

MINUTES
of the
GOVERNMENT TECHNICAL & RESEARCH COMMITTEE MEETING
NATIONAL INSULATION MANUFACTURERS ASSOCIATION
Washington, D. C. April 29, 1964

Land Session

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

W. Y. Loux	GSA Public Buildings Service
E. L. Brogini	Office Chief of Engineers
F. J. Powell	National Bureau of Standards
R. E. Lyons	General Services Administration
H. C. Speel	Department of Agriculture - ARS
J. S. King	Veterans Administration
F. A. Govan	Building Research Advisory Board
C. Herreshoff	Bureau of Ships
W. E. Miller	Pittsburgh Corning Corp.
R. P. Austin	Gustin-Bacon Mfg. Company
C. E. Ernst	Johns-Manville Sales Corp.
A. C. Pecora	Pittsburgh Plate Glass Co.
K. M. Ritchie	Baldwin-Ehret-Hill Inc.
S. K. Heard	Owens-Corning Fiberglas Corp.
Burt Tower	Johns-Manville Sales Corp.
V. L. Miller	Pittsburgh Corning Corp.
J. M. Barnhart	NIMA

PROPOSED REVISIONS TO FEDERAL SPECIFICATION FOR INSULATION
BLOCK & PIPE COVERING, THERMAL (CALCIUM SILICATE FOR
TEMPERATURES UP TO 1200F (HH-1-523)

Considerable discussion revolved about specifying the pipe insulation classified as to jackets. It was the consensus that the specification would serve a more useful purpose if pipe insulation was classified according to jackets.

The following additional changes are to be made:

1. Par. 3.1 - Certification - This paragraph will be rewritten for editorial clarification.
2. Table I - Physical Requirements - A "k" value to be added to 100F mean.

3. Par. 3.4.3.2 - Canvas Jacketed - A nominal minimum weight of canvas of 1.85 oz/lin yd will be added.
4. Par. 3.4.3.4.1 - Flame Spread Index - Title will be changed to "Surface Burning Characteristics" (to conform to ASTM E 84 title) and a smoked developed rating of no greater than 50 is to be added.
5. Par. 3.4.3.4.2 - Puncture Resistance - The puncture resistance is to be reduced from 50 to 30.

The wording relative to AQL levels is to be changed for editorial clarification.

6. Par. 4.3.21 - Water Vapor Transmission - "Procedure E" was added to ASTM E 96.
7. Par. 6.1 - Intended Use - The word "elevated" is to be added.

PROPOSED FEDERAL SPECIFICATION INSULATION FELT, THERMAL
(ACOUSTICAL MINERAL FIBER, DUCT LINING MATERIAL)

It was suggested that the word "Acoustical" be taken out of the parenthesis, and the word "Thermal" be inserted within the parenthesis.

Par. 3.4 - Flexibility - Change to read "---on the air stream surface---".

Par. 3.14 - Thermal Conductivity or conductance - Show a "C" as conductance symbol.

Table II - Sound Absorption Coefficients - Add values for 2-1/2" and 3" thick materials, where applicable.

Par. 3.16 - Tolerances - Add a plus tolerance of 1/4".

Par. 4.3 Tests - Change to read "---shall be conducted on material surfaces intended for exposure---".

Par. 4.3.5 - Add "according to the manufacturer's recommended instructions" to the first sentence. Change the second sentence to read "--- as follows: Air, at the manufacturer's maximum recommended temperature shall ---". Change the third sentence to read "--- temperature and at the manufacturer's recommended maximum velocity ---".

Par. 4.3.12 - Flexibility - Change to conform to HH-I-00558 and HH-I-00559 and adding "bent toward the air stream side".

FIBROUS GLASS DUCT SYSTEMS

F. Govan stated that BRAB is undertaking a study for the Federal Construction Council pertaining to duct systems, duct insulation and, duct liners. The study will include investigation of the physical, thermal, chemical and fire characteristics of these materials. NIMA offered to supply BRAB information on these products, if they desired.

After considerable discussion on fibrous glass duct systems, it was ascertained that NIMA could be of help to various government agencies if they could write a basic material and performance specification.

STANDARD CANVAS

It was iterated that the following minimum weights (nominal) of canvas are standard for pipe insulation:

Fibrous Glass	2.3 oz/lin yd
Magnesia	1.85 oz/lin yd
Calcium Silicate	1.85 oz/lin yd
Diatomaceous Silica	1.85 oz/lin yd

SURFACE BURNING CHARACTERISTICS

It was ascertained that the great majority of government agencies required a fire hazard classification rating of less than 25 flame spread and less than 50 smoke developed for specification purposes.

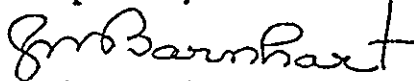
OTHER BUSINESS

- (a) It was stated that if NIMA standards for pipe insulation jackets could be established, it would be helpful.
- (b) It was stated that if tables of cold insulation thickness based on common ambient conditions, etc., were developed it would be useful.
- (c) It was stated that HH-I-00558 and HH-I-00559 would, in all probability, be issued for procurement by the end of the summer.

ADJOURNMENT

There being no further business, the meeting was adjourned.

Respectfully submitted


J. M. Barnhart