

**No-Puncture Roof Moisture Monitoring System (RMMS)
Long Reach Sensor Installation Spec
For Single Ply Membrane Only (TPO, EPDM, PVC):**



Visit <https://www.no-puncture.com/documents> for installation videos:

Long Reach Sensor Install Information:

- **No-Puncture RMMS Long Reach Sensor** is to be installed on roof systems with at least 1” (25mm) of total insulation including the coverboard with a max of 7” (175mm) of total insulation.
- Use the **No-Puncture RMMS Short Reach Sensor** for roof systems installed with only a ½” (12mm) coverboard directly over the roof deck system.

Included Items:

- a) **No-Puncture Sensor (Has Two Parts)**
 - **No-Puncture Trigger** (View *Part A)
 - **No-Puncture Indicator** (View Part B)
- b) No-Puncture Instruction Manual



*Part A



Part B

*Part A not to scale and shown at a truncated length.

Required Accessories and Tools:

**Required No-Puncture Accessory Install Kit:
(Sold Separately)**

- a) 7/8” (22mm) Drill Bit
- b) 7/8” (22mm) Coring Tube, with Turning and Plunging Rods
- c) Cutting Tool

Required Tools (Supplied by Installer):

- a) Tape Measure
- b) Scissors
- c) Marking pens or Marking Crayons
- d) Cordless Drill

Required Accessories (Supplied by Installer):

- a) Primer for Single Ply Membranes

No-Puncture Installation Requirements:

- a) Install minimum 6-8" (150mm – 200mm) from roof top projections.
- b) Avoid installing the **No-Puncture Sensor** under roof top projection membrane stripping.
- c) Avoid installing the **No-Puncture Sensor** under walkway pads and concrete pavers.
- d) **No-Puncture Trigger** must be installed after the topmost layer of insulation and/or coverboard has been installed.
- e) **No-Puncture Trigger** must be installed before the roofing membrane is installed.
- f) **The No-Puncture Trigger MUST BE INSTALLED IN DRY INSULATION** Ensuring that the insulation and/or coverboard is completely dry.
- g) **No-Puncture Indicator** is installed after the roofing membrane is installed.
- h) When installing over a steel deck, install the **No-Puncture sensor** directly over the top of the steel deck flutes or a few inches away from a fastener plate in the direction the steel deck flutes.

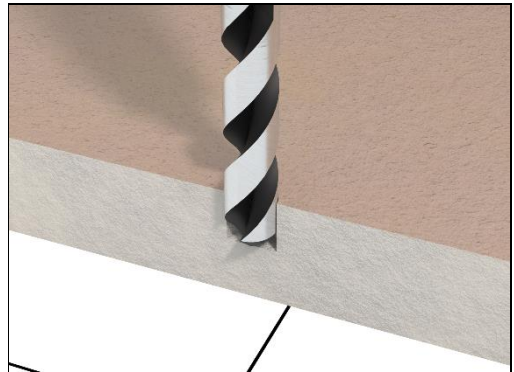
No-Puncture Roof Moisture System Installation:

Part A No-Puncture Trigger:

- Install the **No-Puncture sensors** based on the roof plan drawing.

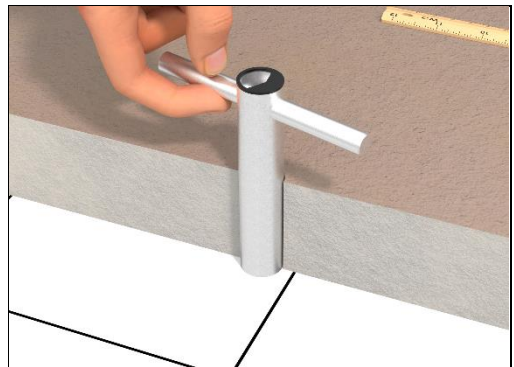
Step 1)

- Start by drilling an $\frac{7}{8}$ " hole in the topmost layer of the insulation and/or coverboard substrate.
- Avoid drilling the entire depth to avoid damaging the vapour barrier, using the coring tube to remove remaining insulation and debris.



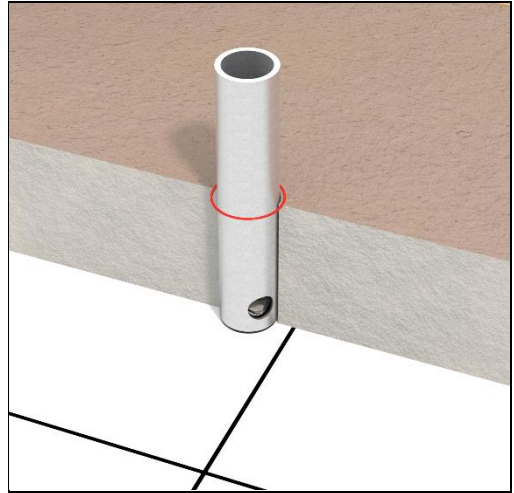
Step 2)

- Use the $\frac{7}{8}$ " Coring Tube to core through the remaining insulation down to the vapour barrier.
- Avoid damaging the vapour barrier.



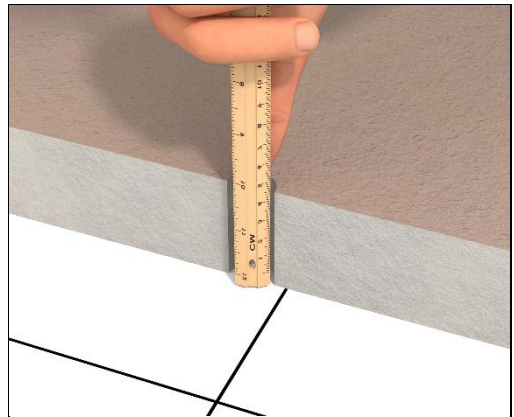
Step 3)

- Remove debris from the hole with a vacuum cleaner or using the opposite end of the coring tube.
- The opposite end of the coring tube is inserted and rotated by hand to accumulate the small bits of debris on the scoop side that is then removed. Do this 3-4 times until the larger bits of debris are removed.



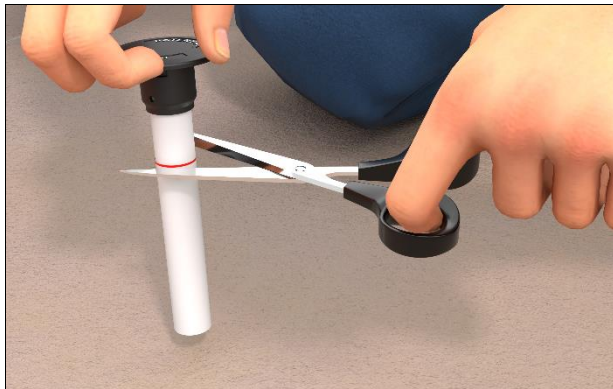
Step 4)

- Measure the depth of the hole from the topmost layer of the insulation and/or coverboard to the vapour barrier.



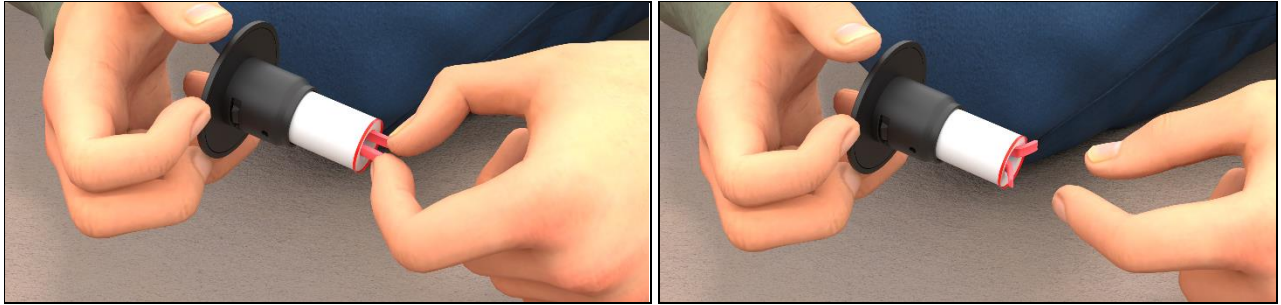
Step 5)

- Cut the **No-Puncture Sensor** to $\frac{1}{8}$ " to $\frac{1}{4}$ " (3mm to 6 mm) longer than the measured hole depth.



Step 6)

- Lightly pull out the two end pink strips and flare them off to each side.



Step 7)

- Install the **No-Puncture Trigger** into the hole and push the sensor all the way down flush with the insulation.



Step 8)

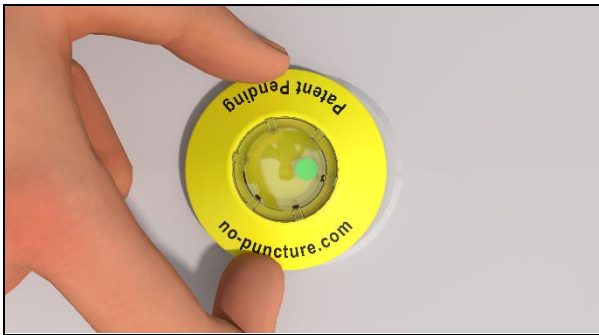
- Install the field membrane as specified, but when coming across a **No-Puncture Sensor**, crayon on the roof membrane around the general location of the sensor.
- (The roof plan drawing should include the locations of the **No-Puncture Sensors**, but if missing or not included, record the locations to install the **No-Puncture Indicators** later).

Part B No-Puncture Indicator:

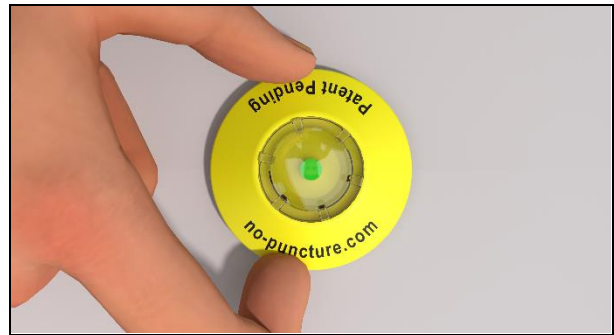
- The **No-Puncture Indicator** should be installed after **all** other field membranes are completed in that area.

Step 1)

- Find location of the **No-Puncture Trigger** using the **No-Puncture Indicator** in the previously marked locations.
- Align the **No-Puncture Indicator** with **No-Puncture Trigger** so the magnet is centered.



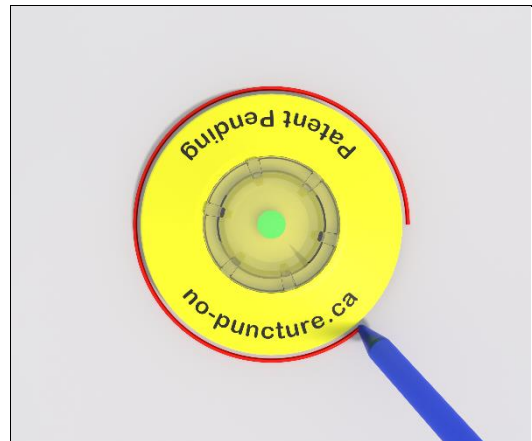
Incorrectly Aligned



Correctly Aligned

Step 2)

- Mark the outline of the aligned **No-Puncture Indicator** on the roof membrane.
- Temporarily remove the **No-Puncture Indicator** and place it in a safe place.



Step 3)

- The roofing contractor shall use the required roofing manufacturers primer for Single Ply Membranes to prime the surface of the roof membrane and 1" (25mm) outside of the marked outline.
- Let the primer flash off.



Step 4)

- Remove the release backing on the **No-Puncture Indicator**.
- Install the **No-Puncture Indicator** in the marked outline on the roof membrane.



End of No-Puncture installation.