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**ISO**

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 1763

CARPETS

DETERMINATION OF NUMBER OF TUFTS AND/OR LOOPS

PER UNIT LENGTH AND PER UNIT AREA

1st EDITION

April 1971

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## BRIEF HISTORY

The ISO Recommendation R 1763, *Carpets – Determination of number of tufts and/or loops per unit length and per unit area*, was drawn up by Technical Committee ISO/TC 38, *Textiles*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question led to the adoption of Draft ISO Recommendation No. 1763, which was circulated to all the ISO Member Bodies for enquiry in February 1969. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	India	Romania
Austria	Iran	South Africa, Rep. of
Belgium	Israel	Spain
Brazil	Italy	Sweden
Canada	Japan	Switzerland
Chile	Netherlands	Turkey
Denmark	New Zealand	U.A.R.
France	Norway	United Kingdom
Germany	Peru	U.S.A.
Greece	Poland	U.S.S.R.
Hungary	Portugal	

No Member Body opposed the approval of the Draft.

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

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CARPETS

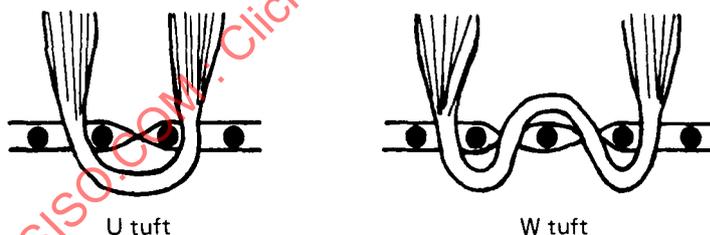
DETERMINATION OF NUMBER OF TUFTS AND/OR LOOPS  
PER UNIT LENGTH AND PER UNIT AREA

1. SCOPE

This ISO Recommendation describes a method for the determination of the number of tufts and/or loops per unit length and per unit area of a carpet, and is applicable to carpets the pile of which consists of uniformly spaced tufts and/or loops.

2. DEFINITIONS

2.1 *Tuft*. A J-shaped, U-shaped or W-shaped length of yarn, or length of yarn in the form of a knot, of which the leg or legs form the pile of a carpet.



Examples of tufts



Examples of knots

- 2.2 *Loop*. The length of the pile-forming yarn between two successive lowest points of fixation in the backing of a carpet.

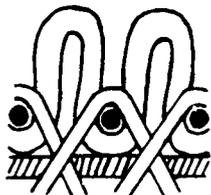


Diagram of two successive loops of a pile

- 2.3 *Number of tufts and/or loops and spaces per unit length*. The number of tufts and/or loops and spaces occupying 100 mm when counted longitudinally, e.g. parallel to the selvedge (denoted by  $S$ ), and when counted transversely, e.g. at right angles to the selvedge (denoted by  $G$ ).

### 3. PRINCIPLE

The number of complete tufts and/or loops and spaces is counted over a distance  $L$  which is at least 100 mm and contains at least 40 complete tufts and/or loops and spaces. The number of tufts and/or loops and spaces is counted in directions parallel with and at right angles to the selvedge, and the number per unit area calculated.

### 4. APPARATUS

An instrument capable of measuring to the nearest 0.5 mm, e.g. a rule graduated in millimetres.

### 5. TEST SPECIMENS

Select four areas together representative of the sample\*, such that each edge contains at least 40 tufts and/or loops and spaces and is not less than 100 mm in length. Avoid selecting any area within 100 mm of any boundary of the sample.

### 6. PREPARATION OF TEST SPECIMENS

Ensure that the specimens are marked clearly in the directions parallel with and at right angles to the selvedge.

\* For machine-made products follow the procedure in ISO Recommendation R 1957, *Machine-made textile floor coverings – Sampling and cutting specimens for physical tests*.

For hand-made carpets see the document prepared by ISO/TC 38/SC 12/WG 3 on test locations.