

**Tufted and woven carpets in lengths**

# Technical document 99027-01

Technical document 99027-01 rev 00  
15/02/2019

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## MODIFICATION HISTORY

<b>Revision n°</b>	<b>Application date</b>	<b>Modifications</b>
00	15/02/2019	<b>Creation of the document. Determination of the specific tolerance for the number of tufts and loops for the products with several yarns per tufting point.</b>

## Table of contents

1. NORMATIVE REFERENCES .....	4
2. SPECIFICATIONS FOR THE UPEC CLASSIFICATION .....	5
2.1. Generalities .....	5
2.2. Requirements .....	5

## 1. NORMATIVE REFERENCES

In this technical document, when standard are dated, only this version applies. For the standards without date, the latest version is applied (including amendments).

**Table 1**

<b>Standards</b>	<b>Title</b>
NF EN 1307	Textile floor coverings – Classification
NF ISO 1765 <sup>1</sup>	Determination of total thickness
ISO 1766 <sup>1</sup>	Determination of thickness of pile above the substrate
NF EN ISO 845 <sup>2</sup>	Cellular plastic and rubbers – Determination of apparent density
NF ISO 1763	Determination of number of tufts and/or loops per unit length and per unit area
NF ISO 8543	Methods for determination of mass
NF EN 1318	Determination of the apparent effective thickness of the backing
NF EN ISO 105-B02	Colour fastness to artificial light: Xenon arc fading lamp test
NF EN ISO 105-X12	Colour fastness to rubbing
NF EN ISO 105-E01	Colour fastness to water
NF EN ISO 12951	Tests using the Lisson Tetrard machine
/a	Fiber binding              Cut pile (Lisson 2000 cycles)
/c	Loop pile (Lisson 400 cycles)
ISO 10361	Production of changes in appearance by means of Vettermann drum and hexapod tumbler tester
NF EN ISO 9405	Assessment of changes in appearance
NF EN 985	Castor chair test
NF EN 1814	Determination of resistance to damage at cut edges using the modified Vetterman drum test
NF EN 1269 Method A (assessment according to NF EN ISO 9405)	Assessment of impregnations in floor coverings by means of a soiling test

<sup>1</sup> In the case of structured products, the results of total thickness and pile thickness are only given as an average, like for flat products, and not per areas as stated in the standard.

<sup>2</sup> At the CSTB, test carried out according to NF EN ISO 845 except for the measurement of dimensions apparatus which applies a pressure of 2kPa instead of 100Pa as described in the standard NF EN ISO 1923. It was proven through comparative tests that this modification has no influence on the results.

## 2. SPECIFICATIONS FOR THE UPEC CLASSIFICATION

### 2.1. Generalities

This document describes the technical specifications of the tufted and woven carpets in lengths.

- Classifications U and P are given according to the specifications given in tabel 2 below.
- The tufted and woven carpets in lengths are classified E1 and C0 by default.

Note :

E1 means that the floor covering can bear the occasional presence of water (common dry maintenance and humid cleaning).

C0 does not mean that the floor covering is not resistant to common chemical agents but that it has not been tested due to lack of acknowledge reference method.

### 2.2. Requirements

**Table 2**

Minimum requirements of standard NF EN 1307 for the following classes	Domestic use	21	22	22			
	Commercial use				32	32	33
Minimal threshold of pile (g/m <sup>2</sup> ) according to NF ISO 8543	Loop pile	150	200	200	265	265	350
	Cut pile	200	265	265	400	400	450
Linear density (average) indicated by the manufacturer	Cut pile				≥ 7 dtex		
Castor chair capacity according to NF EN 985 (Test A)				r ≥ 2,4		r ≥ 2,4	
Damage at cut edges according to NF EN 1814	Loop pile				Comportement satisfaisant <sup>1</sup>		
	Cut pile						Comportement satisfaisant
Soiling test according to NF EN 1269 Method A <sup>2</sup> (assessment according to NF EN ISO 9405)							≥ 3
Fiber binding according to NF EN ISO 12951	Loop pile	Unbinding level lower than the one of the reference photographs (test C)					
	Cut pile	Mass loss ≤ 25% (test A)					
Change in appearance after Vetterman drum or Hexapod test	Short term	2					4
	Long term		2		3		3.5
<b>Claimed UPEC classification</b>		<b>U2 P2</b>	<b>U2s P2</b>	<b>U2s P3</b>	<b>U3 P2</b>	<b>U3 P3</b>	<b>U3s P3</b>

<sup>1</sup> For the products not meeting this requirement, a lateral buckling strength test in accordance with NF G35-030 will be made with a specification of ≥ 2,5 N on average, knowing that individual value must be ≥ 2 N.

<sup>2</sup> The tests will be made on colours chosen by the CSTB in the range submitted by the manufacturer to the CSTB.

Moreover, the following table 3 shows the admissible tolerances of some identification characteristics of the certified covering, in accordance with the values indicated by the manufacturer.

**Table 3**

Characteristic	Test method	NF EN 1307 tolerances	UPEC tolerances
Number of tufts or loops (dm <sup>2</sup> )	NF ISO 1763	nominal + 10 % ; - 7,5 %	nominal + 10 % ; - 7,5 % number of tufting points ≥ nominal for the products with several yarns per tufting point (ex: ColorPoint, Infinity...)
Total mass by surface area (g/m <sup>2</sup> )	NF ISO 8543	nominal ± 15 %	nominal ± 10 %
Total thickness (mm)	NF ISO 1765 *	nominal + 15 % ; - 10 %	nominal ± 10 %
Thickness of the pile above the substrate (mm)	ISO 1766 *	nominal + 15 % ; - 10 %	nominal + 15 % ; - 10 %
Pile mass by surface area above the substrate (g/m <sup>2</sup> )	NF ISO 8543	nominal + 15 % ; - 10 %	nominal ± 10 %
Apparent thickness of the foam backing (mm)	NF EN 1318	-	nominal ± 0,5 mm
Density of the foam backing (g/cm <sup>3</sup> )	NF EN ISO 845	-	nominal ± 10 %

\* In the case of structured products, the results of total thickness and pile thickness are only given as an average, like for flat products, and not per areas as stated in the standard.