#### TECHNICAL SPECIFICATIONS

Quality

: KT-31

Yarn Fiber

: 100% Polypropylene (PP) Solution Dyed

Gauge and Structure : 1/12" Multi-Level Loop Machine Tufted

Size

: 50cm x 50cm

Packing

: 20pcs./box (5m<sup>2</sup>)

Pile Weight

 $\pm 20$ oz./yd<sup>2</sup> (680g/m<sup>2</sup>)

Total Weight

: ± 4,800g./m<sup>2</sup>

Pile Height

: ± 3.5 / 4.0 / 4.5mm

Total Height

: ± 7.0mm

Primary Backing : 100% Spun Bonded Polyester ( Non-Woven )

Secondary Backing : PVC with Glass Fiber

Flooring Radiant Panel: ASTM E648-17 / NFPA 253

Smoke Density

: ASTM E662-15a / NFPA 258

Electrostatic Propensity : AATCC-134-2011 ≤ 1.9kv

Colorfastness : AATCC 16.3 (Light) / AATCC 107 (Water) ≥5.0

Dimensional Stability : ASTM D7570 / AACHEN / ISO2551

Delamination Strength: ASTM D 3936 (No Separation of Secondary Backing)

Tuft Bind of Pile

: ASTM D 1335 ( Average : 8.1 lbs )

Hexapod Drum Test : ASTM-D5252 / ASTM D-7330 / ISO/TR 10361

Environmental Cert. : C R I Green Label Plus GLP100036

Quality Management : ISO-9001:2015 / ISO-14001:2015 / ISO45001:2018



Test Number: 182123-1

PO Box 1948 - 1503 East Morris Street - Dalton, GA 30722
Phone: 706-278-3013 • Fax: 706-272-7057 • E-mail: info@lttslab.com

**Test Report** 

September 26, 2018

Subject: Specimens of the submitted sample were prepared and tested in accordance with ASTM E 648-17 and/or Federal Test Method 372. NFPA 253

#### FLOORING RADIANT PANEL TEST

#### Sample Description

PP Carpet Tiles (PVC Backing)

#### **Test Assembly**

Mounted on 6mm FRC Board (Using Premium Multi Purpose Adhesive)

Specimen No. 1	Specimen No. 2	Specimen No. 3
0.56 watts/cm <sup>2</sup> 37.0 cm 21.0 minutes	0.41 watts/cm <sup>2</sup> 46.0 cm 21.0 minutes	0.50 watts/cm <sup>2</sup> 40.0 cm 20.0 minutes
	0.56 watts/cm <sup>2</sup> 37.0 cm	0.56 watts/cm <sup>2</sup> 0.41 watts/cm <sup>2</sup> 37.0 cm 46.0 cm

Average Critical Radiant Flux	0.49	watts/cm²	
Estimated Standard Deviation	0.08	watts/cm²	

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15.4% coefficient of variation



Test Number: 180967-2

PO Box 1948 - 1503 East Morris Street - Dalton, GA 30722
Phone: 706-278-3013 • Fax: 706-272-7057 • E-mail: info@litslab.com

**Test Report** 

August 15, 2018

Subject

Specimens of the submitted sample were prepared and tested in accordance with the procedures proposed by the National Institute of Standards and Technology (formerly National Bureau of Standards), Technical Note 708 and NFPA 258, ASTM E 662-15a.

#### **SMOKE DENSITY TEST (NIST)**

#### **Operating Conditions**

Irradiance:

**Burner Fuel:** 

2.5 watts/cm<sup>2</sup>

G Factor

132

Thermal Exposure:

Flaming

Furnace Voltage:

98 Propane

#### Sample Description

PP Carpet Tiles (PVC backing)

#### **Test Results**

Chamber Temperature, °F (start)
Chamber Pressure
Minimum Transmittance (TM), %
at, minutes
Maximum Specific Optical Density (DM)
Clear Beam, (DC)
DM, CORRECTED (DMC)
Specific Optical Density at 1.5 minutes
Specific Optical Density at 4.0 minutes
Time to 90% DM, minutes
Time to DS = 16, minutes

# 1	#2	#3	Average
95	95	95	
Mair	tained positi	ve, under 3	" H₂O
83%	16%	11%	
9.02	2.65	9.83	7.17
275	237	259	257
53	45	37	45
222	192	222	212
109	127	113	116
249	216	171	212
6.73	2.32	7.18	5.41
0.83	0.70	0.85	0.79

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**Test Report** 

August 15, 2018

Subject: Sample(s) of carpet submitted for testing by the customer and identified below:

Sample Identification: PP Carpet Tiles

Test Method Conducted
AATCC 134-2011
Electrostatic Propensity of Carpets

#### Purpose and Scope

This test method is designed to assess the static generating propensity of carpets developed when a person walks across them by controlled laboratory simulation of conditions which may be met in practice, and more particularly, with respect to those conditions which are known from experience to be strongly contributory to excessive accumulation of static charges.

**Test Conditions:** 

Chamber Temperature: 70° F. Chamber Relative Humidity: 20%

Test Results:	Sole	Underlay	Maximum Voltage 1 (kV)	Maximum Voltage 2 (kV)	Averages (kV)
Test I Step Test	Neolite	Plate	Neg. 0.1	Neg. 0.1	Neg. 0.1
Test II Scuff Test	Neolite	Plate	Pos. 2.0	Pos. 1.8	Pos. 1.9
Test III Step Test	Leather	Plate	Pos. 0.4	.,	
Test IV Scuff Test	Leather	Plate	Pos. 0.4	**	

#### Soles:

- a) Neolite XS 664
- b) Suede Leather

#### **Underlayment:**

a) Plate: Earth grounded metal plate

Cesucith

b) H/J: Standard 40 oz./yd2 rubberized Hair/Jute cushlon

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Test Report

August 15, 2018

Subject: Sample(s) of carpet submitted for testing by the customer and identified below:

Sample Identification: PP Carpet Tiles

Test Method Conducted AATCC Test Method 107 Colorfastness to Water

#### Purpose and Scope

This test method is designed to measure the resistance to water of dyed, printed, or otherwise colored textile yarns and fabrics of all kinds.

#### Procedure

The specimen, backed by multifiber test fabric, is immersed in water under specified conditions of temperature and time, and then placed between glass or plastic plates under specified conditions of pressure, temperature and time. The change in color of the specimen and the staining of the altached multifiber test fabric are observed.

Test Specimen Identification	Gray Scale	Transference Scale
See Above;	5	5

	Key to Ratings
5	Negligible or no stain (change)
4	Slight stain (change)
3	Noticeable stain (change)
2	Considerable stain (change)
1	Severe stain (change)

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Page 1 of 1

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**Test Report** 

August 15, 2018

Subject: Sample(s) of carpet submitted for testing by the customer and Identified below:

Sample Identification: PP Carpet Tiles

Test Method Conducted
AATCC Test Method 16.3
Colorfastness to Light (Water-Cooled Xenon Arc)

#### Purpose and Scope

This test method provides the general principles and procedures which are currently in use for determining the colorfastness, to light of textile materials.

#### Procedure

Samples of the textile material to be tested and the agreed upon comparison standard(s) are exposed simultaneously to a light source under specified conditions. The colorfastness to light of the specimen is evaluated by comparison of the color change of the exposed portion to the masked or control portion of the test specimen using the AATCC Gray Scale for Color Change or by instrumental color measurement.

Test Specimen Identification	Number of Cycles	Rating
See Above	2 (40 AFU's)	5

	Key to Ratings
5	Negligible or no change
4	Slight change
3	Noticeable change
2	Considerable change
1	Severe change

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Page 1 of 1



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**Test Report** 

August 15, 2018

Subject: Sample(s) of carpet submitted for testing by the customer and identified below:

Sample Identification: PP Carpet Tiles (PVC backing)

#### Test Method Conducted ASTM D7570

Standard Test Method for Evaluation of Dimensional Stability of Pile Yarn Floor Covering (AACHEN/ISO2551)

Purpose and Scope

This test method covers the determination of dimensional changes in the lengthwise and widthwise direction and distortion likely to occur when pile floor coverings are exposed to various conditions of moisture and heat.

Test Condition	Measurement	Percent Change
Mo	19.7050	
MT <sub>1</sub>	19.6975	-0.038
MT <sub>2</sub>	19.7000	-0.025
MT <sub>3</sub>	19.6950	-0.051
MT <sub>4</sub>	19.7000	-0.025 -0.0050"

Test Condition	Measurement	Percent Change
C <sub>0</sub>	19.7175	
CT <sub>1</sub>	19.7113	-0.032
CT <sub>2</sub>	19.7163	-0.006
CT <sub>3</sub>	19.6938	-0.120
CT₄	19.7125	-0.025 -0.0050"

#### **Test Condition Key**

Mo	Machine Direction Original Measurement
Co	Cross Direction Original Measurement
T <sub>1</sub>	Two (2) hours in an oven at 60° C
T <sub>2</sub>	Two (2) hours in a .1% solution at 20° C
T <sub>3</sub>	Twenty-four (24) hours in an oven at 60° C
T4	Forty-eight (48) hours in standard climate at
	21° C & 65% RH

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**Test Report** 

August 15, 2018

Subject: Sample(s) of carpet submitted for testing by the customer and identified below:

Sample Identification: PP Carpet Tiles (PVC backing)

Test Method Conducted
ASTM D 3936 Delamination Strength of Secondary Backing of Pile Floor Coverings

#### Scope:

This method covers the determination of the delamination strength of secondary backing adhered to a finished pile floor covering.

TEST RESULTS				
	Ave	erage: No S	eparation	

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Page 1 of 1

Test Number: 180967-1



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August 15, 2018

Subject: Sample(s) of carpet submitted for testing by the Customer and identified below:

Sample Identification: PP Carpet Tiles

Test Method Conducted
ASTM D-5252 Hexapod Drum Tester
ISO/TR 10361 Hexapod Tumbler
Ratings Based on CRI TM-101 Photographic Scales
ASTM D-7330 Assessment of Surface Appearance Change in Pile Floor Coverings

#### APPARATUS: WIRA INSTRUMENTATION HEXAPOD TUMBLER CARPET TESTER

#### PROCEDURE:

The test specimen described above was subjected to the reported cycles of "Hexapod" tumbling, removing the specimen every 2,000 cycles for restoration by vacuuming.

A 6.7 Amp Shark handheld w/rotary brush was used, making four (4) forward and backward passes along the length of the specimen.

The samples were assessed using day-light equivalent vertical lighting (1500 lux). Samples were viewed at an angle of 45 degrees from 1½ meter distance, judging from all directions.

#### **TEST RESULTS:**

Number of Hexapod cycles	OVERALL APPEARANCE CHANGE
12,000	2.0

Key to Ratings
5 = Negligible or no change
4 = Slight change
3 = Moderate change
2 = Considerable change
1 = Severe change

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**Test Report** 

August 15, 2018

Subject: Sample(s) submitted for testing by the customer and identified below:

Sample Identification: PP Carpet Tiles

**Test Method Conducted** ASTM D 1335 Tuft Bind of Pile Floor Coverings

#### Scope:

This test method covers the determination of the force required to pull a tuft completely out of a cut pile floor covering or to pull one or both legs of a loop free from the backing of looped pile floor coverings.

#### **Test Results**

1)	7.3	6)	6.9	11)	9.4
2)	10.1	7)	6.9	12)	10.3
3)	8.7	8)	8.5	13)	8.6
4)	7.6	9)	8.8	14)	6.6
5)	6.9	10)	7.7	15)	7.4

Average Tuft Bind: 8.1 lbs.

President L. Kent Suddeth

# GREEN LABEL PLUS

INDOOR AIR QUALITY TESTING PROGRAM
THIS CERTIFIES THAT

Address: No.198 Nanxing Road, Jiashan Country, Jiaxing, Zhejiang China

HAS MET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM FOR CATEGORY:

31X Pre-dyed Polypropylene with PVC Backing

Range of Total VOCs 0.5 mg/m³ or less

Product Type: Modular Tile

Joe W. Yarbrough, President The Carpet and Rug Institue, Inc.

Certification Date: 01/31/2018 Expiration Date: 12/31/2021

To view all GLP-Certified products visit www.carpet-rug.org/glpproducts

Page 1 of 1



100 SOUTH HAMILTON STREET DALTON GA 30720-4612 UNITED STATES



# GLP100036

This product complies with California DPH Section 01350
Version 1.2
Private Office Scenario.

A USGBC® recognized third party certification program for LEED v4 EQ Credit Low-Emitting Materials.



ISO/IEC 17065
Product Certification Body
#0754



# ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00120E32742R4M/3600

We hereby certify that

Dongxing Road, High-Tech Industrial Development Zone, Xinyu City, Jiangxi Province China

by reason of its

#### **Environmental Management System**

has been awarded this certificate for compliance with the standard

GB/T 24001-2016 / ISO 14001:2015

The Environmental Management System Applies in the following area:

Design and Production of Carpets and Related Management Activities

Certified since: October 9, 2008 Valid from: August 19, 2020 Valid until: September 23, 2023

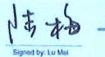
After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.

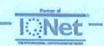
Please access www.cqc.com.cn for checking validity of the certificate.

This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's Republic of China ( www.cnca.gov.cn).











#### **CHINA QUALITY CERTIFICATION CENTRE**

Section 9, No.188; Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070, China http://www.cqc.com.en



### OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00118S31114R2M/3600

We hereby certify that

Dongxing Road, High-Tech Industrial Development Zone, Xinyu City, Jiangxi Province China

has been awarded this certificate for compliance with the standard

GB/T 45001-2020 / ISO45001:2018

The Occupational Health and Safety Management applies in the following area:

Design and Production of Carpets and Related Management Activities

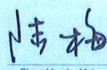
Certified since: November 14, 2012 Valid from: August 18, 2020 Valid until: October 13, 2021

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.

Please access www.cqc.com.cn for checking validity of the certificate.

This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's Republic of China ( www.cnca.gov.cn).











#### **CHINA QUALITY CERTIFICATION CENTRE**

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## QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00120Q36369R4M/3600
We hereby certify that

Unified Social Credit Code: 91360500763355520R

Dongxing Road, High-Tech Industrial Development Zone, Xinyu City, Jiangxi Province China

by reason of its
Quality Management System
has been awarded this certificate for compliance with the standard
GB/T 19001-2016 / ISO 9001:2015
The Quality Management System Applies in the following area:

**Design and Production of Carpets** 

Certified since: October 13, 2008 Valid from: August 17, 2020 Valid until: September 25, 2023

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.

Please access www.cqc.com.cn for checking validity of the certificate.

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