



Floor moisture testing is typically completed with probes drilled into the concrete using ASTM F-2170. (Always review spec's & floor manufacturers requirements for testing)

When using this test, we must make sure that the installers are properly installing the probes into the concrete, which includes the correct depth of the probe... (even experienced installers)

The following are guidelines that need to be followed:

Conditioning: Concrete floor shall be at SERVICE temperature and humidity for at least 48 hrs before making Rh measurements.

Test no closer than 3'-0" from slab edge.

Use a rotary hammer drill

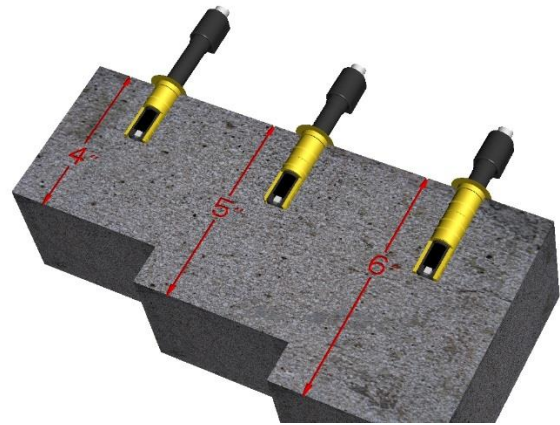
Use a four (4) fluted bit **ONLY**... a two (2) fluted bit will likely create an oval, which will not allow for a proper seal and accurate results.

The bit should only exceed the exterior diameter of the hole liner by 0.04" (1mm)... and drilled dry.

Vacuum hole... wire brush... vacuum... wire brush... vacuum. (Dust will contaminate the sensor & dry the results)

Always verify the seal at and around the concrete.

The test is 3 for the first 1,000SF and 1 additional for each 1,000sf after. *It is recommended that we only test a couple per floor in the beginning to get a feel for the expected results prior to testing as per ASTM.*



Determining the proper depth per the ASTM:
 When the slab is drying from one side only...
 (Metal deck, Slab on Grade w/vapor barrier)
40% from the top
 They will need to drill to test the thickness near location

When the slab is drying from two sides ...
 (Formed Concrete Elevated Deck)
20% from the top

Always get a completed report for each probe as required per the ASTM:

REPORT OF RELATIVE HUMIDITY IN CONCRETE

| Name and address of structure | | | | Identify Floor | | |
|---|-----------------------------|----------------------------------|-----------------------------|---------------------|--------------------------|-------|
| Test Location (use room numbers or building grid) | Depth from top of slab, in. | Relative Humidity in concrete, % | Temperature in concrete, °F | Air Temperature, °F | Air Relative Humidity, % | Notes |
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Too shallow of a hole will yield drier results

Too deep of a hole will yield wetter results

