

# TFI-Report 23-000053-02

This report replaces 23-00053-01 from 14.04.2023.

Reason for replacement: Correction of Partial Report KM and SK

## Functional and Quality Testing

Customer	EGE Carpets A/S Industrivej Nord 25 7400 Herning DK
Product	Textiler Bodenbelag/Textile floor covering Colortec 80/20 1300 LF

This report includes 12 pages.



Aachen, 22.06.2023

Dr. Andreas Zoëga  
Head of Testing Laboratory



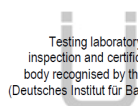
The present document is provided with an advanced electronic signature.

This report only applies to the tested samples and has been established to the best of our knowledge. Only the entire report shall be reproduced. Under no circumstances, extracts shall be used. Furthermore, we apply the "General Terms and Conditions for the Execution of Contracts" of the TFI Aachen GmbH, also with regard to the order execution.

The test result does not include any addition or deduction for uncertainties due to measurement, sample preparation, sample collection and production tolerances.



Notified Body  
No. 1656



Testing laboratory,  
inspection and certification  
body recognised by the DIBT  
(Deutsches Institut für Bautechnik)



Accredited for the methods indicated in  
the partial reports to the DAkkS certificate

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Managing Director  
Dr. Jacqueline Lemm



## 1 Transaction

Order date 03.01.2023  
Your reference Dorthe Daa Pedersen  
Product designation Colortec 80/20 1300 LF

TFI sample number 2300024

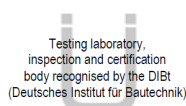
Date of sample receipt 05.01.2023

Testing period 16.01.2023 - 14.04.2023

### Test order:

Change in appearance according ISO 10361 <sup>a</sup>  
Electrical behaviour - walking test according ISO 6356 <sup>a</sup>  
Colour fastness to artificial light according EN ISO 105-B02 <sup>a</sup>  
Colour fastness to rubbing according EN ISO 105-X12 <sup>a</sup>  
Colour fastness to water according EN ISO 105-E01 <sup>a</sup>  
Characteristics of textile floor coverings according EN 1307+A3 <sup>a</sup>

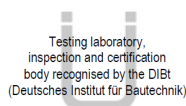
a ... Die mit a gekennzeichnete Prüfung basiert auf nach EN ISO/IEC 17025 akkreditierten Prüfungen./The test marked a are based on tests accredited in accordance with EN ISO/IEC 17025.



A. Boigga



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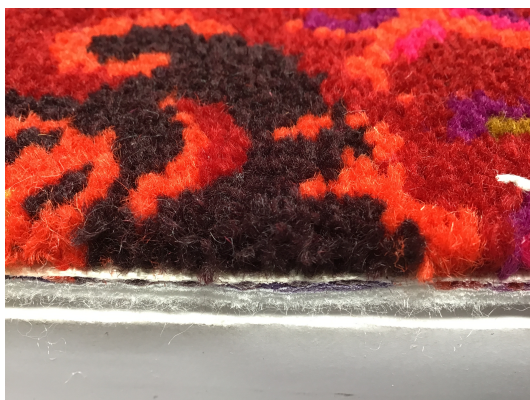
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## 2 Product description

TFI sample number 2300024



Thickness [mm]	9,50
Area density [g/m <sup>2</sup> ]	2330
Type of delivery	Bahnenware/broadloom

### 3 Results

Change in appearance (median) - shortterm	3.5
Change in appearance (median) - longterm	3
Body voltage in kV	-1.7
Colour fastness to artificial light (Colour change)	5-6
Colour fastness to rubbing - dry	4-5
Colour fastness to rubbing - wet	4
Colour fastness to water - change in colour	4-5
Characteristics	Individual results see partial report KM

### 4 Partial Reports

- Changes in appearance according to ISO 10361
- Electrical behaviour - walking test according ISO 6356
- Colour fastness to artificial light according EN ISO 105-B02
- Colour fastness to rubbing according EN ISO 105-X12
- Colour fastness to water according EN ISO 105-E01
- Characteristics of textile floor coverings according EN 1307+A3

## Partial Report SK – Use Classification and Luxury Rating

### 1 Transaction

TFI sample number 2300024

### 2 Test Method / Requirements

EN 1307:2014+A3:2019 Textile floor coverings - Classification

Deviations None

### 3 Results

#### 3.1 Basic Requirements

Parameter	Result	Annex
Colour fastness to light	grade 5-6	LE
Colour fastness to rubbing - wet - dry	grade 3-4 grade 4-5	RE
Colour fastness to water - change in colour - staining	grade 4-5 grade 3	WE
<b>Basic requirements</b>	fulfilled	

#### 3.2 Use Classification

Parameter	Result
<b>Changes in appearance</b>	
Short term testing (median value)	3.5 AV
Long term testing (median value)	3.0 AV
Classification for change in appearance	class 33
<b>Level of Use</b>	<b>class 33</b>

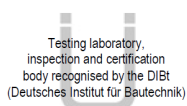


### 3.3. Luxury Rating

Luxury class	Annex
LC 3	KM



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## Partial Report AV - Changes In Appearance

### 1 Transaction

TFI sample number 2300024

### 2 Test Method / Requirements

ISO 10361:2015 Production of changes in appearance by means of Vettermann drum and hexapod tumbler tester

Assessment standard EN ISO 9405:2017

Deviation 

- No individual results of assessors given

Test method method A (Vettermann drum)

Type of underlay none

Number of assessors 3

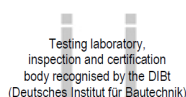
Type of vacuum cleaner Vorwerk Kobold VT270 / EB370 with rotating brush

Assessment scale ISO cut

### 3 Results

Parameter	Short-term wear (5,000 cycles)		Long-term wear (20,000 cycles)	
	Mean value	Median value	Mean value	Median value
Assessment	3.5	3.5	2,8	3
Grey Scale	3.8	4	2.8	3
Dominant property	structure, colour, pattern		structure, colour, pattern	

Comments / special observations: none





## Partial Report KM - Characteristics

### 1 Transaction

TFI-sample number 2300024

### 2 Test Method / Requirements

ISO 1765:1986	Determination of thickness
ISO 1766:1999	Determination of thickness of pile
ISO 1763:2020	Determination of number of tufts
ISO 8543:2020	Methods for determination of mass
Deviations	<ul style="list-style-type: none"> <li>Determination of mass of pile per unit area on sample size :</li> </ul>
Number of samples	4
History of the sample	not known
Tested with guarded ring	yes
Test climate	(20 ± 2) °C, (65 ± 4) % rel. Humidity
Type of shearing machine	Bandknife splitting machine

### 3 Ergebnisse

Parameter	Sample 1	Sample 2	Sample 3	Sample 4	Mean value	CV
Total thickness mm	13,3	13,6	13,3	13,6	<b>13,4</b>	1,2
Total mass per unit area g/m <sup>2</sup>	2357	2378	2394	2344	<b>2368</b>	0,9
Thickness of pile mm	7,3	7,4	7,2	7,5	<b>7,3</b>	1,4
Mass of pile per unit area g/m <sup>2</sup>	690	682	685	676	<b>683</b>	0,8
Number of tufts length per 10 cm	30,6	30,4	30,5	30,4	<b>30,5</b>	-
Number of tufts cross per 10 cm	27,3	27,2	27,3	27,4	<b>27,3</b>	-
Number of tufts per unit area per dm <sup>2</sup>	836	827	833	833	<b>833</b>	0,5
Surface pile density g/cm <sup>3</sup>	0,09	0,09	0,09	0,09	<b>0,09</b>	2,1

Comments: none

CV=Coefficient of friction

## Partial Report LE - Light Fastness

### 1 Transaction

TFI sample number 2300024

### 2 Test Method / Requirements

ISO 105-B02:2014 Colour fastness to artificial light: Xenon arc fading lamp  
 Test device Q-Sun Xe-2  
 Test method 2  
 Illumination conditions A - Normal conditions (moderate zone)  
 Turning of the specimen holder no  
 Deviations None

### 3 Results

Rating scale	Colour fastness (grade)	Type of colour change
Grade 1: BS 2 ~ GS 3 (preliminary assessment)	8	-
Grade 2: BS 4 ~ GS 4	7	lighter
Grade 3: BS 6 ~ GS 4	5-6	lighter
Grade 4: BS 7 ~ GS 4	4	lighter
<b>Overall grade</b> (arithmetic mean of Grade 2, 3 and 4)	<b>5-6</b>	lighter

BS: Blue scale, GS: Grey scale

Comments: none



## Partial Report RE – Rubbing Fastness

### 1 Transaction

TFI sample number 2300024

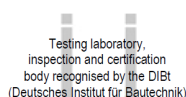
### 2 Test Method / Requirements

ISO 105-X12:2016	Colour fastness to rubbing
Deviation	<ul style="list-style-type: none"> <li>Size of the rubbing cloth 50 mm x 50 mm</li> </ul>
Conditioning of specimens and rubbing cloth	At least 24 h at (20 ± 2) °C and (65 ± 4) % rel. humidity
Test climate	(20 ± 2) °C, (65 ± 2) % rel. humidity
Rod and Force	Rectangular rod with force according standard

### 3 Results

Fastness grade for staining			
Production direction		Cross production direction	
dry	wet (water absorption in %)	dry	wet (water absorption in %)
4-5	4 (100)	4-5	3-4 (100)

Comments: none



## Partial Report WE – Water Fastness

### 1 Transaction

TFI sample number 2300024

### 2 Test Method / Requirements

ISO 105-E01:2013

Colour fastness to water

Deviations

- Textile floor covering and adjacent fabric are not sewn together

Multi-fibre adjacent fabric

According to ISO 105-F10:2009

### 3 Results

Parameter	Fastness (grey scale grade)
Change in colour of the specimen	4-5
Staining on acetate	4
Staining on cotton	3
Staining on polyamide 6.6	3-4
Staining on polyester	4
Staining on polyacrylnitrile	4
Staining on wool	3-4

Comments: none