PLAINTIFF'S EXHIBIT K-1131

MINUTES
of the
TECHNICAL & RESEARCH COMMITTEE MEETING
NATIONAL INSULATION MANUFACTURERS ASSOCIATION
Lake Placid, N. Y. September 20, 1963

The meeting was called to order at 9:15 A. M. with the following in attendance:

W. Acker	Johns-Manville Sales Corp.
D. Davis	The Ruberoid Company
C. E. Ernst	Johns-Manville Sales Corp.
W. Gubar	Gustin-Bacon Mfg. Co.
H. P. Hoopes	Fibreboard Paper Product Co.
W. T. Irwin	Pittsburgh Plate Glass Co.
F. Karklin	Mundet Cork Corp.
A. Kevlin	Owens-Corning Fiberglas Co.
W. Lotz	Owens-Corning Fiberglas Co.
R. Miller	The Ruberoid Company
V. L. Miller	Pittsburgh Corning Corp.
K. M. Ritchie	Baldwin-Ehret-Hill Inc.
J. M. Barnhart	NIMA

ECONOMIC THICKNESS STUDY (COLD)

It was the consensus of the Committee that

1. The industry can perform a useful service by making the study available to engineers, architects, educational institutions, etc., (microfilm for example).

2. The Manual is technically valid.

3. The Manual is not useful in its present form due to the limiting number of cases that economic thickness prevails over condensation thickness.

4. The Manual should be modified and include data relative to condensation.

The Committee's thoughts will be conveyed to the Board of Directors.

USE OF "D" FACTORS (ECONOMIC THICKNESS STUDY (HOT))

The table dated 11/19/62 was discussed. It was brought to the attention of the Committee that they were to be used as a guide when revising individual company literature pertaining to recommended thicknesses.

One company suggested the following note to be included in thickness recommendations as follows:

"Tabulated thicknesses are optimum thicknesses calculated on an economic* basis for heat conservation under average operating conditions and assure adequate temperature control. Other conditions may warrant the use of other thicknesses."

*From "Hot to Determine Economic Thickness of Insulation" - National Insulation Manufacturers Association.

This subject has been concluded and will be removed from future Agendas.

QUALITY ASSURANCE PROVISIONS IN SPECIFICATIONS

With respect to sampling, packaging, inspection levels and assurance quality levels, that appear in specifications, it was deemed necessary that the industry select proper levels of inspection, etc., that it feels is equitable to all concerned.

This subject will be placed on the Agenda of the next Committee Meeting and definite conclusion will be reached on this subject at that time.

BRAB REPORT - THERMAL INSULATION THICKNESS CHARTS

This publication was reviewed and thought to be constructive in nature. Many references to the NIMA Economic Thickness Manual are made.

STANDARD METHODS OF TESTS

The Table dated 6/1/63 was discussed. Several minor changes were noted. This Table will be sent to the General Services Administration for consideration.

TEST FOR CONSISTENCY (ASTM C 405)

This subject was discussed and it was agreed that the action taken at the ASTM C-16 Subcommittee S-III meeting would in all probability, settle any divergence of opinion that may exist.

This subject will be removed from the Agenda of the Committee.

DEFINITION OF MINERAL FIBER

A suggestion was made to revise the definition of mineral fiber that now appears in ASTM C-449 to allow natural fibers to be a part of the specification.

A letter ballot will be sent to all concerned prior to November 1, to ascertain whether the specification should be broadened to include natural fibers, or whether a separate specification should be written to cover the product.

OTHER BUSINESS

(a) It was the consensus that NIMA write a recommended practice pertaining to jackets and facings and submit it to ASTM Committee C-16 for their consideration.

(b) Mr. Barnhart was asked to contact AMA and IBI and try to determine whether or not the results obtzined on products tested at Northbrook, Ill., seem to be of a higher classification (flame spread) than those obtained in the older tunnel.

(c) A group consisting of Messrs. K. M. Ritchie, A. Kevlin, H. P. Hoopes, C. E. Ernst and J. M. Barnhart was appointed to talk to A. Graul pertaining to the philosophy of classifying products according to jackets.

(This was done and it was A. Graul's opinion that a separate jacket spec would be considered or perhaps the jacket part of the spec could be references. W. Lotz will prepare a draft of a jacket spec and C. E. Ernst will prepare a draft of HH-I-523 with the jackets as an inner part of the spec rather than as classifications. These drafts are to be discussed at the next scheduled Government T & R Committee Meeting).

ADJOURNMENT

There being no further business, the meeting was adjourned.

Respectfully submitted

J. M. Barnhart