

S N P E

Bouchet Research Center

REQUEST FOR APPROVAL OF CLASSIFICATION

(Article R 121-7 of the code of construction and habitation)

TEST FOR FIRE REACTION OF A MATERIAL

REPORT No. 6363-94 OF 24 JANUARY 1995

MATERIAL PRESENTED BY: KEMLITE COMPANY
104 N. CHICAGO STREET
P.O. BOX 2429
JOLIET, ILLINOIS 60434
U.S.A.

TRADEMARK: GLASBORD 385 FXIE.

SUMMARY DESCRIPTION: Flat rigid plate based on fire-resistant resin (26%), reinforced with glass fibers (45%) and various ballasts and bonds (29%).

Mass per m²: 3617 g

Thickness: 2.3 mm

Color presented: white.

NATURE OF THE TESTS: Test by radiation.

CLASSIFICATION: M1

DURABILITY OF THE CLASSIFICATION (annex 22): nonlimited a priori.

Under the conditions defined by the decree of 30 June 1983, modified by decree of 28 August 1991 and its annexes.

At this day
For agreement and signature

Note: the present application is to be signed and dated and sent to the Minister of the Interior and Territorial Development, 1 Place Beauvau 75800 PARIS within 15 days of the delivery of the report.

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Bouchet Research Center

**NONPUBLICATION IN THE OFFICIAL JOURNAL
OF AN APPROVAL OF CLASSIFICATION**

(Article R 121-13 of the code of construction and habitation)

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Under the conditions defined by the decree of 30 June 1983, modified by decree of 28 August 1991 and its annexes.

The undersigned, name and title

opposes the publication (gratuitous) in the Official Journal of the above elements.

At this day

For agreement and signature

Note: the present application is to be signed and dated and sent to the Minister of the Interior and Territorial Development, 1 Place Beauvau 75800 PARIS within 15 days of the delivery of the report.

If the present application is not received within this time, the office of civil safety shall have the above-indicated elements published in the OJ.

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Bouchet Research Center

**REPORT OF CLASSIFICATION
OF THE FIRE REACTION OF A MATERIAL**

drawn up in accordance with article 88 of the decree of the Minister of the Interior of 30 June 1983, modified by decree of 28 August 1991 and its annexes.

GOOD FOR 5 YEARS

No. 6363-94

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CLASSIFICATION: M1

DURABILITY OF THE CLASSIFICATION (annex 22): nonlimited a priori.

taking into account the criteria resulting from the tests described in the enclosed test report, No. 6363-94.

The indicated classification does not predetermine the conformity of the materials on the market with the specimens submitted for the tests and in no case may it be considered to be a qualification certificate such as is defined by the law of 10 January 1978. Such conformity may be attested by the qualification certificates recognized by the Minister in charge of the industry, in particular, the "NF-Reaction to fire" mark.

LE BOUCHET, 24 JANUARY 1995

Head of the Laboratory
"Fire Tests"
[signature]
M. Mauny

In charge of the test
[signature]
F. Govet

Note: only entire reproductions and photocopies of the present report on classification or the combination of report on classification and enclosed test report are authorized.

METHODS OF CLASSIFICATION TESTS OF RIGID MATERIALS OR SUCH AS ARE MADE RIGID (GLUE COATINGS), OF ANY THICKNESS, AND FLEXIBLE MATERIALS WITH THICKNESS GREATER THAN 5 MM (EXCEPT FILTER MATERIALS)

1 - TEST BY RADIATION (Articles 26-42)

This test involves subjecting the flat specimens, under the conditions defined, to the action of a source of radiant heat and provoking:

- a) inflammation of the gases released, if any,
- b) a propagation of the combustion.

The specimen (30 cm x 40 cm), arranged at 45°, is subjected to a definite radiation emitted by an electric radiator whose surface is at 30 mm from the plane of the material.

The gases released make contact with igniters arranged on either side of the specimen.

Each test lasts 20 minutes.

2 - SUPPLEMENTARY TESTS

Article 4 and 42: Materials which exhibit a very special behavior during the main test shall be subjected to the supplementary tests described below.

2.1 - Test for fusible materials (articles 43-45)

The specimen (7 cm x 7 cm), arranged on a particular metal grill, is subjected to the radiation of an epiradiator situated 3 cm above it.

For five minutes, the radiator is taken away upon each inflammation, then put back in place after the fire goes out. For five additional minutes, the radiator remains in place.

The determining elements are:

- . presence of droplets, whether or not burning,
- . inflammation of the cellulose was arranged underneath the specimen.

2.2 - Test for flame propagation (articles 45-46)

The specimen (40 cm x 3.5 cm), arranged horizontally on edge, is subjected to the action of a gas burner flame. The rate of propagation is measured between 2 reference points at a distance of 25 cm or, if there is no propagation of flame, one notes the duration of persistence of flame, the distances of propagation and the falling of drops, whether or not burning.

2.3 - Measurement of the Calorific Power (articles 54-63)

The quantity of heat released by the combustion of a known mass of material is measured, which is ignited in a calorimetric bomb filled with oxygen under pressure.

3 - CONDITIONING OF THE SPECIMENS

The specimens, presented with normal dimensions, are kept in an air conditioned room (23°C +/- 2° C and 50% +/- 5% relative humidity) until the mass is constant. The mass is considered constant when two consecutive weighings at an interval of 24 h do not differ by more than 0.1% or 0.1 g.

4 - CLASSIFICATION OF MATERIALS (Articles 70-76 and 78-87)

This is determined at the end of the radiation test and the supplementary tests, if any. The materials are classified in categories M1, M2, M3 or M4. Only materials for which there is no effective ignition in the radiation test can claim the classification M0.

5 - DURABILITY TESTS (Article 10 and annex 22)

The conditions of these tests, their interpretation, and the classification procedure are defined in chapters II and III of annex 22.

RESULTS OF THE RADIATION TESTS

[table]

Key:

- 1 - specimen No.
- 2 - exposed surface
- 3 - nonexposed surface
- 4 - total of flame heights H (cm)
- 5 - maximum flame length (cm)
- 6 - means

ti: moment of ignition

te: moment of extinction

H: total of flame heights

T: total duration of combustion

P1: weight of the stabilized specimen

P2: weight of the specimen after test

P1-P2: weight loss of the specimen

dP: percentage of weight loss

$$\frac{(P1-P2)}{P1} 100$$

P1

S: surface deteriorated after the test.