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VERMICULITE INSTITUTE

25th ANNUAL MEETING

CHANDLER, ARIZONA

MARCH 1966

PLASTER COMMITTEE

A. W. Dambros, Chairman

L. A. Barron
J. H. Greer
M. Malter

R. B. Moran
E. L. Parrine
D. M. Stewart

MDQ018



PLASTER COMMITTEE MEETING

Chicago, Illinois

January 25-26, 1965

Made final revisions on 1965 Vermiculite Institute
"Fire Resistance Ratings."

Resume of additional testing requirements to maintain a competitive position.

A. Two - 3 beam tests.

B. Floor tests with new types of decking
or reduced Mono-Kote thicknesses.

Discussion with Mr. Parks of Underwriters' Laboratories, Inc. regarding proposed testing and anticipated results.

Review of Vermiculite Institute Convention program.

143302

COLUMN FIRE TEST

Underwriters' Laboratories, Inc.

March 26, 1965

**A 14WF 228# column protected with 2" of Type MK
passed and will be granted a 4-hour rating.**

143303

PLASTER COMMITTEE MEETING

Point Clear, Alabama

April 27, 1965

Three beam test details were finalized.

Recommended two (2) sound absorption tests on
pan joist construction protected with Type MK.

A 2-hour column test on a 14WF 228# column was
recommended.

Development of Type MK-4 was urgently recom-
mended.

A new floor test on 1-1/2" decking with trench
headers was proposed.

Additional and probable future testing was
discussed.

143304

COLUMN FIRE TEST

Underwriters' Laboratories, Inc.

June 29, 1965

A 14WF 228# column protected with 7/8" Type MK passed,
and is rated as 3-hour protection.

An interpolation for a reduced thickness on 4-hour
columns was subsequently given. The new thickness is
1-14" for 14WF 228# columns.

143305

BEAM TESTS

Underwriters' Laboratories, Inc.

July 30, 1965

An assembly incorporating 3 beams with various thicknesses of Type MK was tested.

A 2-hour beam rating with 1/2" of Type MK was obtained; plus data pertinent to future testing.

PLASTER COMMITTEE MEETING

Chicago, Illinois

October 27, 1965

Final thicknesses on the forthcoming 1-1/2" blend test were agreed upon.

Great deal of the time was spent in reviewing possibilities for basic improvement in MK-3. Initial steps for development of MK-4 were instigated.

Testing of composite design deck sections was recommended.

Discussion with Mr. Parks of Underwriters' Laboratories, Inc. regarding the status of temperature and point limitations did not provide definitive answers. This matter will be pursued further.

Various proposals for changing the marketing procedure of Type MK were analyzed. None, at the present time, were recommended for approval or trial on a national level.

143307

BLEND FLOOR FIRE TEST

Underwriters' Laboratories, Inc.

December 29, 1965

An 1-1/2" blend floor system protected with 3/8" MK on the bottom of the trough and flat plate sections, and 1/2" on the sides and tops of flutes was tested. The beam was protected with 3/4" MK.

The following ratings were obtained and will be listed as Design #248 2-hour (Beam 4-hour)

Floor	-	2-hour
Beam	-	4-hour

PARTIAL LIST
OF
FUTURE VERMICULITE INSTITUTE
PLASTER COMMITTEE ACTIVITIES

Revision of Vermiculite Institute Fire Resistance Ratings.

3 beam test to meet temperature limitations.

Exploratory and full scale tests of MK-4

Tests of composite design floor sections.

Tests of composite design floor and composite beam
assemblies.

Test of vermiculite concrete, metal deck, joists, and
ceiling assembly.

Box (or square) column testing.