

PRODUCT SPECIFICATIONS

	Dimensions	Overall Thickness:	2.5MM	
	Dimensions	Width and Length:	228.6 X 1219.2 X 2.5MM	
		Per Carton	16 Planks 4.4593 sq.m. 22.5 kgs.	
	Packaging	Per Pallet	48 Cartons 214.05 sq.m. 1100 kgs.	
		Per 20'GP Container	22 Pallets 4709.10 sq.m. 24200 kgs.	
	Construction		High Definition Decor Film	
		Top Layers	Ceramic Bead UV-Polyurethane Coating	
Dun de cat			0.55MM Wear Layer	
Product		Core	2.5mm Vinyl Composite: 0% wood,	
			100% Virgin Material	
		Density	≥ 1950 kg/m3	
		Pad	Not Recommended	
		Bevel	V Bevel	
	Installation	Glue Down		
	Under Floor Heating	Approved - See installation manual for details		
	Warranty	Lifetime limited residential, 10 year limited light commercial, 6 year limited commercial		

S/N	Performance / Properties	Test Method	Criteria
А	. Dimensions and Dimension Tol	erance	
1	Tile side length	ISO 24342 or EN 427	≤0.15% of nominal length up to 0.5mm maximum
2	Tile square-ness	ISO 24342 or EN 427	Permissible deviation For ≤ 400mm : ≤0.25mm For > 400mm : ≤0.35mm
3	Overall thickness	ISO 24346 or EN 428	Average value should be nominal value with a tolerance of - 0.10/+0.13 mm. Individual results should be average value ± 0.15mm.
4	Thickness of wear layer	ISO 24340 or EN 429	Average value should be nominal value with a tolerance of - 0.10/+0.13% but not more than 0.1mm. Individual values should not vary more than 0.05mm or 15% below the average, whichever is greater.
5	Total mass per unit area	ISO 23997 or EN 430	Average value (g/m^2) should be nominal value with a tolerance of - $10\% / +13\%$.
В	. Physical Properties		•
1	Dimensional stability after exposure to heat	ISO 23999 or EN 434	≤ 0.25%
2	Curling after exposure to heat	ISO 23999 or EN 434	≤ 2mm
3	Residual indentation	ISO 24343-1 Part 1 or EN 433	≤ 0.1mm
4	Effect of castor chair	ISO 4918 or EN 425	After 25,000 cycles, no delamination shall occur. No disturbance to the surface other than a slight change in appearance Type W; Only minor changes in surface, no delamination
5	Abrasion resistance	EN 660 Part 1 & 2	Wear Group T Volume loss F≤ 2.0mm ³
6	Slip resistance	SS 485 (Dry floor friction test)	Coefficient of friction ≥ 0.4
		SS485 (Wet condition- pendulum friction test)	Classification X minimum

	C. Chemical Properties		
1	Color fastness to artificial light	ISO 105-B02 or	Grade 6 minimum
		ASTM F1515	$\Delta E \le 8$ after 300 hr where E is irradiance in W/m ²
2	Stain & Chemical resistance	ISO 26987	Achieve Class 0 – no change, when test with common household
		or	stains and chemicals
		EN 423	e.g. Olive oil, Coffee, Vinegar, Wine, Household ammonia,
			Household bleach etc. for contact duration of 2 hours
	D. Fire Performance	•	<u> </u>
1	Toxicity	BS 6853 Annex B	Achieve R < 1.0
2	Smoke Production	EN 13501-1 / EN	Achieve S1
3	Flame spread/ignition	EN 13501-1 / EN	Achieve B fl
4	Cigarette burn	EN 1399	Class 3 minimum
	E. Other Criteria		
1	Floor Score recognized by	Indoor Air Quality Ce	rtified to SCS-EC10.3-2014 v4.0
	SCS Global Services	Conforms to the CDP	H/EHLB Standard Method v1.2-2017 for the school classroom and private
		office parameters wh	en modeled as Flooring.
		Measured Concentra	tion of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5
		mg/m3	
2	CE Certificate recognized by	Comply with the tech	nical requirements referenced in EN 14041,EN 13501-1,EN717-1 and EN
	Center for textile Science and	13893	
	Engineering		



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DEPARTMENT OF MATERIALS, TEXTILES AND CHEMICAL ENGINEERING

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Contact

Didier Van Daele

e-mail

FloorAndFire@ugent.be

date

06/08/2020

TEST REPORT 20-0703-01

Samples received

Name	Date of receipt
PVC Flooring 1.5mm	17/07/2020

Aim of the test

Determination of the fire behaviour

Test conditions

Small flame test

Standard:

ISO 11925-2 (2010 + AC 2011)*

Method:

The use surface of a vertically put specimen placed (loose laid) on a fibre cement board (according to EN 13238) is ignited by a propane gas flame. Under condition of a surface flame attack with 15 s exposure time, there shall be no flame spread in excess of 150 mm vertically from the point of the test flame within 20 s from the time

application.

If the boundary line is not reached within 20 s, the sample meets the requirements

for the class E_{fl}.

Number of tests:

Conditioning

3 lengthwise and 3 crosswise 23 ± 2 °C and 50 ± 5 % R.H.

samples:



Fire Behaviour

Standard:

EN ISO 9239-1 (2010)*

Method:

Before the test the samples are not cleaned.

A floorcovering is put on (**loose laid**) a fibre cement board (according to EN 13238). During the test, the specimen is irradiated by a gas radiator at an angle of 30°. A small flame is used to ignite the specimen. The specimen is ignited during 10 minutes. In case of inflammable specimens, the test lasts until the flame is extinguished, but 30 minutes at the most. The criterion is the burned length, from

which the critical radiant flux is deduced using a calibration curve.

Number of tests:

Conditioning

 23 ± 2 °C and 50 ± 5 % R.H.

samples:

The tests were finished in week 32/2020.

OBTAINED RESULTS

Small flame test

Ignition time: 15 s

Lengthwise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
1	15		no
2	18	-	no
3	15		110

Crosswise

Sample	Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
	15		
2	15		no
3	16		no

Fire behaviour

Specimen number	1 Length	2 Width	3 Width	4 Width	Average Specimens 2,3,4
Flame spread after 10 min (mm)	80	85	65	95	
Flame spread after 20 min (mm)	80	85	65	95	
Flame spread after 30 min (mm)	80	85	65	95	
Flame spread at extinction (mm)	80	85	65	95	
Flame time	12min 0s	12min 11s	12min 0s	12min 12s	
Critical heat flux CHF at extinction (kW/m²)	11.0	11.0	11.0	11.0	11.0
Total smoke production at end of test (%.min)	32	40	52	43	45

LIEDTS Eddy Technician

Didier Van Daele Head of Floor covering and Fire Tests

Prof. Dr. Paul KIEKENS, dr. h. c. Director

ENCLOSURE TO REPORT 20-0703-01

Classification according to EN 13501-1

Warning: this statement cannot be used for CE labelling purposes

Classification	EN ISO 11925-2 (ignition time = 15 s)	EN ISO 9239-1 (test period = 30 min)	CLASS
Bf	Fs ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m²	X
C fl	Fs ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m²	
Dfl	Fs ≤ 150 mm in 20 s	Critical flux ≥ 3.0 kW/m²	en de la composition della com
En	Fs ≤ 150 mm in 20 s	No demand	
Fn	No demand	No demand	

Additional classification smoke development

		CLASS
Smoke development ≤ 750%.min	s1	X
Smoke development > 750%.min	\$2	



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Contact

Didier Van Daele

e-mail

FloorAndFire@ugent.be

date

06/08/2020

TEST REPORT 20-0703-03

Samples received

Name	
PVC Flooring 12mm	Date of receipt
FVC Flooring 12mm	17/07/2020

Aim of the test

Determination of the fire behaviour

Test conditions

Small flame test

Standard:

ISO 11925-2 (2010 + AC 2011)*

Method:

The use surface of a vertically put specimen placed (loose laid) on a fibre cement board (according to EN 13238) is ignited by a propane gas flame. Under condition of a surface flame attack with 15 s exposure time, there shall be no flame spread in excess of 150 mm vertically from the point of the test flame within 20 s from the time

If the boundary line is not reached within 20 s, the sample meets the requirements

for the class E_{fl}.

Number of tests:

Conditioning

3 lengthwise and 3 crosswise 23 ± 2 °C and 50 ± 5 % R.H.

samples:



Fire Behaviour

Standard:

EN ISO 9239-1 (2010)*

Method:

Before the test the samples are not cleaned.

A floorcovering is put on (loose laid) a fibre cement board (according to EN 13238). During the test, the specimen is irradiated by a gas radiator at an angle of 30°. A small flame is used to ignite the specimen. The specimen is ignited during 10 minutes. In case of inflammable specimens, the test lasts until the flame is extinguished, but 30 minutes at the most. The criterion is the burned length, from which the critical radiant flux is deduced using a calibration curve.

Number of tests:

Conditioning samples:

 23 ± 2 °C and 50 ± 5 % R.H.

The tests were finished in week 32/2020.

OBTAINED RESULTS

Small flame test

Ignition time: 15 s

Lengthwise

Sample	Burning time (s) After glowing time			
1	15		reached within 20 s	
2	15		ПО	
3	4 F		no	
	15	-	no	

Crosswise

Burning time (s)	After glowing time (s)	Boundary line reached within 20 s
15		The state of the s
15		no
15		no
	15 15 15	Burning time (s) After glowing time (s) 15 15 - 15 - 15

Fire behaviour

Specimen number	1 Length	2 Width	3 Width	4 Width	Average Specimens 2,3,4
Flame spread after 10 min (mm)	105	120	130	125	
Flame spread after 20 min (mm)	105	120	130	125	
Flame spread after 30 min (mm)	105	120	130	125	
Flame spread at extinction (mm)	105	120	130	125	
Flame time	12min 29s	12min 15s	12min 19s	12min 13s	
Critical heat flux CHF at extinction (kW/m²)	11.0	10.4	10.4	10.5	10.4
Total smoke production at end of test (%.min)	71	71	64	69	/ 68

LIEDTS Eddy Technician

Didier Van Daele Head of Floor covering and Fire Tests

Prof. Dr. Paul KIEKENS, dr. h. c. Director

ENCLOSURE TO REPORT 20-0703-03

Classification according to EN 13501-1

Warning: this statement cannot be used for CE labelling purposes

Classification	EN ISO 11925-2 (ignition time = 15 s)	EN ISO 9239-1 (test period = 30 min)	CLASS
BfI	Fs ≤ 150 mm in 20 s	Critical flux ≥ 8.0 kW/m²	
C fl	Fs ≤ 150 mm in 20 s	Critical flux ≥ 4.5 kW/m²	
D _{fl}	Fs \leq 150 mm in 20 s Critical flux \geq 3.0 kW/m ²		n na
En	Fs ≤ 150 mm in 20 s	No demand	
Ffl	No demand	No demand	anaga un perpentingua de la comercia de la describación de la comercia del la comercia de la comercia del la comercia de la comercia del la comercia de la comercia de la comercia del la comercia de la comercia del la comercia

Additional classification smoke development

		CLASS
Smoke development ≤ 750%.min	s1	V
Smoke development > 750%.min		



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Classification Report

CLASSIFICATION OF REACTION TO FIRE PERFORMANCE IN ACCORDANCE WITH EN 13501-1:2018

Sponsor		-
Manufacturer:		-
Prepared by	Ghent University - Centre for Textile Science and Engineering	
	Technologiepark 70A, 9052 Zwijnaarde, Belgium	
Notified Body N°	1611	\dashv
Product Name	PVC Flooring (as given by the sponsor)	\dashv
Report N° / Issue N°	CR 20-0703-01	\dashv
Date of issue	6/08/2020	\dashv

1. Introduction

This classification report defines the classification assigned to PVC Flooring, in accordance with the procedures given in EN 13501-1:2018

2. Details of classified product

2.1 General

The product PVC Flooring is defined as being suitable for floor covering applications.

2.2 Product description

The product, PVC Flooring is described below and in the test report(s) listed in Clause 3.1.

Product description	PVC resin, Calcium Carbonates, Stabilizers, Plasticizers
Composition of use-surface	UV coating
Composition of backing layer	Pvc bottom layer
Flame retardant treatment	No



3. Reports and Results in support of Classification

3.1 Test reports

Name of test laboratory Ghent University - Centre for Textile Science and Engineering	Name of sponsor	Test report number 20-0703-01 20-0703-03	Test method EN ISO 9239-1
Ghent University - Centre for Textile Science and Engineering		20-0703-01 20-0703-03	EN ISO 11925-2

3.2 Test results

Test method	Parameter	No. of tests	Re	sults
			Average	Compliance
EN ISO 9239-1	Critical flux (kW/m²)	4	11.0	BfI
	Smoke (%.min)		45	s1
EN ISO 11925-2	Fs	6	PASS	PASS
EN ISO 9239-1	Critical flux (kW/m²)	4	10.4	BfI
	Smoke (%.min)		68	s1
EN ISO 11925-2	Fs	6	PASS	PASS

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018

4.2 Classification

The product, PVC Flooring, in relation to its reaction to fire behavior is classified: $\bf B_{fl}$ The additional classification in relation to smoke production is: $\bf S1$

Therefore, taking into account the limitations given in §5:

Reaction to fire classification: B # - s1



4.3 Field of application

This classification is valid for the following product parameters:

	Min.	Max.	
Range of total mass (kg/m²)	2.85	23	
Range of total thickness (mm)	1.5	12	

This classification is valid for the following end use applications:

Deposition method	*
Substrates	Not specified
Joints	H.
Other aspects of end use conditions	Used as interior flooring for home, hotel, school, office, hospital, shops etc.

5. Limitations

This classification document does not represent type approval or certification of the product.

The test laboratory has played no part in sampling the product of the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

Johanna Louwagie Head of certification

Prof. Dr. Paul KIEKENS, dr. h. c. Director



Test Report Date: 02 Nov 2020 ASH20-066044-01

Client Name: Client Address:

Sample Name: VINYL FLOORING

Manufacturer: Sample Batch No.: **Production Date:**

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS Reference No.: SHIN2010067224CM

Date of Sample Received: 27 Oct 2020

Testing Period: 27 Oct 2020 - 02 Nov 2020

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s). Test Result(s): Please refer to next page(s).

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SGS Authorized Signature

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Test Report Date: 02 Nov 2020 ASH20-066044-01

Sample Description:

SGS Sample ID Description Specimen No. ASH20-066044.001 1 sample in bag

Test Result(s):

Test Requested: Test of antimicrobial activity

Test Method: ISO 22196:2011 Measurement of antibacterial activity on plastics and other non-porous

surfaces

ASH20-066044.001

Test organism(s)	Escherichia coli ATCC 8739
Concentration of bacteria (cells/mL)	3.5x10^5
Volume of test inoculum (mL)	0.4
U₀	3.95
Ut	6.00
At	3.90
B (cells/cm²)	1.0x10^6
C (cells/cm²)	8.0x10^3
R	2.1
*The antibacterial activity rate (%)	99.2

Notes:

- 1. The control sample is plastic film without antimicrobial activity, provided by SGS laboratory.
- 2.U_o: the average of the common logarithm of the number of viable bacteria(cells/cm²) recovered from the 验检测专用 tion & Testing Si untreated test specimens immediately after inoculation.
- 3.Ut: the average of the common logarithm of the number of viable bacteria(cells/cm²) recovered from the untreated test specimens after 24 h.
- 4.At: the average of the common logarithm of the number of viable bacteria(cells/cm²) recovered from the treated test specimens after 24 h.
- 5.R: the value of antimicrobial activity, R=Ut-At.
- 6.* The calculation formula of the antibacterial activity rate is 【(B-C)/B】*100%;
- B: arithmetic average of the numbers of bacteria obtained from control samples after 24 h incubation(cells/cm²);
- C: arithmetic average of the numbers of bacteria obtained from samples after 24 h incubation(cells/cm²).
- 7.Pre-treatment: The surface of test specimen was wiped with 70% ethanol, rinsed with sterile water and let it air-dry.
- 8.Test the vertical stripe side.

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Test Report ASH20-066044-01 Date: 02 Nov 2020

Sample photo:



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*** End ***



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Page 3 of 3



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No.: SHIN180702077CCM

Date: Jul. 13, 2018

Page: 1 of 3

CUSTOMER NAME:

ADDRESS:

Sample Name : LVT

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required : Dimension stability

Test Method : ASTM F2199-09(2014)

Date of Receipt : Jul. 09, 2018
Testing Start Date : Jul. 09, 2018
Testing End Date : Jul. 13, 2018

Test result(s) : For further details, please refer to the following page(s)

(Unless otherwise stated the results shown in this test report refer only to

the sample(s) tested)

Signed for SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jovce Li

Authorized signatory

oyce





No.: SHIN180702077CCM

Date: Jul. 13, 2018

Page: 2 of 3

Summary of Result(s):

No.	Test Item	Test Method	Result	Conclusion
1	Dimension stability	ASTM F2199-09(2014)	See Result	/

Note: Pass : Meet the requirements;

Fail: Does not meet the requirements;

/: Not Apply to the judgment.

Test item: Dimensional stability

Test method: ASTM F2199-09(2014)

Test condition:

Specimen: 18in×18in×0.086in, 3pcs

Pretreatment condition: Conditioning in air maintained at $23\pm1^{\circ}$ C and $50\pm5\%$ RH for 24h

Heating temperature: 82°C

Heating time: 6h

Lab environmental condition: 23±1 °C, 50±5%RH

Test result:

	Test result				
Test Item	Linear change		Average value		
	MD	AMD	MD	AMD	
	-0.070	-0.095			
Linear change (%)	-0.052	-0.075	-0.057	-0.079	
	-0.050	-0.066			

Note: A negative value indicates shrinkage, and a positive value indicates expansion.



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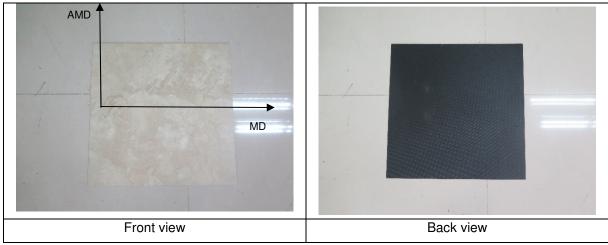


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Page: 3 of 3

Sample photos:



****** End of report******

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No.: SHIN180702076CCM

Date: Jul. 13, 2018

Page: 1 of 3

CUSTOMER NAME:

ADDRESS:

Sample Name : LVT

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required : Impact

Test Method : ASTM F1265-03a(2013)

Date of Receipt : Jul. 09, 2018
Testing Start Date : Jul. 09, 2018
Testing End Date : Jul. 13, 2018

Test result(s) : For further details, please refer to the following page(s)

(Unless otherwise stated the results shown in this test report refer only to

the sample(s) tested)

Signed for SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Joyce Li

Authorized signatory

oyce





No.: SHIN180702076CCM

Date: Jul. 13, 2018

Page: 2 of 3

Summary of Result(s):

No.	Test Item	Test Method	Result	Conclusion
1	Impact	ASTM F1265-03a(2013)	See Result	/

Note: Pass: Meet the requirements;

Fail: Does not meet the requirements;

/: Not Apply to the judgment.

Test item: Impact

Test method: ASTM F1265-03a(2013)

Test condition:

Specimen: 150mm×150mm×2mm, 3pcs

Pretreatment condition: Conditioning in air maintained at $25\pm1^{\circ}$ C and $50\pm5\%$ RH for 24h

Steel ball: Diameter: 25.4mm, Weight: 65g

Height of Impact: 508mm

Number of impact times: 4 times

Lab environmental condition: 25±1 °C, 50±5%RH

Test result:

Test item	Test result
	The tile did not break or crack.
Impact	The tile did not break or crack.
	The tile did not break or crack.



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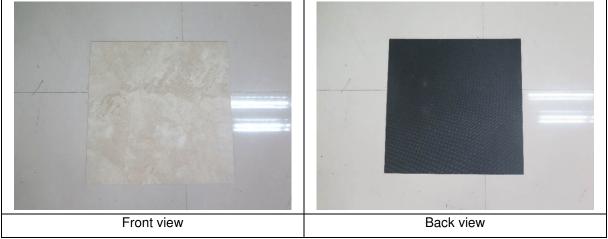


No.: SHIN180702076CCM

Date: Jul. 13, 2018

Page: 3 of 3

Sample photos:



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No.: SHIN180702075CCM

Date: Jul. 13, 2018

Page: 1 of 4

CUSTOMER NAME:

ADDRESS:

Sample Name : LVT

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required : Residual indentation

Test Method : ASTM F1700-18 Section 6.5 & ASTM F1914-17

Date of Receipt : Jul. 09, 2018
Testing Start Date : Jul. 09, 2018
Testing End Date : Jul. 13, 2018

Test result(s) : For further details, please refer to the following page(s)

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Signed for SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jovce Li

Authorized signatory

oyce





No.: SHIN180702075CCM

Date: Jul. 13, 2018

Page: 2 of 4

Summary of Result(s):

No.	Test Item	Test Method	Test Result	Conclusion
4	Residual indentation	ASTM F1700-18 Section	5.9%	,
'	nesiduai indentation	6.5 & ASTM F1914-17	5.9 %	1

Pass: Meet the requirements; Note:

Fail: Does not meet the requirements;

/: Not Apply to the judgment.





No.: SHIN180702075CCM

Date: Jul. 13, 2018

Page: 3 of 4

Test item: Residual Indentation

Test method: ASTM F1700-18 Section 6.5 & ASTM F1914-17

Test condition:

Specimen: 50mm×50mm×2mm, 3pcs

Pretreatment condition: Conditioning in air maintained at 23±2℃ and 50±5%RH for 6h

Test temperature: 23°C Foot diameter: 4.52mm

Total load: 63.5kg

Indentation time: 10min Recovery time: 60min

Lab environmental condition: 23±2°C, 50±5%RH

Test result:

Test Item	Test result			
	Individual value			Average value
Residual Indentation (%)	5.2	7.2	5.3	5.9



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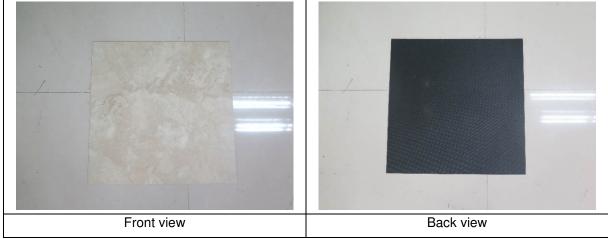


No.: SHIN180702075CCM

Date: Jul. 13, 2018

Page: 4 of 4

Sample photos:



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No.: SHIN180702078CCM

Date: Jul. 13, 2018

Page: 1 of 3

CUSTOMER NAME:

ADDRESS:

Sample Name : LVT

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required : Static load resistance

Test Method : ASTM F970-17

Date of Receipt : Jul. 09, 2018

Testing Start Date : Jul. 09, 2018

Testing End Date : Jul. 13, 2018

Test result(s) : For further details, please refer to the following page(s)

(Unless otherwise stated the results shown in this test report refer only to

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Signed for SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jovce Li

Authorized signatory

oyce





No.: SHIN180702078CCM

Date: Jul. 13, 2018

Page: 2 of 3

Summary of Result(s):

No.	Test Item	Test Method	Test Result	Conclusion
1	Static load resistance	ASTM F970-17	0.01mm	/

Note: Pass : Meet the requirements;

Fail: Does not meet the requirements;

/: Not Apply to the judgment.

Test item: Static load resistance Test method: ASTM F970-17

Test condition:

Specimen: 50.8mm×50.8mm×2mm, 3pcs

Pretreatment condition: Conditioning in air maintained at $23\pm2^{\circ}$ C and $50\pm5\%$ RH for 24h

Load specified by client: 75lb Indenter Diameter: 28.6mm

Holding time: 24h Recovery time: 24h

Lab environmental condition: 23±2°C, 50±5%RH

Test result:

Test item	Test result				
rost tion	Individual value			Average value	
Static load resistance– Residual indentation (mm)	0.00	0.02	0.02	0.01	



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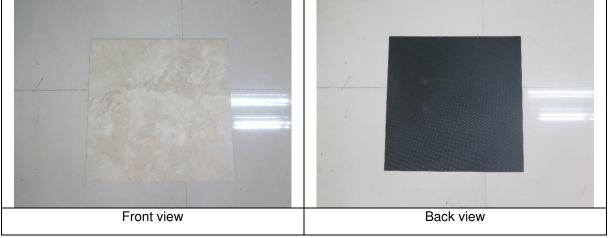


No.: SHIN180702078CCM

Date: Jul. 13, 2018

Page: 3 of 3

Original sample photo(s):



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No.: SHIN170400938CCM

Date: Apr. 14, 2018

1

CUSTOMER NAME:

ADDRESS:

Sample Name: VINYL FLOOR

Product specification: 180×1220×2.5mm

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required : Wear resistance

Test Method : EN 660-2:1999+ A1:2003 & EN 649:2011

Date of Receipt : Apr. 05, 2017
Testing Start Date : Apr. 05, 2017
Testing End Date : Apr. 14, 2017

Test result(s) : For further details, please refer to the following page(s)

(Unless otherwise stated the results shown in this test report refer only to

the sample(s) tested)

Signed for

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Erin Huang

Authorized signatory





No.: SHIN170400938CCM

Date: Apr. 14, 2018

Page: 2 of 4

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Wear resistance	EN 660-2:1999+ A1:2003 & EN 649:2011	See result	1

Note: Pass : Meet the requirements;

Fail: Does not meet the requirements;

/: Not Apply to the judgment.





No.: SHIN170400938CCM

Date: Apr. 14, 2018

Page: 3 of 4

Test Item: Wear resistance Sample Description: See photo

Test Method: EN 660-2:1999+ A1:2003 & EN 649:2011

Test Condition:

Weigh the specimens to an accuracy of ± 0.1 mg after conditioning. Load each wheel with a weight of (1 ± 0.01) kg. The flow of abrasive is (21 ± 3)g/min. Abrade one specimen during 5000 revolutions, with a break for weighing after each cycle of 1000 revolutions, and then test the two remaining specimens. If, however, the first specimen is abraded through before 5000 revolutions, discard it and test the two remaining specimen in cycles of 200 revolutions stopping the test after 2000 revolutions or when the specimen is abraded through.

Calculate the average mass loss. Fm, in milligrams per 100 revolutions for each specimen as follows:

$$F_m = \frac{F_{tot} \times 100}{n}$$

Calculate the loss of volume for each specimen for 100 revolutions as follows:

$$F_{V} = \frac{F_{m}}{\overline{\rho}}$$

Requirement of EN 649:2011:

Characteristic	Requirements for wear group				
Gharastonstis	Т	Р	М	F	
Volume loss Fv(mm³)/100 revolutions	Fv≤2.0	2.0 <fv≤4.0< td=""><td>4.0<fv≤7.5< td=""><td>7.5<fv≤15.0< td=""></fv≤15.0<></td></fv≤7.5<></td></fv≤4.0<>	4.0 <fv≤7.5< td=""><td>7.5<fv≤15.0< td=""></fv≤15.0<></td></fv≤7.5<>	7.5 <fv≤15.0< td=""></fv≤15.0<>	

Test result:

Test result	Wear group
Fv=0.20 mm ³ /100 revolutions	Т

Note: 1. Test specimens were cut from the sample.

2. The test was performed by SGS other internal laboratory.



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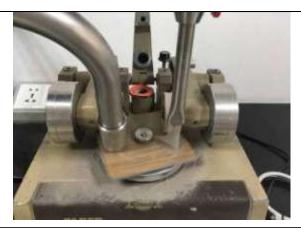


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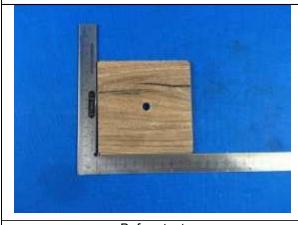
Date: Apr. 14, 2018

Page: 4 of 4

Test Photos:



During test







After test

****** End of report*****



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CENTRE FOR TEXTILE SCIENCE AND ENGINEERING

DEPARTMENT OF MATERIALS, TEXTILES AND CHEMICAL ENGINEERING

Technologiepark 70A, B-9052 Gent T+32 9 264 S7 35 - F+32 9 264 S8 46 www.textiles.ugent.be - textiles@ugent.be

TYPE EXAMINATION CERTIFICATE

No. 20-0703-01

Certificate issued by Notified Body N° 1611

1. Product name: PVC Flooring

2. Product material: PVC

3. Product type:

a. thickness: 1.5 mm - 12 mm
 b. density: 1800 - 2000 kg/m³

4. Numerical code of product classification:

a. fire behaviour: B fl s1
b. formaldehyde: E1
c. slip resistance: DS

- 5. Usage of the product: Used as interior flooring for home, hotel, school, office, hospital, shops etc.
- 6. Manufacturer:

7. Address:

This certificate assures the compliance of properties of the product, which complies with the technical requirements referenced in EN 14041, EN 13501-1, EN 717-1 and EN 13893. The certificate only applies to materials that correspond to the tested sample.

The results of tests and findings on conformity of the properties of the given type with technical requirements are referenced in classification report CR-20-0703-01, Test Reports 20-0703-01, 20-0703-02, 20-0703-03 and MVZ-A-2020-001501.

Date of issuing: 6/08/2020 Valid until: August 2025

The Centre for Textile Science and Engineering of Ghent University (Belgium) is recognized as notified laboratory

N° 1611 for the European regulation 305/2011 for construction products.

For: Didier Van Daele

Head of floorcovering/fire tests

Prof. Dr. Paul KIEKENS, dr. h. c.

Director

SCS Global Services does hereby certify that an independent assessment has been conducted on behalf of:

For the following product(s):

Vinyl Tile:

Luxury Vinyl Tile (Maximum thickness: 7.0mm), Wood Plastic Composite (WPC) Flooring (Maximum thickness: 11.0mm), Wood Plastic Composite (WPC) Flooring with pad (Maximum thickness: 12.0mm)

Rigid Core Vinyl Tile (Maximum thickness: 8.0mm), Rigid Core Vinyl Tile with pad (Maximum thickness: 9.0mm)

The product(s) meet(s) all of the necessary qualifications to be certified for the following claim(s):



Indoor Air Quality Certified to SCS-EC10.3-2014 v4.1

Conforms to the CDPH/EHLB Standard Method v1.2-2017 (California Section 01350), effective April 1, 2017, for the school classroom and private office parameters when modeled as Flooring.

Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m³ (in compliance with CDPH/EHLB Standard Method v1.2-2017)

Registration # SCS-FS-07090

Valid from: June 1, 2022 to May 31, 2023

SCS Global Services is currently the only certification body approved by the Resilient Floor Covering Institute (RFCI) to provide FloorScore® product certification; certified products are only listed on the SCS Green Products Guide, http://www.scsglobalservices.com/certified-green-products-guide.







Stanley Mathuram, PE, Executive Vice President SCS Global Services 2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA



MATERIAL AND PRODUCT TESTING DEPARTMENT

Testing Laboratory No. 1031 accredited by ČIA according to EN ISO/IEC 17025:2018



TEST REPORT No. MVZ-A-2021-001951

Customer:

Object of the test:

PVC FLOORING

Date:

2021-10-07

Number of pages: 2 Number of annexes: 0

Copies:

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Customer

Copy No. 2:

MVZ archive

Copy No:

1

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In case of misunderstanding, the Czech version is valid.



Ing. Anna Součková

Timber-wood research and development institute, Prague, state enterprise Na Florenci 7-9, 111 71 Praha 1 Material and product testing department Borská 471, 262 72 Březnice email: mvz@vvud.cz web: www.vvud.cz phone: +420 318 682 401

head of the Material and product testing department





1. OBJECT AND PURPOSE OF THE TEST:

The purpose of the test is the determination of the formaldehyde release of the supplied sample of PVC Flooring.

2. TEST SAMPLES:

Sample codes (laboratory):

sample No. 278

Sample name:

PVC Flooring

Sample description:

PVC Flooring

Producer:

Quantity, size:

3 pieces, (600 x 190) mm

Nominal thickness:

8 mm

Date of production:

unknown

Date of reception:

September 27. 2021

Place of reception:

VVÚD - MVZ

Received: Handed down: VVÚD; Šárka Podlenová

by post

3. TEST METHOD:

 TP-VVÚD-2.64.001 (ČSN EN 717-1) - Determination of formaldehyde in test chamber of VVÚD.

Testing conditions for TP-VVÚD-2.64.001 (ČSN EN 717-1):

Volume of the chamber

0,225 m³

determination of emission value

by the acetylacetone method

4. DATE OF THE TEST:

4 to 6 October 2021

5. TEST RESULTS:

Sample No. 278

chamber value

0,001 mg HCHO/m³ of air

This test report made by: Petra Volfová

- End of report -