

2721
NATIONAL BUREAU OF STANDARDS REPORT

NBS PROJECT

NBS REPORT

1000-30-4830

August 5, 1953

2721

TESTS OF TWO VENETIAN BLINDS

by

O. N. McDorman
Heating and Air Conditioning Section
Building Technology Division

for

Corps of Engineers
Mobile District
U. S. Army



**U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS**

The publication, reprinting
unless permission is obtained
25, D. C. Such permission
usually prepared if that agency

Approved for public release by the
Director of the National Institute of
Standards and Technology (NIST)
on October 9, 2015.

is prohibited
Washington
been specifically
its own use.

TESTS OF TWO VENETIAN BLINDS

I. INTRODUCTION

In accordance with a request dated July 6, 1953, tests were made of two complete Venetian blinds for conformance with Section 4.3 of Federal Specification RR-B-446 dated 30 June 1950, and the requirements of Paragraph 1-04 of the Contract Specifications.

II. TEST RESULTS

CONFORMITY WITH FEDERAL SPECIFICATION

The test results showed that the specimens complied with the requirements of Paragraphs 4.3.1, 4.3.2, 4.3.3 and 4.3.5 of the Federal Specification. Under Paragraph 4.3.4, the breaking strength of the tapes was found to be a little below the minimum Specification requirement of 250 pounds and under Paragraph 4.3.7, the color fastness of the tapes when exposed to light was found to be "fair" instead of "good" as required by the Specification. It should be noted, however, that the color fastness is determined by visual estimate and not by any absolute standard of comparison. The results observed during tests of breaking strength, shrinkage and color fastness of the tapes, cross straps and cords are summarized in Table 1.

TABLE 1

TESTS OF TAPES, CROSS STRAPS, AND CORDS
FOR STRENGTH, SHRINKAGE, AND COLOR FASTNESS

<u>Tests</u>	<u>Results</u>	<u>Requirements</u>
Width, in.		
side straps (tapes)	1 1/2	1 1/2 + 1/16
cross straps	7/16	3/8 min.
Breaking strength, lb		
side straps (tapes) (4.3.4)	(218 *(1) 234 *(1)	250 min.
cross straps (4.3.5)	25	20 min.
cord (4.3.3)	223	125 min.
Shrinkage, %	6.7	7 max.
Color fastness (4.3.7)		
light	fair *(2)	good
water	good (2)	good

*Fails to meet the requirement.

(1)Average of 5 samples.

(2)Visual estimate.

The samples meet the other requirements.

SECTION 101

ARTICLE I

Section 101 of the Constitution provides for the establishment of a national government. It states that all legislative powers shall be vested in a Congress of the United States, which shall consist of a Senate and House of Representatives. It also sets forth the qualifications for members of Congress and the manner in which they shall be elected.

ARTICLE II

ARTICLE II

Section 1 of Article II provides for the executive power, which shall be vested in a President of the United States. It sets forth the qualifications for the President and the manner in which he shall be elected. Section 2 of Article II provides for the powers and duties of the President, including the power to nominate and appoint officers and judges, to grant pardons, and to receive ambassadors. Section 3 of Article II provides for the Vice President, who shall be elected in the same manner as the President.

ARTICLE III

ARTICLE III

<u>Section 1</u>	<u>Section 2</u>	<u>Section 3</u>
Section 1 of Article III provides for the judicial power, which shall be vested in one Supreme Court and in such inferior courts as the Congress may from time to time ordain and establish. It sets forth the qualifications for Justices of the Supreme Court and the manner in which they shall be appointed.	Section 2 of Article III provides for the powers and duties of the Supreme Court, including the power to hear and determine the cases and controversies referred to it. It also sets forth the jurisdiction of the Supreme Court and the manner in which it shall be organized.	Section 3 of Article III provides for the jurisdiction of the Supreme Court and the manner in which it shall be organized. It sets forth the jurisdiction of the Supreme Court and the manner in which it shall be organized.

Section 1 of Article III provides for the judicial power, which shall be vested in one Supreme Court and in such inferior courts as the Congress may from time to time ordain and establish.

A salt-spray test was performed on parts of the Venetian blinds, in accordance with the requirements of Paragraph 4.3.3 of the Federal Specification. The results and conclusions obtained from the salt-spray test are summarized below.

1. Ten component parts of a Venetian blind were submitted for 100-hour salt-spray test in accordance with Federal Specification QQ-M-151, Metals; General Specification for Inspection of.

2. At the conclusion of 100 hours in the salt-spray cabinet the parts were washed free of salt and loosely adhering corrosion products and inspected, the results of the inspection being as follows:

Slats: All slats were in good condition, there being only slight evidence of rust on the ends and in the region of the cut edges in the cord slots. Very slight evidence of rust on edges of slats. Slight blistering along edges and ends and around cord slots on slats. Remainder of surface of slats free from blistering.

Top Section: Zinc plated mechanism approximately 7% rusted but still capable of being operated. Top section in generally good condition except for slight evidence of rust on cut edges. Some slight blistering of paint in corrugations, at cut edges and at areas of cut-outs. Blistering slightly more prominent than that occurring on slats. End cap in poor condition due to blistering and peeling of paint. Unpainted interior surfaces of end cap slightly rusted.

Bottom Section: This section was in generally good condition, there being only slight evidence of rusting at the cut-outs and along the lock seam in the interior of the section. Some faint blistering in areas of forming and slight deterioration of paint along lock seam on exterior of section.

3. It is difficult to predict how the subject Venetian blind will perform in actual service. Inasmuch as it withstood the severe conditions of the 100-hour salt-spray test reasonably well, it might be expected to perform satisfactorily in normal atmospheres for reasonably long periods of time. In coastal atmospheres, where conditions might be likened to those in the salt spray at a decelerated rate, somewhat shorter life is to be expected.

4. The only other tests of a similar nature conducted by this Bureau were on slats from a Venetian blind, all edges of which had been coated with a bituminous enamel to preclude their rusting. After 100 hours in the salt spray these slats showed no evidence of paint failure.

No tests were made under Paragraph 4.3.3 of the Federal Specification since metal cables were not used in the specimens submitted.

The first part of the report is devoted to a general survey of the situation in the country. It is followed by a detailed analysis of the economic situation, and a final chapter on the social and cultural aspects of the country.

The second part of the report is devoted to a detailed analysis of the economic situation. It is followed by a detailed analysis of the social and cultural aspects of the country.

The third part of the report is devoted to a detailed analysis of the social and cultural aspects of the country. It is followed by a detailed analysis of the economic situation.

The fourth part of the report is devoted to a detailed analysis of the economic situation. It is followed by a detailed analysis of the social and cultural aspects of the country.

The fifth part of the report is devoted to a detailed analysis of the social and cultural aspects of the country. It is followed by a detailed analysis of the economic situation.

The sixth part of the report is devoted to a detailed analysis of the economic situation. It is followed by a detailed analysis of the social and cultural aspects of the country.

The seventh part of the report is devoted to a detailed analysis of the social and cultural aspects of the country. It is followed by a detailed analysis of the economic situation.

The eighth part of the report is devoted to a detailed analysis of the economic situation. It is followed by a detailed analysis of the social and cultural aspects of the country.

The ninth part of the report is devoted to a detailed analysis of the social and cultural aspects of the country. It is followed by a detailed analysis of the economic situation.

CONFORMITY WITH CONTRACT SPECIFICATIONS

The specimen Venetian blinds were found to comply with all parts of Section 1-04 of the Contract Specifications, with the following exceptions:

Par. 1-04(b): The end pieces on the tilt rails were constructed of plastic instead of metal.

Par. 1-04(3): The bottom rails were $1 \frac{15}{16}$ inches wide instead of 2 inches. The openings for the lifting cords were stamped out instead of being drilled.

REGISTRATION OF THE TRADE MARK

The applicant claims to be the proprietor of the trade mark consisting of the letters 'A' and 'B' in a stylized form, and to be entitled to the exclusive use thereof.

The applicant claims to be the proprietor of the trade mark consisting of the letters 'A' and 'B' in a stylized form, and to be entitled to the exclusive use thereof.

The applicant claims to be the proprietor of the trade mark consisting of the letters 'A' and 'B' in a stylized form, and to be entitled to the exclusive use thereof.

