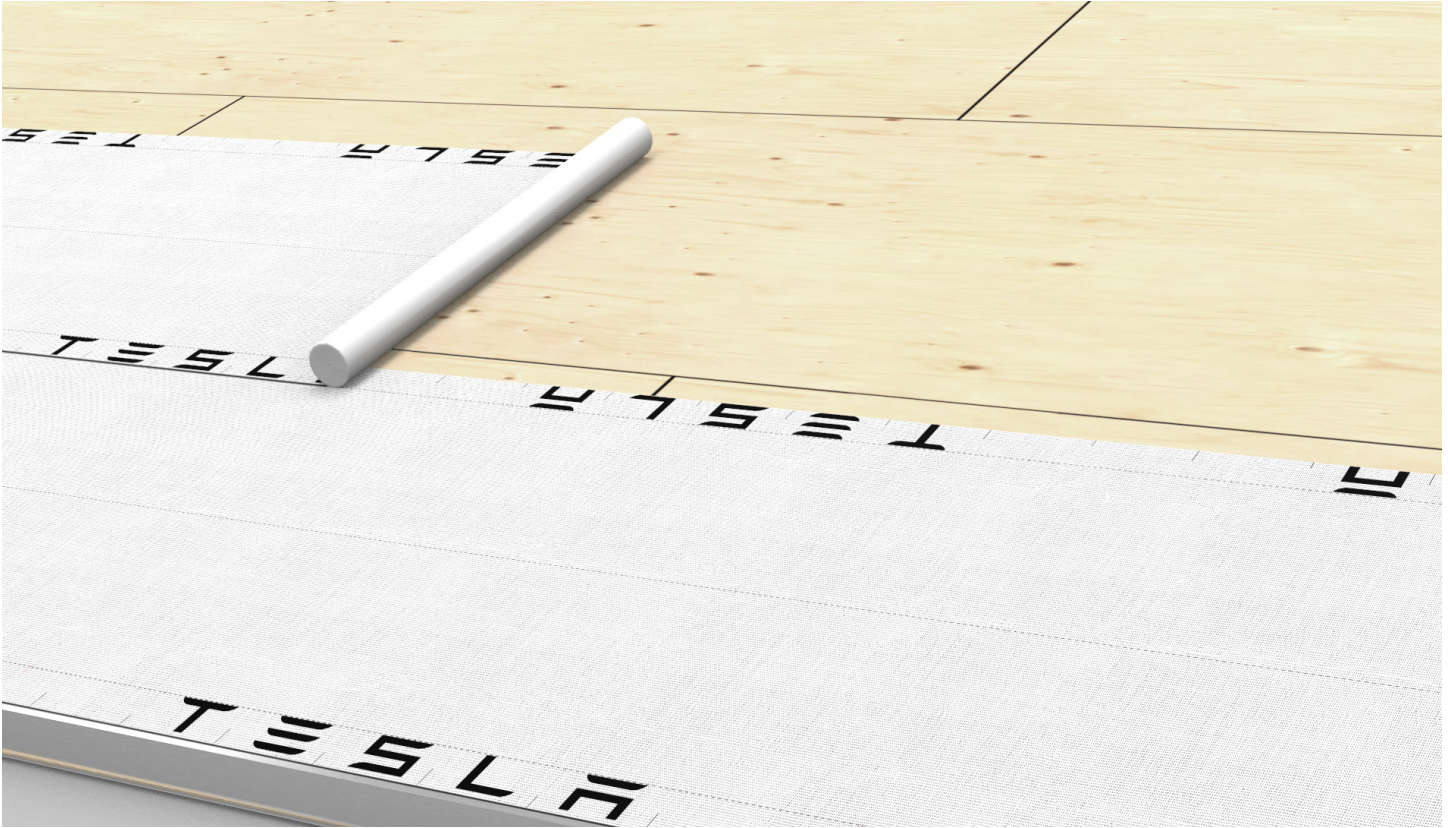


SOLAR ROOF V3 | SINGLE COVERAGE UNDERLAYMENT



SR-SAUL-1

PN:16113738-00-A

SR-SAUL-1 is a self-adhering peel and stick roofing underlayment designed for sloped roof applications to help protect against water infiltration from ice dams and wind-driven rain. It is installed with Solar Roof V3 as a single layer application.

CODE CERTIFICATIONS

ASTM D1970/ICC AC48

ICC AC188

ASTM E108 Class -A

DIMENSIONS

Full-Width roll: 38" with 3" Selvage Edge (Overlap Edge)

Detail roll: 12-11/16"

DECK PREPARATION

SR-SAUL-1 should be installed over a clean, smooth, and dry deck. The deck should also not have any voids, protrusions, damaged or unsupported areas. For re-roofing projects, replace any water damaged sheathing and sweep roof deck thoroughly removing dust, dirt and loose nails. Do not install over old roof coverings.

APPLICATION

Tesla SR-SAUL-1 may be applied directly to plywood, OSB, fully cured concrete or masonry roof surfaces. Priming is not required for attaching SR-SAUL-1 to dry wood, OSB or metal surfaces when the temperature is above -4°F (-20°C). Concrete and masonry decks should be primed with a solvent or a water based primer that meets ASTM D41 for self-adhesive membranes. Always work from the low point to the high point of the roof.

COLD WEATHER APPLICATION

Temperatures -4°F (-20°C) or below, a primer should be used and the upper most overlap edge blind nailed using 3/8" head roofing nails 1" or longer. Space nails at 12" intervals along upper side lap area 1" in from the edge using the guide marks. For best results, warm SR-SAUL-1 to room temperature prior to application.

STEEP SLOPE APPLICATION

Steep slopes (5:12 or greater), high wind areas, or when installing at temperatures greater than 100°F (38°C), it is recommended to blind nail the selvage edge area as per above under cold weather application.

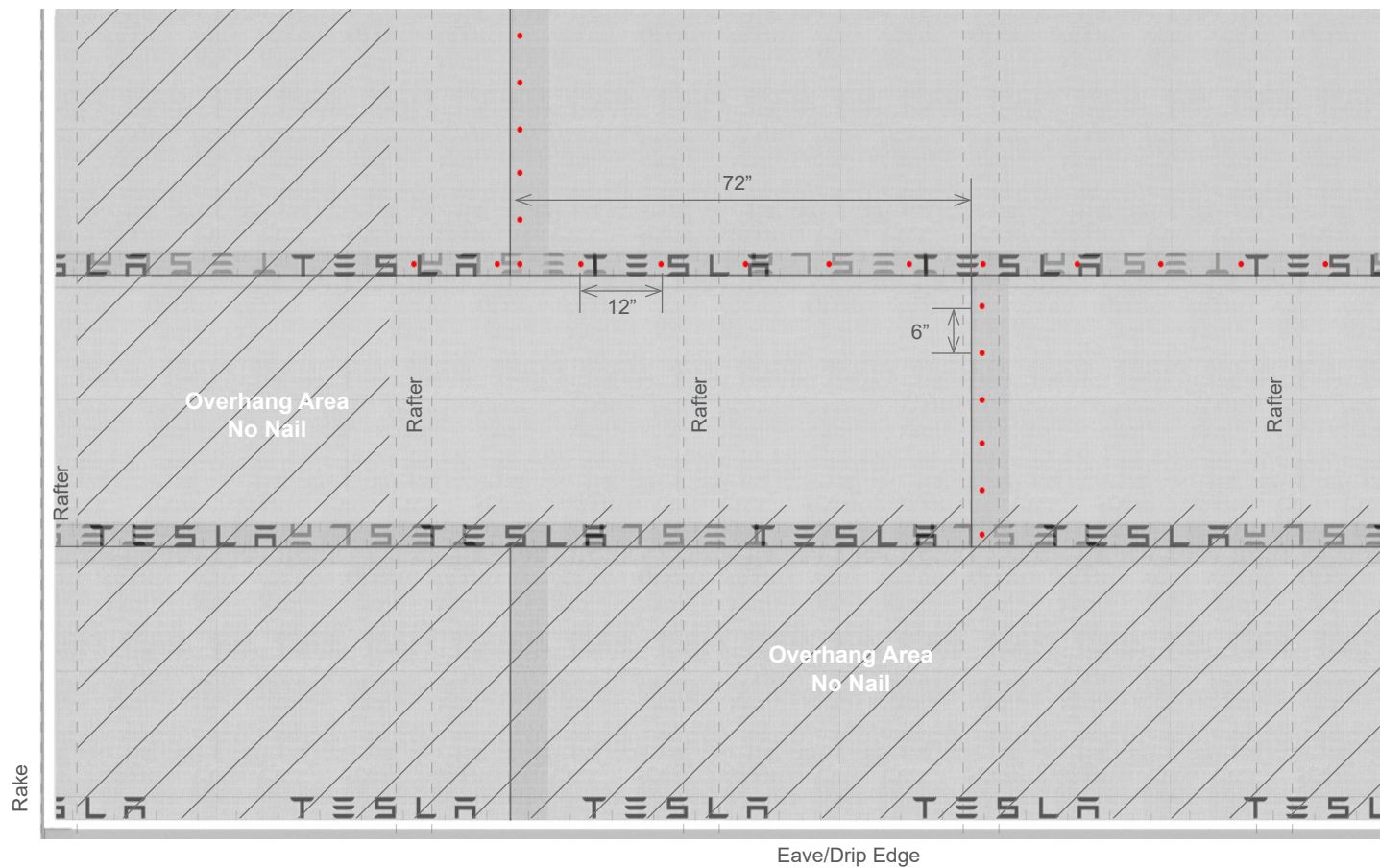
STORAGE

For best results store SR-SAUL-1 upright in its original packaging in a well ventilated area at room temperature 40°F (4.4°C) and 90°F (32°C). If product has been stored at a high temperature above 90°F (32°C) it may become difficult to remove the release liner backing. To correct this, move product to cooler location. Once cooled, the release liner can be easily removed.

ADDITIONAL NOTES

Tesla SR-SAUL-1 is a moisture and vapor barrier and therefore must be installed above a properly ventilated space(s). Follow ALL building codes applicable to your geographical region and structure type. SR-SAUL-1 is not designed for indefinite outdoor exposure. Final roofing should be installed within 180 days of underlayment installation.

TESLA SR-SAUL-1 | FASTENING AND LAPPING



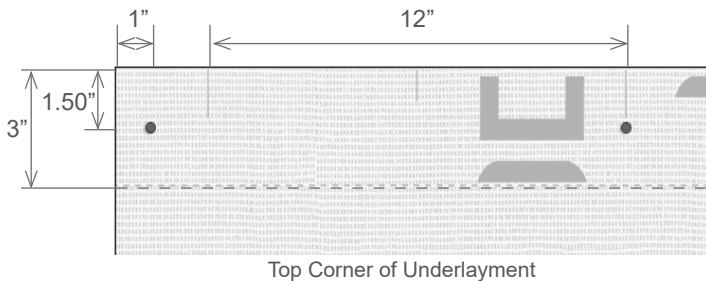
CONCEALED NAIL METHOD

Tesla SR-SAUL-1 is to be laid out horizontally (parallel) to the eave with the printed side up. Apply underlayment over the Eave Flashing and offset the starter course 1/2" from the drip edge. Fasten each course at the up roof edge using nails every 12" on the guideline marks. At the eave drip edge, the underlayment will be fastened during the Starter Trim installation. On exposed overhangs, nail only on rafters unless the eave is soffited. Lap each succeeding course 3" over the preceding course, fully concealing the fasteners and the upside-down Tesla logo. Use a roller along the entire face of the underlayment to ensure an adequate seal.

For end laps it is recommended to overlap a minimum of 6" and nail 1" in from the edges with 6" spacing between nails. End laps should be offset a minimum of 6' on adjacent courses. **Note:** if underlayment will be left exposed for an extended period in high wind area it is also recommended to cap nail 1" in at 6" intervals along key exposed seams. This specifically includes along the outer edges of the roof along the rake or eave.

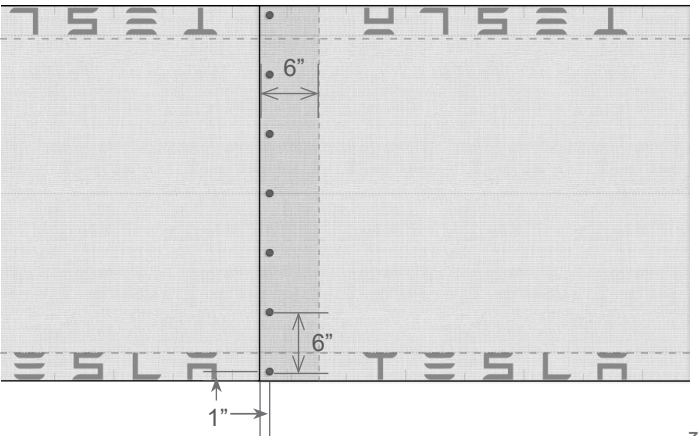
Horizontal laps

Lap 3" min. Fasten every 12" with nails.



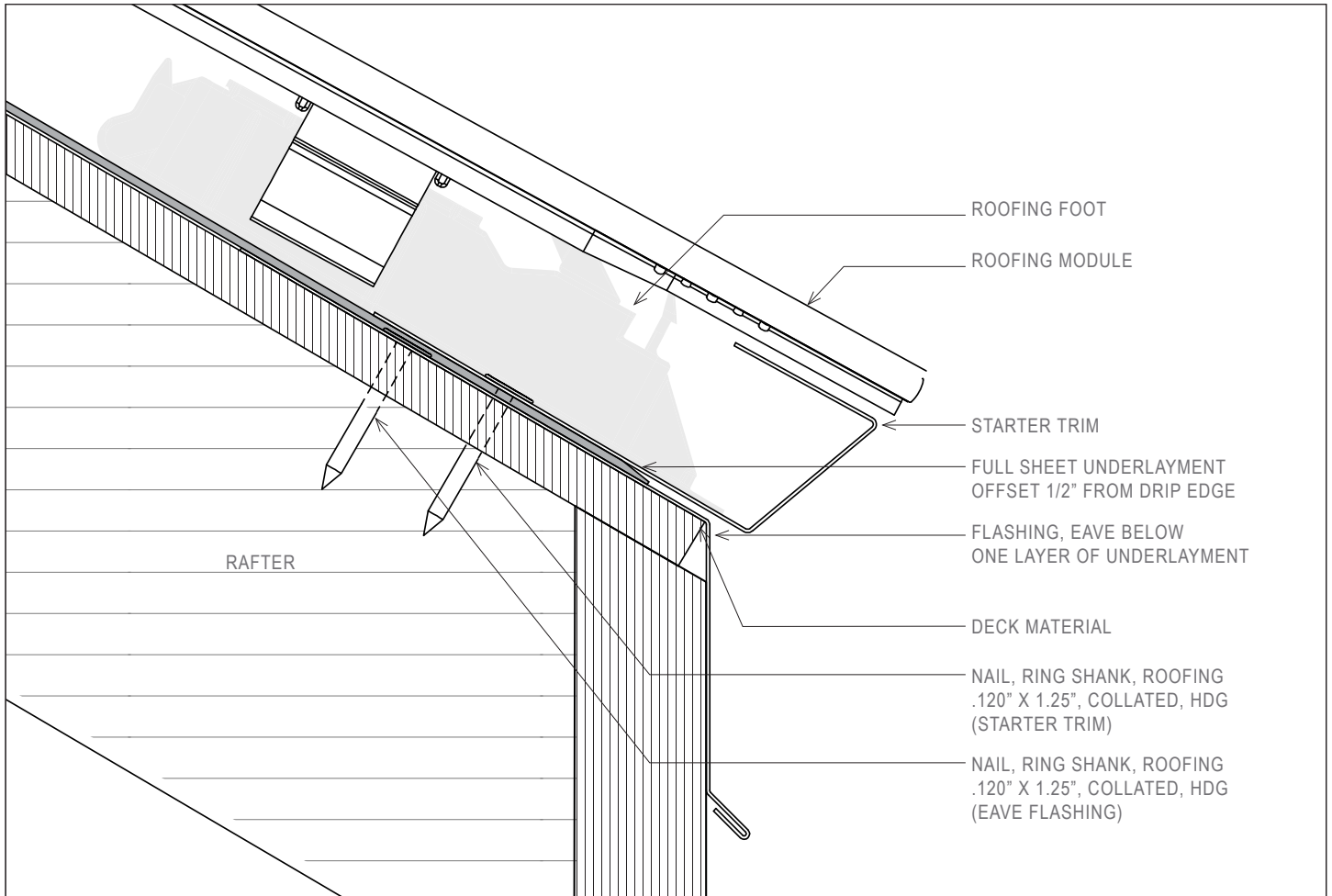
End laps

Lap 6" min. Fasten every 6" with nails.



First course

At the eave drip edge, the underlayment will be fastened during the Starter Trim installation.



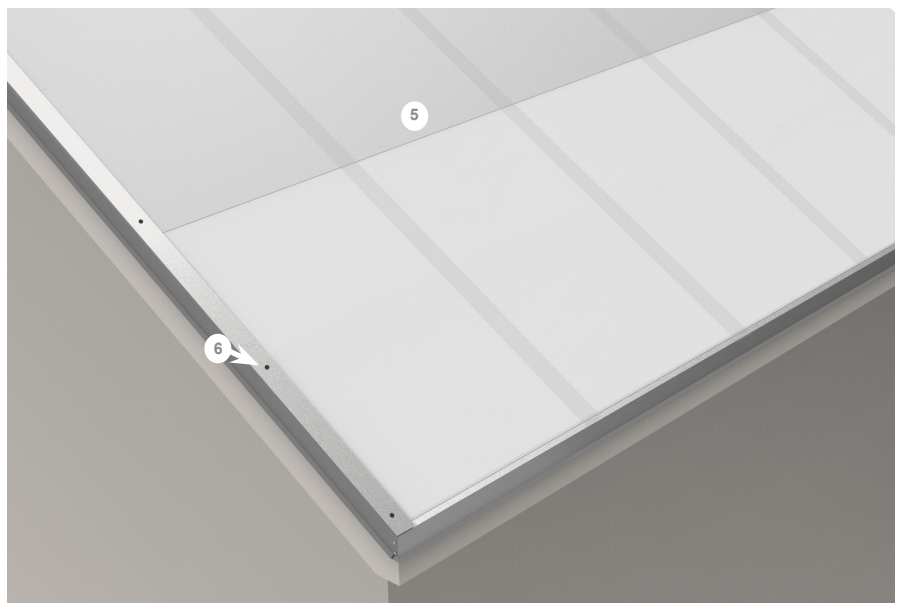
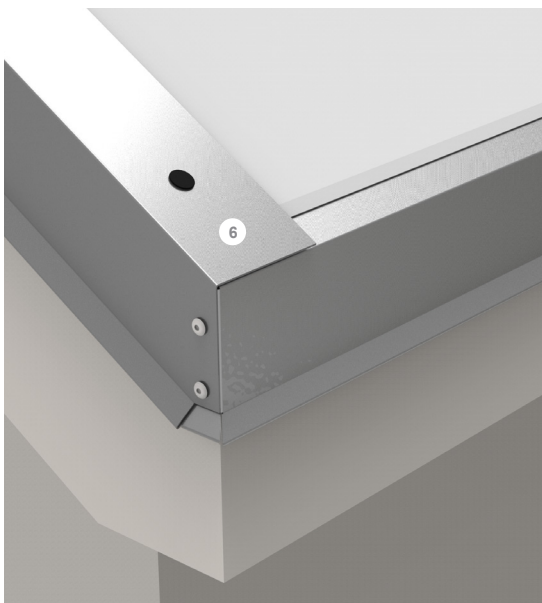
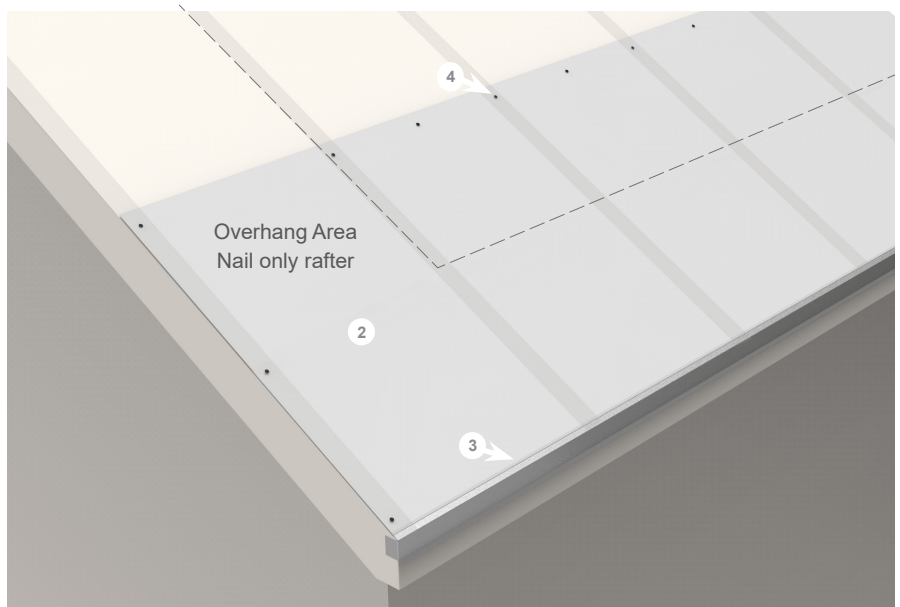
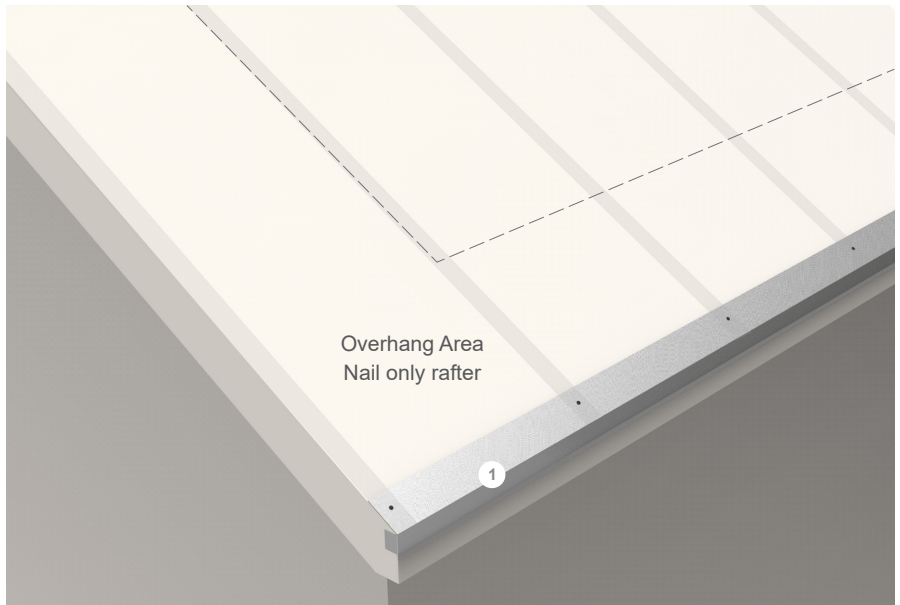
TESLA SR-SAUL-1 | UNDERLAYMENT AT RAKE

Fasten Eave Flashing (1) at 24" OC. Include a tab at the rake corner. Apply a full-width underlayment (2) over the Eave Flashing at a 1/2" offset from the drip edge for aesthetics (3).

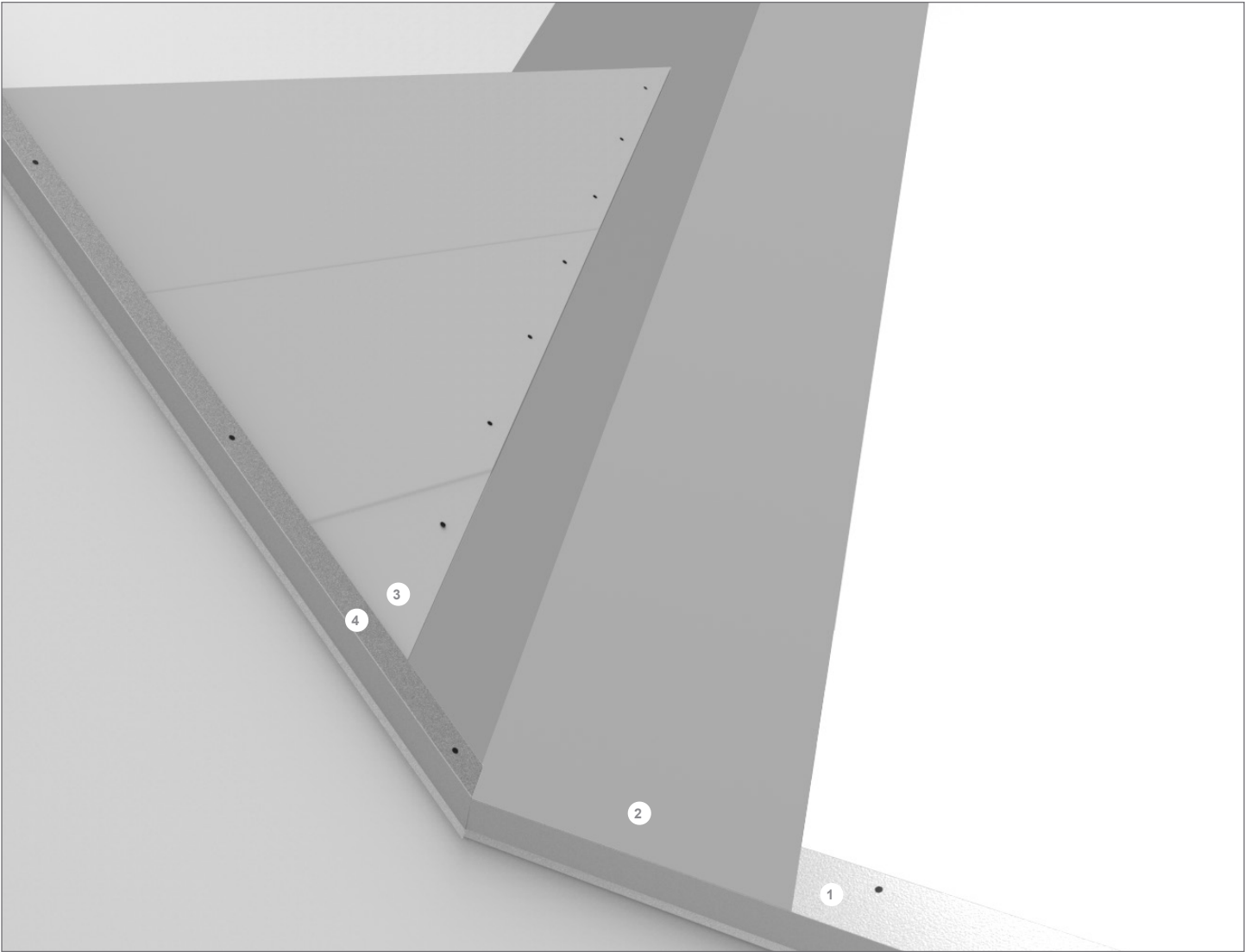
Fasten each course at the up roof edge using nails every 12" on the guideline marks (4) At the eave drip edge, the underlayment will be fastened during the Starter Trim installation. On exposed overhangs, nail only on rafters unless the eave is soffit.

Lap each succeeding course 3" over the preceeding course (5), fully concealing the fasteners. Use a roller along the entire face of the underlayment to ensure an adequate seal.

Fasten Rake Flashing (6) at 24" OC over the underlayment.



TESLA SR-SAUL-1 | VALLEY AT EAVE/ RAKE



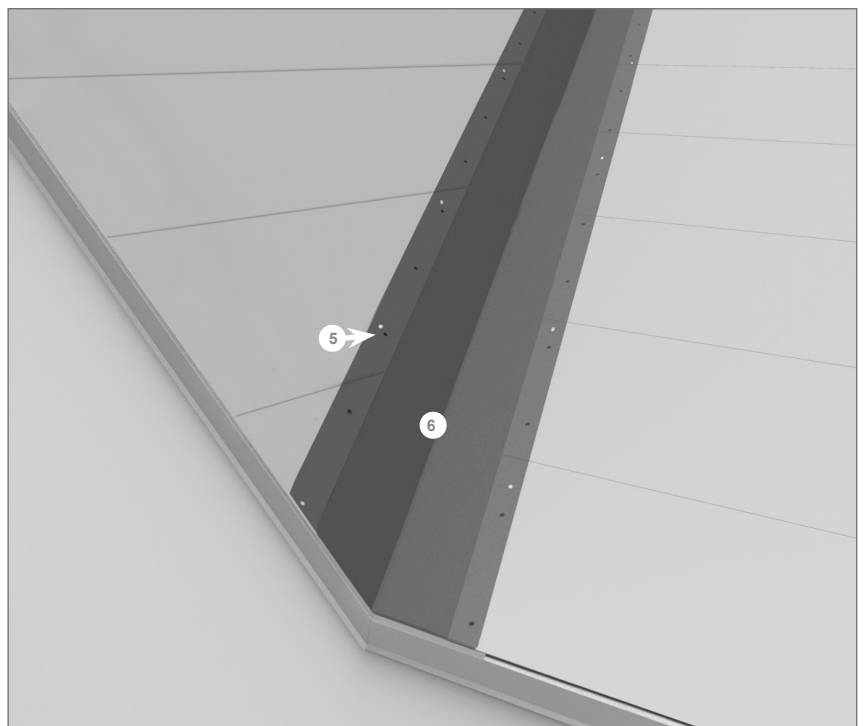
Install Eave Flashing (1). Apply a full-width strip of underlayment at the valley (2) by peeling the release liner; center the sheet over the valley and hand press the corner.

At the rake, install rake flashing (4) over the main course (3) of underlayment.

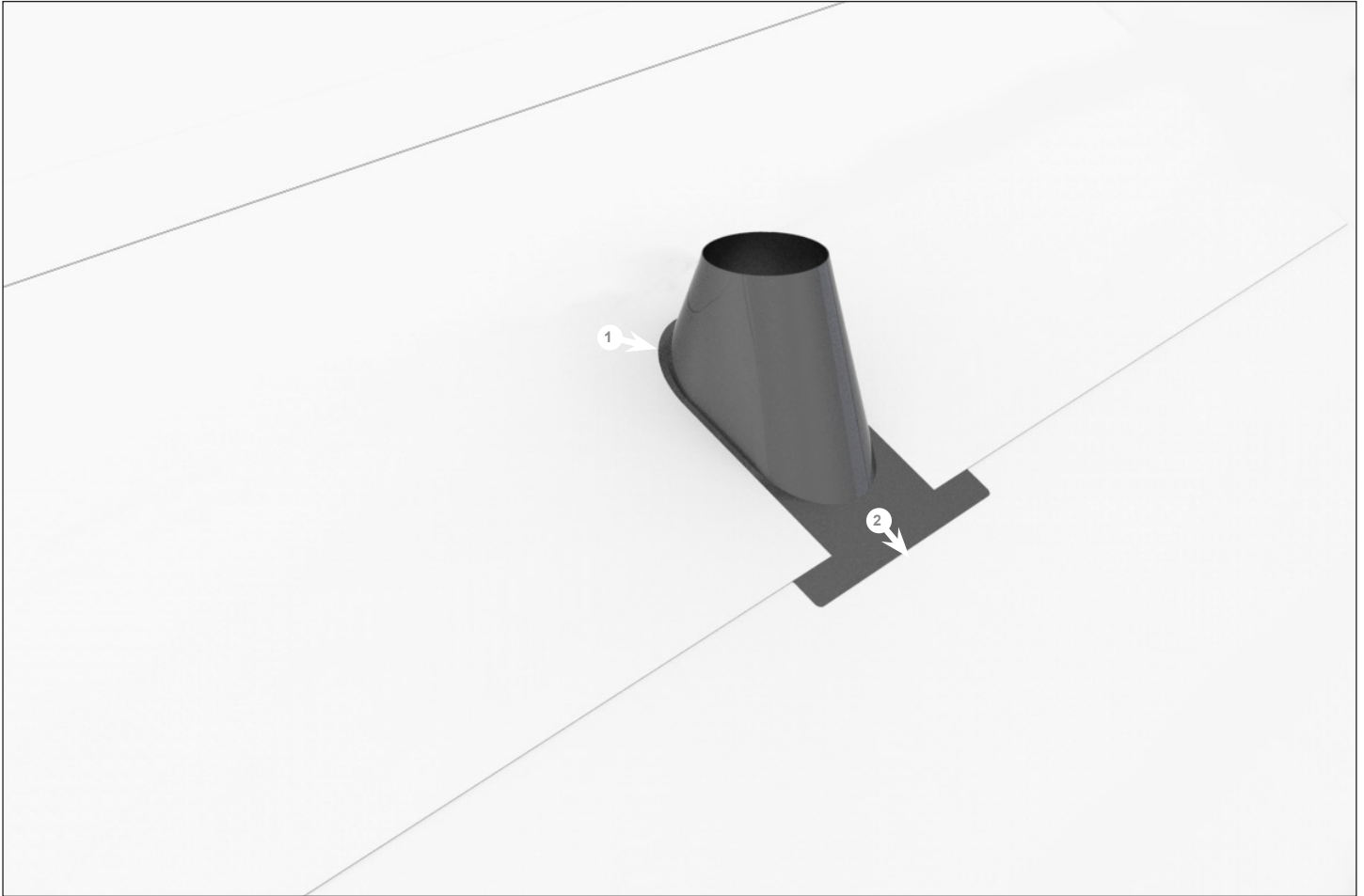
Offset the main course of underlayment from the valley centerline and fasten every 12" (5).

Install the metal Valley Flashing (6).

Attention: It is recommended to follow up with a weighted roller or by walking on the surface.

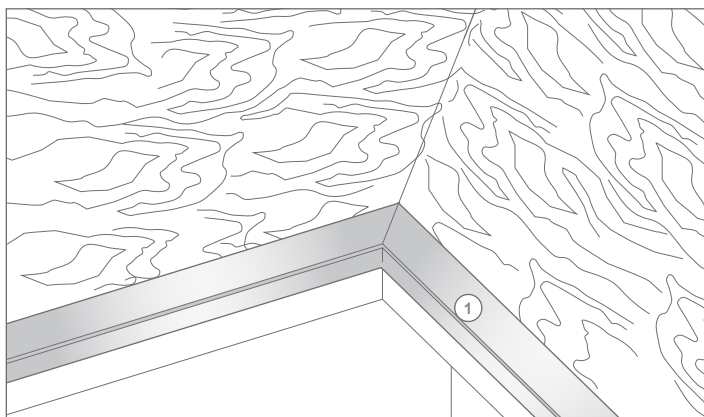


TESLA SR-SAUL-1 | UNDERLAYMENT AT OBSTRUCTION



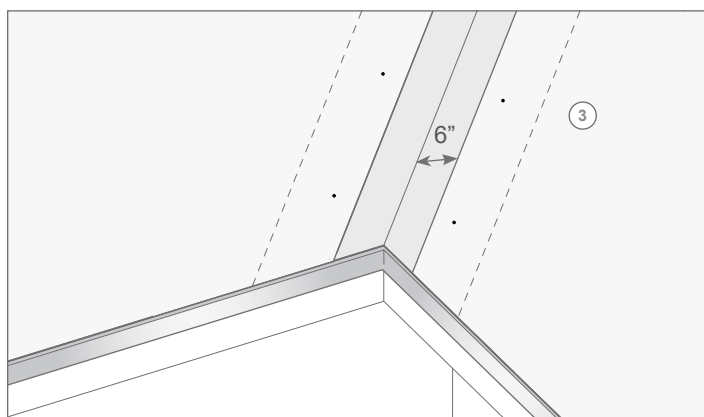
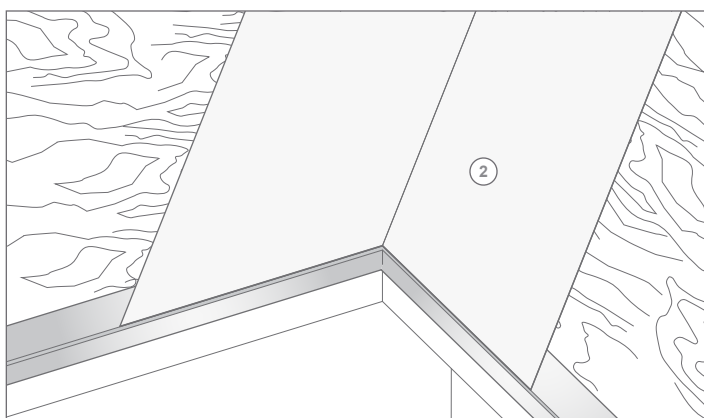
Deck level **Pipe Flashings** should be dried in during underlayment installation. Inset the Pipe Flashing into the underlayment by cutting a “U” shape with a 1/2” offset (1). Ensure that the down-roof Pipe Flashing drip edge steps beyond the underlayment a minimum of 1” beyond the lower edge of the Pipe Flashing cone (2). This will allow water to cascade down-roof. Large underlayment strips can be managed by creating a patch of underlayment surrounding the Pipe Flashing, then installing the remainder of the underlayment with 6” end laps at the seams.

TESLA SR-SAUL-1 | VALLEY AT EAVE/ EAVE

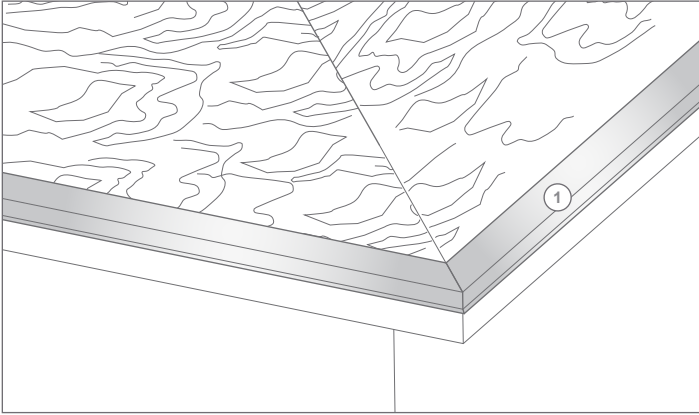


On exposed overhangs, nail only on rafters unless the eave is soffited. Apply underlayment to valleys in this order:

1. Eave Flashing.
2. Full-width underlayment strip along valley.
3. Main course underlayment stopping within 6" of valley center.
4. Fasten edges every 12" using nails.
5. Valley flashing (not shown)

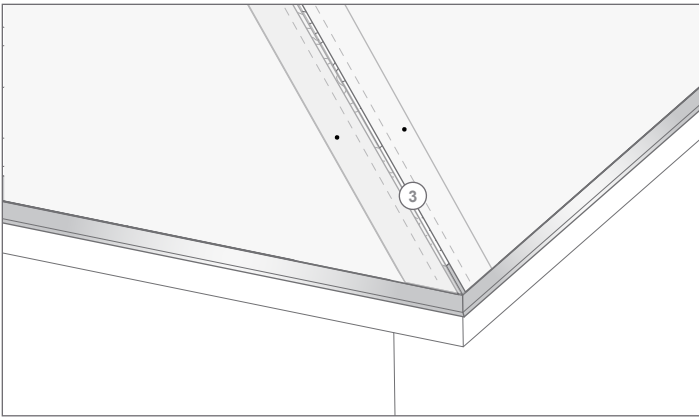
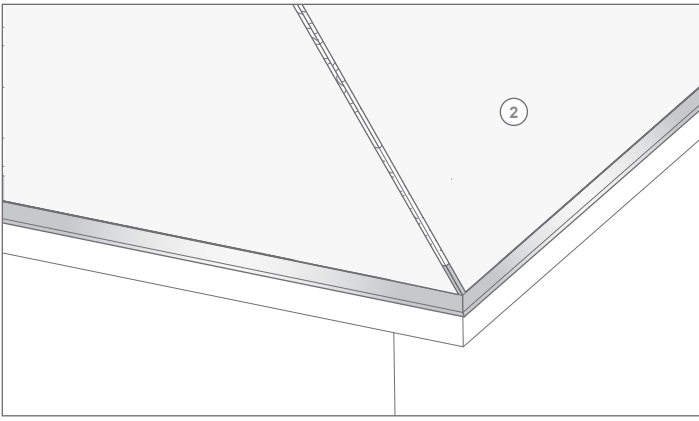


TESLA SR-SAUL-1 | UNDERLAYMENT AT HIP



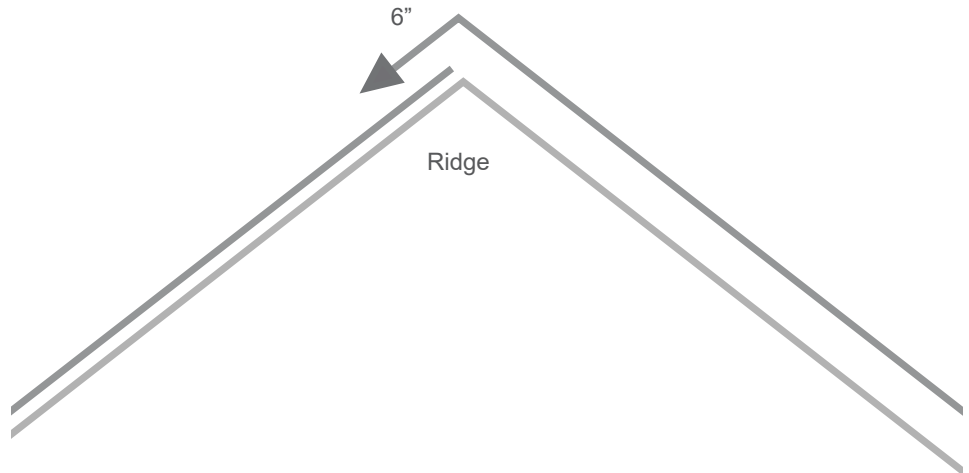
On exposed overhangs, nail only on rafters unless the eave is soffit. Apply underlayment to hips in this order:

1. Eave Flashing.
2. Main course underlayment, to hip center.
3. 12 11/16"-width underlayment cap along hip. Fasten edges every 12" using nails. Use a heat gun if necessary to adhere the underlayment.



TESLA SR-SAUL-1 | UNDERLAYMENT AT RIDGE

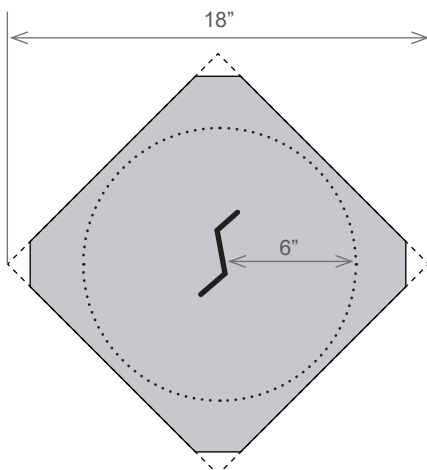
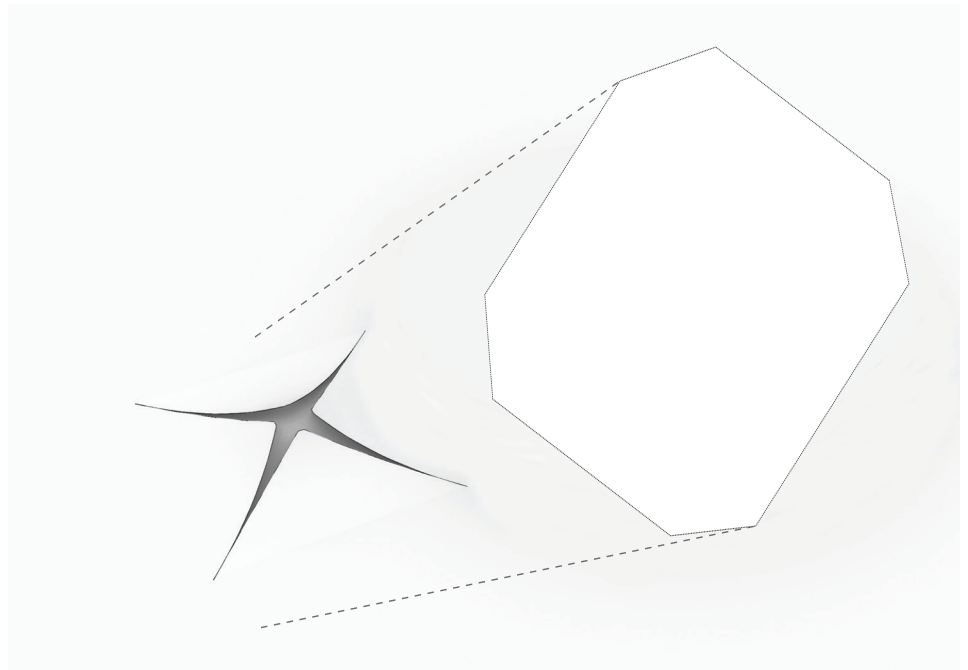
Extend underlayment lap 6" over ridge to seal the ridge vent temporarily in case of inclement weather. Tack down with nails every 12".



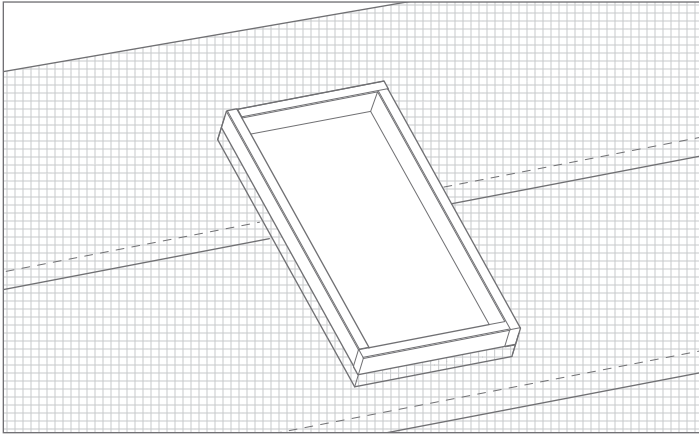
TESLA SR-SAUL-1 | PUNCTURES, TEARS, AND PATCHES

If you need to apply a patch:

- Cut the patch in a rectangle shape then orient in a diamond-shape on mounting plane to help shed water.
- Round or cut corners at 45° to prevent peeling.
- Make the patch large enough to extend 6" beyond the perimeter of the hole or tear.
- Clean the area of any dirt or debris with an airline or brush.
- Roll out patch seams with hand roller and use a heat gun to ensure adhesion if temperature requires.

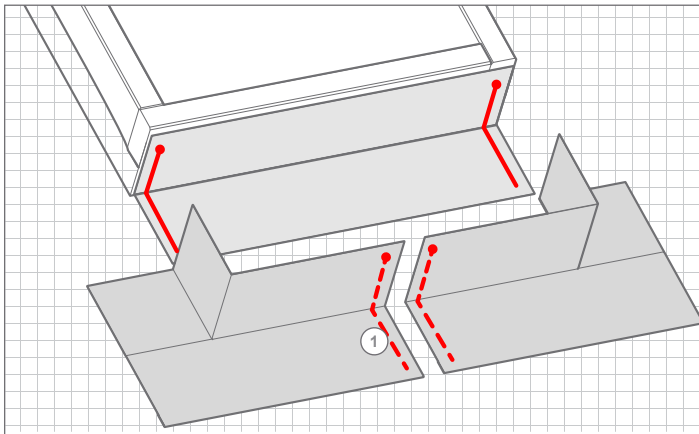


TESLA SR-SAUL-1 | UNDERLAYMENT AT SKYLIGHT



MOUNTING PLANE UNDERLAYMENT

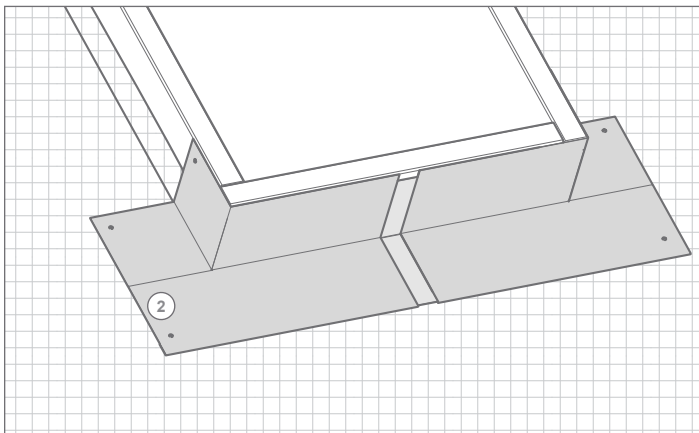
Follow local codes and guidelines for terminating the underlayment around a skylight curb. The recommended best practice is to turn up the underlayment under the deck metal. Tesla SR-SAUL-1 is a thicker underlayment and needs to be pressed thoroughly into all corners to ensure that it does not pull flashings away from the wall surface and compromise seals. If there are issues with clearance and underlayment thickness, the stripped in deck metal provides a secondary redundant layer of protection.



APRON CORNER & HEADWALL FLASHING

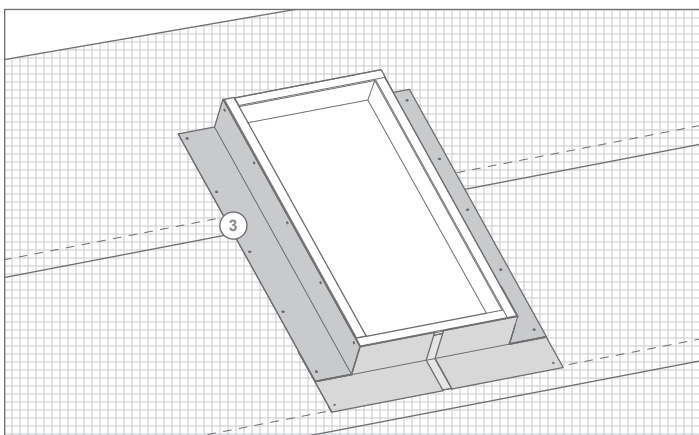
The Deck Level Apron and Sidewall Assembly are installed on top of the underlayment. Measure and cut Headwall Flashing to length. Seal between flashings by applying a 1/4" bead of sealant 1" back from the edge of parts (1).

Fasten at corners 1" in from edge (2). No additional fasteners are needed at headwall unless the length requires it.

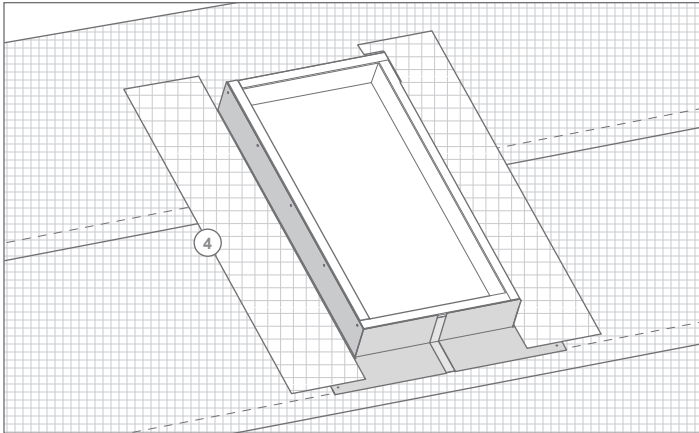


SIDEWALL FLASHING

Measure and cut **Sidewall Flashing** to length. Fasten at corners 1" in from edge and every 12" between corners (3).



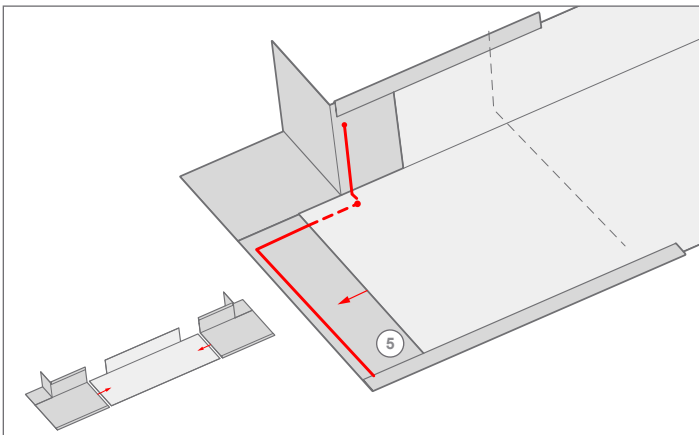
TESLA SR-SAUL-1 | UNDERLAYMENT AT SKYLIGHT



UNDERLAYMENT: STRIP IN

If available use a pre-cut 12" detail roll.

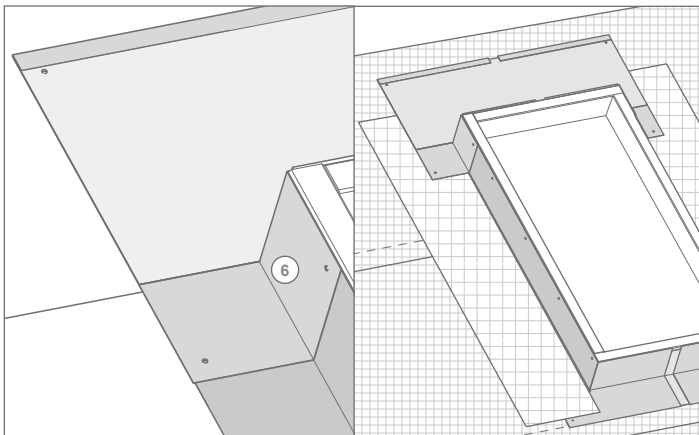
Lap Sidewall Flashing with 12" strips of underlayment, ensuring 6" coverage of flashings (4). Use a heat gun if necessary to adhere to the underlayment to the deck metal. Do not apply underlayment at the bottom edge of the apron assembly to prevent water damming.



SADDLE CORNER & ENDWALL FLASHING

Measure and cut **Endwall Saddle Flashing** to mate with the Corner Flashings. Assemble with the Corner Flashing by sliding into both hems (5). Assemble partially first, apply 1/4" bead of sealant between flashings, then fully engage.

The Deck Level Saddle Assembly needs to sit directly on the deck and is installed below the underlayment. Fasten at corners 1" in from the edge. DO NOT fasten to endwall (6).



UNDERLAYMENT: CONTINUE COURSES

Continue underlayment installation lapping over the Saddle Assembly for a proper seal and down roof water shedding (7). Use a heat gun if necessary to adhere the underlayment to the deck metal.

