

flotex® 플로텍스 자재승인서



Fordbo

FLOORING SYSTEMS

creating better environments



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사업자등록증

(법인사업자)

등록번호 : 211-85-65288

법인명(단체명) : 포보코리아 주식회사

대표자 : 정경연

개업연월일 : 2012년 01월 12일 법인등록번호 : 110111-4765470

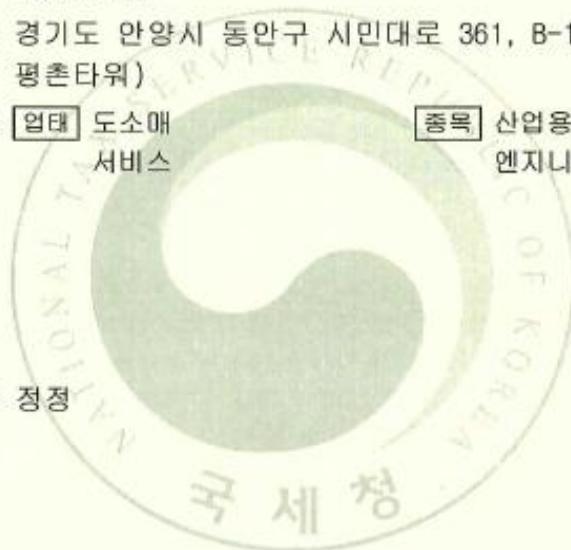
사업장 소재지 : 서울특별시 송파구 송파대로 167, B동 1511호(문정동, 문정역 테라타워)

본점소재지 : 경기도 안양시 동안구 시민대로 361, B-107호(관양동, 에이스 평촌타워)

사업의 종류 : 임대 도소매 서비스

산업용벨트및바닥커버링제품
엔지니어링

발급사유 : 정정

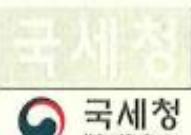


사업자 단위 과세 적용사업자 여부 : 여() 부(✓)

전자세금계산서 전용 전자우편주소 : forbo01@hometax.go.kr

2020년 05월 20일

송파세무서장





Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

Forbo Flooring UK Limited
High Holborn Road
Ripley
DE5 3NT
United Kingdom

Holds Certificate Number: FM 00632

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

The design, development and manufacture of textile floor coverings.

For and on behalf of BSI:

Matt Page, Managing Director Assurance - UK & Ireland

Original Registration Date: 1988-12-09

Effective Date: 2023-08-31

Latest Revision Date: 2023-07-03

Expiry Date: 2026-08-30

Page: 1 of 1



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Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 345 080 9000
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.
A Member of the BSI Group of Companies.



Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to certify that:

Forbo Flooring UK Limited
High Holborn Road
Ripley
DE5 3NT
United Kingdom

Holds Certificate Number: EMS 32833

and operates an Environmental Management System which complies with the requirements of ISO 14001:2015 for the following scope:

The design, development and manufacture of textile floor coverings.

For and on behalf of BSI:

Matt Page, Managing Director Assurance - UK & Ireland

Original Registration Date: 1995-11-24

Effective Date: 2022-12-30

Latest Revision Date: 2022-11-22

Expiry Date: 2025-12-29

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**INTERNATIONAL
ASSOCIATES**

This certificate is the property of:
International Associates Limited
 Centrum House
 38 Queen Street, Glasgow, G1 3DX
 Scotland, United Kingdom

SA8000 MANAGEMENT SYSTEM CERTIFICATION CERTIFICATE

This is to certify that:

FORBO FLOORING UK LIMITED

Ripley: High Holborn Road, Ripley, Derbyshire, DE5 3NT, United Kingdom
 (See page 2 for full list of locations)

has been found to conform with an appropriate and effective management system that meets the requirements of

SA8000:2014

International Standard

Scope: Manufacture, Installation and Maintenance of Flooring Systems.

The scope of the certification described by this certificate relates to the empowerment and protection of all personnel who provide products or services for that organisation at the above address(es) including, where applicable, personnel employed by the organisation itself and by its suppliers, sub-contractors, sub-suppliers and home workers for the following activities:

Manufacture, Installation and Maintenance of Flooring system with the primary process of Design, Foam Lining, Linoleum Engineering, Mixing, Production, Maintenance, Slabbing, Tile Cutting, Sales, Customer Service, Design, Inspection, Warehousing, Quality Control & Maintenance Service and No Outsourced process Exist.

Certification Date:	20-Dec-2023	Certificate Number:	01-0011-4-SA8
Recertification Due By:	09-Dec-2026	Category:	Manufacturing
Last Amended Date:	10-Dec-2023	Initial Certification:	(Construction) 09-Dec-2014

This Certification Audit was Performed and Supervised by: Martin Coles
 For and on behalf of FORBO FLOORING UK LIMITED: Mark Bauer

Certification Approved By:

Senthil Kumar
 Scheme Manager



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Social Accountability International and other stakeholders in the SA8000 process only recognise SA8000 certificates issued by qualified CBs granted accreditation by SAAS and do not recognise the validity of SA8000 certificates issued by unaccredited organisations or organisations accredited by an entity other than SAAS. Stakeholders can confirm the validity of an accredited SA8000 certificate from the SAAS website www.saasaccreditation.org/certification. Registration is subject to the management system being continually maintained to the above standard under regular surveillance. Should surveillance not take place when required, registration shall be removed.

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 Certificate Validation Code: 86961dc-7d66-40c8-94f2-ffd9db168fc1 - Validate via: <https://inet.ia-uk.com/Certificate>

제 26314 호

환경표지 인증서

1. 상호 : 포보코리아(주)
2. 사업자등록번호 : 211-85-65288
3. 소재지 : 서울특별시 송파구 송파대로 167, B동 1511호
(문정동, 문정역테라타워)
4. 공장·사업장소재지 : Forbo Flooring UK Ltd., High Holborn Road,
Ripley DE5 3NT, United Kingdom
5. 대표자성명 : 정경연
6. 대상제품 : EL246. 실내용 바닥 장식재
7. 상표명/용도·제공서비스 : Flotex Colour/실내용 바닥재(섬유계, 타일 카펫,
컷파일 2종, 비주거용)
8. 인증기간 : 2025.02.22 부터 2028.02.21 까지
9. 인증사유 : "유해물질 감소, 생활 환경오염 감소"

「환경기술 및 환경산업 지원법」 제17조제3항, 같은 법 시행령 제23조제2항
및 같은 법 시행규칙 제34조제2항에 따라 환경표지대상제품의 인증기준에
적합하므로 환경표지의 사용을 인증합니다.

* 최초교부 : 2022.02.22

2025년 01월 22일

한국환경산업기술원장



* 한국환경산업기술원은 「환경기술 및 환경산업 지원법」 제31조제2항 및 같은 법 시행령 제33조제8항에
따라 환경부장관으로부터 환경표지 인증에 관한 업무를 위탁받은 기관입니다.



[별첨] 2 / 2

제 26314 호

통합 상표명	세부모델(품번)명	모델구분
Flotex Colour	t546001	YBY
	t590019, t590011, t590006, t382006, t590021, t590012, t590026, t382018, t590014, t590001, t382017, t590023, t382075, t546019, t590025, t382005, t546011, t382016, t546037, t382011, t546005, t546009, t382015, t590004, t546004, t382004, t382020, t546012, t546018, t546034, t382007, t590002, t546036, t590009, t546020, t546006, t382037, t546025, t382010, t382026, t382031, t382023, t590024, t546028, t590015, t590010, t546015, t590005, t546002, t382116, t546007, t546014, t546026, t546032, t382001, t546010, t546017, t546022, t546024, t546008	YBN



친환경
환경부





(28115) 충북 청주시 청원구 오창읍 양청 3길 21
Tel : 043-711-8875 Fax : 043-711-8804

TEST REPORT



의뢰자 : 포보코리아 주식회사

주 소 : 서울특별시 송파구 송파대로 167(문정동) B 동 1511 호

의뢰자제시시료명 : 플로텍스 (Flotex)

접수번호 : M255-24-00605

접수일자 : 2024-02-15

발급일자 : 2024-03-06

용 도 : 품질관리용

쪽 번호 : 1/6

의뢰하신 시료에 대한 시험결과는 아래와 같습니다.

■ 시험 결과 ■

01. 섬유 혼용율 (KS K 0210 : 2023) : %

	#1
나일론	100

주) 파일만 시험하였음

02. 폭 및 길이 (KS K 1417 : 2023) : mm

	#1
길이	500.0
폭	500.0

** 다음페이지 계속 **

FITI 시험연구원장



※ 문서 확인 번호 : GRXL-9HTP-9ZTG ※

(홈페이지에 접속 후 '성적서확인'메뉴에서 문서 확인 번호를 통해 위 변조 여부를 확인할 수 있습니다.)

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쪽 번호 : 2/6

03. 직각정도 (KS K 2618 : 2022) : mm

	#1
	0.05

04. 캐스터 체어에 의한 폭 및 길이의 변화율 (KS K 2618 : 2022) : %

	#1
길이	0.03
폭	0.03

05. 열 및 물에 의한 폭 및 길이 변화율 (KS K 2618 : 2022) : %

	#1
길이	-0.01
폭	-0.02

주) (+) 신장, (-) 수축

06. 열 및 물에 의한 말림 (KS K 2618 : 2022) : mm

	#1
	0.6

07. 대전성 (KS K 2618 : 2022) : kV

	#1
	0.2

주) 시험방법 : 보행 시험법, 방법 A

시험조건 : $(23 \pm 2)^\circ\text{C}$, $(25 \pm 2)\%$ R.H.

08. 파일사의 용제 추출분 (KS K 1417 : 2023) : %

	#1
	0.44

주) 에틸에테르 추출법 항에 따라 시험하였음

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쪽 번호 : 3/6

09. 결모양 (KS K 0818 : 2022)

	#1
구멍, 파열의 결점	없음
오염의 결점	눈에 띠지 않음
보수 흔적의 결점	눈에 띠지 않음
모서리의 결점	고르고 적절함
그 밖의 결점	세로줄, 가로단 등이 눈에 띠지 않음

10. 불투수성 (KS K 1417 : 2023) : 외관판정

	#1
1	물의 침투 흔적이 보이지 않음
2	물의 침투 흔적이 보이지 않음
3	물의 침투 흔적이 보이지 않음
4	물의 침투 흔적이 보이지 않음
5	물의 침투 흔적이 보이지 않음
평균	물의 침투 흔적이 보이지 않음

11. 연소성(KS K 0818 : 2022)

	#1
잔연시간(s)	
- 경사	0
- 위사	0
탄화길이(mm)	
- 경사	28
- 위사	29

주) 제시상태 : (50 ± 2) °C 환온건조기 안에서 24 시간 건조 후 실리카겔을 넣은 데시케이터안에 2 시간 방치
시험방법 : 45°법

12. 품알데하이드 함량 (KS K ISO 14184-1 : 2011) : mg/kg

	#1	검출한계
	검출안됨	16

주) 검출안됨 = 검출한계 미만
의뢰자 요청에 의해 파일부분만 시험하였음

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쪽 번호 : 4/6

13. 아릴아민 함량 (KS K 0147 : 2021) : mg/kg

	#1	정량한계
NAME	-	-
4-AMINOBIPHENYL	5 미만	5
BENZIDINE	5 미만	5
4-CHLORO-o-TOLUIDINE	5 미만	5
2-NAPHTHYLAMINE	5 미만	5
o-AMINOAZOTOLUENE	5 미만	5
2-AMINO-4-NITROTOLUENE	5 미만	5
4-CHLOROANILINE	5 미만	5
2,4-DIAMINOANISOLE	5 미만	5
4,4'-DIAMINO-DIPHENYLMETHANE	5 미만	5
3,3'-DICHLOROBENZIDINE	5 미만	5
3,3'-DIMETHOXYBENZIDINE	5 미만	5
3,3'-DIMETHYLBENZIDINE	5 미만	5
4,4'-METHYLENEDI-o-TOLUIDINE	5 미만	5
p-CRESIDINE	5 미만	5
4,4'-METHYLENE-BIS-(2-CHLOROANILINE)	5 미만	5
4,4'-OXYDIANILINE	5 미만	5
4,4'-THIODIANILINE	5 미만	5
o-TOLUIDINE	5 미만	5
2,4-TOLUYLENEDIAMINE	5 미만	5
2,4,5-TRIMETHYLANILINE	5 미만	5
o-ANISIDINE	5 미만	5
2,4-XYLIDINE	5 미만	5
2,6-XYLIDINE	5 미만	5
4-AMINOAZOBENZENE	5 미만	5

주) 4-AMINOAZOBENZENE (CAS NO. 60-09-3)을 형성할 수 있는 아조 염료는 ANILINE (CAS. NO. 62-53-3)과 1,4-PHENYLENEDIAMINE (CAS NO. 106-50-3)을 발생시킴. ANILINE 또는 1,4-PHENYLENEDIAMINE 이 1 mg/kg 미만이면 4-AMINOAZOBENZENE 을 "정량한계 이하(< 5 mg/kg)"라고 간주하며, ANILINE 또는 1,4-PHENYLENEDIAMINE 이 1 mg/kg 이상이면 KS K 0739 : 2014 로 4-AMINOAZOBENZENE 검출여부를 확인함
불검출 = 정량한계 미만
의뢰자 요청에 의해 파일부분만 시험하였음

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접수번호 : M255-24-00605

쪽 번호 : 5/6

14. PCP, TeCP 함량 (KS K 0733 : 2022) : mg/kg

	#1	정량한계
PCP(PENTACHLOROPHENOL)	0.1 미만	0.1
TeCP(TETRACHLOROPHENOL)	0.1 미만	0.1

주) 의뢰자 요청에 의해 파일부분만 시험하였음

15. 일광견뢰도 (KS K 1417 : 2023) : 급

	#1
표준청색염포 5	5 이상

주) KS K ISO 105-B02 : 2014

16. 물견뢰도 (KS K 1417 : 2023) : 급

	#1
변토색	4-5
오 염	
- 면	4-5
- 폴리아마이드	4-5

주) KS K ISO 105-E01 : 2013

17. 마찰견뢰도 (KS K 1417 : 2023) : 급

	#1
길이	
- 건	4-5
- 습	4-5
폭	
- 건	4-5
- 습	4-5

주) KS K ISO 105-X12 : 2016

마찰자 : 크로크 블록

하중 : (9 ± 0.2) N

마찰포 습윤율 : 95 % ~ 100 %

시험편 및 마찰포의 컨디셔닝 시간 : 4 시간 이상

** 시험 결과 기록 완료 **

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접수번호 : M255-24-00605

쪽 번호 : 6/6



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Test Report – Products
Testrapport - Producten

Test report no.: Testrapport nr.:	89219827 001	Order No.: Opdracht nr.:	219827	Page 1 of 8 Pagina 1 van 8
Client Reference No.: Klantreferentie nr.:	081021-SL-SHY-156141618	Order date: Opdrachtdatum:	08.10.2021	
Client: Klant:	Forbo Korea Ltd., #1511, Tera Tower B, 167, Songpa-daero, Songpa-gu, Seoul, 05855, Rep. of Korea			
Test item: Testvoorwerp:	Textile floor covering tile			
Identification/ Type No.: Benaming / Type nr.:	Flotex			
Order content: Inhoud opdracht:	Determination of the selected parameter.			
Test specification: Testomschrijving:	Testing according EN 1307:2014+A3:2018 Basic requirements			
Date of sample receipt: Ontvangstdatum monster:	04.10.2021			
Test sample No.: Testproefstuk nr.:	MT21-219827.01			
Testing period: Testperiode:	04.10.2021 - 11.11.2021			
Place of testing: Testlocatie:	Westervoortsedijk 73, 6827 AV Arnhem			
Testing laboratory: Testlaboratorium:	TÜV Rheinland Nederland B.V.			
Test result*: Testresultaat*:	See Other			
tested by: getest door:	X 	authorized by: geautoriseerd door:	X 	
Date: 11.11.2021 Datum:	Ondertekend door: Michel van de Vliet	Issue Date: 11.11.2021 Datum uitgave:	Ondertekend door: Iating de Wolff	
Position / functie: jr. Engineer		Position / functie: LFM		
Others / Andere:	See individual test results.			
Condition of the test item at delivery: Toestand van het test voorwerp bij ontvangst:	Test item complete and undamaged			
* Legend: P(ass) = passed a.m. test specification(s) * Legenda: P(ass) = voldoet aan test omschrijving	F(all) = failed a.m. test specification(s) F(all) = voldoet niet aan test omschrijving	N/A = not applicable N/A = niet van toepassing	N/T = not tested N/T = niet getest	
<p>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</p> <p>Dit testrapport heeft alleen betrekking op het voorgenoemde test voorwerp. Zonder toestemming van het testcentrum mag dit testrapport niet in delen worden vermenigvuldigd. Dit keuringsrapport geeft geen recht op het dragen van enig keurmerk.</p>				

TÜV Rheinland Nederland B.V., Westervoortsedijk 73, 6827 AV Arnhem, The Netherlands
Mail: info@nl.tuv.com - Web: www.tuv.com/ml

Test report no.: 89219827 001
Testrapport nr.:Page 3 of 8
Pagina 3 van 8Product description
Product omschrijving

1	Product details: <i>Product details:</i>	Product name: Flotex Product type: Textile floor covering tile Carpet type: Flocked Type of colouring/patterning: Patterned
2	Other: <i>Andere:</i>	Test sample(s), as well sample information, description, product details and intended usage was provided by customer.
3	Test sample obtaining: <i>Selectie van het proefstuk:</i>	<input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group <input type="checkbox"/> others:

Figure 1: Picture of the received sample (surface)



Figure 2: Picture of the received sample (back)



Test report no.: 89219827 001
Testrapport nr.:Page 4 of 8
Pagina 4 van 8

Clause Deel	Requirements - Tests / Vereisten - Tests	Measuring results – Remarks Meetresultaten – Opmerkingen	Result Resultaat
1 Colour fastness to artificial light: Xenon arc fading lamp test ISO 105-B02:2014 ^a			
Used apparatus	Q-Sun Xe-2Hs		
Exposure conditions	A1		
Irradiance	1.10 ± 0.02 W/(m ² ·nm)		
Black standard temperature	47 ± 3°C		
Black panel temperature	45 ± 3°C		
Effective humidity	± 40%		
Flip-Flop mode used	No		
Number of assessors	≥ 3		
Measuring uncertainty	0.5 point. Uncertainty in accordance with the general accepted criteria.		
Assessment scale	1- severe change, 8- no change		
Measuring uncertainty	0.5 point. Uncertainty in accordance with the general accepted criteria.		
Requirement according to EN 1307:2014+A3:2018	Man-made fibres: ≥ 5 Natural fibres: ≥ 4		
Test result(s)			
Light fastness	5-6	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>	

2	Colour fastness to rubbing ISO 105-X12:2016 ^a		
Test conditions	20 ± 2°C and 65 ± 4% relative humidity		
Conditioning period	≥ 24 h		
Used finger	Crock block (19 mm × 25.4 mm)		
Applied force	9 ± 0.2 N		
Number of assessors	≥ 3		
Measuring uncertainty	0.5 point. Uncertainty in accordance with the general accepted criteria.		
Assessment scale	1- severe change, 5- no change		
Requirement according to EN 1307:2014+A3:2018	Wet: ≥ 3 Dry: ≥ 3-4		
Test result(s)			
Change in colour, Machine direction, dry	5	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>	
Change in colour, Cross machine direction, dry	5		
Change in colour, Machine direction, wet	5		
Change in colour, Cross machine direction, wet	5		

Test report no.: 89219827 001
Testrapport nr.:Page 5 of 8
Pagina 5 van 8

Clause Deel	Requirements - Tests / Vereisten - Tests	Measuring results – Remarks Meetresultaten – Opmerkingen	Result Resultaat	
3	Colour fastness to water ISO 105-E01:2013 ^a			
	Number of assessors	≥ 3		
	Measuring uncertainty	0.5 point. Uncertainty in accordance with the general accepted criteria.		
	Assessment scale	1- severe change, 5- no change		
	Requirement according to EN 1307:2014+A3:2018	Change in colour Plain carpets: $\geq 3-4$ Other carpets: ≥ 4 Staining All carpets: $\geq 2-3$		
	Test result(s)			
	Change in colour	4-5	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>	
4	Staining on wool	5		
	Staining on acrylic	5		
	Staining on polyamid	4-5		
	Staining on polyester	5		
	Staining on cotton	5		
	Staining on acetate	5		
Determination of fibre bind of synthetic (< 80 % natural fibres) cut pile carpets EN 1963:2007 test A				
	Number of specimens	4		
	Type of underlay used	None		
	Requirement according to EN 1307:2014+A3:2018	Loss of mass, $m_{\text{lv}} < 25\%$		
	Test result(s)			
	Mass loss per unit area, m_{lv} (g/m ²)	0	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>	
	Relative fibre loss, m_{lv} (%)	0	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>	

Test report no.: 89219827 001
Testrapport nr.:Page 6 of 8
Pagina 6 van 8

Clause Deel	Requirements - Tests / Vereisten - Tests	Measuring results – Remarks Meetresultaten – Opmerkingen				Result Resultaat	
5	Determination of total thickness ISO 1785:1986						
	Test conditions	$20 \pm 2^\circ\text{C}$ and $65 \pm 4\%$ relative humidity					
	Conditioning period	≥ 24 h					
Test result(s)							
	Total thickness (mm)	Specimen	1	2	3	4	
		Measurement 1	5.2	5.2	5.3	5.3	
		Measurement 2	5.2	5.2	5.3	5.3	
		Measurement 3	5.2	5.2	5.3	5.3	
		Measurement 4	5.2	5.3	5.3	5.4	
		Measurement 5	5.2	5.3	5.3	5.3	
Average							
5.3							
6	Determination of total mass per unit area ISO 8543:1998, clause 6						
	Test conditions	$20 \pm 2^\circ\text{C}$ and $65 \pm 4\%$ relative humidity					
	Conditioning period	≥ 24 h					
	Test result(s)						
	Total mass per unit area (g/m²)					Average	
		Specimen 1	5029			5096	
		Specimen 2	5092				
		Specimen 3	5152				
		Specimen 4	5110				
	Coefficient of variation (%)	1.0					
	Luxury rating class (in case of flocked carpets, conformity without testing)	LC1					

Test report no.: 89219827 001
Testrapport nr.:Page 7 of 8
Pagina 7 van 8

Clause Deel	Requirements - Tests / Vereisten - Tests	Measuring results – Remarks Meetresultaten – Opmerkingen				Result Resultaat
7	Determination of dimensional changes due to the effects of varied water and heat conditions ISO 2551:1981 / EN 986:2005					
	Number of specimens	3				
	Test conditions prior testing	20 ± 2°C and 65 ± 4% relative humidity				
	Conditioning period	≥ 48 h				
	Type of measuring instrument used	Measuring table				
	Requirement according to EN 1307:2014+A3:2018	≤ 0.2 % shrinkage & extension ≤ 2 mm deviation of any part of the sample from its plane				
	Test result(s) dimensional stability					
		Sample Nr.		Avg.		
	Change in dimensions after 2 hrs. in air of 60°C	1	2	3		
	Longitudinal direction (%)	-0.02	-0.02	-0.04	-0.03	P <input checked="" type="checkbox"/>
	Cross direction (%)	-0.04	-0.02	-0.02	-0.03	F <input type="checkbox"/>
	Change in dimensions after 2 hrs. in water of 20°C					N/A <input type="checkbox"/>
	Longitudinal direction (%)	-0.04	-0.04	-0.02	-0.03	N/T <input type="checkbox"/>
	Cross direction (%)	-0.04	-0.03	-0.02	-0.03	
	Change in dimensions after 24 hrs. in air of 60°C					
	Longitudinal direction (%)	-0.05	-0.05	-0.07	-0.06	
	Cross direction (%)	-0.05	-0.03	-0.04	-0.04	
	Change in dimensions after 48 hrs. at 20°C and 65% RH					
	Longitudinal direction (%)	-0.02	-0.03	-0.04	-0.03	
	Cross direction (%)	-0.04	-0.01	-0.02	-0.02	
	Test result(s) distortion out of plane					
		P <input checked="" type="checkbox"/>	F <input type="checkbox"/>	N/A <input type="checkbox"/>	N/T <input type="checkbox"/>	
	Max deviation from its plane (mm)	0.0				
	Description of the final appearance	Flatt				
8	Peel resistance of the backing EN ISO 24345:2012					
	Test conditions	23 ± 2°C and 50 ± 5% relative humidity				
	Conditioning period	≥ 24 h				
	Requirement according to EN 1307:2014+A3:2018	Average: ≥ 40 N/50 mm				
	Test result(s)					
	Length direction					
	Mean value (N/50mm)	87				P <input checked="" type="checkbox"/>
	Minimum value (N/50mm)	84				F <input type="checkbox"/>
	Width direction					
	Mean value (N/50mm)	84				N/A <input type="checkbox"/>
	Minimum value (N/50mm)	82				N/T <input type="checkbox"/>

Test Report - Products
Testrapport - Producten



Test report no.: 89219827 001
Testrapport nr.:

Page 8 of 8
Pagina 8 van 8

Clause Deel	Requirements - Tests / Vereisten - Tests	Measuring results – Remarks Meetresultaten – Opmerkingen	Result Resultaat
9	Water impermeability EN 1307:2014+A3:2018: Annex G		
	Test and conditioning conditions	20 ± 2°C and 65 ± 4% relative humidity	
	Conditioning period	≥ 24 h	
	Requirement according to EN 1307:2014+A3:2018	No water penetration through the backing and no penetration of the dye into the secondary backing.	
	Test result(s)		
	No water penetration and no penetration of the dye. The sample is impermeable.		
10	Assessment against the minimum requirements for textile floorcoverings EN 1307:2014+A3:2018 table 3 (+ table A.1 in case of carpet tiles)		
	The tested flocked carpet meets all the tested basic requirements		

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TEST REPORT

의뢰자 : 한국환경산업기술원-포보코리아 주식회사

접수번호 : M255-21-03220

의뢰자제시서명 : Flotex

접수일자 : 2021-10-05

발급일자 : 2021-11-02

용도 : 환경표지인증제출용

쪽번호 : 1/3

의뢰하신 시료에 대한 시험결과는 아래와 같습니다.

■ 시험 결과 ■

01. 증금속 함량 (환경유해인자 공정시험기준(국립환경과학원고시 제 2020-45 호(2020.10.20)) : mg/kg)

성분	함량 #1	정량한계
카드뮴 (Cd)	불검출	30
납 (Pb)	불검출	60
크롬VI (Cr VI)	불검출	45
수은 (Hg)	불검출	45

주) 불검출 = 정량한계 미만

02. 염화비닐 단량체 함량(VCM) (KS K 0730 : 2017) : mg/kg

	#1	정량한계
	불검출	0.1

주) 불검출 = 정량한계 미만

** 다음페이지 계속 **

FITI 시험연구원



※ 문서 확인 번호 : 7TKI-G5W4-XXJM ※

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03. 프탈레이트 함량 (KS M 1991 : 2016) : %

접수번호 : M255-21-03220

쪽 번호 : 2/3

	#1		
	상부	하부	정량한계
DEHP(2-DI(ETHYLHEXYL)PHTHALATE)	불검출	불검출	0.005
DBP(DI-BUTYLPHthalATE)	불검출	불검출	0.005
BBP(BENZYL BUTYLPHthalATE)	불검출	불검출	0.005
DIDP(DI-ISO-DECYLPHthalATE)	불검출	불검출	0.005
DNOP(DI-N-OCTYLPHthalATE)	불검출	불검출	0.005
DINP(DI-ISO-NONYLPHthalATE)	불검출	불검출	0.005

주) 불검출 = 정량한계 미만

04. 건축자재 방출 휘발성유기화합물 및 품알데하이드 시험 - 소형챔버법

(국립환경과학원고시제 2020-23 호(2020.07.31)실내공기질공정시험기준 ES 02131.1d) : mg/m³ · h

#1		
종 휘발성 유기화합물 (TVOC)	톨루엔 (TOLUENE)	품알데하이드 (FORMALDEHYDE)
0.058	0.001	불검출

주) mg/m³ · h : 단위면적당 방출량(EFa)정량한계 : 0.001 mg/m³ · h

불검출 = 정량한계 미만

- 시험 세부 사항

항목	세부사항
방출 시험 챔버의 조건	온도(°C) : (25 ± 1) 상대습도(%) : (50 ± 5) 환기횟수(회/h) : (0.5 ± 0.05)
시험판의 면적과 시료부하율	시험판의 표면적(m ²) : 0.042 6 시료부하율(m ² /m ²) : 2.0
공기채취	채취관 TVOC : TENAX-TA 층착관 HCHO : DNPH CARTRIDGE
분석기기	공기채취량(L) TVOC : 4.0 HCHO : 6.0 챔버방출시간(h) : (168 ± 2) 방출시험 챔버 크기(L) : 20 온도 · 습도 조절장치, 적산유량계, 공기채취 장비 : ADPAC SYSTEM(JAPAN) TVOC : ATD(PERKIN ELMER TUBOMATRIX ATD, USA) GC/MSD(PERKINELMER CLARUS 680/SQ 8 T) HCHO : HPLC(AGILENT 1290 SERIES, USA)

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접수번호 : M255-21-03220

쪽 번호 : 3/3

- 시료사진 -



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이 성적서는 원본(재발행 포함)만 유효하며, 사본 및 전자 인쇄본/e-DOCUMENT SERVICE은 시험결과에 대한 참고용입니다.



G4B(www.g4b.go.kr) 진위 확인 코드 : CC/VIAEY/Xo=

시험성적서

한국환경산업기술원 서울특별시 은평구 진흥로 215 전화 : 02-2284-1660 팩스 : 02-2284-1661	성적서번호 : 22-10-00505 페이지 (1) / (총 2)	KEITI 한국환경산업기술원
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1. 의뢰자

회사명 : 포보코리아 주식회사
 주소 : (05855) 서울특별시 송파구 송파대로 167, B동 1511호(문정동, 문정역데라타워)
 의뢰일자 : 2022. 06. 10.

2. 용도 : 품질관리용

3. 사료명 : Flotex (플로텍스)

4. 시험기간 : 2022. 06. 10. ~ 2022. 06. 20.

5. 시험장소 : 서울특별시 은평구 진흥로 215 별관 3층 (■고정시험실 □현장시험)

6. 시험결과

시험항목	단위	시험결과	검출한계	시험방법
DIBP(Diisobutylphthalate)	무게%	N.D.	0.005	KS M 1991 : 2016

† 정량한계(Limit of quantitation)

† N.D. [Not detected(불검출 또는 검출한계 미하)]

비고 1. 상기 내용은 의뢰자가 제공한 사료에 대한 결과이고 용도 외 사용을 금합니다.

2. 시험성적서의 일부분이 복사되어 사용하는 것을 금합니다.

3. KS Q ISO/IEC 17025와 KOLAS 인정과 관련이 없습니다.

작성자 박태하 성명 : 박태하	기술책임자 이현희 성명 : 이현희
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2022. 06. 20.

**한국환경산업기술원**

Korea Environmental Industry Technology Institute

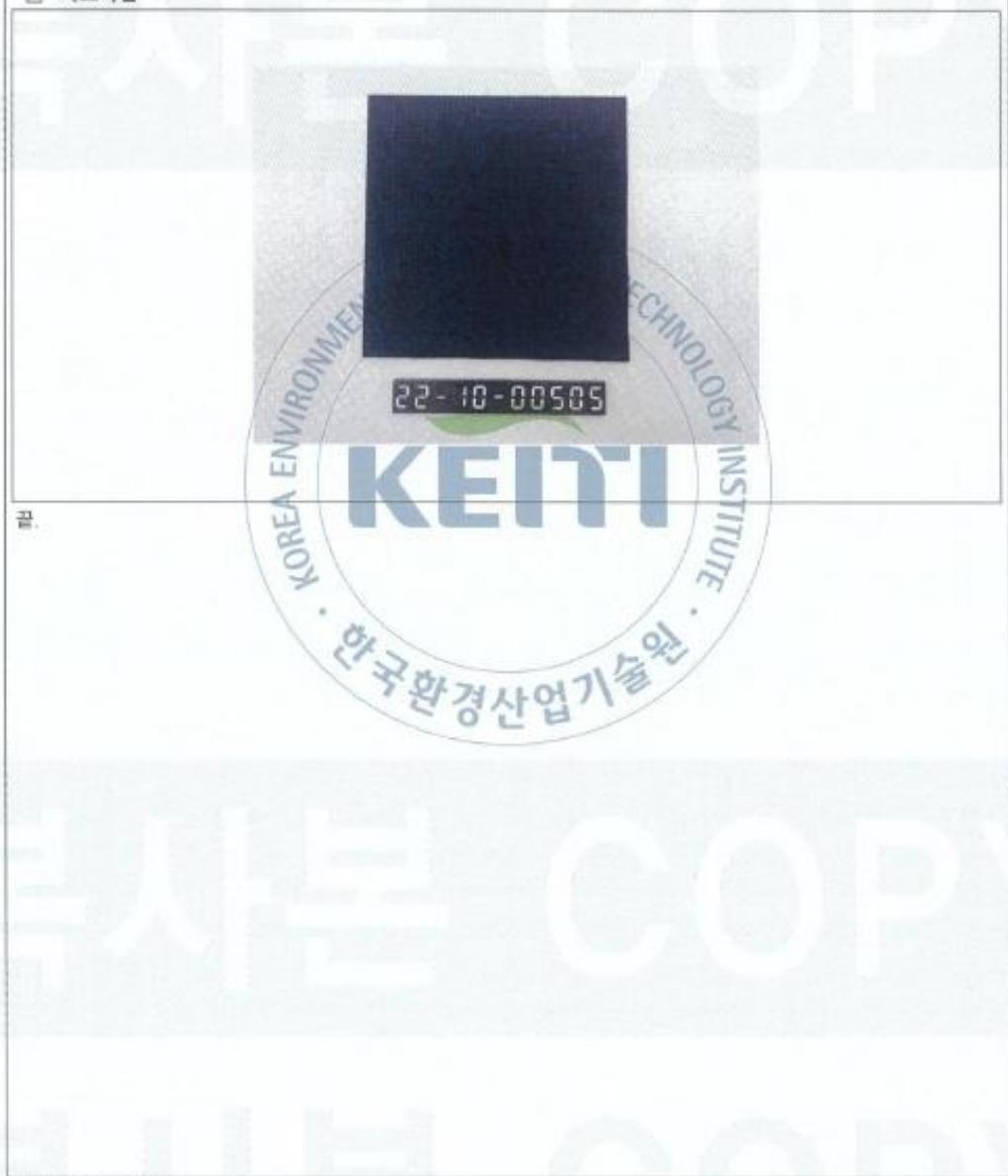
KEITI-QPF-16-03(01)



G4B(www.g4b.go.kr) 진위 확인 코드 : CC/V1AEY/Xo=

시험성적서

한국환경산업기술원	성적서 번호 : 22-10-00505 페이지 (2) / (총 2)	KEITI 한국환경산업기술원
서울특별시 은평구 진흥로 215 전화 : 02-2284-1660 팩스 : 02-2284-1661		

 시료사진

KEITI-QPF-16-03(01)



ENVIRONMENTAL PRODUCT DECLARATION

FLOTEX TILE & PLANK

FORBO FLOORING SYSTEMS
FLOCKED FLOOR COVERING

Flotex Tile: metro pebble 546011 & metro concrete 546014



Forbo

FLOORING SYSTEMS

Flotex is a unique, textile, flocked floor covering, combining the cleaning properties and durability of a resilient flooring with the comfort, slip resistance and acoustic properties usually associated with textiles. It is made by electrostatically flocking 80 million nylon fibres into a watertight backing, resulting in a floor covering that is strong, hygienic, and completely waterproof. Flotex can be rotary or digitally printed, the latter allowing for high-definition quality. It has been proven to contribute towards better indoor air quality and is the only textile floorcovering that carries the Allergy UK seal or approval.

Forbo was the first flooring manufacturer to publish a complete Life Cycle Assessment (LCA) report verified by CML in 2000 to create full transparency that is independently evaluated. To offer further transparency this EPD is also including additional information to show the impacts on human health and eco-toxicity. For more information visit: www.forbo-flooring.com



Global 공인 UL기관 EPD 취득
(LEED, 친환경건축물인증 시 가산점 획득 가능)

ENVIRONMENTAL PRODUCT DECLARATION



FLOORING SYSTEMS

Flotex AcousticPlus Tile / Plank
Flocked Floor Covering

According to ISO 14025 and EN 15804

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPD's rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. **Exclusions:** EPD's do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCA's do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPD's can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. **Accuracy of Results:** EPD's regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. **Comparability:** EPD's are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPD's from different programs may not be comparable.



PROGRAM OPERATOR	UL Environment 333 Pfingsten Road Northbrook, IL 60611
DECLARATION HOLDER	Forbo Flooring B.V. Industrieweg 12 P.O. Box 13 NL-1560 AA Krommenie
DECLARATION NUMBER	4790857560.108.1
DECLARED PRODUCT	Flotex Tile & Plank Flocked Floor Covering
REFERENCE PCR	EN 15804+A2: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products EN 16810:2017 Resilient, textile and laminate floor coverings – Environmental product declarations – Product category rules
DATE OF ISSUE	October 1, 2023
PERIOD OF VALIDITY	5 Years
CONTENTS OF THE DECLARATION	Product definition and information about building physics Information about basic material and the material's origin Description of the product's manufacture Indication of product processing Information about the in-use conditions Life cycle assessment results Testing results and verifications
The PCR review was conducted by:	European Standards CEN/TC 134 https://www.en-standard.eu/
This declaration was independently verified in accordance with ISO 14025 by Underwriters Laboratories <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL	 Cooper McCollum, UL Environment
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	 Thomas P. Gloria, Industrial Ecology Consultants

This EPD conforms with EN 15804

ENVIRONMENTAL PRODUCT DECLARATION

FLOTEX SHEET

FORBO FLOORING SYSTEMS
FLOCKED FLOOR COVERING

Flotex Sheet: Calgary grey 290002



FLOORING SYSTEMS

Flotex is a unique, textile, flocked floor covering, combining the cleaning properties and durability of a resilient flooring with the comfort, slip resistance and acoustic properties usually associated with textiles. It is made by electrostatically flocking 80 million nylon fibres into a watertight backing, resulting in a floor covering that is strong, hygienic, and completely waterproof. Flotex can be rotary or digitally printed, the latter allowing for high-definition quality. It has been proven to contribute towards better indoor air quality and is the only textile floorcovering that carries the Allergy UK seal of approval.

Forbo was the first flooring manufacturer to publish a complete Life Cycle Assessment (LCA) report verified by CML in 2000 to create full transparency that is independently evaluated. To offer further transparency this EPD is also including additional information to show the impacts on human health and eco-toxicity. For more information visit:

www.forbo-flooring.com



Global 공인 UL기관 EPD 취득
(LEED, 친환경건축물인증 시 가산점 획득 가능)

ENVIRONMENTAL PRODUCT DECLARATION



Flotex Sheet Tile / Plank
Flocked Floor Covering

According to ISO 14025 and EN 15804

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPD's rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPD's do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCA's do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPD's can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. Accuracy of Results: EPD's regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. Comparability: EPD's are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPD's from different programs may not be comparable.



PROGRAM OPERATOR	UL Environment 333 Pfingsten Road Northbrook, IL 60611
DECLARATION HOLDER	Forbo Flooring B.V. Industrieweg 12 P.O. Box 13 NL-1560 AA Krommenie
DECLARATION NUMBER	4790857560.104.1
DECLARED PRODUCT	Flotex Sheet Flocked Floor Covering
REFERENCE PCR	EN 15804+A2: Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products EN 16810:2017 Resilient, textile and laminate floor coverings – Environmental product declarations – Product category rules
DATE OF ISSUE	September 1, 2023
PERIOD OF VALIDITY	5 Years
CONTENTS OF THE DECLARATION	Product definition and information about building physics Information about basic material and the material's origin Description of the product's manufacture Indication of product processing Information about the in-use conditions Life cycle assessment results Testing results and verifications
The PCR review was conducted by:	European Standards CEN/TC 134 https://www.en-standard.eu/



Certificate

Indoor Air Comfort Gold

Flotex

Certified Product

Forbo Flooring

Applicant

The product complies with Indoor Air Comfort Gold requirements for product type, version 7.0 (2020). These include both inspections of factory production according to DIN 18200 and VOC testing according to EN 16516 by an ISO 17025 accredited laboratory, at regular interval.

Indoor Air Comfort Gold certification ensures that low product emission requirements are fulfilled and is a sign of the applicant's focus on quality and contribution to a healthy indoor environment.

Product type: Textile flooring

Certificate number: IACG-21-05-07-2022

Issue date: 16 February 2022

Validity date: 16 February 2027

This certificate is valid as specified if regular surveillance and testing is done.

Compliance with Indoor Air Comfort Gold means compliance with VOC requirements on low emitting products of:

BREEAM international, BREEAM NL, BREEAM NOR, BVB (Sweden), Cradle to Cradle (Gold/Platinum), Danish Indoor Climate Label (Emission Class 1), DGNB, Eco Product Norway, France VOC class A+, French HQE certification, Germany (AgBB/ABG), GreenTag Australia, GUT, Italian CAM Edilizia, LEED (ACP), M1, Nordic Swan, Singapore Green Label, SKA Rating, very low emitting products according to EN 16798-1, WELL Building

Thomas Neuhaus
Head of Certification Body

eurofins

| Product Testing



Appendix to Certificate IACG-21-05-07-2022

Forbo Flooring

receives the Indoor Air Comfort Gold certificate with validity 16 February 2027

for below product group, including subgroups and individual products as listed:

Product group: Flotex

Product type: Textile flooring

Products included:

Flotex Bahnenware
Flotex Colour
Flotex Designerkollektion
Flotex Linear
Flotex Naturals Bahnenware
Flotex Tiles & Planks

The products in this group are based on identical or similar recipe and are produced under equivalent conditions. Grouping of the products and inspection of the production process is part of the Indoor Air Comfort Gold certification. A worst-case product, which is representative for the whole group, is being tested frequently.

eurofins | Product Testing



Renewable Energy Guarantee of Origin allocated to

Forbo Flooring - Ripley

Consumption Period

Oct-23

Mar-25

Generation Type

Amount

Certificate No.

Wind/Solar/Hydro

7,368

MWh

To be Confirmed



Scan here to view our data
store

Nick Campbell

Nick Campbell - Managing Director:
Environmental Certificates, Inspired PLC





TEST REPORT

DATE: 01-04-2024

Page 1 of 1

TEST NUMBER: 0303991

CLIENT	Forbo Flooring
--------	----------------

TEST METHOD CONDUCTED	AATCC 129 Colorfastness to Ozone in the Atmosphere Under High Humidities
-----------------------	--

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Flotex Tile 546005

GENERAL PRINCIPLE

This test is designed to determine the resistance of colored textiles to the action of ozone in the atmosphere at elevated temperatures and relative humidity. The specimens are exposed to a predetermined number of test cycles and then assessed a numerical rating for their change in color. Ratings are made in accordance with the AATCC Gray Scale for Evaluating Color Change.

TEST RESULTS

EXPOSURE	2 Cycles
----------	----------

COLOR	RATING	COLOR	RATING	COLOR	RATING
Flotex Tile 546005	5.0				

AATCC RATING KEY	
5	No change
4	Slight change
3	Noticeable change
2	Considerable change
1	Severe change

APPROVED BY:

This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products.

This report, or the name of Professional Testing Laboratory, LLC, shall not be used under any circumstance in advertising to the general public.

714 Glenwood Place

Dalton, GA 30721

Phone: 706-226-3283

Fax: 706-226-6787

email: protest@optilink.us



TEST REPORT

DATE: 01-04-2024

Page 1 of 1

TEST NUMBER: 0303992

CLIENT	Forbo Flooring
--------	----------------

TEST METHOD CONDUCTED	AATCC 129 Colorfastness to Ozone in the Atmosphere Under High Humidities
-----------------------	--

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Flotex Sheet 482018

GENERAL PRINCIPLE

This test is designed to determine the resistance of colored textiles to the action of ozone in the atmosphere at elevated temperatures and relative humidity. The specimens are exposed to a predetermined number of test cycles and then assessed a numerical rating for their change in color. Ratings are made in accordance with the AATCC Gray Scale for Evaluating Color Change.

TEST RESULTS

EXPOSURE	2 Cycles
----------	----------

COLOR	RATING	COLOR	RATING	COLOR	RATING
Flotex Sheet 482018	5.0				

AATCC RATING KEY	
5	No change
4	Slight change
3	Noticeable change
2	Considerable change
1	Severe change

APPROVED BY:

This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products.
This report, or the name of Professional Testing Laboratory, LLC, shall not be used under any circumstance in advertising to the general public.

714 Glenwood Place

Dalton, GA 30721

Phone: 706-226-3263

Fax: 706-226-6787

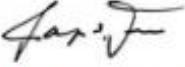
email: protest@optilink.us



COMPLIANCE TESTED by berkeley analytical

VOC Emission Test Certificate

Product Name: Flotex Tile/Modular - 546008

Product Sample Information		Certificate Information	
Company:	Forbo Flooring Systems	Certificate No.:	181220-01
Company Website:	www.forbo.com	Certified By:	
Product Type:	Flooring (all types)		Raja S. Tannous, Laboratory Director
Date Produced:	11/15/2018	Date:	December 20, 2018

Reference Standard: California Department of Public Health CDPH/EHLB/Standard Method Version 1.2, 2017
(Emission testing method for CA Specification 01350)

Acceptance Criteria and Results Demonstrating Compliance of Product Sample to Referenced Standard:

Exposure Scenario ¹	Individual VOCs of Concern ²		Formaldehyde ³		TVOC ⁴
	Criterion	Compliant?	Criterion	Compliant?	
School Classroom	≤½ Chronic REL	YES	≤9.0 µg/m³	YES	≤ 0.5 mg/m³
Private Office	≤½ Chronic REL	YES	≤9.0 µg/m³	YES	≤ 0.5 mg/m³

Product Coverage⁵: Not applicable

1. Exposure scenarios & product quantities for classroom & office are defined in Tables 4-2 – 4-5 (CDPH Std. Mtd. V1.2-2017)

2. Maximum allowable concentrations of individual target VOCs are specified in Table 4-1 (*ibid.*)

3. Maximum allowable formaldehyde concentration is ≤9 µg/m³, effective Jan 1, 2012; previous limit was ≤16.5 µg/m³ (*ibid.*)

4. Informative only; predicted TVOC Range in three categories, i.e., ≤0.5 mg/m³, >0.5 – 4.9 mg/m³, and ≥5.0 mg/m³

5. Informative and applicable only to tests of wet-applied products; grams of sample applied per square meter of substrate

Standards & Codes Recognizing CDPH Standard Method V1.2 (partial list)

- USGBC LEED Version 4, BD&C, ID&C
- The WELL Building Standard
- ANSI/GBI 01, Green Building Assessment Protocol
- Green Guide for Healthcare V2.2

Narrative: Forbo Flooring Systems selected a sample representative of its Flotex Tile/Modular - 546008 product and submitted it on 11/26/2018 for testing. Berkeley Analytical measured and evaluated the emissions of VOCs from this sample following CDPH/EHLB/Standard Method V1.2-2017. The results of the test are presented in Berkeley Analytical report, 135-077-01A-Dec2018.

Berkeley Analytical is an independent, third-party laboratory specializing in the analysis of organic chemicals emitted by and contained in building products, finishes, furniture, and consumer products. We are an ISO/IEC 17025 accredited laboratory (IAS, [TL-383](#)); all standards used in performing this test are in Berkeley Analytical's scope of accreditation.

DISCLAIMER: THIS CERTIFICATE OF COMPLIANCE AFFIRMS THAT: 1) A SAMPLE OF THE LISTED PRODUCT WAS TESTED ACCORDING TO THE REFERENCED STANDARD; 2) THE MEASURED VOC EMISSIONS FROM THE SAMPLE WERE EVALUATED FOR THE DEFINED EXPOSURE SCENARIO(S); AND 3) THE RESULTS MEET THE ACCEPTANCE CRITERIA OF THE REFERENCED STANDARD(S). BERKELEY ANALYTICAL IS NOT RESPONSIBLE FOR ANY CLAIMS REGARDING A PRODUCT OR PRODUCTS ENTERED INTO COMMERCE THAT MAY BE BASED ON THIS TEST. BERKELEY ANALYTICAL PROVIDES THIS CERTIFICATE OF COMPLIANCE "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

SCOTTISH POWER RENEWABLE ENERGY CERTIFICATE

Forbo Flooring UK Ltd

High Holborn Road, Ripley, Derbyshire, DE5 3NT

has demonstrated its commitment to the environment by choosing to be supplied with 100% renewable wind energy from ScottishPower matched to Renewable Energy Guarantees of origin (REGOs) enabling zero emission reporting

01 April 2022 – 31 August 2022

Independent Assurance Statement by Deloitte LLP:
"The Certified Green Energy Product (CGEP) meets the quality criteria to support customer reporting of zero carbon electricity intensity under the market based method as defined in GHG scope 2 guidance published by the World Resource Institute and is backed by assurance statement ISAB 3000"



Internal Use



SEAL OF APPROVAL CERTIFICATE

This is to certify that.

Forbo Flooring UK Ltd

Have been awarded the British Allergy Foundation
Seal of Approval for the removal of House Dust Mite for their
product

Flotex Flooring

Signed: Carla Jones
Carla Jones, Chief Executive
Licence No: 200011
Valid until: 8th October 2024



Allergy UK is the operational name of The British Allergy Foundation, a charitable company limited by guarantee and registered in England and Wales. Company No: 4509293. Charity No: 1094231
Registered in Scotland – Charity No: SC039257



SATRA Technology Centre Ltd
Wyndham Way, Telford Way, Kettering,
Northamptonshire, NN16 8SD United Kingdom
Tel: +44 (0) 1536 410000
email: info@satra.com
www.satra.com



TECHNICAL REPORT

Forbo Flooring UK Limited High Holborn Road RIPLEY Derbyshire DE5 3NT United Kingdom	SATRA reference:	FLO9359L8X5
	241	1
	Report ID/Issue number:	35739/1
	Your reference:	4501326032
	Date samples received:	02/01/2024
	Date(s) work carried out:	02/01/2024 to 11/01/2024
	Date of report:	15/01/2024

Testing Requirements

Testing of one product, described by the customer as "Flotex Tile" to DIN 51130:2014 excluding paragraph 6, measurement of displacement space.

For SATRA's full terms and conditions see our website: https://www.satra.com/terms_of_business.php

For SATRA's statements regarding the confidentiality, publication and dissemination of this report, decision rules and UKAS accreditation please see the final page of this technical report.

Report Signed by:

Reece Johnson

Report Signatory

SATRA Technology Centre Ltd Wyndham Way, Telford Way, Kettering,
Northamptonshire, NN16 8SD United Kingdom
Tel: +44 (0) 1536 410000 Email: info@satra.com Website: www.satra.com

Page 1 of 5



Technical Report



TESTING OF ONE SAMPLE DESCRIBED BY THE CUSTOMER AS "FLOTEX TILE" TO DIN 51130:2014⁽³⁾ EXCLUDING PARAGRAPH 6 MEASUREMENT OF DISPLACEMENT SPACE⁽²⁾.

As requested by Forbo Flooring UK Ltd, an assessment has been conducted to determine the slip potential of the sample submitted referenced "Flotex Tile" using the ramp method, as detailed below.

SUMMARY

With regards to the requirements laid out in DIN 51130:2014⁽³⁾, the floor sample submitted under the reference "Flotex Tile" has demonstrated an average angle of $\geq 38.8^\circ$, hence being classified as R13.

SAMPLE SUBMITTED

Sample reference: "Flotex Tile"⁽¹⁾
Appearance:



Date received: 02 January 2024
Date into conditioning: 02 January 2024
Testing completed: 11 January 2024
Testing conducted by: Phil Weal & Tom Notley

TESTS CARRIED OUT

- DIN 51130:2014 Testing of floor coverings - Determination of the anti-slip property - Workrooms and fields of activities with slip danger - Walking method - Ramp test

Notes:

- The information supplied by the customer. Not verified by SATRA.
- Displacement space – Is not relevant to this test reference. Only required with floor coverings which have an open structure, with large surface gaps, e.g. grates.
- This standard is withdrawn and has been specifically requested by the customer.

SATRA Report Reference: FLO9359L8X5 241
Report ID/Issue number: 35739/1



Technical Report



RESULTS:

Test No.	Operator A Inclined platform shod Corrected angle result ($^{\circ}$)	Operator B Inclined platform shod Corrected angle result ($^{\circ}$)
1	≥ 39.1	≥ 38.7
2	≥ 38.8	≥ 38.4
3	≥ 39.3	≥ 38.4
Corrected Operator Mean	≥ 39.1	≥ 38.5
Corrected Total Mean		≥ 38.8
Rating		R 13

R rating category

R Value	Category Static Friction is:	Angle of Inclination
R9	Low	6° to 10°
R10	Normal	$>10^{\circ}$ to 19°
R11	Above Average	$>19^{\circ}$ to 27°
R12	High	$>27^{\circ}$ to 35°
R13	Very High	$>35^{\circ}$

Note to end use applications:

R9 Floors in work rooms and work areas without a high risk of slipping. General and private areas.

R10 to R13 Floors in workrooms and work areas where there is an increased risk of slipping due to grease, oil, water, foods, left-overs, dust, flour, plant clippings, etc.

SATRA Report Reference: FLO9359L8X5 241
Report ID/Issue number: 35739/1



Technical Report



Annex 1.0

Operator Verification results for DIN 51130:2014⁽³⁾

Operator A

Verification Board	Operator A Verification				
	Test Run			Average	Difference
	1	2	3		
ST - I (8.7 ± 3.0)	7.5	7.9	8.0	7.8	0.9
ST - II (17.3 ± 3.0)	20.3	20.1	19.9	20.1	2.8
ST - III A (27.3 ± 3.0)	26.5	26.6	26.1	26.4	0.9

Operator B

Verification Board	Operator B Verification				
	Test Run			Average	Difference
	1	2	3		
ST - I (8.7 ± 3.0)	8.2	8.1	8.2	8.2	0.5
ST - II (17.3 ± 3.0)	19.5	19.7	19.2	19.5	2.2
ST - III A (27.3 ± 3.0)	27.0	26.9	27.2	27.0	0.3

SATRA Report Reference: FLO9359L8X5 241
Report ID/Issue number: 35739/1



Technical Report



Annex 1.0

Operator Verification results for DIN 51130:2014⁽³⁾

Operator A

Verification Board	Operator A Verification				
	Test Run			Average	Difference
	1	2	3		
ST - I (8.7 ± 3.0)	7.5	7.9	8.0	7.8	0.9
ST - II (17.3 ± 3.0)	20.3	20.1	19.9	20.1	2.8
ST - III A (27.3 ± 3.0)	26.5	26.6	26.1	26.4	0.9

Operator B

Verification Board	Operator B Verification				
	Test Run			Average	Difference
	1	2	3		
ST - I (8.7 ± 3.0)	8.2	8.1	8.2	8.2	0.5
ST - II (17.3 ± 3.0)	19.5	19.7	19.2	19.5	2.2
ST - III A (27.3 ± 3.0)	27.0	26.9	27.2	27.0	0.3

SATRA Report Reference: FLO9359L8X5 241
Report ID/Issue number: 35739/1



Assessment of the Performance of Three Carpet Disinfectants Applied through a Sprayer onto a Carpet.

Client Details: Forbo Flooring UK Ltd
High Holborn Road,
Ripley. DE5 3NT

Contact Name: John Lewin
Contact Email: John.lewin@forbo.com
Telephone Number: 01773744121

Purchase Order Number: -

Date Of Report: 30th October 2017

MelBec Reference Number: 3963
No. of samples: 3

	Product and Test Criteria	Product and Test Details
Carpet Details	Lab reference	3963
	Name of Product(s)	Flotex Metro Ash Lot No: 3557
	Manufacturer	Forbo Flooring Ltd
	Storage Conditions	Ambient
	Active Substance	None
Disinfectant Details	M2 Ultra	Diluted 1:10
	Prochem Microsan	Diluted 1:20
	Chemspec Formula 429	Ready to Use.
Experimental Conditions	Method	Bespoke
	Neutraliser / Diluent	BU Broth
	Plating Method	Pour plate using TSA
	Test Product Dilutions	Not Relevant
	Identification of the bacterial strains	<i>Staphylococcus aureus</i> ATCC 6538 <i>Klebsiella pneumoniae</i> ATCC 4352
	Test Temperature	20°C ± 1°C
	Interfering Substance	Not Required
	Incubation Temperature	36°C for bacteria

Unit 1, Envair House, York Avenue, Haslingden, Rossendale, BB4 4HX
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**Results:**M2 Care Ultra M Concentrate.

Test Organism	Count cfu/carpet disc					
	Untreated			Treated		
	Vc1	Vc2	Vc3	Vc1	Vc2	Vc3
<i>Kl pneumoniae</i>	298 -3 27 -4	319 -3 31 -4	289-3 31 -4	12 -1	7 -1	107 -1
<i>St. aureus</i>	249 -3 16 -4	194 -3 17 -4	221 -3 18 -4	6 -1	13 -1	7 -1

Mean Counts

Test Organism	Mean Count cfu/carpet disc	
	Untreated	Treated
<i>Kl pneumoniae</i>	3.02×10^5	4.2×10^2
<i>St. aureus</i>	2.17×10^5	8.7×10^0

Mean Log Counts

Test Organism	Mean Log/carpet disc	
	Untreated	Treated
<i>Kl pneumoniae</i>	5.48	2.62
<i>St. aureus</i>	5.34	0.94

Organism Reductions

Test Organism	Reduction	
	Percentage	Log
<i>Kl pneumoniae</i>	99.86%	2.86
<i>St. aureus</i>	99.996%	4.40

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Prochem Microsan

Test Organism	Count cfu/carpet disc					
	Untreated			Treated		
	Vc1	Vc2	Vc3	Vc1	Vc2	Vc3
<i>Kl pneumoniae</i>	298 -3 27 -4	319 -3 31 -4	289-3 31 -4	41 -1	32-1	85-1
<i>St. aureus</i>	249 -3 16 -4	194 -3 17 -4	221 -3 18 -4	35 -1	29 -1	41 -1

Mean Counts

Test Organism	Mean Count cfu/carpet disc	
	Untreated	Treated
<i>Kl pneumoniae</i>	3.02×10^5	5.27×10^2
<i>St. aureus</i>	2.17×10^5	3.5×10^2

Mean Log Counts

Test Organism	Mean Log/carpet disc	
	Untreated	Treated
<i>Kl pneumoniae</i>	5.48	2.72
<i>St. aureus</i>	5.34	2.54

Organism Reductions

Test Organism	Reduction	
	Percentage	Log
<i>Kl pneumoniae</i>	99.83%	2.76
<i>St. aureus</i>	99.84%	2.80

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Chemspec Formula 429.

Test Organism	Count cfu/carpet disc					
	Untreated			Treated		
	Vc1	Vc2	Vc3	Vc1	Vc2	Vc3
<i>Kl pneumoniae</i>	298 -3 27 -4	319 -3 31 -4	289-3 31 -4	29 -1	27-1	44-1
<i>St. aureus</i>	249 -3 16 -4	194 -3 17 -4	221 -3 18 -4	180 -1	68 -1	33 -2

Mean Counts

Test Organism	Mean Count cfu/carpet disc	
	Untreated	Treated
<i>Kl pneumoniae</i>	3.02×10^5	3.33×10^2
<i>St. aureus</i>	2.17×10^5	1.93×10^3

Mean Log Counts

Test Organism	Mean Log/carpet disc	
	Untreated	Treated
<i>Kl pneumoniae</i>	5.48	2.52
<i>St. aureus</i>	5.34	3.29

Organism Reductions

Test Organism	Reduction	
	Percentage	Log
<i>Kl pneumoniae</i>	99.89%	2.96
<i>St. aureus</i>	99.11%	2.05

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Conclusion:

After treatment with disinfectant the numbers of both *Staphylococcus aureus* and *Klebsiella pneumoniae* remaining on the carpet were reduced by >99% or by > 2 log compared to the untreated controls.

Report Authorised By:

A handwritten signature in black ink, appearing to read "Dawn Mellors".

Dawn Mellors

Technical Director

Unit 1, Envair House, York Avenue, Haslingden, Rossendale, BB4 4HX
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TESTING • CERTIFICATION • AUDITING

Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.
 Telephone: +44 (0) 113 259 1999
 Email: info@btte.co.uk
 Website: www.btte.co.uk

Date: 4 May 2018

Our Ref: 25/08680B/03/18
Your Ref:

Page: 1 of 2

Client: Forbo Flooring UK Limited
 High Holborn Road
 Ripley
 Derbyshire
 DE5 3NT

Job Title: Impermeability Testing on One Sample of Flocked Tiles

Client's Order No: 4500972216

Date of Receipt: 20 March 2018

Description of Sample(s): One sample of flocked tiles, reference Flotex Acoustic Plus Tile

Work Requested: We were asked to make the following test(s):

Determination of Impermeability

Note: This report relates only to the samples submitted and as described in the report.

- * subcontracted test, UKAS accredited
- ** subcontracted test, EN ISO/IEC 17025 accredited
- *** not UKAS accredited



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Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.
 Telephone: +44 (0) 113 259 1999
 Email: info@btsg.co.uk
 Website: www.btsg.co.uk

Date: 4 May 2018

Our Ref: 25/08680B/03/18
 Your Ref:

Page: 2 of 2

Client: Forbo Flooring UK Ltd

Determination of Impermeability

Five specimens from the sample were tested in accordance with BS EN 1307:Annex G:2014. 100ml of Methylene Blue solution dyed water solution was poured onto a 15cm diameter concentrated area of the sample, from a height of 1 metre. This was repeated over five specimens.

Analysis

The specimens from each test were visually examined after 24 hours for evidence of water penetration through the backing onto the white tissue.

Results

Water penetration was not visible on any specimen. Dye was not visible in the secondary backing on the specimens but there was found to be penetration into the primary backing.

The sample was found to be impermeable.

Reported by: D Feltham D Feltham, Laboratory Technician

Countersigned by: P Doherty P Doherty, Operational Head

Enquiries concerning this report should be addressed to Customer Services.



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BUREAU VERITAS
Certification



Certificate of Compliance

Awarded to

Forbo Flooring Systems

23 Ormsby Place, Wetherill Park, NSW 2164

Bureau Veritas grants the above organization the Certificate of Compliance (CoC) only in respect of the products described below and valid until the expiry date or until material change occurs to the supply chain, cable production process or end of life management. The scope of the assessment and certification against the requirements of the PVC Best Practice Guidelines detailed as part of the 'Green Star PVC credit - Auditor Verification Guidance (issued 20 November 2013) using Compliance Pathway 2, "Manufacturers Declaration".

The CoC is granted subject to the 'Bureau Veritas Conditions of Service'.

Product Certification

Green Building Council of Australia

PVC Best Practice Guidelines

for the following product(s)

See attached list

CoC No: 2840

Date Granted: 14/11/2022

Expiry Date: 14/11/2024

Signed on behalf of Bureau Veritas

Sam Guindi

Product Certification Manager

This CoC remain the property of Bureau Veritas and must be returned if certification is terminated.

In the case of serious non-compliance the certification will be withdrawn.

To check the validity of this certificate, please contact: Bureau Veritas Australia Pty Ltd
Issuing office: Bureau Veritas Pty Ltd, 3/435 Williamstown Road, Port Melbourne, Victoria, 3207



년도	플로텍스 프로젝트명		2024	중동고
2025	현대모비스 마북 UX랩		2024	대동대학교
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2025	현대 무백스 사옥		2023	삼성전자 평택 주차타워 (5~7F)
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2024	창원 유토피아 골프 리모델링		2021	마곡 크리스탈노믹스 R&D센터
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2024	자연드림 괴산 요양병원		2020	을지로 국제금융센터 사옥
2024	이화여대산부인과		2020	송도 GFC 사무동
2024	에버랜드 캐빈호스텔		2020	우리은행 본점 리모델링
2024	광양 활금지구 더샵		2020	삼성전자 평택 프로젝트
2024	의정부 더샵리듬시티		2019	국회 스마트워크센터 및 프레스센터
2024	더샵 디어엘로		2019	건강보험 심사평가원 제2사옥
2024	더샵 아르테		2019	국회 스마트워크센터 및 프레스센터
2024	더샵 하남에피스		2018	세일정기 마곡 사옥
2024	완산행정복지센터		2019	삼성전자 E-project
2024	들꽃학습원		2017	삼성화재 아산사옥
2024	경찰청 어울마당		2016	삼성전자 DSR
2024	울산 외솔초교 도서관		2015	한국 전력기술 신사옥
2024	내성고		2014	대우건설빌딩 카펫 교체
2024	제주수원초		2014	진주 LH 본사 사옥
			2014	삼성중공업 판교 R&D 센터
			2014	골프존 신사옥
			2008	삼성전자 서초사옥



(1 / 1)



납세증명서

발급번호	2271-334-2506-759		처리기간	즉시(단, 해외이주용 10일)				
납세자 인적사항	성명(상호) 포보코리아 주식회사			주민등록번호 (사업자등록번호)	119-86-50720			
	주소(사업장) 경기도 안양시 동안구 시민대로 361, B-107호(관양동, 에이스평촌타워)							
증명서의 사용목적	<input checked="" type="checkbox"/> 대금수령 <input type="checkbox"/> 해외이주 (이주번호 제 _____ 호, 이주확인일 _____년 _____월 _____일) <input type="checkbox"/> 기타							
	유효기간	2025년 6월 1일						
증명서의 유효기간	유효기간을 정한 사유	<input checked="" type="checkbox"/> 「국세징수법 시행령」 제96조 제1항 <input type="checkbox"/> 기타 (사유: _____)						
연장·유예 내역 (단위: 원)	연장·유예 종류	연장·유예 기간	과세기간	세 목	납부기한	세 액	가산금	
		해	당	없	음			
물적납세의무 체납내역 (단위: 원)	위탁자·양도담보설정자	과세기간	세 목	납부기한	세 액	가산금		
		해	당	없	음			

「국세징수법」 제108조 및 같은 법 시행령 제95조에 따라 발급일 현재 위의 연장·유예액 또는 「국세기본법」 제42조, 「종합부동산세법」 제7조의2·제12조의2 또는 「부가가치세법」 제3조의2에 따른 양도담보권자 또는 수탁자의 물적납세의무와 관련된 체납액을 제외하고는 다른 체납액이 없음을 증명합니다.
 ※ 발급일 현재 지정납부기한이 도래하지 않은 미납국세는 체납액이 아니므로 증명 대상에서 제외됨.

접수번호	504532734082
담당부서	민원봉사실
담당자	
연락처	031-389-8228

2025년 5월 2일

동안양세무서장



* 본 증명의 위·변조 여부는 발급일로부터 90일 이내 「국세청 홈페이지(www.hometax.go.kr) 또는 모바일 홈페이지 > 민원증명(증명발급) > 민원증명 원본확인」에서 발급번호로 확인, 또는 문서 하단의 바코드로 확인이 가능합니다.
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* 본 증명은 홈페이지(www.hometax.go.kr)에서 대면 온라인 서비스를 통해 발급된 증명서입니다.



문서 확인번호 : 1746-1447-2602-3629

지방세 납세증명(신청)서
Local Tax Payment Certificate(Application)

24

발급번호 Issuance Number	094249	접수일시 Time and Date of receipt	2025-05-02 09:11:22	처리기간 Processing Period	즉시 Immediately	
납세자 Taxpayer	성명(법인명) Resident Name (Corporation Name) 포보코리아		주민(법인·외국인)등록번호 Resident (Corporation · Foreign) Registration No. 110111-4765470			
	주소(영업소) Resident Address (Business Address) 서울특별시 송파구 송파대로 167 B동 1511호					
	전화번호(휴대전화) Phone No. (Mobile Phone No.) 02-3443-0644					
증명서의 사용 목적 Purpose of Certificate	<input type="checkbox"/> 대금수령 Billing	대금 지급자 Payer				
	<input type="checkbox"/> 해외이주 Emigration	이주번호 Emigration No.	해외이주 신고일 Date of the Report	년	월	일
	<input type="checkbox"/> 부동산 신탁등기 Registration for Real Estate Trust	신탁 부동산의 표시 (소재지, 건물명칭 및 번호) Information of Real Estate Trust (Location, Building Name and No.)				
	<input checked="" type="checkbox"/> 그 밖의 목적 [V] Others	제출용				
증명서 신청부수 Copies of Certificate		1 부 Copy(Copies)				

「지방세징수법」 제5조 및 같은 법 시행령 제6조제1항에 따라 발급일 현재 「지방세징수법 시행령」 제2조 각 호의 금액을 제외하고는 다른 체납액이 없음을 증명하여 주시기 바랍니다.
Please certify that there are no other taxes on arrears as of the date of issuance except for the amount stipulated in each subparagraph of Article 2 of the Enforcement Decree of the Local Tax Collection Act in accordance with Article 5 of the Local Tax Collection Act and Article 6 (1) of its Enforcement Decree.

신청인(납세자) 포보코리아
Applicant(Taxpayer) 포보코리아
2025년(Year) 05월(Month) 02일(Day)
(서명 또는 인장)
(Signature or Stamp)

징수유예등 또는 체납처분유예 등 명세		Deferred Tax Collection or Deferred Disposition of Tax on Arrears				
유예종류 Type of Deferment	유예기간 Period of Deferment	과세연도 Tax Year	세 목 Tax item	납부기한 Due Date for Tax Payment	지방세 Tax Amount	가산금 Penalty Tax

- 해당 사항 없음(None) -

물적납세의무 체납 명세		Tax-in-kind Liabilities in Tax Arrears			
위탁자 · 양도담보설정자 · 명의신탁자 Trustor · Debtor in Security Interest · Title Truster	과세연도 Tax Year	세 목 Tax Item	납부기한 Due Date for Tax Payment	지방세 Tax Amount	가산금 Penalty Tax

- 해당 사항 없음(None) -

「지방세징수법」 제5조 및 같은 법 시행령 제6조제2항에 따라 발급일 현재 「지방세징수법 시행령」 제2조 각 호의 금액을 제외하고는 다른 체납액이 없음을 증명합니다.

I hereby certify that there are no other taxes on arrears as of the date of issuance except for the amounts stipulated in each subparagraph of Article 2 of the Enforcement Decree of the Local Tax Collection Act in accordance with Article 5 of the Local Tax Collection Act and Article 6 (2) of its Enforcement Decree.

1. 증명서 유효기간 : 2025년(Year) 06월(Month) 01일(Day)
Validity Period:
2. 유효기간을 정한 사유 : 지방세징수법 시행령 제 7조(납세증명서의 유효기간)
Reason for validity Period:

서울특별시 솔파구청장

2025년(Year) 05월(Month) 02일(Day)

The Chief of Songpa-gu district SEOUL KOREA

己未年
己未年

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