

MINUTES  
of the  
TECHNICAL & RESEARCH COMMITTEE MEETING  
NATIONAL INSULATION MANUFACTURERS ASSOCIATION  
New York, N. Y. September 17, 1964

Rock & Slag Section

Glass Section

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

|                |                               |
|----------------|-------------------------------|
| W. Gubar       | Gustin-Bacon Mfg. Company     |
| K. M. Ritchie  | Baldwin-Ehret-Hill, Inc.      |
| T. C. Campbell | Owens-Corning Fiberglas Corp. |
| C. E. Ernst    | Johns-Manville Sales Corp.    |
| P. L. Losse    | The Eagle-Picher Company      |
| H. Grant       | Gustin-Bacon Mfg. Company     |
| J. M. Barnhart | NIMS                          |

THICKNESS TO PREVENT CONDENSATION

The Table dated 7/27/64 was discussed. It was noted that there were discrepancies in break points as listed by the various companies.

Mr. Barnhart was asked to prepare a table of thicknesses based on "k" values taken from the ASHRAE GUIDE and to use "Minimum Insulation to Prevent Condensation" as a basis of calculation. The design conditions to be

1. 90 F and 90% R H
2. 90F and 80% R H
3. 90F and 70% R H
4. 90F and 60% R H
5. 90F and 50% R H

In order to determine whether a difference in condensation thickness exists between the 3 pcf and 7-1/4 pcf products the calculations will be made separately for both products.

\* \* \* \* \*

The letter from FHA pertaining to condensation thicknesses was discussed. It was agreed that a "Minimum Thickness to Prevent Condensation" should be used as the basis and a copy will be forwarded to them for their use.

## STANDARD FACINGS FOR BLANKETS

It was agreed that the Table dated 4/28/64 was technically correct. However, the Committee recommends that preconditioning of the material should take place prior to testing for flame spread and smoke developed. The preconditioning should take place at 100 F and 90% R H for 7 days. A copy of the "Minimum Standard" dated 9/17/64 is attached.

## PROPOSED FEDERAL SPECIFICATIONS HH-I-00558 and HH-I-00559

These specs were discussed and the following agreed to

1. Under Form II materials, Type IV - Blankets, resilient, flexible - eliminate the 250F and 500F temperature limits that now appear and substitute one class, namely 350F. GSA will be written to requesting this change.
2. Under Form III materials, Type VII - Molded - establish 3 classes of materials, 370F, 500F and 1000F, in place of the existing two classes. A letter ballot will be sent to the Glass Section pertaining to this change.
3. Under Form I materials, Type I, class a, change "k" values to 0.28, 0.33 and 0.42 at 100F, 200F and 300F mean temperature, respectively.

Add a class c material, 1000F temperature limit with "k" values of 0.36, 0.40 and 0.60 at 200F, 300F and 500F mean temperature, respectively.

A compressive strength requirement for class a material of 30 lb/ sq ft under a preload of 2.5 lb/ sq ft.

These changes will be letter balloted to the Committee.

4. In Table IV it will be ascertained by letter ballot whether "k" values for the fine fiber material at 200F mean temperature of B-1 material can be changed to 0.47 and the B-2 material can be changed to 0.43.
5. In HH-I-00559, a letter ballot will be made to the Committee to ascertain whether a compressive strength of 100 lb/ sq ft under a preload of 0.7 lb/ sq in. is acceptable for Form A material.

STANDARD FACINGS FOR PIPE INSULATION

This subject was tabled for the present.

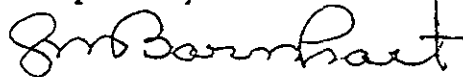
DUCT ENGINEERING

Mr. W. Gubar and H. Marsh are to prepare an initial draft of "Mechanical Design of Duct Systems" for Committee perusal.

ADJOURNMENT

There being no further business, the meeting was adjourned.

Respectfully submitted

  
J. M. Barnhart

9/17/64

PROPOSED NIMA  
RECOMMENDED MINIMUM STANDARD FOR FIRE RESISTANCE FACINGS FOR BLANKET PRODUCTS

| NIMA<br>TYPE | PRODUCT          | PUNCTURE<br>RESISTANCE<br>ASTM D 781<br>(Min.) | W.V.T<br>PERMS                  |                     | FIRE RESISTANCE |      |
|--------------|------------------|------------------------------------------------|---------------------------------|---------------------|-----------------|------|
|              |                  |                                                | ASTM E 96<br>METHOD B<br>(Max.) | ASTM E 84<br>(Max.) | F.S.            | S.D. |
| I            | 0.002" Al. Foil  | 15                                             | 0.02                            | 25                  | 50              |      |
| II           | Foil Scrim Kraft | 30                                             | 0.02                            | 25 **               | 50 **           |      |
| III          | Vinyl Scrim Foil | 30                                             | 0.02                            | 25 **               | 50 **           |      |

\* Condition sample at 100F & 90% R H for 7 days prior to testing.

\*\* Kraft or vinyl side exposed to flame source.