

LEAD INDUSTRIES ASSOCIATION, INC.

202 MADISON AVENUE

NEW YORK 17, N.Y.

SUBJECT TO REVISIONINDUSTRY DEVELOPMENT COMMITTEE'S
SUBCOMMITTEE ON SOUND AND
VIBRATION MEETING MINUTES

New York, N.Y.

May 8, 1963

A meeting of the Industry Development Committee's Subcommittee on Sound and Vibration was held on May 8, 1963, in the Board Room of the St. Joseph Lead Company, 250 Park Avenue, New York 17, N.Y.

PRESENT

J. R. Englehorn, Chairman
E. H. Gautschi

R. J. Hopkins

REPRESENTED

St. Joseph Lead Co.
The Consolidated Mining & Smelting Co. of
Canada Ltd.
The Broken Hill Associated Smelters Pty. Ltd.

OTHER MEMBERS

Aubrey Fletcher
C. R. Ince
R. D. Taylor

C. Tennant, Sons & Co. of New York
St. Joseph Lead Co.
American Smelting & Refining Co.

L.I.A. STAFF

Robert L. Ziegfeld, Executive Vice President
David M. Borcina, Secretary

L.I.L.R.O. STAFF

Sam E. Eck

The meeting was called to order at 10:20 A.M.

The minutes of the previous meeting of February 11, 1963 were approved.



Look Ahead with Lead

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BROKEN HILL TESTS

At the request of the chairman, Mr. Hopkins reported on the results of sound attenuating tests on lead conducted by the British Non-Ferrous Metals Research Association which are available only to the members of that group. He stated however that the tests confirm the results achieved by The Broken Hill Associated Smelters Pty. Ltd. and that they were made in accordance with the requirements of British Standard Specifications organization. Unfortunately, he pointed out, the tests were conducted on leaded plywood and plywood is not generally permitted in the United States for fireproof construction. A trend against the use of plywood for such construction is underway in Australia.

Mr. Hopkins further reported that his company is working closely with an Australian panel manufacturer in an attempt to develop a panel that would incorporate a free-hanging 2-lb. lead sheet.

OLYMPICO'S ACTIVITIES

Mr. Gautschi then reported on his company's activities as per Exhibit "A" attached.

RESEARCH GOALS

Mr. Taylor then reported that as a result of investigations he has conducted, the aim of this research should be for a wall that would provide a transmission loss of 50 db. Also that such a wall should be of minimum thickness, perhaps 2 in. or slightly more. He pointed out that there is considerable interest in dry-wall construction and that it is being used in many high-rise apartments. Such walls, he stated, are generally 4-1/8 in. thick with an open air space in the center and that they have a transmission loss rating of 46 db. Lead could possibly be incorporated in such walls to cut down overall thickness and still provide a competitive transmission loss figure.

The chairman then briefly reviewed the situation and suggested an order of priority on the various aspects of lead for sound attenuation.

He suggested the following order of priority with which the Committee agreed:

1. Ceiling Tile Applications
2. Movable Partitions
3. Dry-Hall Construction

Ceiling Tile Applications: It was pointed out that the results of Goodfriend's work with 1 lb. sheet lead over ceiling tiles indicate that there may be a sizable market for lead in this area. The major obstacle appears to be the overall availability of 1 lb. sheet lead in the United States.

It was then suggested that B.H.A.S. make available 1 lb. DN lead in the United States for experimental purposes only. Further that I.L.Z.R.O. contact acoustical ceiling contractors to determine if possible the maximum cost levels for

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1 lb. sheet lead that would keep such lead installations competitive. Also that I.L.Z.R.O. should order experimental quantities of 1 lb. DM sheet lead they may need as well as other weights for movable partition tests.

It was then brought out that B.H.A.S. could supply 1,000 to 2,000 tons a year of such sheet lead if a market develops in the United States. However, they do not wish to take over this market but hope that such an activity would serve as a stimulus to American manufacturers to produce DM sheet lead eventually.

Movable Partitions: The question of the best procedure to be followed in getting lead incorporated into movable partitions was then discussed.

It was the consensus that I.L.Z.R.O. select one or more manufacturers of existing partitions and incorporate lead in whatever manner may be necessary to improve the db ratings of such partitions.

Dry-Wall Construction: Lead in dry-wall construction was then discussed and it was the consensus that there may be possibilities in this area. It was pointed out that building codes in New York and Philadelphia and possibly other cities now permit the use of dry-wall construction.

The Committee felt however that I.L.Z.R.O. should not yet do anything on this type of wall.

There being no further business, the meeting adjourned at 12:20 P.M.

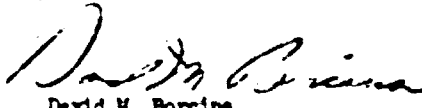

David M. Borcine
Secretary

Exhibit "A"

LEAD-LINED STEEL PARTITIONS

Co-operative Development Programme between
Cominco and Taymouth Industries Limited, Toronto

The purpose of the programme is to develop a high transmission loss, thin, lightweight, lead-lined standard steel partition system, which will be commercially available. The programme will consist of building experimental steel lead-lined panels and subjecting them to acoustical testing.

The following points outline the undertaking of each company.

1. Cominco will supply, at its cost, all lead sheet required.
2. Taymouth will contribute, at its cost, technical skills and design ideas.
3. Taymouth will fabricate, at its cost, the experimental panels, and crate them for shipment to the testing sites.
4. It is assumed that the NRC will install test panels at their facilities in Ottawa. If this is not the case, Taymouth will install, at its cost, the test panels at the NRC.
5. Screening tests of single test panels will be conducted in the United States and Cominco will pay for installation charges at the site selected by Cominco.
6. Cominco will pay for the cost of transporting the test panels to the testing sites in Canada or the U.S., and also the testing fees.
7. Taymouth will inform Cominco of their estimated production costs for the lead-lined steel partition system if it were to be produced on a commercial basis. These cost figures will be kept confidential by Cominco.
8. Cominco shall have the right to make public the results from this development programme and to use them in promoting the sale of lead sheet. Cominco will use the name of Taymouth Industries Ltd. during initial promotion.