



MINUTES
of the
TECHNICAL & RESEARCH COMMITTEE MEETING
NATIONAL INSULATION MANUFACTURERS ASSOCIATION
New York, N. Y. September 30, 1965

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

1. The condensation thickness tables dated 6.1.65, with correction of minor typographical errors, were accepted for uniform presentation by the members in sales literature. It was agreed that the 3 pcf or 7.5 pcf table would be used in accordance with the product manufactured, and adjusted only in accordance with thicknesses produced. A note will be written covering the basis for the table, i.e., method of calculation, surface resistance of 0.65 (starts with resistance ratio to new flat or equivalent thickness and rereading of pipe thicknesses), ASHRAE k values, and a caution that for other than listed ambient conditions specific calculations must be made.
2. J. M. Barnhart reported on September 29 meeting of the Task Group on Mechanical Design of Air Duct Systems. The Task Group agreed on Mechanical Design Committee Report standard constructions for straight duct and fittings, and tentatively agreed to a method of reinforcement for rectangular ducts in accordance with spans and pressures, subject to presentation of supporting data by J-C and review by the Task Group.
3. As indicated in the Minutes of the Government Technical & Research Committee Meeting of July 14, 1965, dissatisfaction was expressed by various Government agency representative with HH-I-00558 and HH-I-00559, Mineral Fiber Insulation for Elevated and Low Temperatures, which were entirely referenced to ASTM Material Specifications. This resulted in a complete rewrite of both specifications for the first time essentially in accordance with the first NIMA drafts presented.

Draft copies were received for review within the week before the meeting, as well as a list of eight questions presented by Messrs. Lyons and Mills of GSA for consideration by the Committee. The questions and Committee agreement on answers were as follows:

1. Compressive Strength - Compressive strength for Type I Class A would be an added improvement. NIMA should be advised as to when required. Breaking strengths are believed adequate as now included.

It was agreed that members would run compression tests with 2.5 pcf preload to determine loads to 10% deflection for materials covered by Type I Class A. Results will be circulated for letter ballot prior to the next T & R meeting.

2. Rigidity Requirement - The rigidity requirements are adequately spelled out by the NIMS section 1.2.1 which should be reinstated.
3. Facing - At this time believe that facings should be removed from specification (except metal-mesh covered blankets), pending review of proposed GSA facing and jacketing specification.
4. Types of Bands - This is a material specification. Section 3.5.1.3 should be deleted. Add reference in 6.2, Form C, Type I, whether bands are required and if required, what type.
5. Flame Spread Classification as per ASTM E84 - Yes, with maximum 25 flame spread, 50 smoke developed.
6. "FEMA" Classifications - Change F-1 to 2.5 to 4.5 and F-2 to 4.5 to 6.0 (per ASTM C-553).
7. Blanket density for pipe - minimum 1.5 pcf, product no longer available. Delete Form C, Class A.

A suggestion was made that in HH-I-00558 Form A - Blocks and Boards, Rigid, Type I - Organic Bonded, Class b, be increased from 700 to 1000F maximum use temperature. After some discussion, it was agreed that 700F be retained for Class b, and that Class a, - for use up to 1000F be added. It was also agreed that Type II - Inorganic bonded, include Class a, for use up to 1000F and Class b, for use up to 1800F.

In addition, it was found that parts of the NIMA draft were rewritten, which in some cases changed the meaning or intent. These and other minor corrections are to be reviewed with R. Lyons at a time to be arranged by J. M. Barnhart.

Recommended changes in NRM-I-00545 will be held pending receipt of draft revision.

4. ASTM C-373, Mineral Fiber Block or Board - Thermal Insulation for Low Temperatures, was reviewed. Since the higher density products covered by this specification are no longer available, it was agreed that cancellation be recommended. Other products which may be used are covered by C-553.
5. The need for a Military Specification for Mineral Fiber Block was discussed. P. L. Losse will submit a draft for Committee consideration.
6. J. M. Barnhart advised the Committee that they would receive copies of Insulation Systems, Feasibility Study and Development, by J. F. Boyle of the Naval Boiler and Turbine Laboratory, Philadelphia Naval Shipyard. Members are to review and comment to NIMA.

Respectfully submitted

C. E. ERNST