

PLAINTIFF'S
EXHIBIT
USM-207

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

ADDRESS REPLY TO
NATIONAL BUREAU OF STANDARDS
WASHINGTON 25, D. C. 20234

January 27, 1964

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RECEIVED
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IN YOUR REPLY REFER TO FILE NO.
10.07

Mr. Frank M. Stumpf
Vice President - Research
Columbia Acoustics and Fireproofing
Stanhope, New Jersey 07874

Dear Mr. Stumpf:

Thank you for sending the samples of your products for preliminary tests using the Ro-Tap machine.

We have started tests on the two Sound-Shield specimens. The first specimen lost 0.0207 g in the first half hour and 0.8048 in the following 23-1/2 hours from an area of 50.27 sq. in. We have just started running the second specimen, on the same machine, and it appears from the first two or three measurements that it is going to behave in about the same way. We took weighings of the residue at one-hour intervals, and, although the rate of dusting had decreased toward the end of the test, material was still coming off at an average rate of about 0.01 grams per hour.

This is a far cry from the maximum of 0.020 grams per 7.5 sq. ft. (or per one sq. ft., whichever it's meant to be) mentioned in the CE-219.01 Guide Specification and leads me to suspect that the treatment afforded the specimens by the Ro-Tap may be too severe. We are going to have to experiment with other test methods of differing severity, by the modification of the Ro-Tap and by the use of other devices. For this purpose I need some more samples of the same material rather than of the three different products, made as nearly alike as you can make them.

Instead of cutting the samples in circles and clamping them in a ring as I discussed with Mr. Schneider, we merely clamped them over the top of a pan and collected what fell inside. This avoided the problem of sealing the edges. However, the 12-in. specimen was too wide to go in the machine and we had to cut 2-1/2 in. off one side.

I would appreciate it if you could supply me with six or eight more specimens of Sound-Shield, sprayed at the same time and cured under the same conditions and cut to 9-1/2 in. square.

Stumpf def
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We will, in the meantime, continue tests with the Heat-Shield and Blaze-Shield specimens.

Sincerely yours,

Howard T. Arni

Howard T. Arni, Materials Engineer
Inorganic Building Materials Section
Building Research Division

cc: Harry Schneider
Getty Browning