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March 1952
CANCELLATION
July 1972

CANADIAN GOVERNMENT SPECIFICATIONS BOARD

Specification
for

COUNTERS: FIBRE, MEN'S

This specification is cancelled as of the above date because it is no longer being used for government purchasing.



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SPECIFICATION

FOR

COUNTERS; FIBRE, MEN'S

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13 MARCH 1952

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THIS SPECIFICATION APPLIES TO FIBRE COUNTERS FOR USE IN
THE MANUFACTURE OF MEN'S FOOTWEAR

NATIONAL RESEARCH COUNCIL, OTTAWA, CANADA

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Specification
for

COUNTERS; FIBRE, MEN'S

1. DEFINITION

This specification applies to fibre counters for use in the manufacture of men's footwear.

2. APPLICABLE REGULATIONS

2.1 In the event of any inconsistency in contract documents, specifications, drawings, and/or patterns, the aforementioned shall prevail in the following manner:

- 2.1.1 Contract
- 2.1.2 Specification
- 2.1.3 Drawings
- 2.1.4 Pattern or sealed sample.

3. GENERAL REQUIREMENTS

3.1 The article or material covered by this specification shall be free from imperfections or blemishes such as may affect its appearance or serviceability, and in all respects not covered by the present specification or contract documents, production shall be equivalent to the sealed sample.

4. DETAIL REQUIREMENTS4.1 Physical Requirements of Fibre

4.1.1 Bursting Strength - The fibre used in the counters shall have a minimum average bursting strength of 220 pounds, when tested according to the method described in Para. 6.3.1.

4.1.2 Tensile Strength

4.1.2.1 Machine Direction - The average tensile strength of the fibre, when tested parallel to the machine direction, according to the method specified in Para. 6.3.2, shall not be less than 700 pounds per inch of width.

4.1.2.2 Cross Direction - The average tensile strength of the fibre, when tested perpendicular to the machine direction, according to the method specified in Para. 6.3.2, shall not be less than 300 pounds per inch of width.

4.2 Water Absorption of Counters - The water absorption of the finished counters shall not be more than 10 percent after 1/2 hour immersion, and not more than 13 percent after 1 1/2 hours immersion.

4.3 Thickness - The thickness of the finished counters shall not be less than $\frac{5}{48}$ inch (5 irons).

4.4 Scarfing - The counter ends shall be scarfed over a distance of $1 \frac{1}{4}$ inches and the top shall be scarfed for $\frac{1}{4}$ inch.

4.5 Flange - The counter flange shall not be less than $\frac{1}{2}$ inch in width.

5. MARKING

Each counter shall be legibly stamped on the outside with the manufacturer's name, this specification number, and the number of the applicable last.

6. INSPECTION, SAMPLING AND TEST METHODS

6.1 Sampling - of the fibre and finished counters shall be carried out at the discretion of the inspecting authority.

6.2 Inspection - The counter samples shall be inspected for workmanship, and compliance with the requirements concerning thickness and scarfing.

6.3 Test Methods

6.3.1 Bursting Strength - is determined on five fibre specimens, $4" \times 4"$ in dimensions.

Each specimen is clamped tightly between two rigid metal plates, each of which has a central hole of 1-inch diameter. The clamping arrangement is such that the holes coincide when the plates are clamped together. With the specimen clamped between the plates, a circular area of the specimen, 1 inch in diameter, is left exposed on both sides. The load is applied on the centre of this area, normal to the plane of the specimen, by means of a steel ball 0.25 inch in diameter, which is attached to a testing machine set to apply load at rate of 1 inch per minute. The bursting strength is recorded directly by the machine and is reported as the average of the five determinations.

6.3.2 Tensile Strength - Five strips of the sample fibre, each 1 inch in width and 10 inches in length, are cut in each of the two principal directions of the material, and tested for tensile strength according to Standard Method T404M: "Tensile Breaking Strength of Paper and Paperboard", of the Technical Association of the Pulp and Paper Industry. The jaws of the testing machine shall be set 8 inches apart at the beginning of the test and the load shall be applied at the rate of 2 inches per minute.

The results are expressed in pounds per inch width, as the average of the five determinations in each direction.

6.3.3 Water Absorption - The specimen counters are full immersed in water at a temperature of $70^{\circ} \pm 5^{\circ}\text{F}$ for the periods specified in the requirement in Para. 4.2. They are then removed from the water, weighed, dried at a temperature of $70^{\circ} \pm 5^{\circ}\text{F}$ and a relative humidity of $65 \pm 2\%$, and reweighed.

The water absorption is calculated as follows:

$$\text{Percent Absorption} = \frac{\text{Wt. after immersion} - \text{Dry Wt.}}{\text{Dry Wt.}} \times 100.$$

Correspondence regarding this specification should be addressed to the Secretary, Canadian Government Specifications Board, National Research Council, Ottawa, Canada.