


MINUTES
of the
TECHNICAL & RESEARCH COMMITTEE MEETING
Rock and Slag Section
NATIONAL INSULATION MANUFACTURERS ASSOCIATION
Princeton Inn Princeton, N. J.
May 26, 1959

The Chairman called the meeting to order at 10:00 A. M. The Glass Section met jointly with the Rock and Slag Section for consideration of ASTM Specifications C 264 and C 382.

In attendance were:

R. C. Parlett, Chairman of Technical Committee
J. M. Barnhart, Executive Secretary NIMA

| Rock and Slag Section | Glass Section |
|---|---|
| K. M. Ritchie, Chairman | M. W. Keyes, Chairman |
| H. E. Lewis | W. Gubar |
| P. L. Losse (for A. L. Jones) | V. L. Miller |
| | D. E. Morganroth |

I. REVIEW OF EXISTING SPECIFICATIONS

(a) Draft 4-6-59. Proposed Revision ASTM C-264-55T.

Changes were discussed and proposed as detailed in Appendix A attached.

In addition the Secretary was requested to obtain expression from the Association membership as to the desireability of adding 60" length and 30" width to the standard sizes for Type 2 - Felts (Semi-rigid).

After discussion as to the unsatisfactory wording of the "workmanship" paragraph (No. 7) it was recommended that the Secretary request revision from ASTM Committee C-16 to eliminate the possible interpretation as to the manufacturer's responsibility for the installed condition of the insulation. Such revision should be incorporated in all specifications.

REVIEW OF EXISTING SPECIFICATIONS (Cont. 'd).

(b) Draft 4-1-59. Proposed Revision ASTM-382-56T.

Changes were discussed and proposed as detailed in Appendix B attached. These included all applicable portions of Appendix A.

(c) Proposed Revisions ASTM C-262.

Specific tiems discussed and agreed upon were -

(1) Change the last sentence of paragraph 5 to read "Thicknesses over 3 inches may he obtained".

(2) Paragraph 8 on Sampling should be changed to read - "The mineral wool industrial batt insulation shall be sampled for the purpose of tests in accordance with ASTM C-390-57T".

(3) Paragrapj 10 on Rejection should be revised to correspond with the paragraph on Rejection in Appendix A.

In addition i t was recommended that the headings and format be changed to correspond with those in Proposed Revision to ASTM C-264-55T.

(d) Proposed Revision to ASTM C-263-54.

Specific items discussed and agreed upon were

(1) Change paragraph 6(a)(1) to read "Woven wire mesh, I-in. galvanised, No. 18 or 20 gage wire".

(2) Paragraph 8 on Sampling should be changed to read - "The mineral wool blanket insulation, (metal-mesh covered, industrial type) shall be sampled for the purpose of tests in accordance with ASTM Designation C-390-57T."

(3) Paragraph 10 on Rejection shall be revised with paragraph in Appendix A.

In addition it was recommended that the headings and format be changed to correspond with those in Proposed Revision to ASTM C-264-55T.

(e) Mineral Wool Blanket Type Pipe Insulation ASTM C-280.

Specific items discussed were

(1) Paragraph 1 Scope should be revised to include a maximum temperature limit.

(e) Mineral Wool Blanket Type Pipe Insulation ASTM C-280 (Cont'd.)

(2) Paragraph 4(b)(3) should be changed to more correctly describe the width, since the presently given formula does not strictly apply.

(3) Paragraph 6(a)(1) should be revised to read - "Woven wire mesh, 1-in. galvanized mesh".

Since some manufacturers offer a product differing in details from that described, further consideration of this specification will be necessary before a new draft can be prepared.

(f) Insulation, Thermal Block (MIL-I-2819).

It was agreed that since no mineral wool block is currently acceptable under this specification, no action can be taken at this time.

II. Federal Specification HH-I-564

It was recommended that revision of this specification be added to the agenda of future meetings to eliminate the 225F class.

III. Recommended Thicknesses

This item was discussed, but no specific recommendations made, since joint action of the entire Technical Committee will be necessary.

IV. The Rock and Slag Section Meeting was adjourned at 4:30 P. M.

K. M. Ritchie
Chairman

APPENDIX A

Changes to ASTM C-264, Draft of 4-6-59

1. Scope Insert "and maximum" after "minimum".
Insert "limits" after "temperature".

2. Paragraph 2a. First sentence - delete comma after "fibers". Delete everything after "faced". Second sentence delete comma after "fibers". Change "with added binder" to "with binder added".

Paragraph 2c. Change "Finish" to "Facings". Change first sentence to read "The purchaser shall specify whether the blanket or felt insulation shall be supplied plain or faced and if faced shall specify the degree of water vapor resistance required."

Change second sentence to read

"Typical facings are

.022" aluminum foil
.001"aluminum foil
.004" vinyl (aluminum-pigmented)
Reinforced duplex Kraft paper
Reinforced foil-faced Kraft, flame-resistant

3. Paragraph 3 Change heading to read "Types and Classes".
Change first sentence to read "Standard types and classes of mineral wool blanket and felt insulation, based on nominal Change Taale as follows:

Table I - Types and Classes

| Type I - Blankets (Flexible) | | Type 2 - Felts (Semi-rigid) | |
|---|---|---|---|
| Class | Nominal Density lb/cu ft | Class | Nominal Density lb/cu ft |
| B-1 | 0.5 | F-1 | Under 6.0 |
| B-2 | 0.75 | F-2 | 6.0 and over |
| B-3 | 1.0 | | |
| B-4 | 1.4 | | |
| B-5 | 2.0 | | |
| B-6 | 3.0 | | |

4. Paragraph 4 Change sentence to read"The type, class and facing suited to the conditions of intended service -----".

5. Paragraph 5b Insert "or roll" after "piece".

6, Table II Change headings as follows:

| "Type - 1 Blankets (Flexible) | | | | | Type 2 - Felts (Semi-rigid) | |
|---|---|---|---|---|---|---|
| Classes | Class | Class | Class | Class | Class | Class |
| B-1 and B-2 | B-3 | B-4 | B-5 | B-6 | F-1 | F-2 |

7. Paragraph 5g Change sentence to read - "Where specified blanket and felt insulation shall contribute------".

8. Table III Change headings to read

"Type 1 - Blankets (Flexible) Type 2- Felts (Semi-rigid)

- Under Type 1 Blankets delete 54" width
- Under Type 1 Blankets delete 2-1/2" and 3-1/2" thicknesses
- From membership, get expression as to desireability of including 60" length and 30" width for Type 2- Felts.

9. Paragraph 6 - After "Lengths" change "a" to asterisk (note). Change note to read "Rolls of Type 1 blanket insulation -----".

10. Paragraph 7 Refer "Workmanship paragraph to C-16, to obtain better wording to eliminate the possible interpretation as to responsibility for <u>installed</u> condition.

11. Paragraph 8 Insert "Designation" after "ASTM" in two places

12. Paragraph 10(a) Change sentence to read "----supplier, mineral wool blanket and felt insulation shall be packed ----".

13. Paragraph 10(b) Change sentence to read"Unless otherwise specified containers shall be marked with the supplier's name and designation, type, class, size, thickness and quantity of material in the container".

14. Paragraph 11 Change sentence to read "When and as agreed by the purchaser ----".

15. Paragraph 12 Change to read "If the sample fails to conform ---". Change sub-headings to read "(a), (b) and (c).

## APPENDIX B

### Changes to ASTM C-382, Draft of 4-1-59

1. Paragraph 2 (a) First sentence - delete comma after "fibers".
Second sentence - Change "with added binder" to "with binder added".

(c) Change "Finish" to "Facings". Change first sentence to read "The purchaser shall specify whether the blanket or felt insulation shall be supplied plain or faced, and if faced shall specify the material".

Change second sentence to read

"Typical facings are

.002" aluminum foil
.001" aluminum foil
Asbestos paper "

2. Paragraph 3. Change heading to read "Types and Classes".

Change first sentence to read "Standard types and classes of mineral wool blanket and felt insulation, based on nominal density are as shown in Table I."

Change Table I as follows:

| Type I - Blankets (Flexible) | | Type II - Felts (Semi-rigid) | |
|---|---|---|---|
| Class | Nominal Density lb/cu ft | Class | Nominal Density lb/cu ft |
| B-1 | 0.5 | F-1 | Under 6.0 |
| B-2 | 0.75 | F-2 | 6.0 and over |
| B-3 | 1.0 | | |
| B-4 | 1.5 | | |
| B-5 | 2.0 | | |
| B-6 | 3.0 | | |

3. Paragraph 4. Change sentence to read "The type, class and facing suited to the conditions of intended service -----".

4. Paragraph 5 (b) Insert "or roll" after "piece".

5. Table II, change headings to read as follows:

"Type 1 - Blankets (Flexible) Type 2 - Felts (Semi-rigid)

| Classes | Class | Class | Class | Class | Class | Class |
|---|---|---|---|---|---|---|
| B-1 and B-2 | B-3 | B-4 | B-5 | B-6 | F-1 | F-2 " |

6. Table III. Change headings to read --

"Type 1 - Blankets (Flexible) Type 2 - Felts (Semi-rigid)"

Under Type 1 - Blankets , delete 54" width
Under Type 1 - Blankets, delete 2-1/2" and 3-1/2" thicknesses

7. Paragraph 6 (b) After "Lengths" change "a" to asterisk (note), Change note to read "Rolls of Type 1 Blanket insulation ----".

8. Paragraph 8 Insert "Deisgnation" after "ASTM" in two places.

9. Paragraph 10 (a) Change sentence to read "---supplier, mineral wool blanket and felt insulation shall be packed ----".

10. Paragraph 10 (b) Change sentence to read "Unless Otherwise specified container shall be marked with the supplier's name and designation, type, class size, thickness and quantity of material in the container,"

11. Paragraph 11 Change sentence to read "When and as agreed by the purchaser".

12. Paragraph 12 Change to read "If the sample fails to conform ---". Change sub-headings to "a", "b" and "c".