

# Marvin Skylight and Awaken

## Installation Instructions

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**ABSTRACT:** Please read these instructions in their entirety before beginning to install your Marvin Skylight and Awaken products. These installation instructions demonstrate the installation of a Marvin Skylight or Awaken in new wood frame construction using an industry approved water management system. For installation using other construction methods, such as remodeling, replacement, and recessed openings refer to the latest version of ASTM E2112, “Standard Practice for Installation of Exterior Windows, Doors and Skylight installation suggestions. The same information for ASTM E2112 can be found on the ASTM website, [www.astm.org](http://www.astm.org).

Regional standard practices, environmental conditions, and codes may vary and supersede the procedures contained within. The responsibility for compliance is yours: the installer, inspector, and owner(s).

The English language version of this instruction is the official version and shall take precedence over any translation.

*NOTE: Numbers listed in parentheses () are metric equivalents in millimeters rounded to the nearest whole number*

## Table of Contents

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Hazards and Warnings.....	2
After Market Products .....	3
Installer and Builder Information .....	3
Tools and Supplies Needed .....	3
Included Supplies.....	4
Deck Mounted Installation.....	4
Curb Mounted Installation .....	11
Metal Roof Rigid Flashing Installation (Deck Mount Only).....	17
Awaken Electrical Component Installation .....	19
Prep Unit .....	19
Using the Cable from the Awaken Junction .....	19
Running a Cable to Awaken.....	20
Testing Functionality .....	21
App Installation .....	21
Technical Specifications .....	22

# Hazards and Warnings

## WARNING!

Older homes may contain lead-based paint, which may be disturbed when replacing windows or performing renovations. Consult state or local authorities for safe handling, disposal, or abatement requirements. For information, go to [www.epa.gov/lead](http://www.epa.gov/lead).

## WARNING!

**Do NOT lift or move without proper equipment. Read, understand, and follow all lift equipment manufacturers' instructions and safety information.**

## WARNING!

This product can expose you to chemicals including titanium oxide, which is known to the state of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## WARNING!

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested
- A swallowed button cell or coin battery can cause Internal **Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH** of **CHILDREN**.
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



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- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



## WARNING!

This product can expose you to chemicals including methanol, which is known to the state of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## **WARNING!**

Always practice safety! Wear the appropriate eye, ear, and hand protection, especially when working with power tools.

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## **After Market Products**

Alterations to Marvin products including window films, insulating or reflective interior window treatments or additional glazings can cause excessive heat buildup and/or condensation. They may lead to premature failures not covered under warranty by Marvin Windows and Doors.

Before purchasing or applying any product that may affect the installation or performance of Marvin windows or doors, contact the manufacturer of after-market product/glazings that are not supplied by Marvin and request written product use, associated warranties and damage coverage. Provide this information and warranties to the end user and/or building owner for future reference.

## **Installer and Builder Information**

- Always provide a copy of these instructions for the current homeowner.
- Plan sizing of rough opening and clearance from exterior finishing systems to allow for normal materials shrinkage or shifting (e.g. wood structure with brick veneer; allow adequate clearance at the sill). Failure to do so can void the Marvin warranty coverage.
- Refer to the Technical Installation Specifications section for technical specifications regarding the installation of this product. These installation requirements as well as the details in the section must be followed to achieve the advertised Performance Grade (PG) rating of this product.
- It is the responsibility of the builder, installer, and subcontractors to protect the interior and exterior of windows or doors from contact with harsh chemical washes, construction material contamination and moisture. Damage to glazing, hardware, weather strip and cladding/wood can occur. Protect with painters tape and/or protective sheathing as required. Follow all guidelines regarding material use, preparation, personal safety and disposal.
- Contact your Marvin supplier if you have any questions regarding product and materials used in manufacturing or questions on replacement parts.
- Please refer to the PDF version of this instruction for further information regarding best practices installer and builder information, code, and other legal requirements. The PDF version is the official document of record.

## **Tools and Supplies Needed**

- Safety glasses/Gloves
- Pry bar
- Square
- Drill/driver
- T20 Torx or #2 Phillips bits
- Hammer
- Pencil
- Saw
- Suction cups for handling glass panels
- Utility knife
- Aviation snips, shear, or tin snips
- Tape measure
- Flashing
- Sealant
- Weather resistive barrier/roofing membrane
- Rags/paper towel/glass cleaner

## Included Supplies

- Mounting flange
- Flashing covers
- Skylight Unit: Weep hole covers and tube of silicone
- Awaken Unit: Wall remote. Customer can order one to three options. Each option will come with

one remote. Plus you can add up to 2 additional sets of each option type that you have (ex you could have a maximum of 3 LED, 3 Venting and 3 shade remotes)

- Optional: Installation Flashing Kit (rigid flashing and flexible flashing) and Rain Diverter

## Deck Mounted Installation

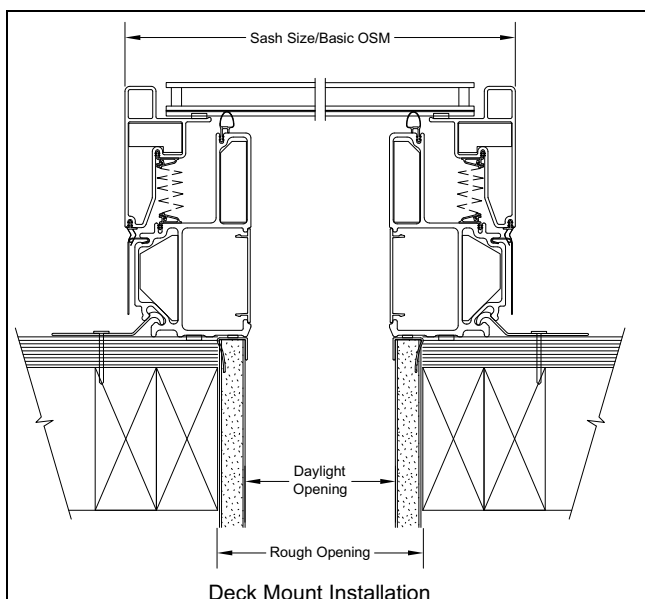


Figure 1 Awaken Deck Mount Installation

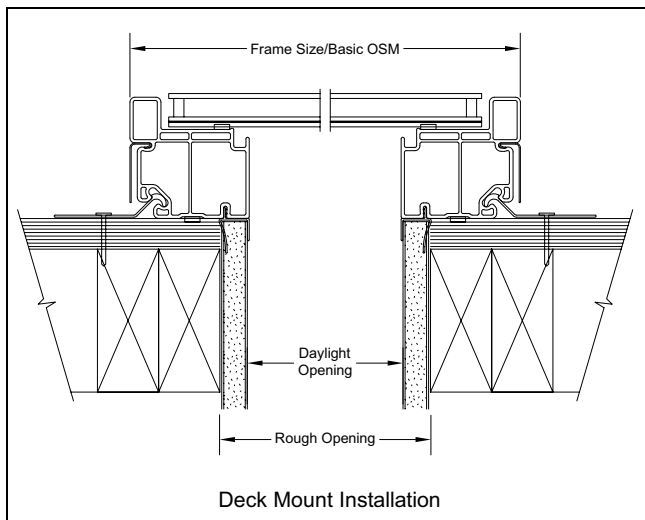


Figure 2 Skylight Deck Mount Installation

## WARNING!

Maximum Angle of Installation: Marvin Skylight maximum angle for deck mount is 60 degrees. Awaken Skylight maximum angle for deck mount is 85 degrees



1. Install frame lumber. See [Figure 3](#).



Figure 3

2. Cut rough opening according to the measurements in the chart below with [Figure 4](#).

		RO Width			
	CN	16	24	32	48
RO Height	36	14.5 x 34.5	22.5 x 34.5	30.5 x 34.5	46.5 x 34.5
	48	14.5 x 46.5	22.5 x 46.5	30.5 x 46.5	46.5 x 46.5
	60	14.5 x 58.5	22.5 x 58.5	30.5 x 58.5	46.5 x 58.5
	90	14.5 x 88.5	22.5 x 88.5	30.5 x 88.5	46.5 x 88.5

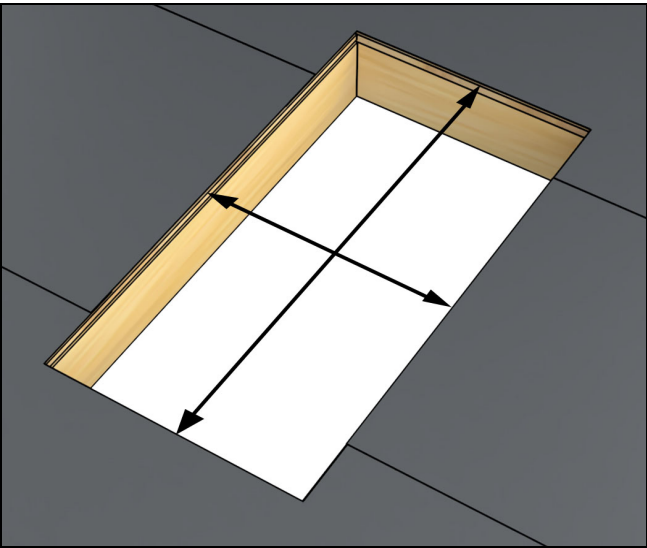


Figure 4

3. Remove 6" of existing roofing and underlayment around the rough opening as shown in [Figure 5](#).

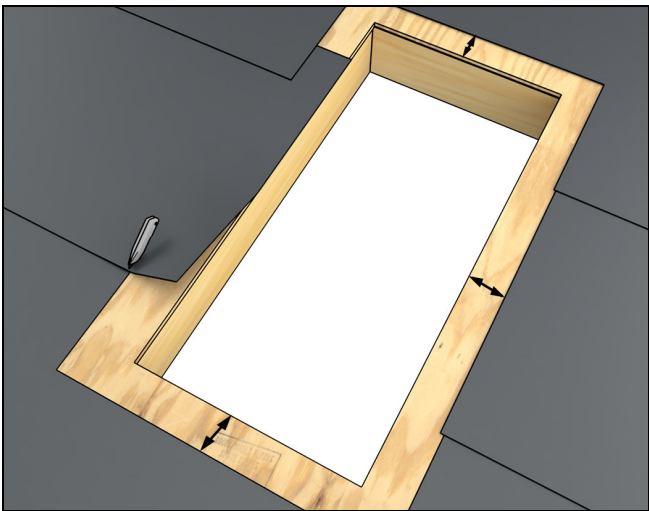


Figure 5

4. Mark skylight corners locations 4" from RO opening. See [Figure 6](#)

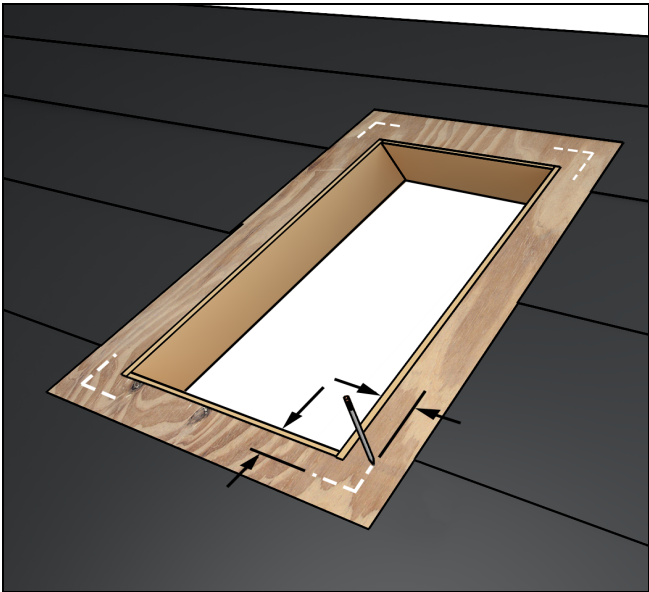


Figure 6

5. If installing an **Awaken** product, create a notch in rough opening for the power wire as needed. The center of the notch is nominally 1-3/8" to the sill RO edge. See [Figure 7](#). Create notch large enough to run Romex cable per applicable electrical specification. Notch can be covered with plates as needed. If the drywall is not installed tight into the lining groove, add on-site insulation and trim for finished appearance and to prevent conditions that may contribute to condensation. Note: Electrician needs to meet or exceed local codes. Unshielded wire should be covered by plate, anything under 1-1/2" no plate is required. Electrical route may need to be notched.

## IMPORTANT

Properly insulate in lightwell to eliminate air/thermal.

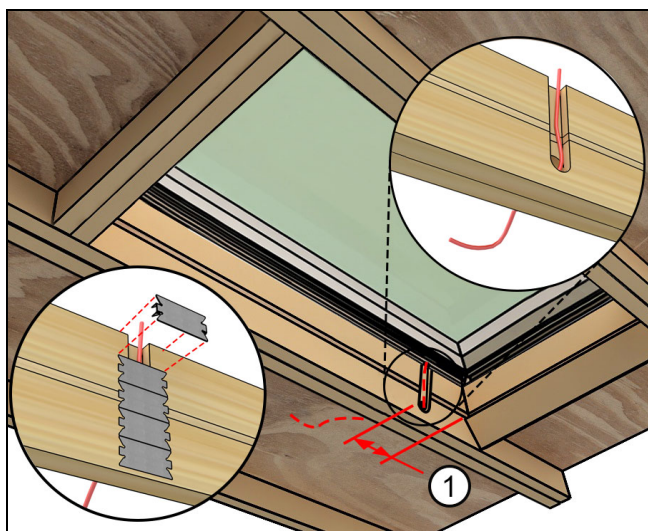


Figure 7

1	1-3/8" to the sill RO edge
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6. On Skylight units only, apply sealant to mounting flange kerf on all four sides of the product prior to installing the mounting flange. See [Figure 8](#).

## ! CAUTION!

Sharp edges on mounting flange and flashing covers.

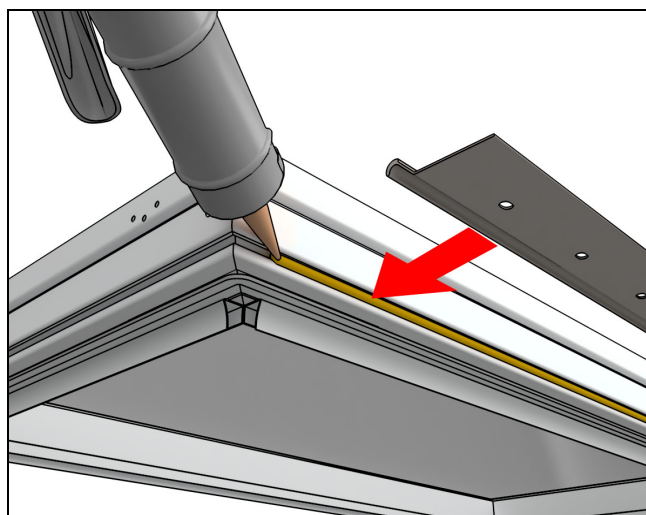


Figure 8

7. Install mounting flanges. Install on ground, may need to use force to insert in kerf. Corners of flange are sharp, use caution when installing. See [Figure 9](#).

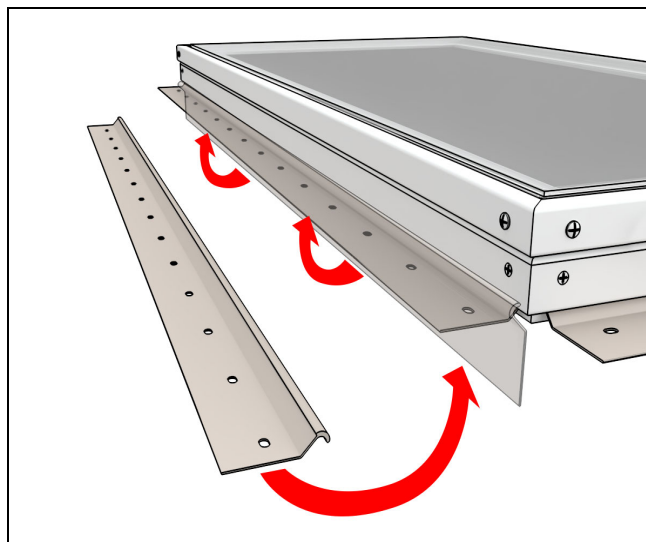


Figure 9

## ! WARNING!

Mounting flanges can rotate in and/or out.

8. Center unit over rough opening as shown in [Figure 10](#). To position unit do not slide unit, lift or use suction cups for positioning. Sliding unit will cause damage to foam sealing gasket.

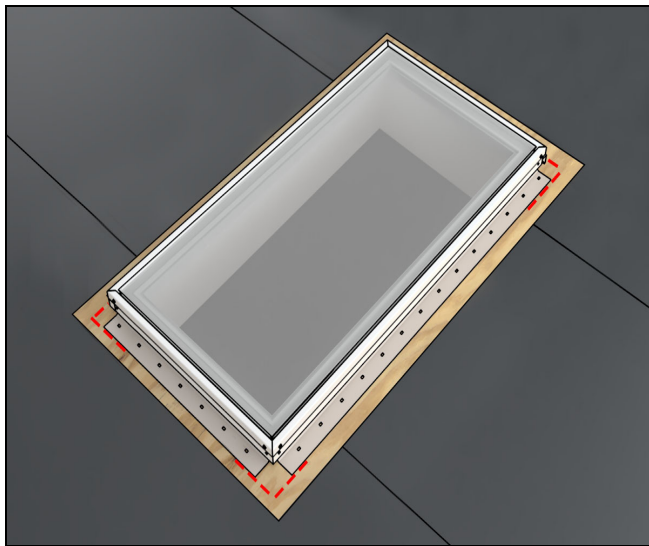


Figure 10

9. Anchor unit with appropriate fasteners, 1-1/2" roofing nails or minimum of #8 x 1-1/2 exterior grade screws, one fastener per pre-drilled hole in mounting flange. See [Figure 11](#).

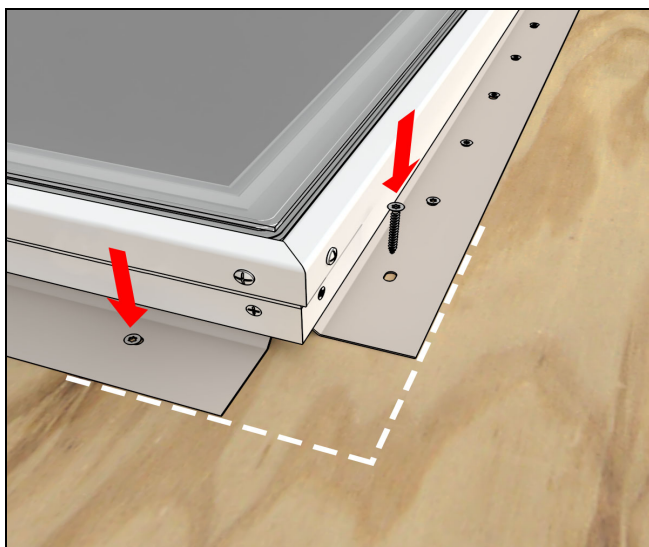


Figure 11

10. To ensure waterproofing, unit frames should be completely wrapped in supplied adhesive flexible flashing. This adhesive flexible flashing must be applied before installing the rigid flashing. Wrap sill with adhesive flexible flashing and create water-shedding laps over roofing underlayment. Flexible flashing must extend at least 6" from the edge of the frame. Note: Flexible flashing cannot interfere with kerf. See [Figure 12](#).



## WARNING!

Do not stretch flexible flashing - will release from surface if stretched.

Take precautions - rigid flashing can puncture.

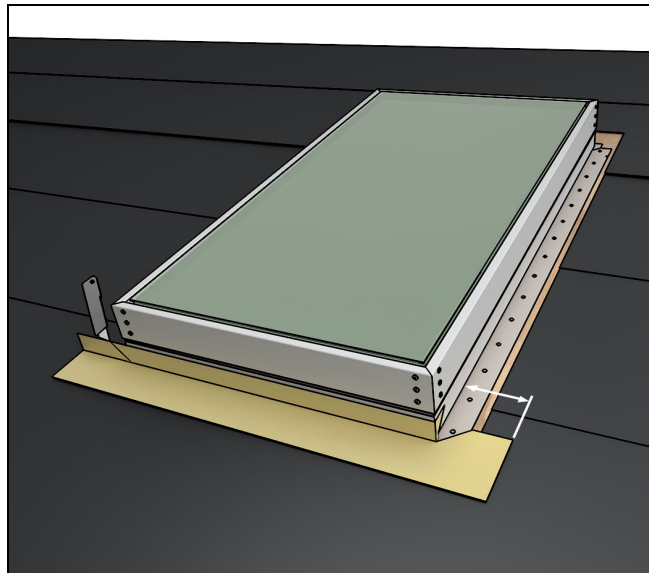


Figure 12

11. Wrap the jambs with adhesive flexible flashing and create water-shedding laps over roofing underlayment. See [Figure 13](#).

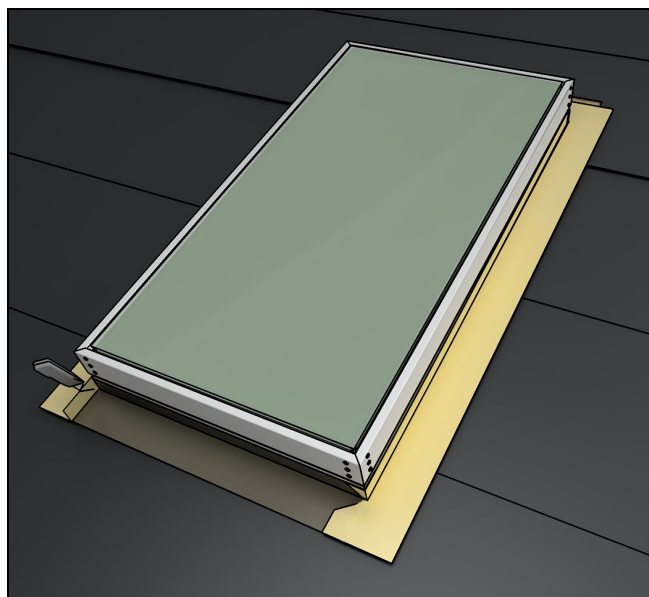


Figure 13



12. Wrap the top frame of the unit with adhesive flexible flashing. See [Figure 14](#).

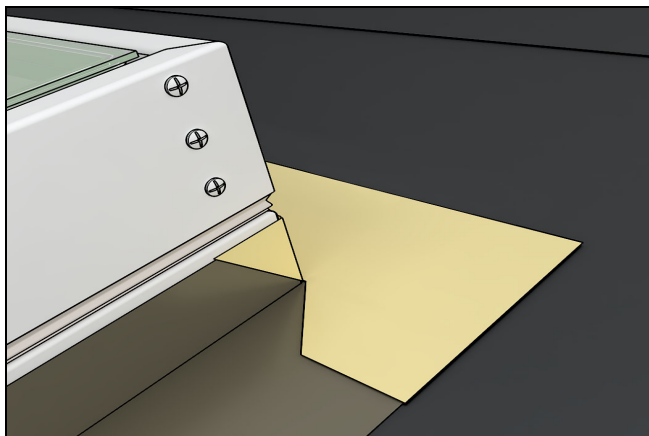


Figure 14

13.

Cut out 3" diamond/square from adhesive flexible flashing. Apply diamond shaped corner patches to all corners. Stretch patches over each corner. See [Figure 15](#).

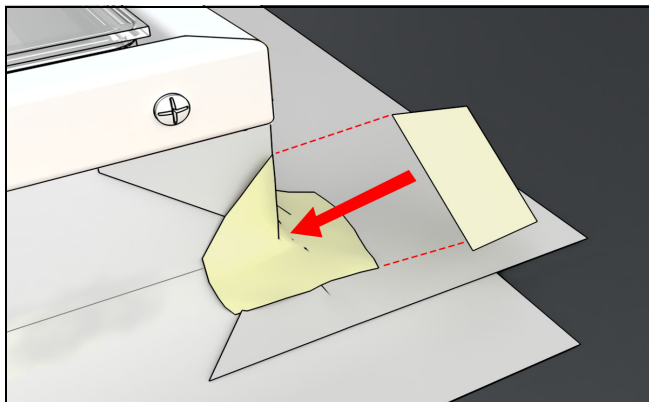


Figure 15

14. Place sill saddle centered on frame and bend over tabs. See [Figure 16](#).

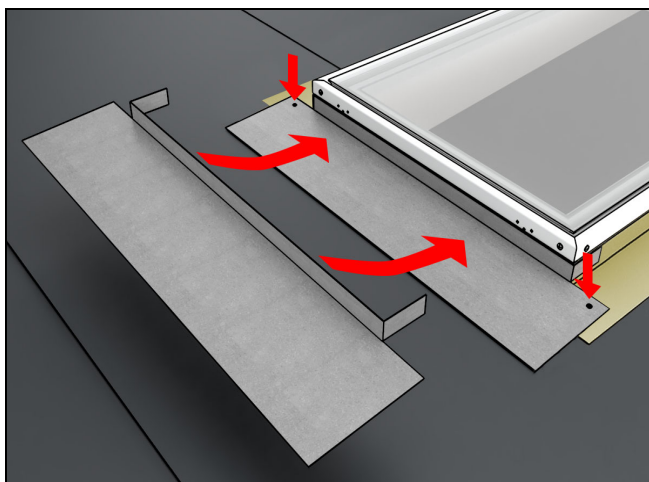


Figure 16

15. First step flashing placed a minimum of 4" beyond the sill of unit. Note: remove material of vertical leg that extends beyond sill saddle. See [Figure 17](#).

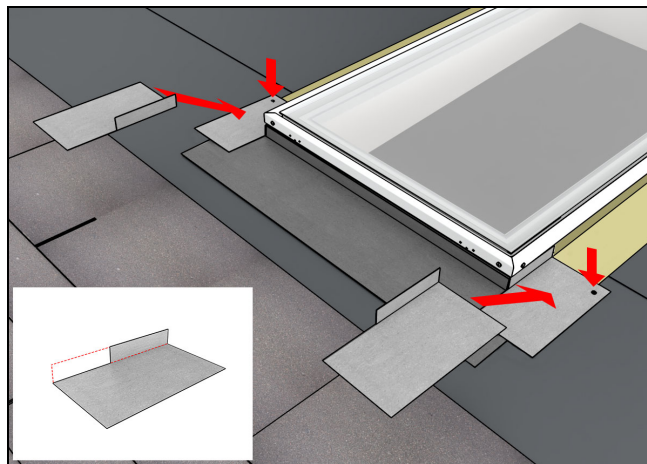


Figure 17

16. Place the second step flashing as shown in [Figure 18](#). Align with bottom of shingle. Repeat steps until near the head jamb. See [Figure 19](#).

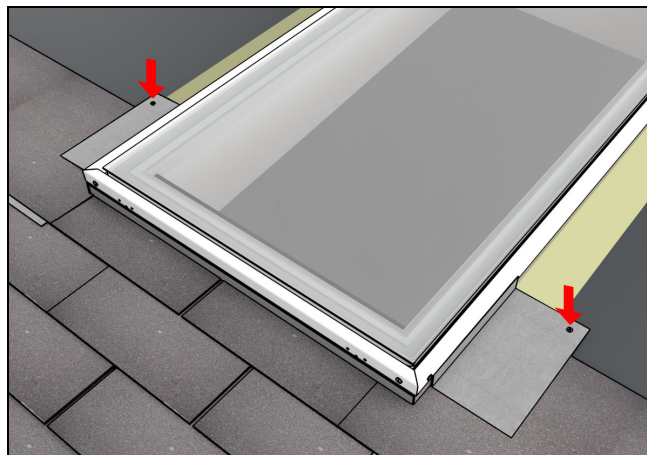


Figure 18

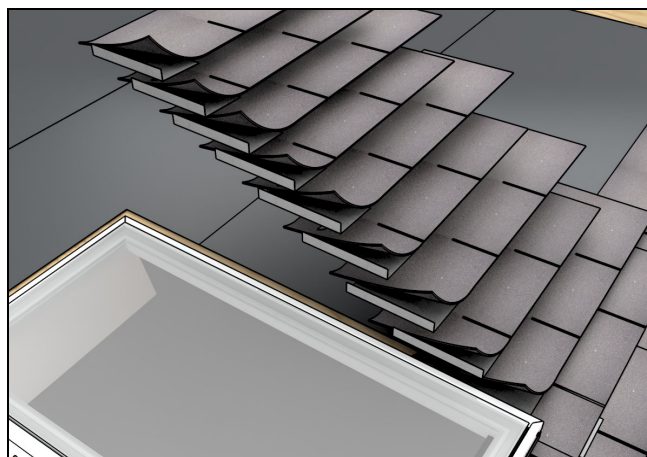


Figure 19

17. Last course is extended beyond the head jamb 2"-4". Note: vertical leg removed flush to head jamb. See [Figure 20](#).

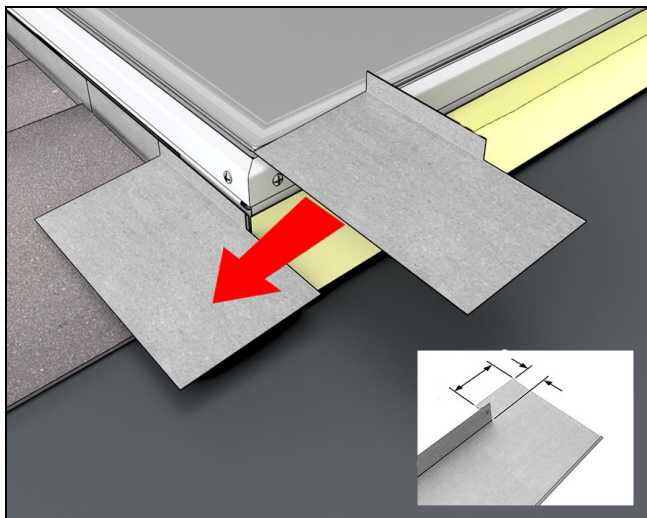


Figure 20

18. Head jamb saddle installed with tabs bent around jamb step flashing. See [Figure 21](#).

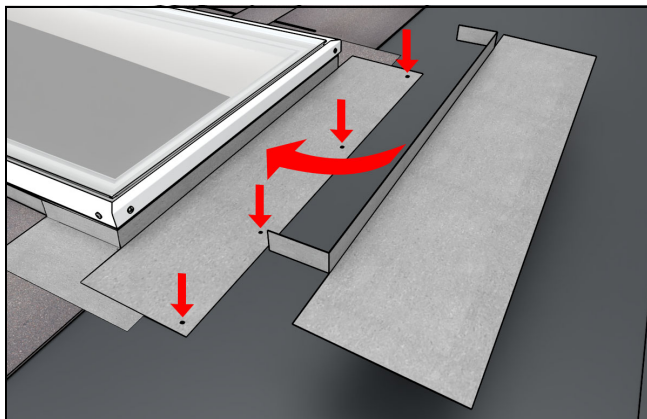


Figure 21

19. **On Skylight units only:** Peel off the backing from the adhesive located on the weep diverter component ([Figure 22](#)). Insert the legs of the weep diverter into the pre-drilled holes on the sill of the Skylight unit ([Figure 23](#)). Press the weep diverter component firmly against the Skylight sill to activate the adhesive.

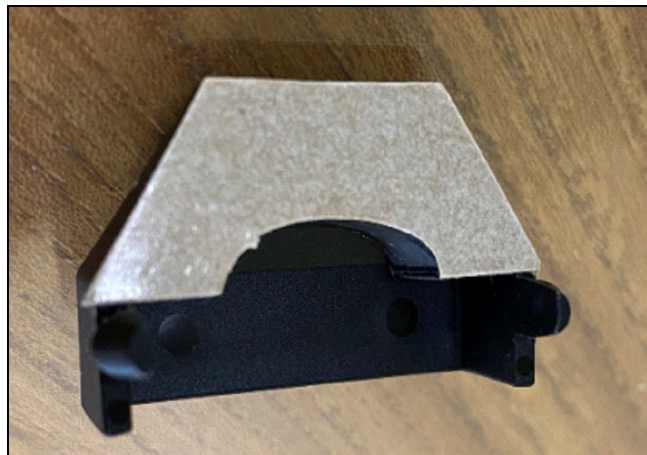


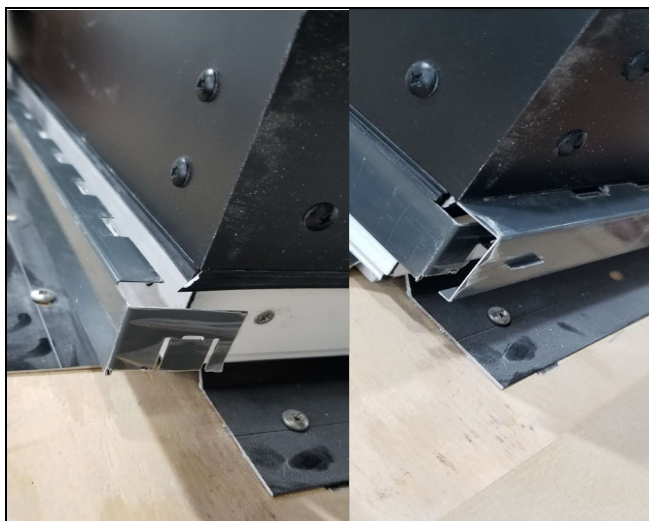
Figure 22



Figure 23



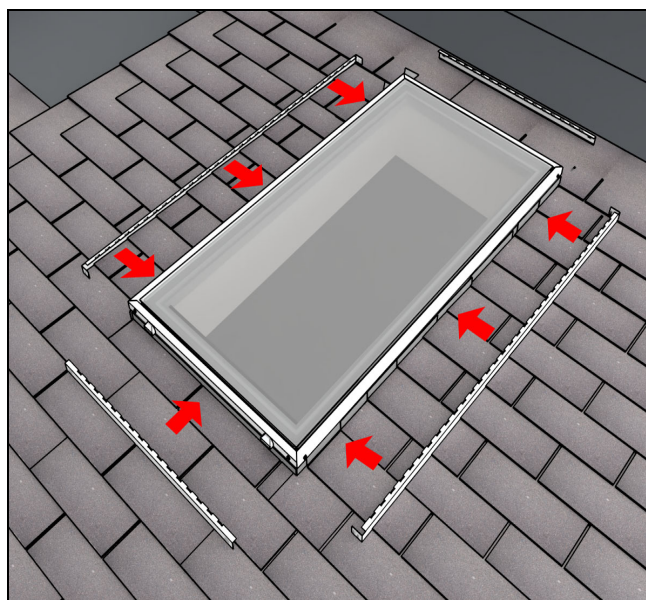
**20.** Install the jamb flashing covers by inserting the notched leg into the frame kerf ([Figure 24](#)). Using a flat edge, bend the tab(s) on the header and sill of the jamb cover to a horizontal position. Install the head jamb and sill cover by aligning the slot on the covers with the folded tabs on the jamb covers and inserting the notched leg into the frame kerf ([Figure 25](#) and [Figure 26](#)). Bend the tabs down to secure the flashing covers. Rigid flashing and flexible flashing are not shown, please refer to steps above.



**Figure 24**



**Figure 25**



**Figure 26**

# Curb Mounted Installation

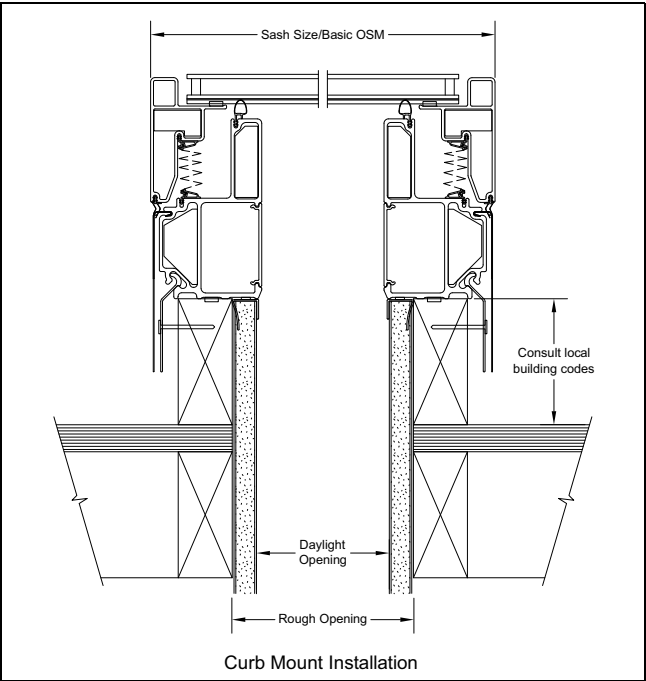


Figure 27 Awaken Curb Mounted Installation

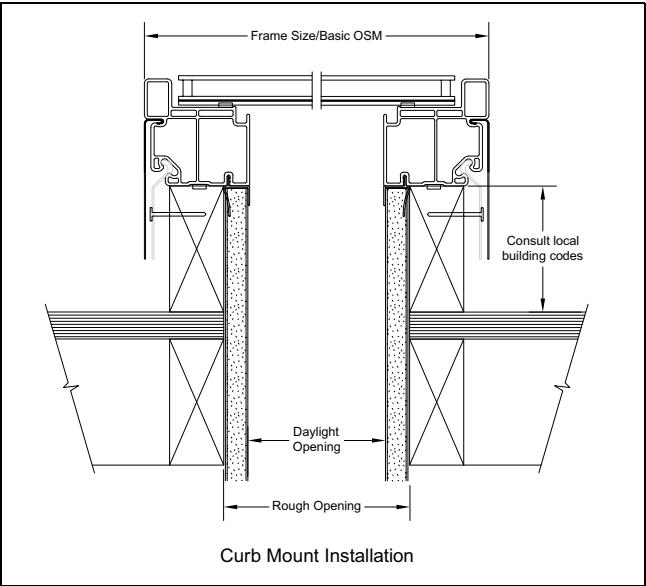


Figure 28 Skylight Curb Mounted Installation



## WARNING!

Maximum Angle of Installation: Marvin Skylight and Awaken Skylight maximum angle for curb mount is 60 degrees

1. Install frame lumber.

2. Cut rough opening according to the measurements in the chart. Build curb according to measurements in the chart. Use lumber with an actual thickness of 1½" (38) and a minimum height of 3½" (90). Curb height and attachment should comply with building codes and local regulations and be secure enough to transfer the skylight loads to the framing members. See Figure 29.

		RO Width			
	CN	16	24	32	48
RO Height	36	14.5 x 34.5	22.5 x 34.5	30.5 x 34.5	46.5 x 34.5
	48	14.5 x 46.5	22.5 x 46.5	30.5 x 46.5	46.5 x 46.5
	60	14.5 x 58.5	22.5 x 58.5	30.5 x 58.5	46.5 x 58.5
	90	14.5 x 88.5	22.5 x 88.5	30.5 x 88.5	46.5 x 88.5

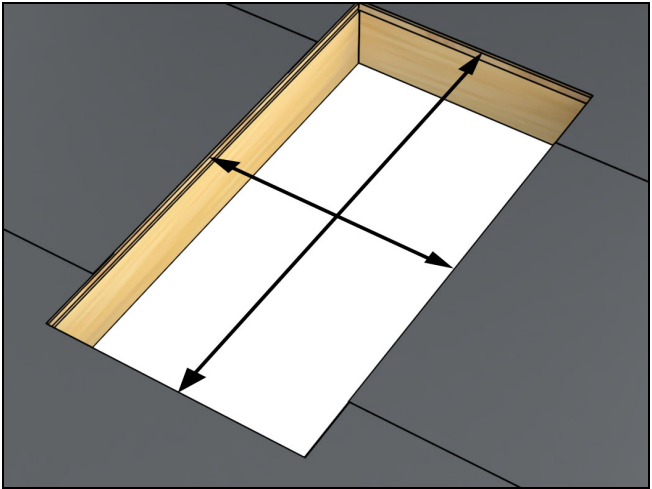


Figure 29

3. Remove 6" of existing roofing and underlayment around the rough opening as shown in [Figure 30](#). Attach curb to roof deck, see [Figure 31](#).

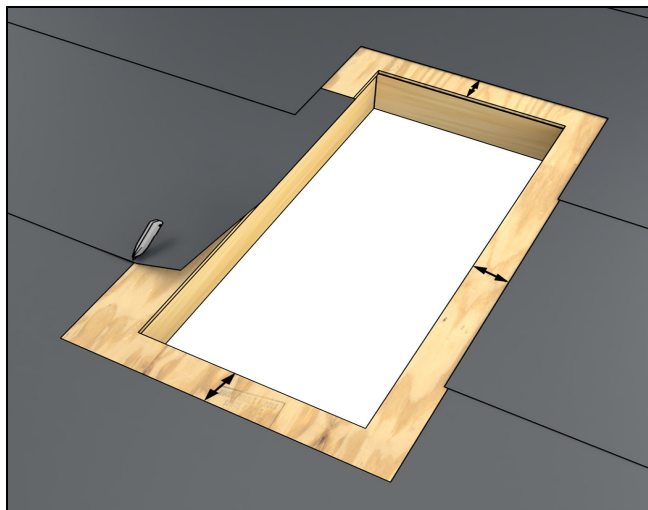


Figure 30

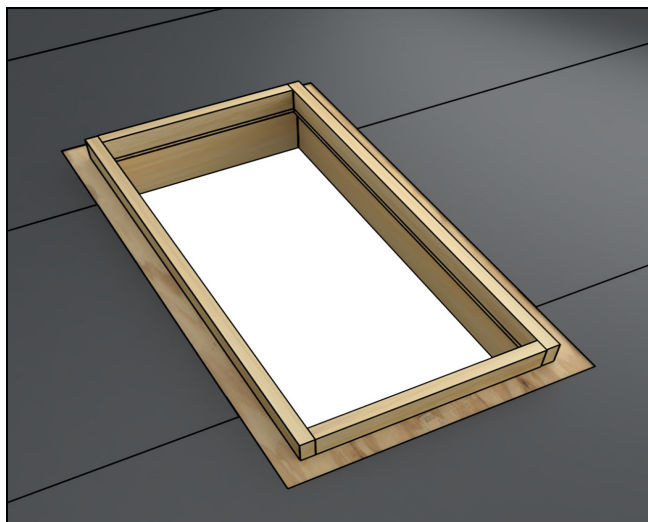


Figure 31

4. If installing an Awaken product, create a notch in rough opening for the power wire as needed. The center of the notch is nominally 1-3/8" to the sill RO edge. See [Figure 32](#). Create notch large enough to run Romex cable per applicable electrical specification. Notch can be covered with plates as needed. If the drywall is not installed tight into the lining groove, add on-site insulation and trim for finished appearance and to prevent conditions that may contribute to condensation. Note: Electrician needs to meet or exceed local codes. Unshielded wire should be covered by plate, anything under 1-1/2" no plate is required. Electrical route may need to be notched.

## IMPORTANT

Properly insulate in light well to eliminate air/thermal.

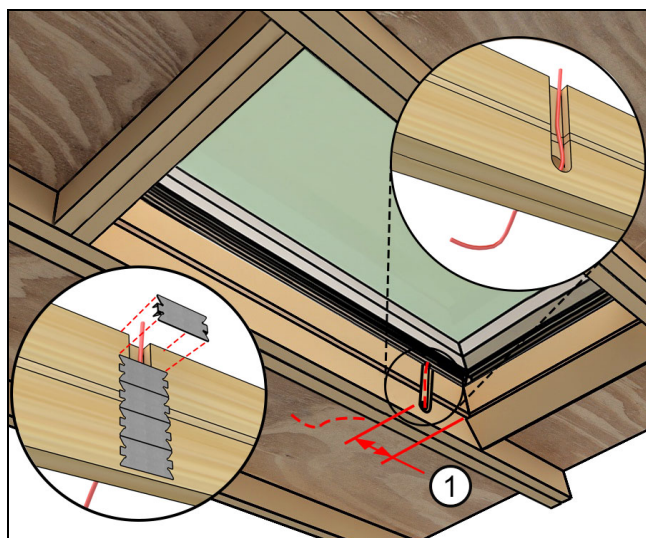


Figure 32

1	1-3/8" to the sill RO edge
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5. To ensure waterproofing, curbs shall be completely wrapped in adhesive flexible flashing as indicated. Underlayment must be applied before installing the rigid flashing. Wrap the bottom and the corners of the curb with the adhesive flexible flashing and create water-shedding laps over roofing underlayment. See [Figure 33](#).

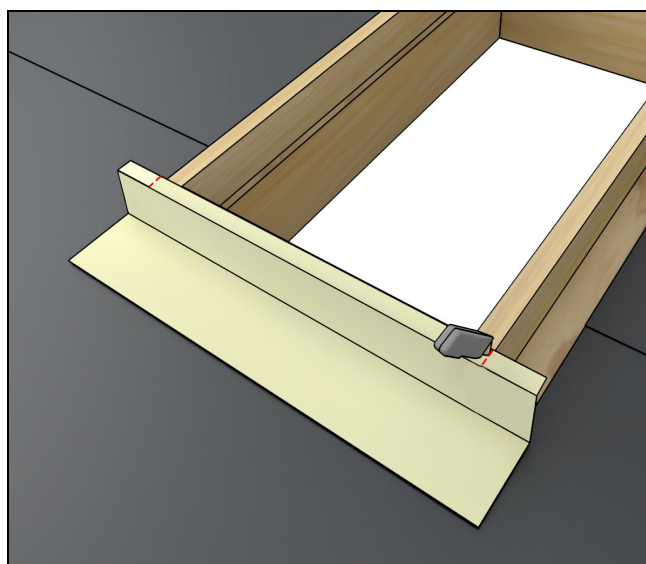


Figure 33



**NOTE:** Skylight curbs with heights over 3½" (90) may require additional underlayment material for proper installation. Peel off backing from adhesive skylight underlayment prior to applying it to roof decking and skylight curb. Ensure that surfaces are clean, dry and free of debris.



## WARNING!

Do not stretch flexible flashing - will release from surface if stretched.

Take precautions - rigid flashing can puncture.

**6.** Wrap the jambs and the corners of the curb with the adhesive flexible flashing and create proper water-shedding lap. Repeat by applying the adhesive flexible flashing to the head jamb and the corners of the curb and create proper water-shedding lap. See [Figure 34](#).

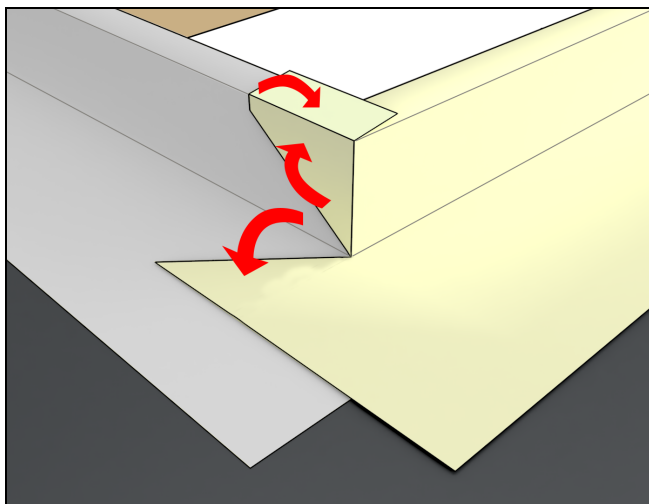


Figure 34

**7.** Place the sill saddle centered on the frame and bend over tabs. See [Figure 35](#).

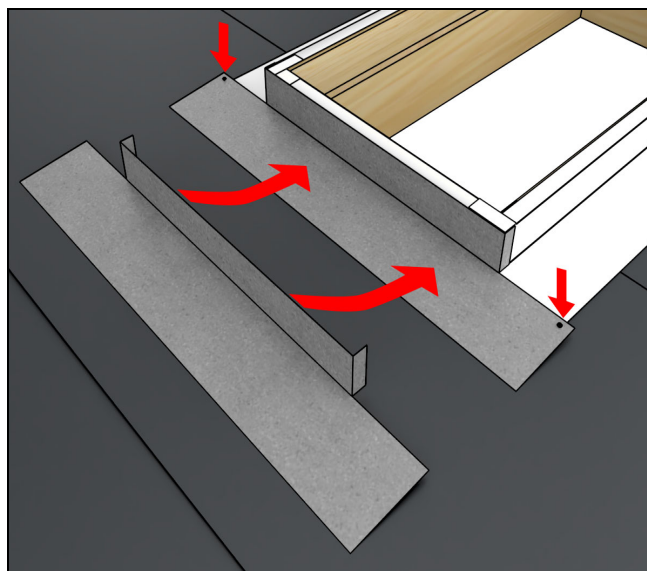


Figure 35

**8.** First step flashing placed a minimum of 4" beyond the sill of unit. Note: remove material of vertical leg that extends beyond sill saddle. See [Figure 36](#).

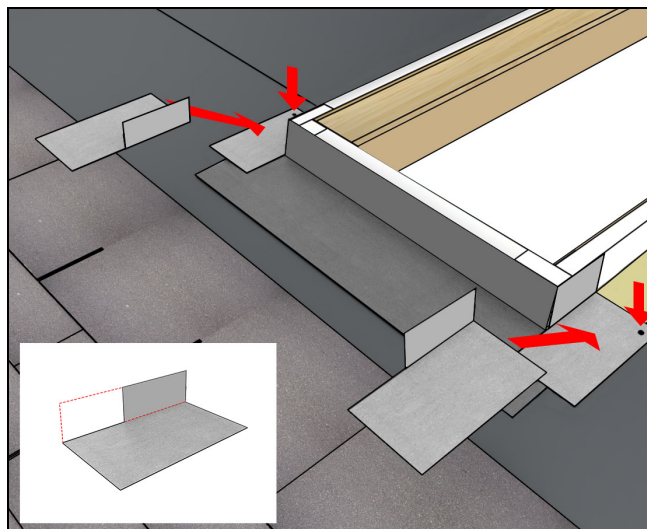


Figure 36

9. Place the second step flashing as shown in [Figure 37](#). Align with bottom of shingle. Repeat steps until near the head jamb. See [Figure 38](#).

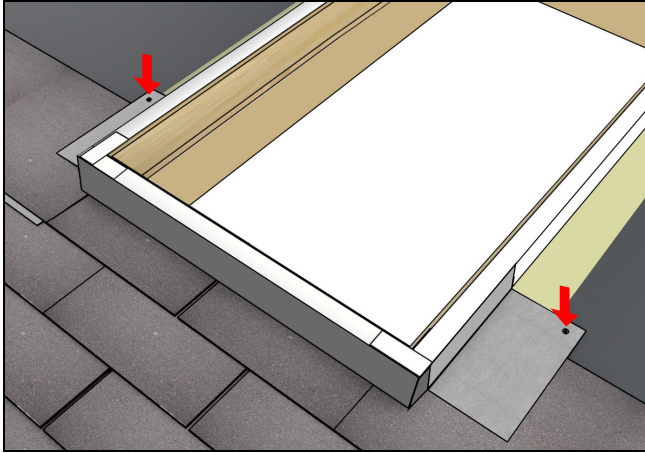


Figure 37

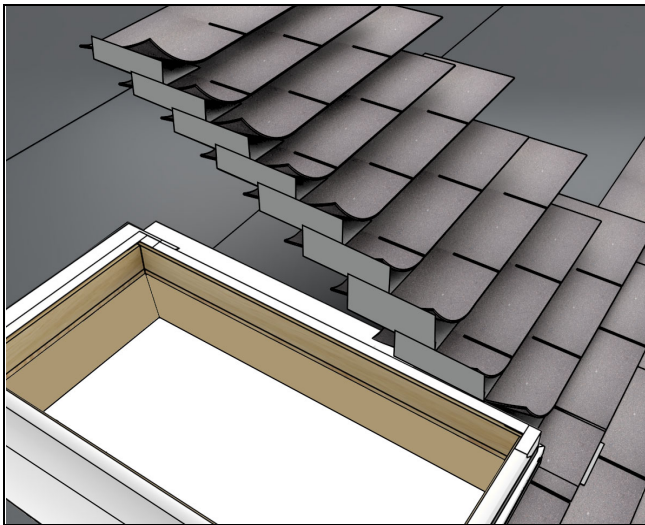


Figure 38

10. The last course is extended beyond the head jamb of 2"-4". Note: Vertical leg should be removed flush to head jamb. See [Figure 39](#).

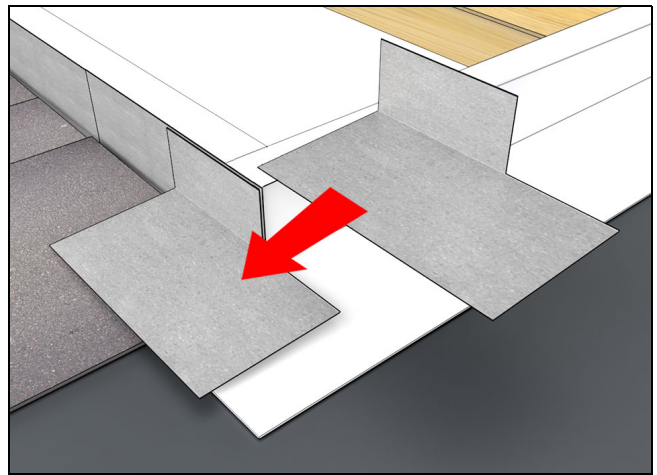


Figure 39

11. Head jamb saddle centered installed with tabs bent around jamb step flashing. See [Figure 40](#).

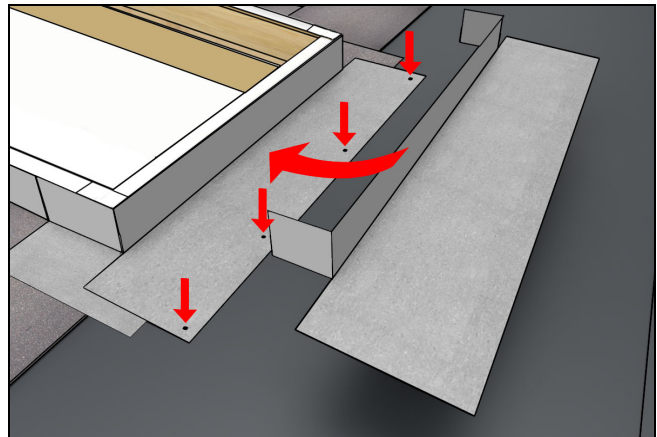


Figure 40

**⚠ CAUTION!**

Sharp edges on mounting flange and flashing covers.

**12. On Skylight units only**, apply sealant to mounting flange kerf on all four sides of the product prior to installing the mounting flange. See [Figure 41](#).

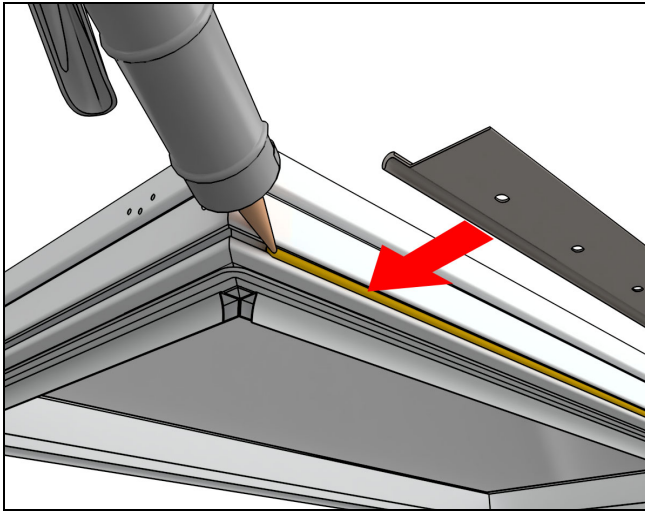


Figure 41

**13.** Install mounting flanges. Install on ground, may need to use force to insert in kerf. Corners of flange are sharp, use caution when installing. See [Figure 42](#).

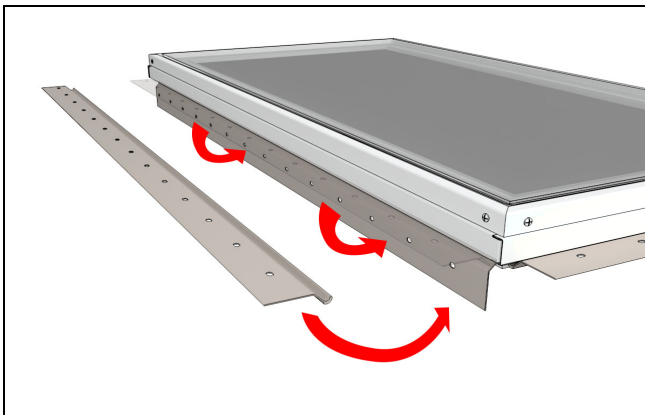


Figure 42



## WARNING!

Mounting flanges can rotate in and/or out.

**NOTE:** One fastener per pre-drilled hole in mounting flange.

**14.** Center the unit on top of the curb and secure with appropriate fasteners, 1-1/2" roofing nails or a minimum #8 x 1-1/2" pan head stainless steel screws (exterior grade 1-1/2" screws). Note: Apply downward pressure to the top of the skylight frame while securing the screws. Do not over tighten the screws. See [Figure 43](#).

**NOTE:** To position unit do not slide unit, lift or use suction cups for positioning. Sliding unit will cause damage to foam sealing gasket.

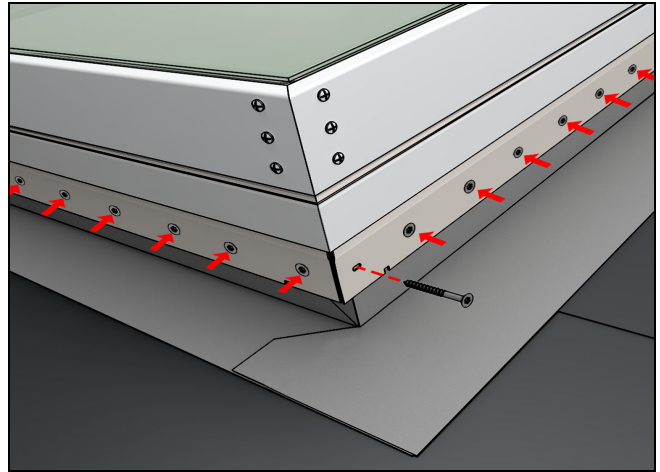


Figure 43

**15.** Apply flexible adhesive flashing tape to each corner by mounting flange, stay below the weather accessory kerf. See [Figure 44](#). Flexible flashing should extend from corner at least 4" in each direction.

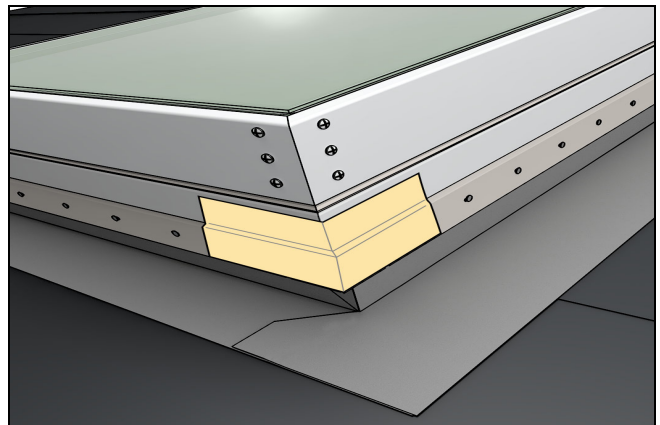


Figure 44



**16. On Skylight units only:** Peel off the backing from the adhesive located on the weep diverter component (Figure 45). Insert the legs of the weep diverter into the pre-drilled holes on the sill of the Skylight unit (Figure 46). Press the weep diverter component firmly against the Skylight sill to activate the adhesive.



Figure 45

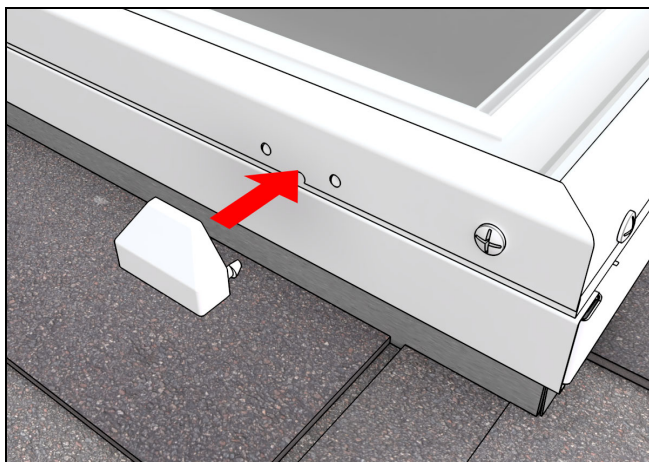


Figure 46

**17.** Install the jamb flashing covers by inserting the notched leg into the frame kerf (Figure 47). Using a flat edge, bend the tab(s) on the header and sill of the jamb cover to a horizontal position. Install the header and sill jamb cover by aligning the slot on the covers with the folded tabs on the jamb covers and inserting the notched leg into the frame kerf (Figure 48 and Figure 49). Bend the tabs down to secure the flashing covers. Rigid flashing and flexible flashing are not shown, please refer to steps above.



Figure 47 Deck Mount shown



Figure 48 Deck Mount shown

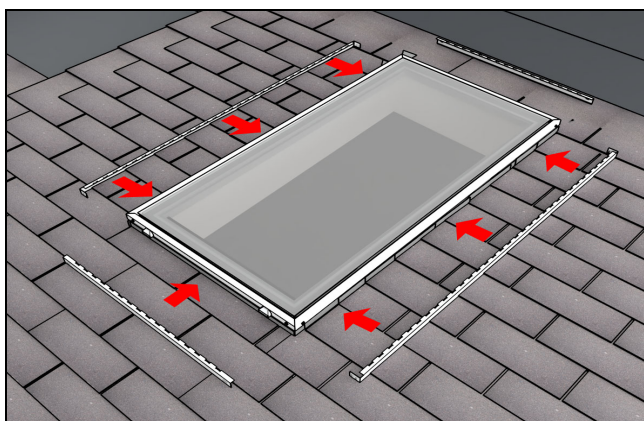


Figure 49 Deck Mount shown

## Metal Roof Rigid Flashing Installation (Deck Mount Only)



### WARNING!

Maximum Angle of Installation: Marvin Skylight maximum angle for deck mount is 60 degrees. Awaken Skylight maximum angle for deck mount is 85 degrees.

1. Metal roofing seams and high points that will interact with the apron should be cut and pressed to create a smooth transition from the deck to peaks.
2. Center the sill apron assembly on the sill of the skylight, bend tabs in, seat firmly to unit and deck. See [Figure 50](#). Remove adhesive backing and press firmly at seams to allow for proper drainage and fasten with roofing nails. See [Figure 51](#).

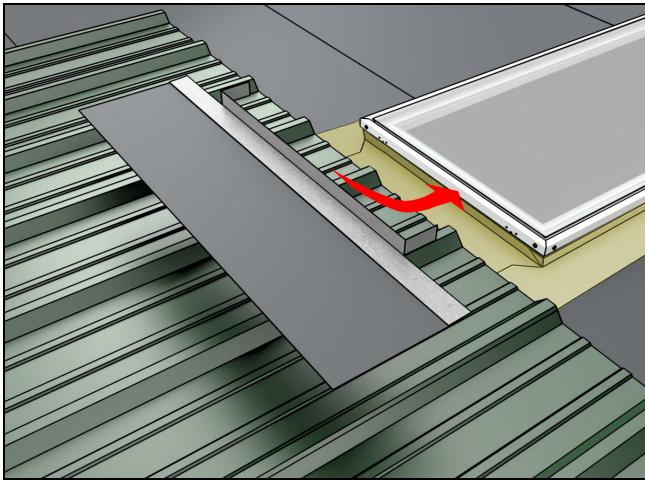


Figure 50

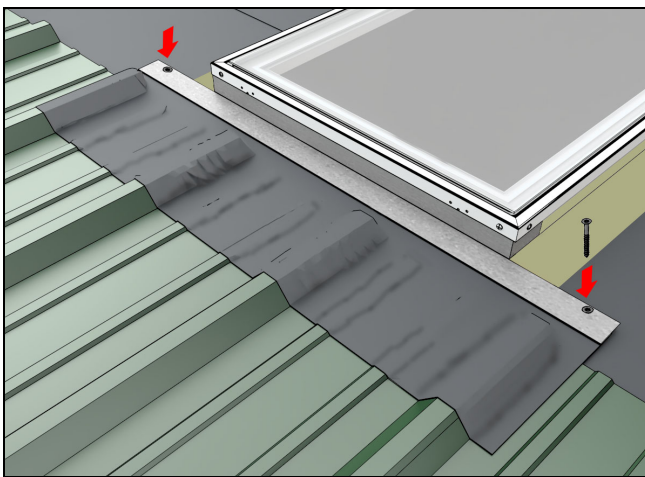


Figure 51

Remove material from vertical leg flush to sill apron assembly. Place jamb flashing tight to skylight jamb, align bottom of flashing to start of flexible apron material, mark back side of jamb flashing (2"). Attach with roofing nails. Repeat on opposite side. See [Figure 52](#).

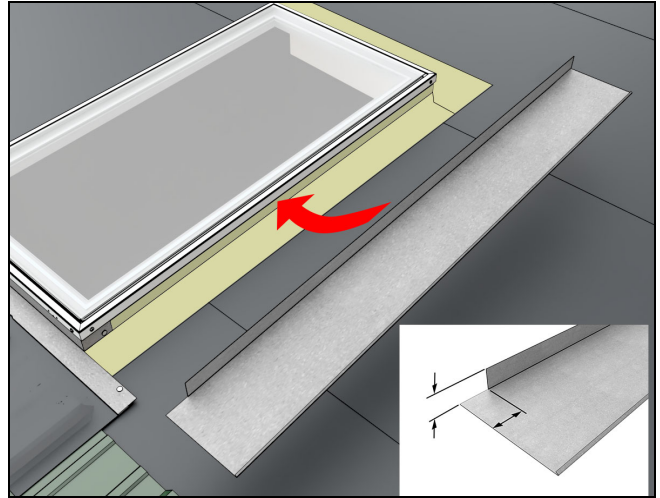


Figure 52

Cut both jamb flashings at the top, flush with the top/head of unit, bend tab down. Note: Ensure the rigid flashing components do not interfere with flashing cover kerf. Attach tabs with a roofing nail if needed. See [Figure 53](#).

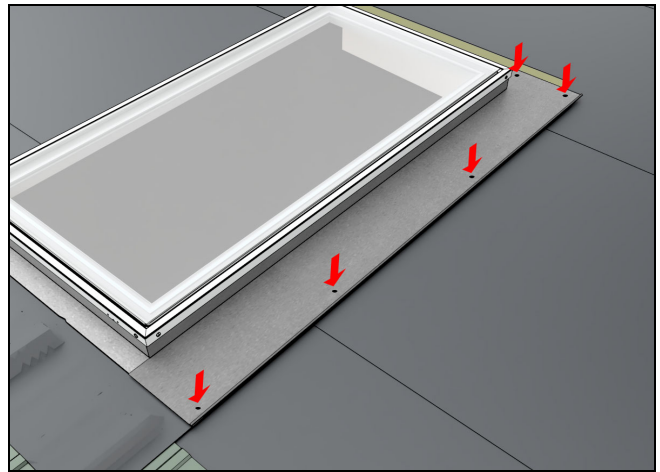


Figure 53

3. Center head jamb saddle and bend tabs over, press firmly to deck and unit. See [Figure 54](#). Attach using roofing nail. Note: No fasteners within 4" of unit. See [Figure 55](#).

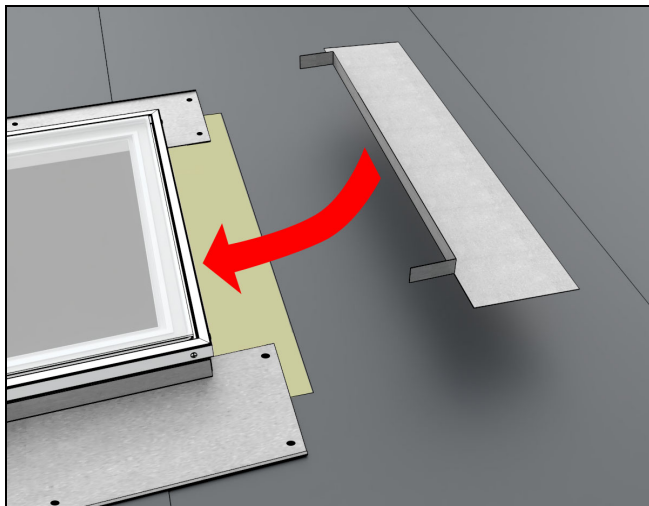


Figure 54

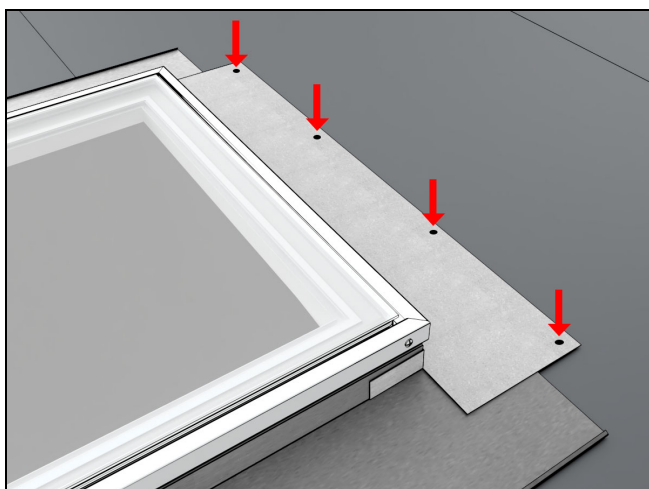


Figure 55

4. Place J-channel with the bottom flush with jamb flashing. J-channel can be positioned tight against side of jamb flashing or moved away from unit to accommodate seam cut back. Top of J-channel is cut to length as needed not to interfere with top metal roof cut out. J-channel will be further secured with roofing screws. See [Figure 56](#).

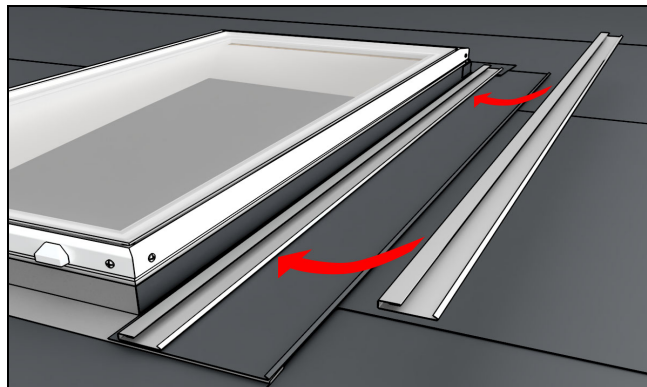


Figure 56



# Awaken Electrical Component Installation

## **WARNING!**

Electrical installation shall be done in accordance with the latest addition of the National Electrical Code (NFPA 70) and all local codes and ordinances.

### ***Prep Unit***

1. Prepare the framing for electrical wiring. See [Figure 57](#).

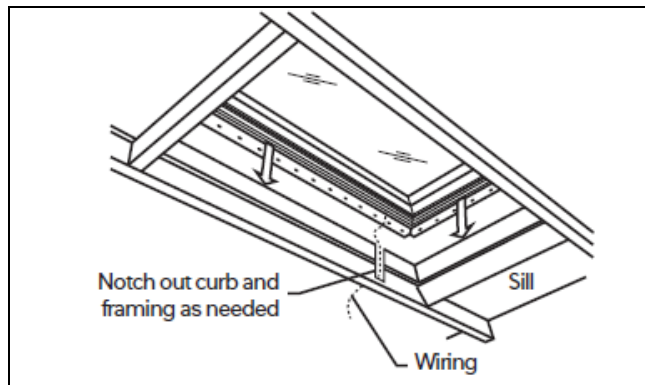


Figure 57

### ***Using the Cable from the Awaken Junction***

1. Ensure the breaker is switched off. See [Figure 58](#).
3. Make the electrical connection. See [Figure 60](#).

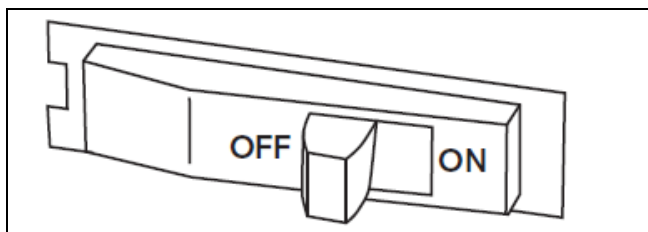


Figure 58

2. If needed, run the cable to a junction. See [Figure 59](#).

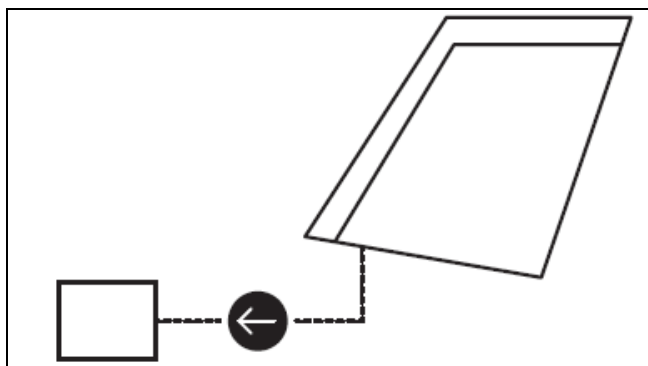


Figure 59

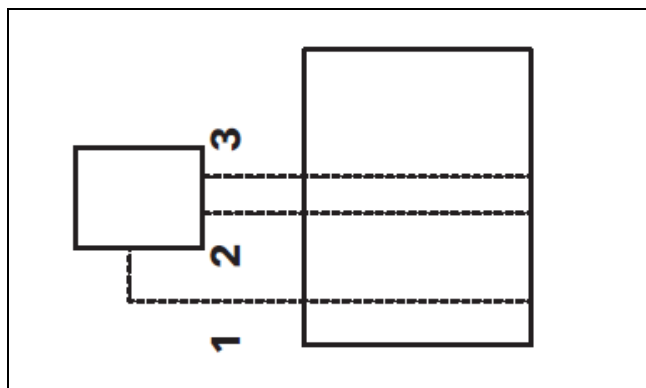


Figure 60

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## Running a Cable to Awaken

1. Ensure the breaker is switched off. See [Figure 61](#).

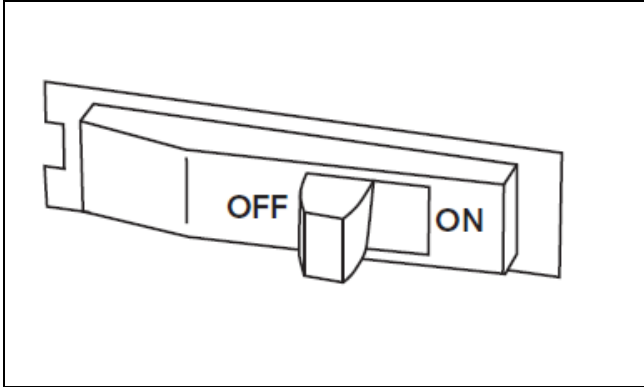


Figure 61

2. Remove the factory installed cable. See [Figure 62](#).

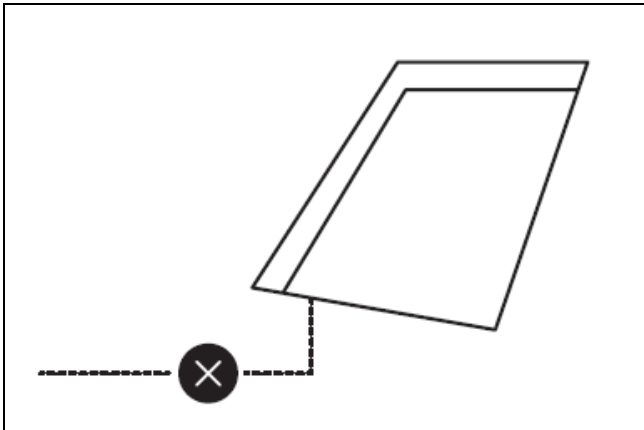


Figure 62

3. Run your cable to Awaken built-in junction box. See [Figure 63](#).

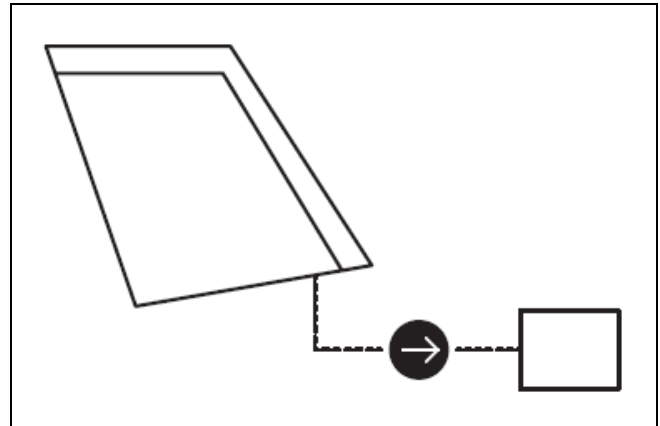


Figure 63



## Testing Functionality

1. Restore power with the breaker. See [Figure 64](#).

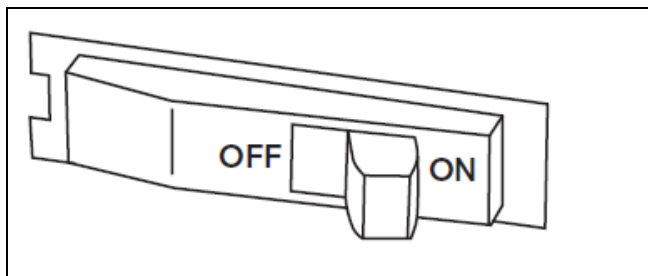


Figure 64

2. Use the pre-associated Awaken remotes to validate skylight functionality. Alternatively download and install the Marvin Home App to test full functionality. See [Figure 65](#).

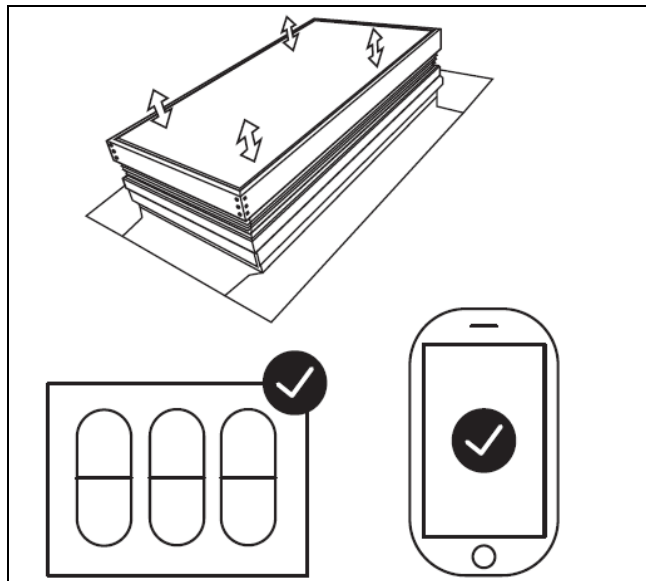


Figure 65

## App Installation

Download and install the Marvin Home App. Install following app instructions. See [Figure 66](#).

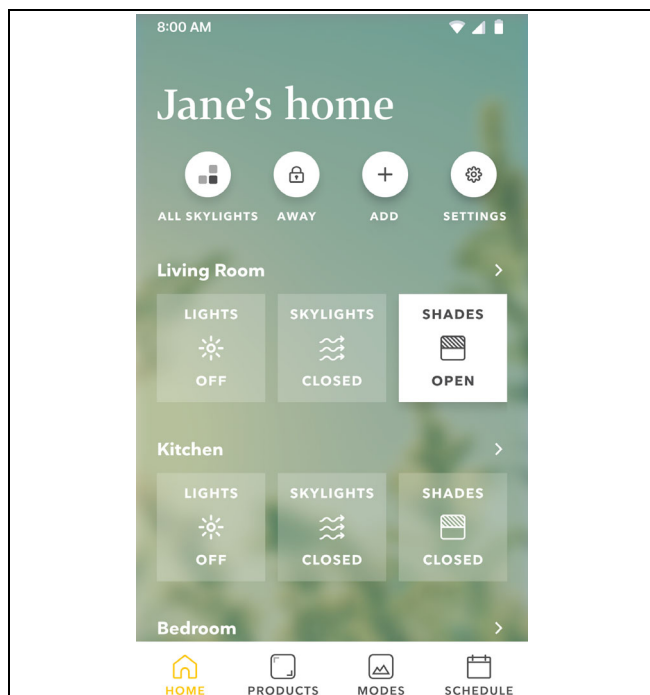


Figure 66

# Technical Specifications

- The following details are specified for proper installation of the unit to meet the advertised performance grade (PG) rating.
- Flashing materials must comply with ASTM E2112.
- Properly flash and seal unit.
- Sealants used for installation must be Grade NS Class 25 per ASTM C920 and compatible with the building exterior, exterior surface, and flashing/ water management materials.
- Optional foams used for installation must be low expansion only. Foam and foam application must comply with ASTM E2112.
- The frame must not come into direct contact with chemically treated wood products.