



MINUTES
of the
TECHNICAL & RESEARCH COMMITTEE MEETING

Molded Section

NATIONAL INSULATION MANUFACTURERS ASSOCIATION
Chicago, Ill. February 9, 1960

Chairman E. C. Shuman called the meeting to order at 9:45 A.M. with the following in attendance:

E. C. Shuman, Chairman	Owens-Corning Fiberglas Corp.
L. L. Collogne	Mundet Cork Corp.
M. E. DeReus	Union Asbestos & Rubber Company
W. D. Gaches	Johns-Manville Sales Corp.
W. R. Seipt	Keasbey & Mattison Company
E. W. Torbohn	Fibreboard Paper Products Corp.
R. C. Parlett	National Insulation Mfrs. Assn.

REVISIONS TO TABLE I, CHAPTER 32, ASHRAE GUIDE

After reviewing the values previously agreed upon for molded material for use in this table, it was decided to make no further changes in the previously proposed conductivities. However, it was decided that the density column should be designated "Typical Density" and show two figures in all cases instead of a single value.

Also some density values were changed slightly from previous figures. Final figures for densities and conductivities were as follows:

1. <u>Blocks Board & Pipe</u> Material (composition)	Accepted	Typical							
	Max. Temp. for Use F.	Density pcf	"k" Value at Mean Temp. F.						
			100	200	300	500	700	900	
Molded (Amosite & Binder)	1200	15-18	0.32	0.37	0.42	0.52	0.62	-	
Calcium Silicate	1200	11-13	0.32	0.37	0.42	0.51	0.62	-	
Diatomaceous Silica	1600	21-22	-	-	-	0.66	0.70	0.74	
Diatomaceous Silica	1900	23-25	-	-	-	0.71	0.75	0.80	
85% Magnesia	600	11-12	0.35	0.38	0.42	-	-	-	
2. <u>Insulating Cement</u>									
85% Magnesia	600	15-18	0.50	0.55	0.60	-	-	-	

REVISIONS TO TABLE I, CHAPTER 32, ASHRAE GUIDE (cont'd.)

The Committee suggested that Mr. Barnhart circularize NIMA members for appropriate values of temperature (max), density and conductivities of the other materials shown in the table which many of them either manufacture or sell such as hair felt, laminated and corrugated asbestos, corkboard, plastics, rubber, etc., so that these are brought up to date stressing that density show a range instead of a single figure.

CORPS OF ENGINEERS SPECIFICATION 301, 21 Draft 12 Aug 1959

It was determined after discussion that the two copies of the spec which Mr. Barnhart sent to members for noting on the copies their comments, were still going around among NIMA Committee as Messrs. Gaches and Collonge had not received it. Only Mr. Shuman had comments of which Mr. Barnhart had a copy. Mr. Shuman read his comments and discussed them. He advised that the inclusion of "Tile conduit" with loose-fill insulation in the specification for Class B systems was done after Yukon Industries tile conduit system using glass fill packed to between 7.5 to 10 lb density had successfully passed the tests including the drying out test.

Mr. Shuman reviewed Mr. Barnhart's letter of November 18, 1959, to the Corps of Engineers in which NIMA brought to their attention some major objections particularly the number of tests involved. In this letter NIMA asked the Corps to withhold issuing the spec in final form until NIMA could study it further. It was agreed that all members should comment on the spec to Mr. Barnhart promptly so that these could be summarized and the more important objectives outlined in a letter to the corps after consulting all members.

FEDERAL SPECIFICATION - Thermal Insulating Cement - HH-I-00500

Discussion brought out that this specification issued in 1956 and still in interim form includes in one specification all five types of insulating and finishing cements and uses the same values and methods of tests as ASTM specification for the individual cement types.

Discussion as to the real need for and use of this specification brought out these objections to its form -

1. No information is given as to the use of each cement from which a user could select the most suitable.
2. With five types in one spec it becomes obsolete as soon as one cement changes or is improved.
3. Federal individual specs are already in existence for several of these cements so that a combined spec is not needed.

FEDERAL SPECIFICATION - Thermal Insulating Cement - HH-I-00500
(cont'd.)

The Committee suggests that Mr. Thomasson be advised of the above facts and recommend that a separate specification be written or revised for each type of cement. This can be done quickly by following the individual ASTM specs on these cements all of which have recently been brought up to date including a new one on hydraulic setting mineral wool cement.

STATUS OF SPECS. HH-I-554, MIL-I-2781c, MIL-2819A

The status of these specifications was reported to be as follows:

HH-I-554 - 85% Magnesia

General Services Administration had advised Mr. Barnhart by letter that NIMA's comments had been received and the revision was being undertaken and to be sent out to Government agencies for comment the last quarter of 1959. No further word has been received from GSA at this time.

MIL-2781c - Pipe Insulation

As of December 28, 1959, Mr. Chilcote - Bureau of Ships had advised Mr. Barnhart that revision should be processed in Navy Spec Section in about two weeks and printed in about two months and as soon as it was out he would send copies. No copies have been received up to this time.

MIL-2819A - Insulation, Block, Thermal

December 7, 1959, Mr. Barnhart wrote to the Bureau of Ships (Attention Mr. Chilcote) giving NIMA suggested revisions to this specification. Since as of this date NIMA has not been advised of the status, the Committee suggested a follow up letter be written to Mr. Chilcote asking that it be expedited.

Respectfully submitted

R. C. Parlett