

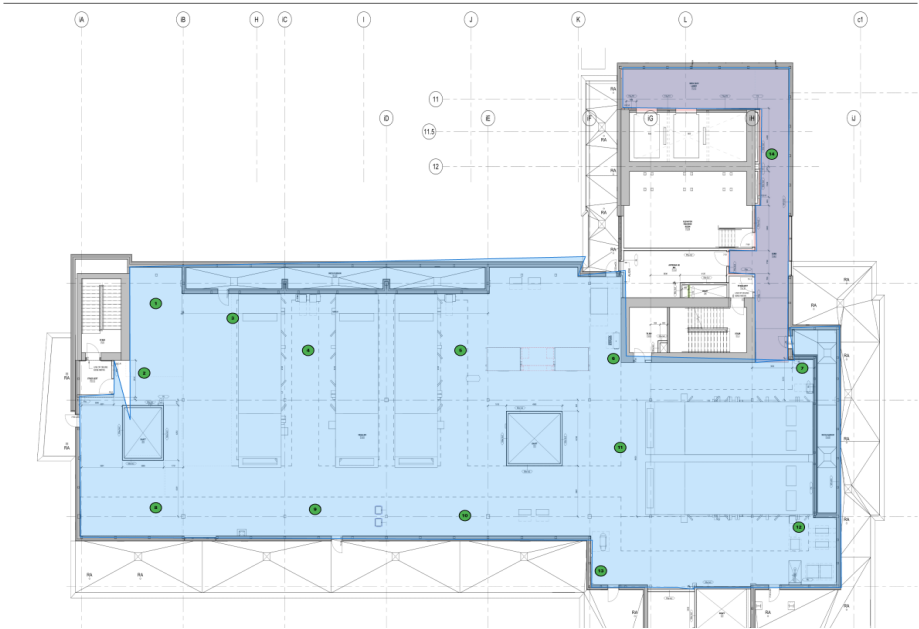


Job Name: Sample Job Name
Report Date and Time: DD/MM/YYYY Time HH:MM
Name Of Structure: Sample Name
Address Of Structure: 123 Any Street
Name of Testing Person: Technologist (778) 288-0410
Title of Testing Person: Technologist, SiteFox Surveying and Testing Ltd.
Address Of Testing Company: Address

Date: MMMM DD, YYYY

Relative Humidity (Rh) Test Information ASTM F2170-22

Floor	Test Location	Sensor Serial Number	Date/Time of Measurement	Hole Depth, mm.	Slab Thickness, mm.	Relative Humidity in Concrete, %	Temp in Concrete, °C.	Concrete Dew Point, °C.	Air Relative Humidity, %	Air Temp, °C.	Dew Point, °C.	Target RH, %	Electrical Impedence, %	Alkalinity (ppm test strip)	pH (pH = -log[H+])	Porosity Yes/No
L7	1	HA00001	2025-10-16 12:30:52	80	400	84.8	11.2	8.7	54.4	14.3	5.2	85.0	4.0	40	9.3	N
L7	2	HA00002	2025-10-16 12:34:28	80	400	70.2	11.7	6.4	58.1	13.4	5.3	85.0	4.3	40	9.4	Y
L7	3	HA00003	2025-10-16 12:39:08	80	400	87.1	12.0	9.9	59.8	13.1	5.4	85.0	5.3	40	9.5	Y
L7	4	HA00004	2025-10-16 12:48:51	80	400	90.3	11.4	9.8	63.8	12.5	5.8	85.0	6.5	80	9.6	Y
L7	5	HA00005	2025-10-16 12:54:57	80	400	75.6	11.3	7.2	64.5	12.3	5.8	85.0	4.3	80	10.0	N
L7	6	HA00006	2025-10-16 12:58:33	80	400	91.2	11.7	10.3	63.8	12.6	5.9	85.0	4.3	40	9.7	N
L7	7	HA00007	2025-10-16 13:33:42	80	400	93.6	11.6	10.6	65.1	12.6	6.2	85.0	4.0	80	9.8	N
L7	8	HA00008	2025-10-16 12:43:32	80	400	90.4	12.1	10.6	63.8	12.1	5.4	85.0	5.2	80	9.7	N
L7	9	HA00009	2025-10-16 12:46:05	80	400	90.0	11.6	9.9	64.5	12.2	5.7	85.0	4.4	80	9.8	N
L7	10	HA00010	2025-10-16 12:51:40	80	400	91.3	11.6	10.2	64.9	12.1	5.6	85.0	4.6	80	9.6	N
L7	11	HA00011	2025-10-16 13:01:14	80	400	88.7	12.1	10.2	65.7	12.6	6.3	85.0	4.0	80	10.2	N
L7	12	HA00012	2025-10-16 13:30:41	80	400	89.3	10.9	9.3	65.0	13.3	6.8	85.0	3.5	120	10.5	Y
L7	13	HA00013	2025-10-16 13:27:47	80	400	90.1	11.3	9.8	65.9	12.5	6.3	85.0	4.6	80	9.6	N
L7	14	HA00014	2025-10-16 13:36:49	80	400	84.4	14.1	11.5	64.6	13.2	6.7	85.0	3.3	80	10.5	Y
Average Values				80	400	86.9	11.8	9.6	63.1	12.7	5.9	85.0	4.5	71	9.8	



Glossary of Terms

Column 5, "Hole Depth, in/mm": This refers to the drilled depth of hole where the RH in-situ probe/sensor will be positioned during testing. The hole is a percentage of the slab thickness, and depends on whether the slab dries from the top (such as over a metal pan or vapor retarder) or from the top and bottom (as in a standard suspended slab with rebar). The hole is drilled at 40% depth for slabs drying on from the top and at 20% depth for slabs that dry from the top and bottom. Example, in a 5" thick on-grade slab over a vapor retarder, the drilled

Column 7, "Relative Humidity in Concrete, %": This value is the relative humidity (RH) provided by the probe/sensor that is inserted into the drilled hole, once it is confirmed that the RH does not drift more than 1% over 5 minutes. The Concrete slab should be conditioned prior to testing to a service temperature of 18-29°C, and the occupied air space above the floor slab shall be at service temperature and service relative humidity (40-60%) for at least 48 h before making relative humidity measurements in the concrete slab.

Column 8, "Temp in Concrete, °C/°F": This value is the temperature at the probe/sensor while the probe/sensor is inserted into the drilled hole.

Column 9, "Concreted Dew Point, °C/°F": This is the temperature during which moisture in the air is chilled enough by the top surface of the slab, resulting in condensation and absorption of ambient relative humidity into the top surface of the slab.

Column 13, "Target RH": This is the internal RH at the probe/sensor for the primary adhesive that is intended to be used for the project site. There is a Target RH (or maximum specified RH by the adhesive manufacturer) for each different adhesive. Each one of these should be reviewed to know the Target RH for each adhesive. If the Target RH is not achieved during testing, then the flooring contractor may choose a flooring adhesive that has a higher RH Target value that will be in compliance.

Column 14, "Electrical Impedance": This refers to a non-invasive concrete moisture meter that uses gravimetrics (oven dried test) as a baseline. Sitefox uses the Tramex CMEX5, which measures moisture content (percent of water by weight compared with the aggregate and cement) within the top 0.75" of the slab.

Column 16, "pH": In reference to ASTM F3441, this is the pH on the surface of a cleaned concrete surface (no laitance, paint, contamination, etc.). A drop of distilled water is applied to the cleaned concrete surface, and an electronic pH meter (EXTECH ExStik pH100) is designed to measure the pH on a surface (not in a container of liquid) after 60 seconds. This test is performed at each test location.

Column 17, "Porosity": In reference to ASTM F3191, a slab is considered absorptive (porous) when a drop of water absorbs completely into the slab within 60 seconds. The slab is considered non-absorptive (non-porous) when the drop of water takes longer than 60 seconds to absorb completely. Refer to the specific adhesive manufacturer for their absorptive rates, which be as much as 15 minutes to be considered absorptive.

Prior to testing, substrates should be at the service temperature and relative humidity expected during normal use or at the conditions required for installation of the floor covering material per the relevant manufacturer's specifications. If this is not possible, then the substrate and ambient temperature shall be 65-85°F (18-29°C) and the ambient humidity shall be 40-60% relative humidity.