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## Test Report VN720 222093.1

### Application

Testing and classification according to EN 1307.

### Test Material

Graphic Wool 1100 LWT

The test material used for testing was made anonymous for laboratory purposes.  
A detailed sample list is included in the document.

### Issuing

Original Issuing, 06.07.2023

Number Of Included Pages: 7

**OETI - Institut fuer Oekologie, Technik und Innovation GmbH**

A handwritten signature in blue ink, appearing to read "Günther Sereinig".

**Günther Sereinig**

Customer Service Officer





## 1 Application

Date of Order	Scope of Order
12.05.2023	Summarized test report - EN 1307 Annex B Description Of Specimen - Textile Floor Coverings - EN 1307 Mass Per Unit Area - ISO 8543 Textile Floor Coverings Thickness Of Textile Floor Coverings - ISO 1765 Thickness Wear Layer Of Textile Floor Coverings - ISO 1766 Pile Density - ISO 8543 Number Of Tufts Or Loops - ISO 1763 Basic requirements - EN 1307 -Textile floor covering with $\geq 80$ % natural fibre in pile Changes in Appearance - Drum Test - ISO 10361 Method A / EN ISO 9405 Classification - EN 1307 -Textile floor covering with $\geq 80$ % natural fibre in pile

## 2 Samples

No.	Receipt	Sample Identification
1	17.05.2023	Graphic Wool 1100 LWT

(Unless otherwise stated samples are provided by the customer.)

### 3 Tests Performed / Results

#1 Graphic Wool 1100 LWT

<b>Summarized test report</b> EN 1307 Annex B *		
Number of Tests		1
• Identification, basic information		
Product name		Graphic Wool 1100 LWT
Type of face side		Cut pile (according to B.2.2: A1)
Manufacturing procedure		Tufted (according to B.2.1: M5)
Backing		Textile Backing (according to B.2.4: S10)
Type of floor covering		pile carpet according to EN 1307
Base		Woven fabric (according to B.2.3: P1)
Colouration		multicolored patterned (according to B.2.5: C2)
Dimensions		rolls
Fibers of pile		100% WO (declaration by the applicant)
• Construction		
Total mass	[g/m <sup>2</sup> ]	1'749
Pile mass above the substrate	[g/m <sup>2</sup> ]	700
Total thickness	[mm]	8.9
Thickness of pile layer	[mm]	6.1
Surface pile density	[g/cm <sup>3</sup> ]	0.115
Number of tufts or loops per dm <sup>2</sup>		1'140
• Appearance change		
Vettermann-drum test, short time testing		3.5
Vettermann-drum test, long time testing		3.0
• Classification according EN 1307		
Basic requirements		Fulfilled
Use class		Class 33
Luxury-Class		LC3

<p><b>Description Of Specimen - Textile Floor Coverings</b> EN 1307 *</p> <p>Number of Tests            • Manufacturing procedure            • Structure of face side            • Primary backing            • Colouration of the surface            • Type of backing            • Type of fibres at face side            • Dimensions            • Description according to standard</p>	<p>1 tufted cut pile woven fabric multicoloured patterned textile backing 100% WO rolls textile floor covering with pile</p>
<p><b>Mass Per Unit Area</b> ISO 8543 Textile Floor Coverings</p> <p>Number of Tests            • Number of specimen            • Conditioning                Temperature [°C]                Air humidity [%]            • Total mass                Mean value [g/m<sup>2</sup>]                Coefficient of variation [%]                Confidence interval (95%) abs. width [g/m<sup>2</sup>]            • Measurement uncertainty [%]            • Issue Date of Standard: 2020-06</p>	<p>1 4 20 65 1'749 1.3 38 0.84</p>
<p><b>Thickness Of Textile Floor Coverings</b> ISO 1765</p> <p>Number of Tests            • Number of specimen            • Conditioning                Temperature [°C]                Air humidity [%]            • Thickness                Mean value [mm]                Coefficient of variation [%]                Confidence interval (95%) abs. width [mm]            • Measurement uncertainty [%]            • Issue Date of Standard: 1986-11</p>	<p>1 4 20 65 8.9 0.8 0.2 1.47</p>

<p><b>Thickness Wear Layer Of Textile Floor Coverings</b> ISO 1766</p> <p>Number of Tests 1</p> <ul style="list-style-type: none"> <li>• Number of specimen 4</li> <li>• Conditioning               <ul style="list-style-type: none"> <li>Temperature [°C] 20</li> <li>Air humidity [%] 65</li> </ul> </li> <li>• Shearing methode --</li> <li>• Thickness of wear layer               <ul style="list-style-type: none"> <li>Mean value [mm] 6.1</li> <li>Coefficient of variation [%] 1.6</li> <li>Confidence interval (95%) abs. width [mm] 0.2</li> </ul> </li> <li>• Measurement uncertainty [%] 1.87</li> <li>• Issue Date of Standard: 1999-10</li> </ul>	
<p><b>Pile Density</b> ISO 8543</p> <p>Number of Tests 1</p> <ul style="list-style-type: none"> <li>• Number of specimen 4</li> <li>• Pile material 100% wool</li> <li>• Density of pile material [g/cm<sup>3</sup>] 1.32</li> <li>• Mass of pile per unit area [g/m<sup>2</sup>] 700</li> <li>• Thickness of pile layer [mm] 6.1</li> <li>• Surface pile density [g/cm<sup>3</sup>] 0.115</li> <li>• Relative surface pile density [%] 8.7</li> <li>• Issue Date of Standard: 2020-06</li> </ul>	
<p><b>Number Of Tufts Or Loops</b> ISO 1763</p> <p>Number of Tests 1</p> <ul style="list-style-type: none"> <li>• Number of specimen 4</li> <li>• Number of tufts or loops / 10 cm               <ul style="list-style-type: none"> <li>Longitudinal direction 35.3</li> <li>Cross direction 32.3</li> </ul> </li> <li>• Number of tufts or loops per dm<sup>2</sup> 1'140</li> <li>• Number of tufts or loops per m<sup>2</sup> 114'000</li> <li>• Issue Date of Standard: 2020-07</li> </ul>	

<p><b>Basic requirements</b> EN 1307 -Textile floor covering with <math>\geq 80</math> % natural fibre in pile *</p> <p>Number of Tests</p> <ul style="list-style-type: none"> <li>• Color fastness [grade]</li> <li>• Fibre bind - Cut pile - EN 1963 Methode A</li> <li>• Basic requirements</li> </ul>	<p style="text-align: center;">1</p> <p>Conformity shall be indicated for each color by the manufacturer. Wool content &gt; 80% therefore no basic requirements required Fulfilled</p>
<p><b>Changes in Appearance - Drum Test</b> ISO 10361 Method A / EN ISO 9405</p> <p>Number of Tests</p> <ul style="list-style-type: none"> <li>• Used scale</li> <li>• Appearance change 5'000 cycles (if dominant: attribute)           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 3.5</li> <li>Assessor 2 [grade] 3.5</li> <li>Assessor 3 [grade] 3.5</li> <li>Median [grade] 3.5</li> <li>Mean value [grade] 3.5</li> </ul> </li> <li>• Index of colour change 5'000 cycles           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 3</li> <li>Assessor 2 [grade] 3</li> <li>Assessor 3 [grade] 3</li> <li>Median [grade] 3</li> </ul> </li> <li>• Appearance change 20'000 cycles (if dominant: attribute)           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 3.0</li> <li>Assessor 2 [grade] 3.0</li> <li>Assessor 3 [grade] 3.0</li> <li>Median [grade] 3.0</li> <li>Mean value [grade] 3.0</li> </ul> </li> <li>• Index of colour change 20'000 cycles           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 3</li> <li>Assessor 2 [grade] 3</li> <li>Assessor 3 [grade] 3</li> <li>Median [grade] 3</li> </ul> </li> <li>• Damages by treatment None</li> <li>• Measurement uncertainty: <math>\pm 0.5</math> [°] <math>\pm 0.5</math></li> <li>• Issue Date of Standard EN ISO 9405: 2017-06</li> <li>• Issue Date of Standard ISO 10361: 2015-02</li> </ul>	<p style="text-align: center;">1</p> <p style="text-align: center;">ISO cut (ISO-B)</p>
<p><b>Classification</b> EN 1307 -Textile floor covering with <math>\geq 80</math> % natural fibre in pile *</p> <p>Number of Tests</p> <ul style="list-style-type: none"> <li>• Appearance change - short time test [grade] 3.5</li> <li>• Appearance change - long time test [grade] 3.0</li> <li>• Add.mand.req.-Class 32: Pile desity <math>\geq 0,10</math> g/cm<sup>3</sup> 0.115</li> <li>• Level of use classification Class 33</li> <li>• Luxury-Class LC3</li> </ul>	<p style="text-align: center;">1</p> <p style="text-align: center;">3.5</p> <p style="text-align: center;">3.0</p> <p style="text-align: center;">0.115</p> <p style="text-align: center;">Class 33</p> <p style="text-align: center;">LC3</p>

## 4 Remarks

### Period of Validity

There are no regulations concerning duration of validity in the individual test standards. As the results of the examinations refer only to the submitted and examined samples, the report is valid for these for an unlimited period. A period of validity specified as part of an expert evaluation is in the discretion of the consultant or OETI. The applicability of results and expert evaluations for materials not tested is in the responsibility of the applicant. Whereby an apportionment of results as well as any specified period of validity can only be done for identically constructed products and only as long as the product is produced unchanged. Possible national or international restrictions concerning the terms of usability of test and classification reports have to be considered; this is not the responsibility of the test laboratory.

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