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WK 369-02-06 Test on Aqua-Wall

SUMMARY

A prototype of Aqua-Wall (hereafter described as AW) has been tested for its' effect on humidity and its' general functioning.

With the first test AW changed the humidity of 40% RH to 60% RH in 1/2 an hour. This is a noticeable positive and strong effect.

In this way, there is a clear possibility to alter the air space's humidity with AW.

The adjustable plate that is mounted in order to regulate the sound of the falling water, has a beneficial effect on the conveyance of and, thereby, contact with - the air.

The contact between air and fluid is important for the ability to take in particles from the air.*

EXPERIMENTAL CONDITIONS

In the experiment a prototype AW floor model was used - which was set up in a room of 918 cubic ft. Before the experiment started, the room was not used for 12 hours, the temperature was 23 centigrade and the humidity was 38.5-41.0% during the whole period. It should be noted that the system with water standing still, does not give any noticeable influence on the air's humidity.

When the system is in operation, the effect is consequently large - 39.5-58.0% RH in 1/2 an hour.

Farum, the 1st. of March, 1990



Per Wolff

* It is shown with a TESTOTERM 4510 anemometer that 4236 - 5300 cubic ft. air space passes over a 2 ft. wide AW per hour.