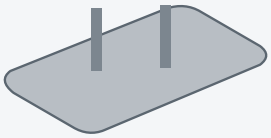
## 0 Parts & tools



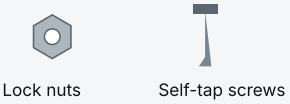
**Base Plate**
2 threaded studs



**Top Bracket**
drops over studs



**Rails (L)**
10' lengths

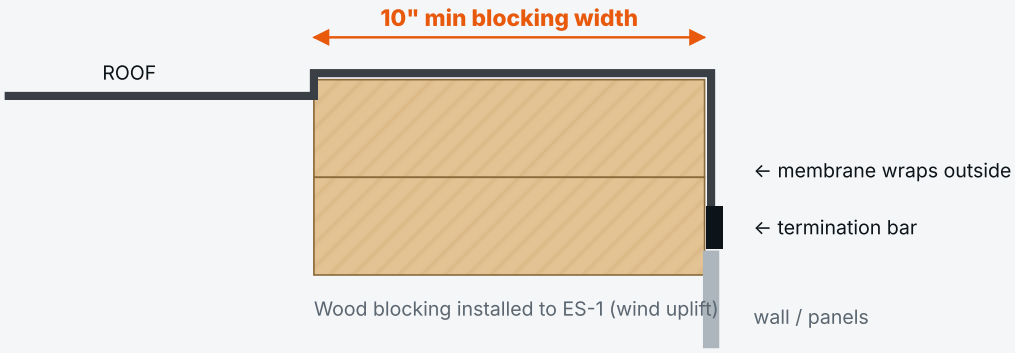


Lock nuts · Self-tap screws

Supplied by PanelPlate

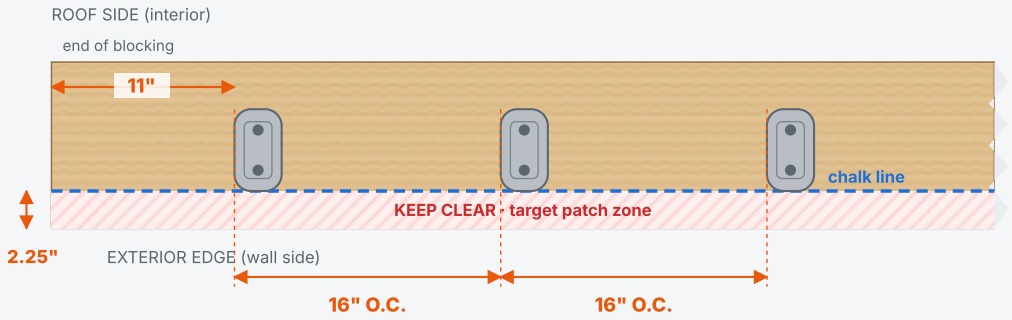
Also on site: 2 #12 DP roofing fasteners per plate · water cut-off mastic · chalk line · tape · small clamps · drill + ⅜" bit · snips

## 1 Roof edge must be finished first



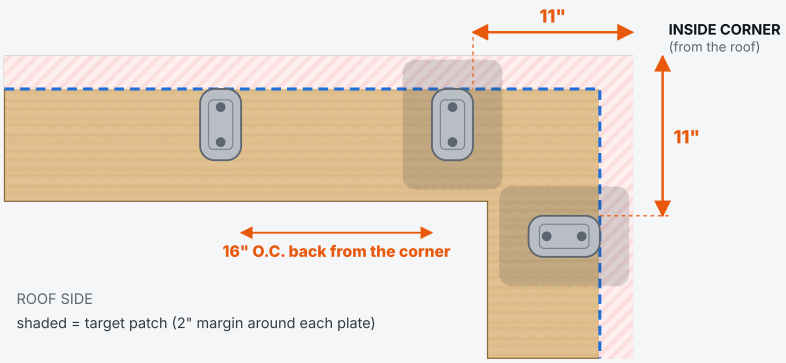

- ✔ Use the fall protection your jurisdiction requires.
- ✔ Blocking is installed to ES-1, membrane is over the blocking and terminated on the **exterior** side with a term bar.
- ✖ Don't start until the roofer's edge work is done.

## 2 Lay out the brackets

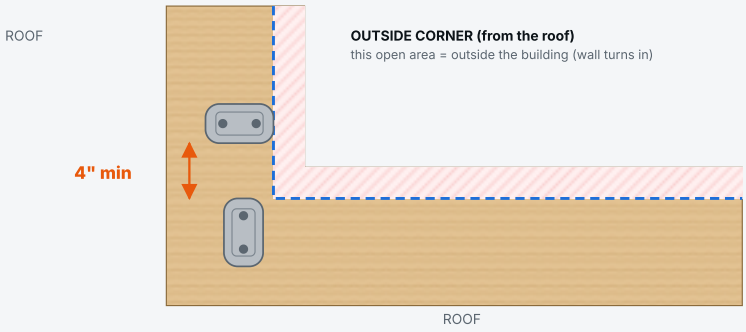



- ✔ Snap a chalk line **2.25"** in from the **exterior** edge, full length.
- ✔ First bracket's outside edge sits **11"** from the end of the blocking. Same for the last bracket.
- ✔ Front edge of every bracket sits **on** the chalk line. Then mark **16" O.C.**
- ✖ No brackets between the chalk line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

## 3 Corners (named as seen standing on the roof)



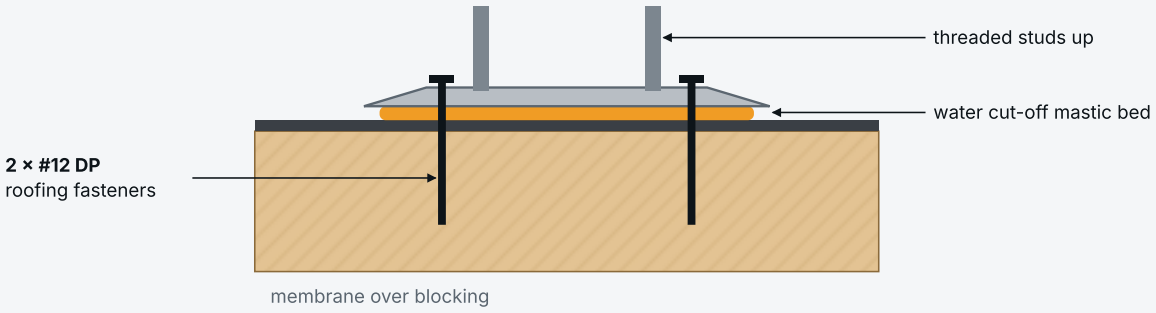

- ✔ **Inside corner (from the roof):** first bracket on **each side** sits **11"** from the corner, then lay out **16" O.C.** from there.
- ✔ Why: each target patch runs about **2"** past the plate. 11" keeps the two corner patches from landing on top of each other.




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

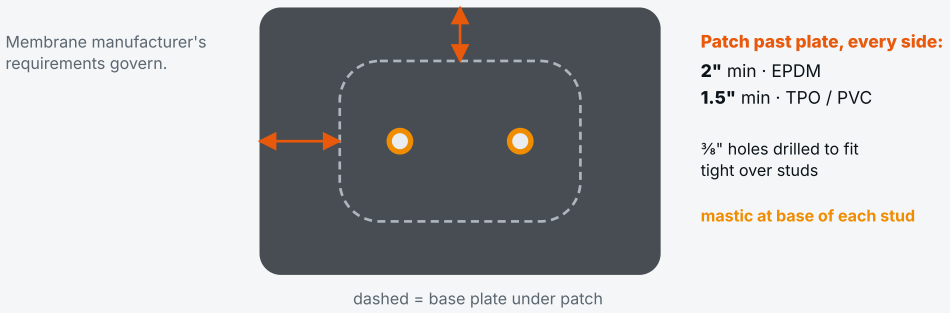
# BASE PLATE · TARGET PATCH

## 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**.

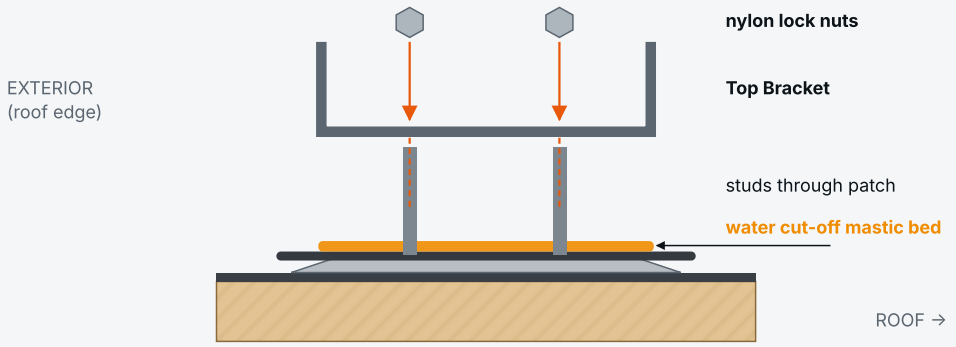
## 5 Target patch (roofer)




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

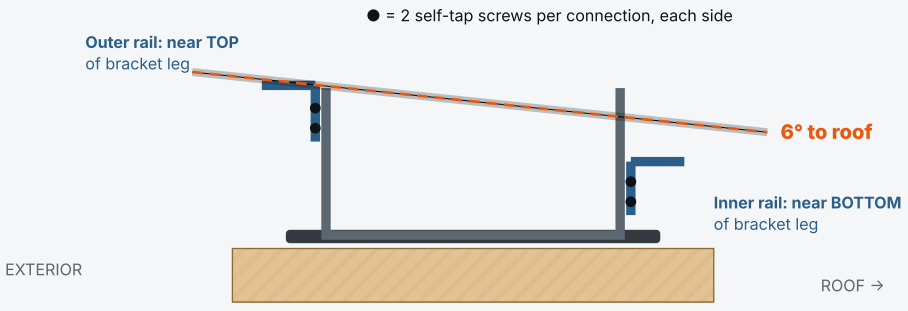
# TOP BRACKET · RAILS

## 6 Install the top bracket



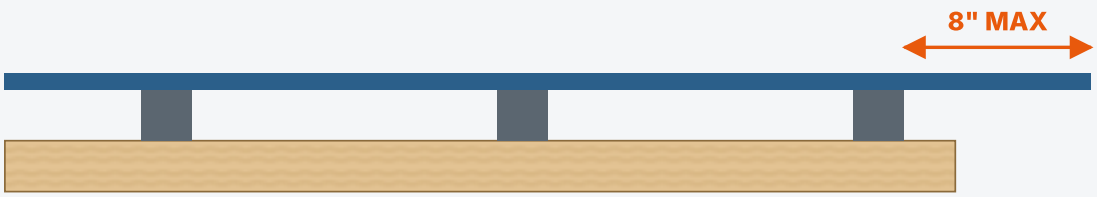

- ✔ Lay a bed of **water cut-off mastic** on the target patch where the top bracket sits.
- ✔ Set the top bracket in the mastic over the studs and tighten the supplied nylon lock nuts.

## 7 Rails & the 6° slope




- ✔ Clamp the rails on first and level them. Outer rail goes **high**, inner rail goes **low**, which gives the **6°** slope toward the roof most panel warranties require.
- ✔ Then screw them off: **2** self-tapping screws at every rail-to-bracket connection.

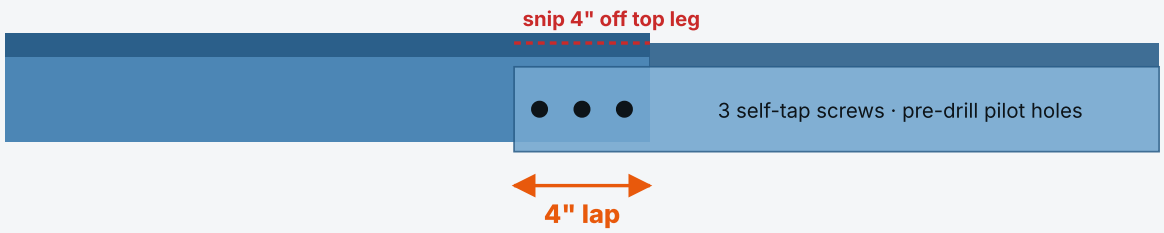
## 8 Rail cantilever




elevation along wall · last bracket on right

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

## 9 Joining two 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.