

CHANGE NOTICES ARE NOT CUMULATIVE AND  
SHALL BE RETAINED UNTIL SUCH TIME AS  
THE ENTIRE STANDARD IS REVISED.

FED. TEST METHOD STD. NO. 501A  
June 15, 1966  
CHANGE NOTICE 1  
August 11, 1969

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FEDERAL TEST METHOD STANDARD

FLOOR COVERINGS, RESILIENT, NONTEXTILE: SAMPLING AND TESTING

The following changes in Federal Test Method Standard No. 501A,  
dated June 15, 1966, have been approved by the Commissioner,  
Federal Supply Service, General Services Administration, for  
the use of all Federal agencies.

Method 1041, paragraph 4.1, line 3, delete " $23^{\circ} \pm 5^{\circ} \text{ C. } (73.4^{\circ} \pm 9^{\circ} \text{ F.})$ " and substitute  $23^{\circ} \pm 2^{\circ} \text{ C. } (73.4^{\circ} \pm 3.6^{\circ} \text{ F.})$ .

Method 2231:

Paragraph 4.3, delete in its entirety and substitute:

4.3 Each specimen shall be measured at 3 equally spaced points along the edge while in the above position. The specimen shall then be turned  $90^{\circ}$  and the same procedure followed for determining the dimension at right angles to the first measurements.

Paragraph 5.2, delete in its entirety and substitute:

5.2 The size of the specimen shall be reported separately as the average of the values in each direction.

Method 2421:

Section 4, add the following paragraph:

4.4 Unless otherwise specified in the detail specification, tests shall be performed on both sides of the specimen.

Paragraph 5.2, delete in its entirety and substitute:

5.2 The out-of-square of the test unit shall be the largest of the 8 values obtained from each specimen tested.

REVISION: The attached method of this standard has been revised and supersedes method 3411 dated June 15, 1966.

RETAIN THIS COVER PAGE AND INSERT BEFORE THE TABLE OF CONTENTS OF THIS STANDARD



## CURL

## 1. SCOPE

This method is intended for use in determining the amount of curl of resilient nontextile floor coverings such as vinyl asbestos and asphalt tile.

## 2. SPECIMEN

2.1 The specimen shall consist of a tile from the test unit 6 by 6 inches and flat enough not to rock when either side is on a flat surface. (One specimen required for test).

2.2 Unless otherwise specified in the detail specification, the thickness of the specimen shall be the thickness of the material undergoing test.

## 3. APPARATUS

The apparatus shall be as follows:

3.1 A straightedge, or similar device, of sufficient length to span the diagonals of the specimen and equipped with a dial gauge graduated to 0.001 inch, located so as to measure the curl at the center of the tile. A suitable apparatus is shown in figure 3411.1.

3.2 Flat slabs of 1/4 inch plate glass or 1-1/4 inch (min.) marble slabs, or similar nonmetallic, non-warpable material. The dimensions of the slabs shall be not less than 7 inches by 7 inches.

3.3 A water bath equipped so that it will support one or more of the slabs described in 3.2 in a horizontal position so that the slabs can be partially immersed to within 1/8 inch of their upper surface. Means for maintaining the water at a temperature of ~~23° + 2°C.~~ (73.4° + 3.6°F.).

3.4 Wick material consisting of two sheets of facial tissue or a single layer of bleached cheese cloth.

## 4. PROCEDURE

4.1 Unless otherwise specified in the detail specification, the specimen shall be exposed at room temperature for 72 ± 1/2 hour.

4.2 Place the slab in the water bath so that the water is within 1/8 inch to 1/2 inch of its upper surface. Cover the slab with the wick material so that it extends into the water on all four sides of the slab. Place the specimen, face up on the wick material. Initial readings shall be taken across both diagonals, to the nearest 0.001 inch, and shall not exceed 0.005 inch across each diagonal. The water shall be maintained at a temperature of 77° plus or minus 2°F. during the test. The specimen shall be exposed for 72 hours. At the end of the exposure period, readings again shall be taken by setting the gauge on each of the diagonals of the tile and measuring the dip at the center with the dial gauge to the nearest 0.001 inch. The amount of curl shall be taken as the difference between initial and final readings in each direction.

Note: On all readings care should be taken to hold all the weight of the instrument off the tile.

## 5\* RESULTS

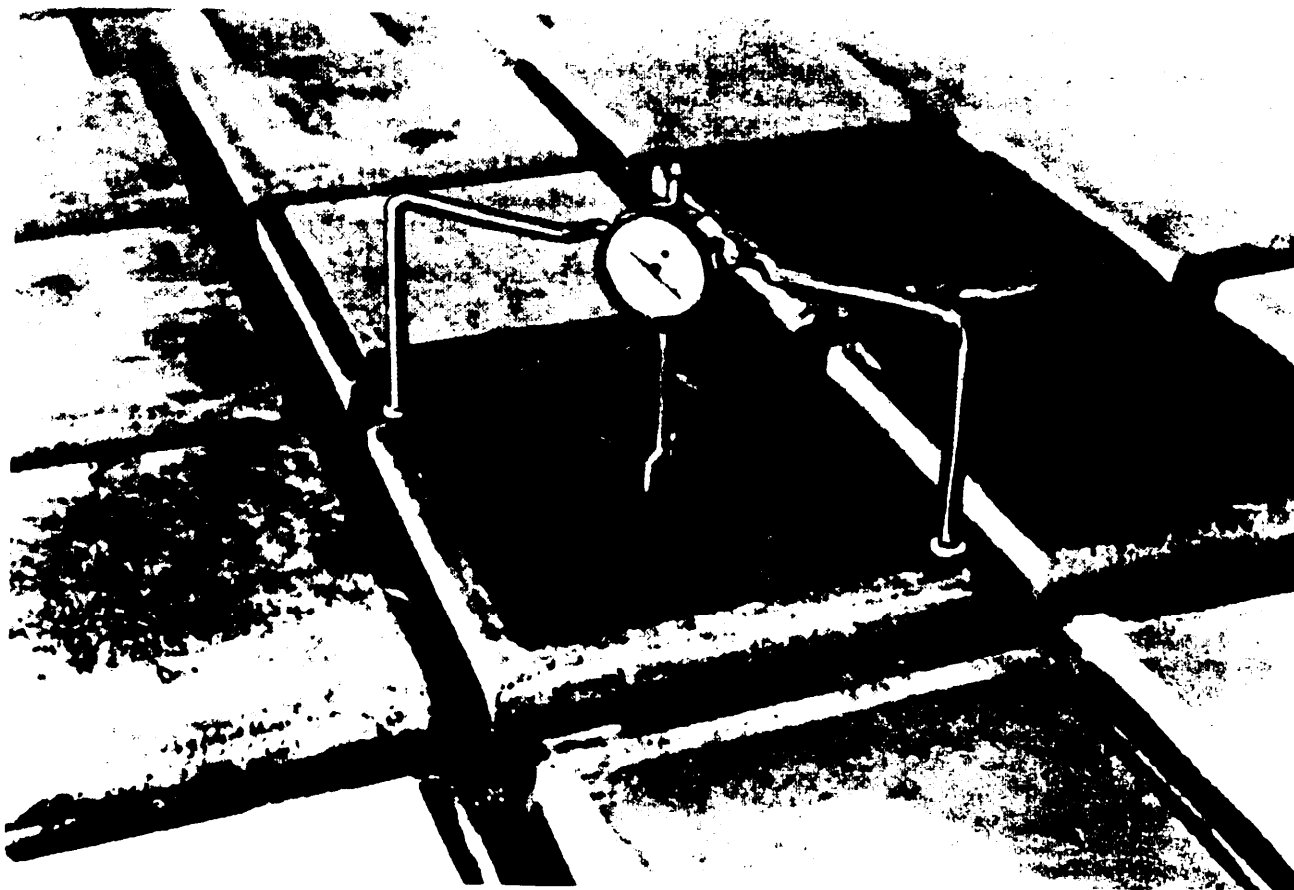
5.1 Unless otherwise specified in the detail specification, one specimen shall be tested.

5.2 The amount of curl from the two diagonals of the specimen shall be averaged.

5.3 Unless otherwise specified in the detail specification, if the average of the two values exceeds the requirements of the specification, the sample shall be considered to have failed.

5.4 The temperature of the test and time of exposure of the specimen shall be recorded.

METHOD 3411.1  
AUGUST 11, 1969



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