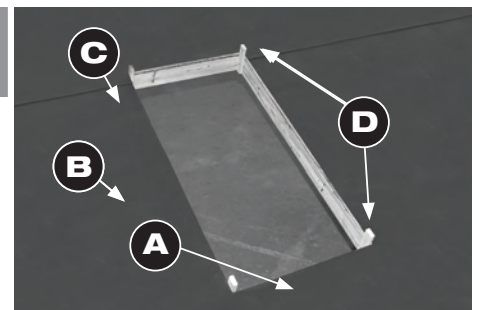
* **U-Factor values** range from 0.35-0.57 and **Solar Heat Gain Coefficient values** from 0.24-0.55 based on model. The NFRC certified ratings for individual models, are shown on the **ENERGY STAR® U.S. Climate Zone Skylight Chart** on the back side of this insert.

STEP 1

Apply 24" wide strips of self-adhering roofing underlayment membrane around perimeter of skylight opening.

- Begin by installing the first strip of membrane at bottom edge of opening.
- Next, install the 2 side strips of membrane, overlapping the bottom strip.
- Finally, install the top strip of membrane, overlapping the side strips.
- Install (4) Alignment Posts (supplied in the VTECH installation kit) at each corner of opening using enclosed screws. Extend Alignment Posts a minimum of 2" above roof surface as shown in the illustration.

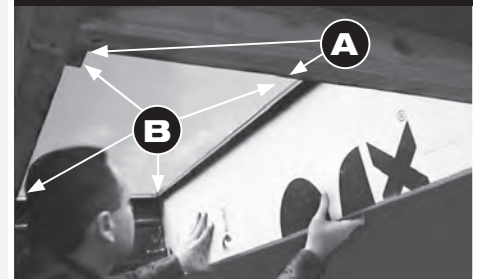
STEP 1



* **NOTE:** In order to achieve the lower U-Factor values as mentioned on the **ENERGY STAR® U.S. Climate Zone Skylight Chart** (see back side) a 3/4" polyisocyanurate/polyurethane based insulation board with a minimum R-value of 4.5 per inch must be installed (not supplied with unit). If you do not wish to install the insulation board, continue to STEP 2.

- First, measure the height and width of all four sides of the inner curb. (4) insulation boards will need to be cut to fit within the inner curb measurements of all sides, minus the thickness of the insulation board, (i.e., a 24" wide curb using a .75" insulation board, will be cut to a 23.25" strip.
- Place each individual strip of insulation board against the inner curb until all (4) sides are placed as shown. Continue to STEP 2.

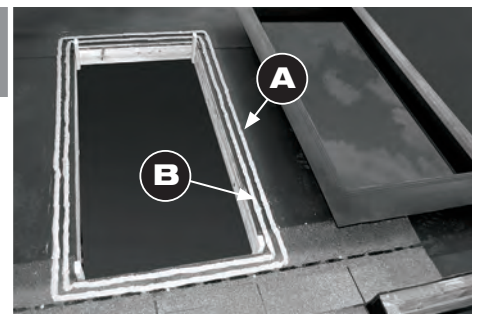
* This STEP is only necessary if installing a poly insulation board (not included).



STEP 2

- Apply (2) 1" wide beads of polyurethane mastic (supplied in the VTECH installation kit) around outside edge of opening.
- Be sure to keep mastic approx. 3/4" from the inside edge (to prevent mastic from squeezing into opening when the skylight is set), as shown in the illustration.

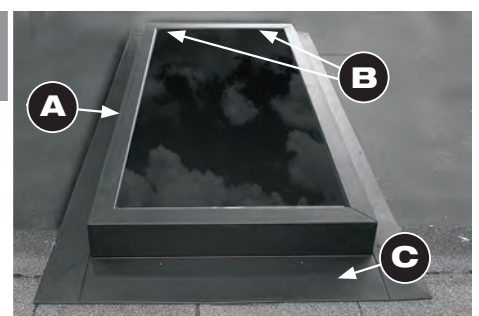
STEP 2



STEP 3

- Place skylight over the opening using the Alignment Posts to center the skylight.
- Make sure the end with the pre-marked anchor points is on top and press firmly into place.
- Make sure that the bottom flange of skylight is on top of the roofing material as shown in the illustration.

STEP 3

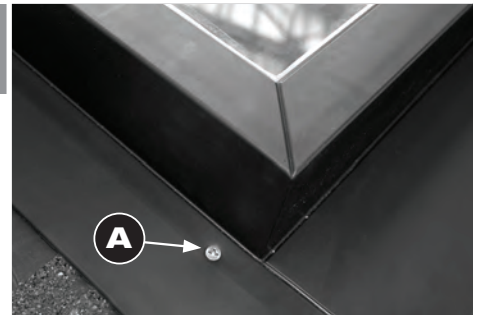


STEP 4

Secure skylight to the roof deck with screws provided in the VTECH installation kit.

- A. Install all screws at all pre-marked anchor points on the skylight apron.

STEP 4

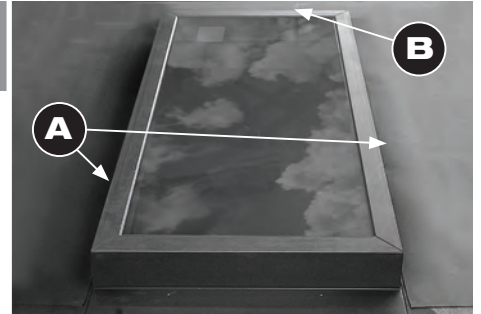


STEP 5

Apply a 14" (minimum) wide strip of self-adhering roofing underlayment membrane on top of skylight apron.

- A. First, install the 2 side strips of membrane making sure to extend onto the roofing material.
- B. Next, install the top strip of membrane overlapping the side strips.

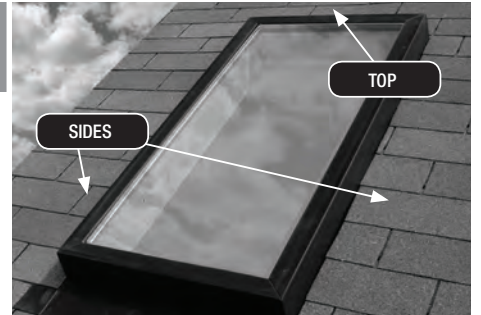
STEP 5



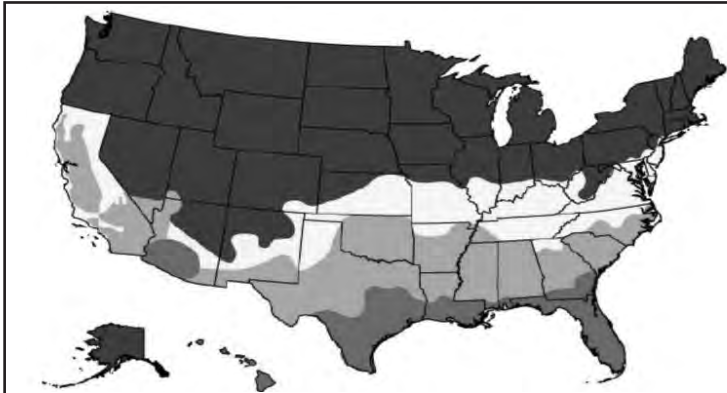
STEP 6

Finally, finish installing roofing material along the sides and across the top of the skylight.

STEP 6



ENERGY STAR™ for Windows, Doors & Skylights CLIMATE ZONE MAP



Skylight Values	U-Factor ¹	SHGC ²
Northern	≤ 0.55	ANY
North-Central	≤ 0.55	≤ 0.40
South-Central	≤ 0.57	≤ 0.30
Southern	≤ 0.70	≤ 0.30

- Northern
- North Central
- South Central
- Southern

VTECH Seamless Self-Flashing (SSF) Skylights

VTECH Model Size	Product Description	U-Factor* w/ Board	U-Factor w/o Board	SHGC
2x2 SSF 2x4 SSF 3x3 SSF	Standard Glass	0.43*	0.57	0.24
2x2 SSF 2x4 SSF 3x3 SSF	Safety Glass	0.42*	0.56	0.24
2x2 SSF 2x4 SSF 3x3 SSF	Hurricane Glass	0.39*	0.53	0.24
2x2 SSF 3x3 SSF	Acrylic Dome Over Poly w/ Lumira-Aerogel	0.35*	0.49	0.55
2x2 SSF 2x4 SSF 3x3 SSF	Polycarbonate w/ Lumira-Aerogel	0.35*	0.49	0.50

¹ Btu/h-ft²-°0

² Fraction of incident solar radiation

U-Factor: Measures the rate of heat transfer and tells you how well the window insulates. U-Factor values generally range from 0.25 to 1.25 and are measure in Btu/h-ft². The Lower the U-factor, the better the window insulates. U-Factor results are in conjunction with a 3/4 inch Polyisocyanurate/Polyurethane based insulation board with a minimum R value of 4.5 per inch (not supplied with unit).

Solar Heat Gain Coefficient(SHGC): Measures the fraction of solar energy transmitted and tells you how well the product blocks heat caused by sunlight. SHGC is measured on a scale of 0 to 1; values typically range from 0.25 to 0.80. The lower the SHGC, the less solar heat the window transmits.

Source: <http://www.energystar.gov>

VTECH Skylights
solid-state skylight technology