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CM Measuring

Working Instructions

The CM measuring is used to determine the humidity level of the underfloor in order to set the proper floor laying date.
Max. permissible residual humidity, measured by the CM-meter:
Cement screed (CS): standard 2.0
Calcium sulfate or anhydrite screed: up to 0.3%

For underfloors with incorporated heating systems CM measurement samples will be taken only from the indicated places.
Cement screed (CS): standard 1.8
Calcium sulfate or anhydrite screed: up to 0.3%

The following measures should be considered before taking a sample:
- Check whether the CM moisture analyzer is airtight and replace the seal if necessary;
- Put 4 balls inside the moisture analyzer
- Attach the scales to the casing of the moisture analyzer;
- Prepare the mortar, the pestle and the spatula
- Draw up a certificate (indicating the site, floor, room, testing date, the person performing the test and the results of the tests)

The following measures should be considered when taking a sample:
- The samples must be taken and prepared as quickly as possible.
- During preparation, the samples must be kept away from sunlight and draft.
- The sample must be crumbled into sufficiently small pieces to allow the CM moisture analyzer grind it completely with its 4 balls.

Perform the test as follows:

1. The medium sample will be usually taken from across the entire section of the underfloor. The limit levels for parquet are determined according to the usual practice, by performing measurements from the bottom to the middle area. Therefore, before mounting, a medium sample should be taken from the bottom to the middle area of the underfloor.

2. Crush the medium sample in the mortar with a pestle to make it suitable for grinding by the balls of the CM moisture analyzer.

3. Weigh the sample using the spatula: Calcium sulfate underfloor – 100 g, fresh magnesia floor screed – 20 g, older floor – 50 g, fresh cement underfloor – 20 g, older underfloor – 50 g

4. Carefully introduce the sample to be tested in the CM moisture analyzer with balls. A funnel with a wide tube could be useful for this operation.

5. Hold the CM moisture analyzer in an inclined position and add a vial of calcium carbide.

6. Close the CM moisture analyzer and shake it strongly until the level indicated by the pressure gauge of the device rises.

7. By strong circular movements, the content will be completely ground by the balls inside the CM moisture analyzer. Time: approx. 2 minutes.

8. Five minutes after closing the CM moisture analyzer as indicated at the paragraph 7 above, shake the device for another minute.

9. Ten minutes after closing, shortly shake the device once more (10 seconds) and read the displayed value. Specify the humidity level from the chart of values in the test certificate. Note: a pressure increase may occur in case of calcium sulfate underfloors; this fact should be ignored, as it is caused by the hardened water.

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10. Empty and clean the humidity analyzer. Important: check the sample upon emptying. If the sample is not completely ground, repeat the test, taking a new sample and finely crushing it with the pestle.

11. Destroy the sample as instructed by the manufacturer.

Closing Instruction

This technical data sheet is based on an extensive experience and is meant to offer you best advice. Restrictions and warnings are included to prevent the risk of error. By their nature, these data sheets cannot consider all the possible uses and all the current and future characteristics, partly due to the great diversity of wood as a material. Therefore, the floor specialist must request information whenever in doubt, perform on-site tests on his own responsibility and perform all operations with extreme care. Furthermore, the data sheet does not provide information assumed to be known by specialists. The content of the data sheet is not legally binding and therefore cannot be taken as a basis for warranty and liability claims.

Feel free to contact the WEITZER PARKETT team for any additional questions.

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Certificate of humidity measurement according to the working instructions

Client:

Building/Site:

Building segment/sector:

floor/apartement:

Requirements

see the working instructions above

Documentation

Measurement No.	1	2[1]	3[1]
Room No.			
Test performed by			
Date			

[1] required only if the underfloor was too damp on the first measurement

Test result

Weight [g]			
Pressure [bar]			
Humidity rate[2] in %			

[2] from the calculation chart of the CM humidity analyzer manufacturer: equivalent to „% CM"

Confirmation

_____	_____	_____
Place/Date	Place/Date	Place/Date
_____	_____	_____
Owner/Client seal/signature	Site manager/architekt seal/signature	Flooring contractor/specialist seal/signature