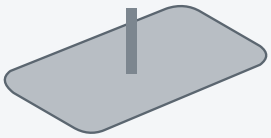
0 Parts & tools



Base Plate
1 threaded stud



Mini Top Bracket
2.5" angle, over stud



Mini Rail
panel attaches here



Lock nuts

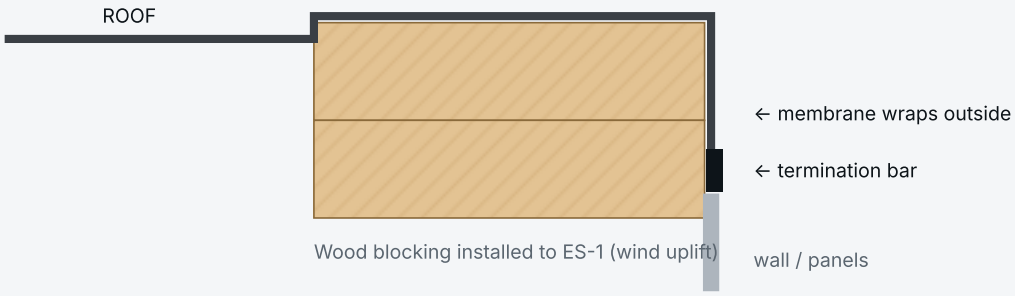


Self-tap screws

Supplied by PanelPlate

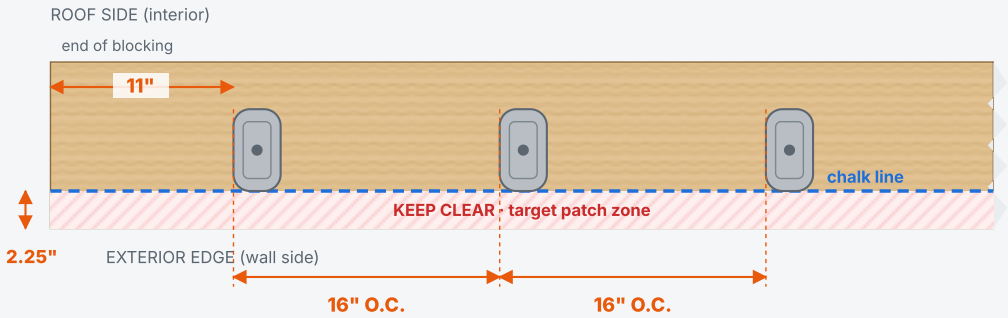
Also on site: 2 #12 DP roofing fasteners per plate · water cut-off mastic · chalk line · tape · small clamps · drill + ⅜" bit · snips

1 Roof edge must be finished first



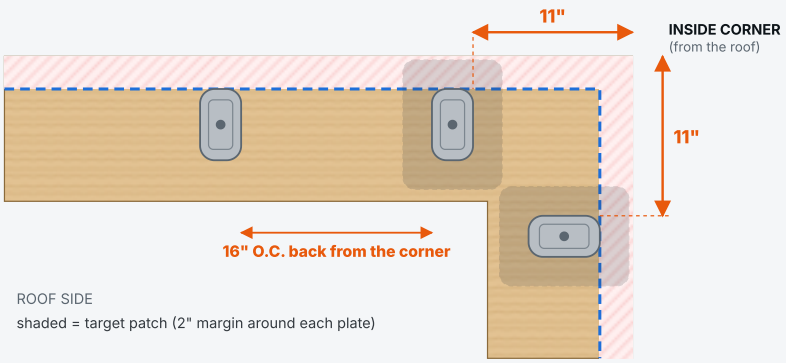
- ✔ Use the fall protection your jurisdiction requires.
- ✔ Blocking is installed to ES-1, membrane is over the blocking and terminated on the **exterior** side with a term bar.
- ✘ Don't start until the roofer's edge work is done.

2 Lay out the brackets

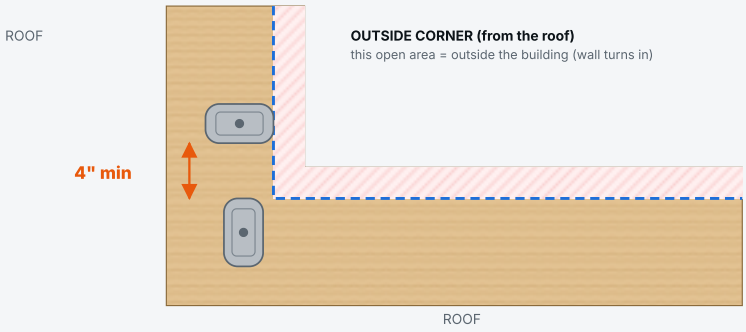


- ✔ Snap a chalk line **2.25"** in from the **exterior** edge, full length.
- ✔ First bracket's outside edge sits **11"** from the end of the blocking. Same for the last bracket.
- ✔ Front edge of every bracket sits **on** the chalk line. Then mark **16" O.C.**
- ✘ No brackets between the chalk line and the exterior edge. That strip is for the target patch.

3 Corners (named as seen standing on the roof)



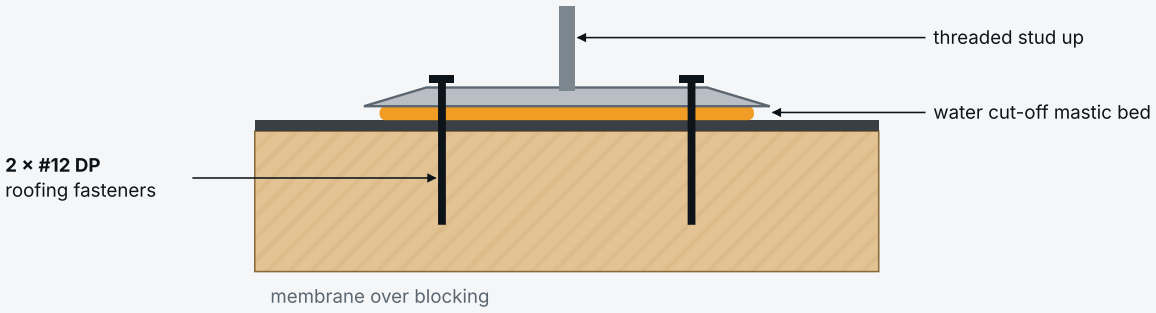
- ✔ **Inside corner (from the roof):** first bracket on **each side** sits **11"** from the corner, then lay out **16" O.C.** from there.
- ✔ Why: each target patch runs about **2"** past the plate. 11" keeps the two corner patches from landing on top of each other.



- ✔ **Outside corner (from the roof):** keep at least **4"** between the two corner brackets. The patches spread apart here, so 4" is enough.

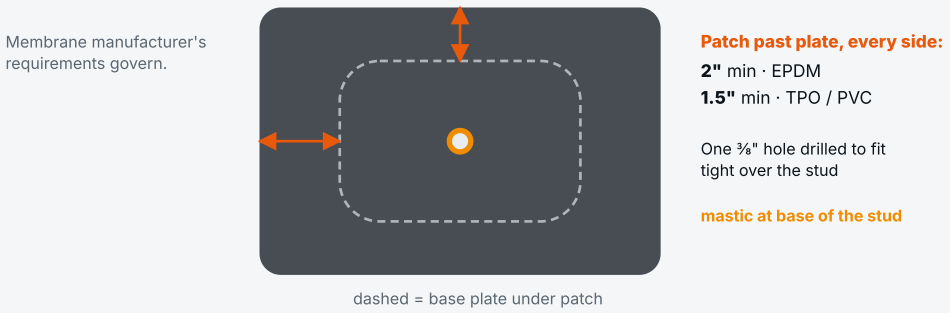
BASE PLATE · TARGET PATCH

4 Set & fasten the base plate



- ✔ Bed each plate in water cut-off mastic.
- ✔ Fasten with **2 #12 DP** roofing fasteners per plate.
- ✘ Only set as many plates as can get target patches the **same day**.

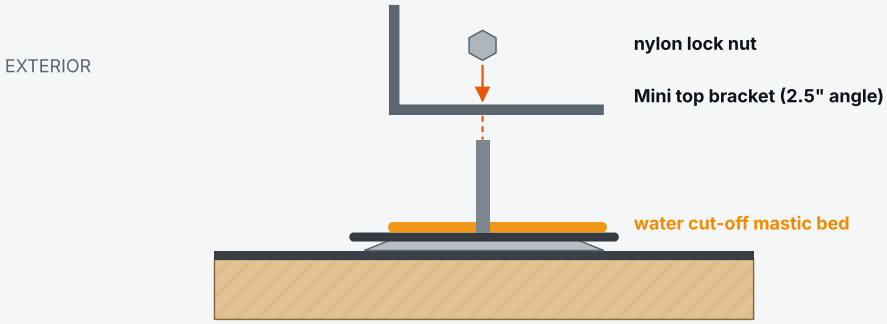
5 Target patch (roofer)



- ✔ Use flashing approved by the membrane manufacturer.
- ✔ Drill **one ⅜"** hole so the patch fits tight over the stud, then seal it to the membrane.
- ✔ Seal around the base of the stud and onto the patch with water cut-off mastic.

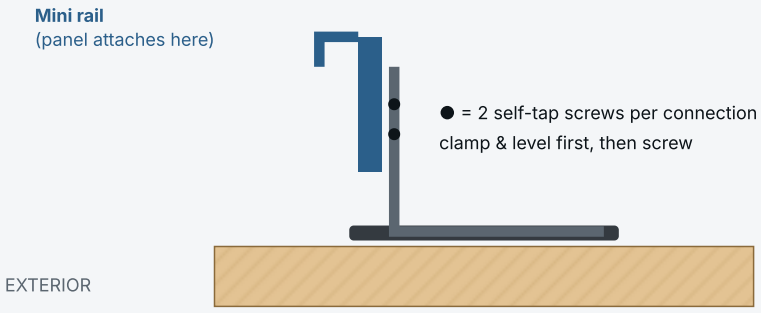
TOP BRACKET · MINI RAIL

6 Mini top bracket



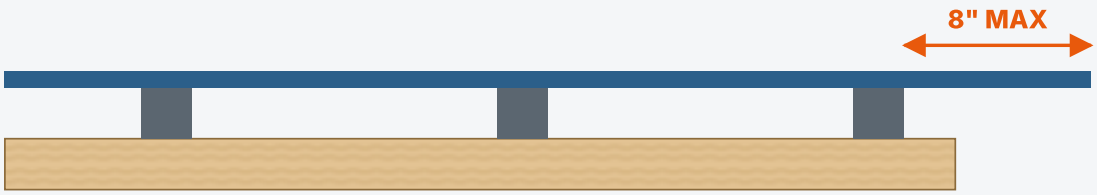
- ✔ Lay a bed of **water cut-off mastic** on the target patch, set the top bracket in it over the stud, and tighten the supplied nylon lock nut.
- ✔ Mini target patch gets **one** ⅜" hole, not two.

7 Mini rail



- ✔ Clamp the Mini rail to the top bracket and level it, then fasten with **2** self-tapping screws per connection.

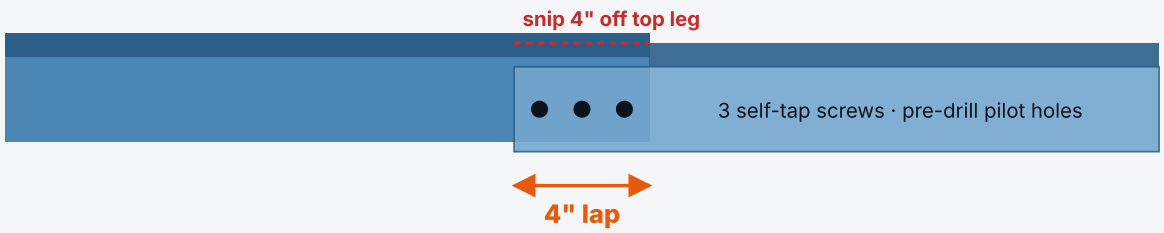
8 Mini rail cantilever



elevation along wall · last bracket on right

✕ Rails can't overhang more than **8"** past the last fastening point.

9 Joining two Mini rails



✔ Snip **4"** off the top leg of one rail, lap the bottoms **4"**, and fasten with **3** self-tapping screws. Pre-drill the pilot holes.

Figures are schematic. Roofing membrane manufacturer requirements govern all flashing. Patented in the United States · Patent pending in Canada.