

Certificate of Approval

Certificate Number: RS0022

Issue: 10

Polyflor Ltd

having complied with the requirements of:

BES 6001: Issue 3.1

Framework Standard for Responsible Sourcing

has achieved a performance rating of: **Excellent**



and is authorised to use the BRE Global Certification Mark on the following product(s) and associated stationery and publications.

Head Office Address

Headquarters:
Radcliffe New Road
Whitefield
Manchester
M45 7NR

Production Site(s)

See appendix for details

Laura Critien

10 February 2025

Signed for BRE Global Ltd

Certification Manager

Date of this Issue

21 October 2014

1 May 2025

Date of First Issue

Expiry Date



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Appendix to Certificate No: RS0022

Issue: 10

Polyflor Ltd

Production Site(s)

Headquarters:	Riverside Flooring Ltd
Radcliffe New Road	Fleck Way
Whitefield	Thornaby on Tees
Manchester	Stockton
M45 7NR	TS17 9JT

Product	Description	Site
Classic Mystique PUR	Homogeneous Vinyl Flooring	Radcliffe
Palettone PUR		
Pearlazzo PUR		
Prestige PUR		
Standard XL		
XLPU		
2000 PUR		
Polysafe Astral PUR	Resilient Flooring with enhanced slip resistance	Radcliffe
Polysafe Quattro PUR		
Polysafe Hydro		
Polysafe Mosaic PUR		
Polysafe Standard PUR		
Polysafe Verona		
Polysafe Ultima		
Polysafe Vogue Ultra		

In accordance with the scheme requirements, you must notify us of any changes in circumstances so that we can amend the Certification details.

For BRE Global Ltd	Laura Critien Certification Manager	10 February 2025 Date of this Issue	21 October 2014 Date of First Issue	01 May 2025 Expiry Date
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Polyflor Ltd

Product	Description	Site
Polysafe Hydro Evolve	Resilient Flooring with enhanced slip resistance	Radcliffe
Polysafe Apex		
Polysafe Ecomax		
Forest fx PUR	Heterogenous vinyl flooring	Riverside
Expona Flow PUR		
Terrain fx PUR		
Bloc PUR		
SILENTFLOR	Heterogenous foam-backed vinyl flooring	Riverside
Polysafe Wood fx PUR	Resilient Flooring with enhanced slip resistance	Riverside
Polysafe Stone fx PUR		
Polysafe Wood fx Acoustix PUR		
Polyflor Secura	Heterogeneous Cushioned Vinyl Flooring	Riverside
Designatex PUR		

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Polyflor Ltd

Scoring Table

Section		Score					Additional Credit
		1	2	3	4	5	
3.2.1	Responsible sourcing policy	C					
3.2.2	Legal compliance	C					
3.2.3	QMS and Operational Management of RS	C					
3.2.4	Supplier management system	C					
3.3.1	Material traceability through the supply chain	C					
3.3.2	EMS in the supply chain	C					
3.3.3	H&SMS in the supply chain	C					
3.4.1	Greenhouse gas emissions	C					
3.4.2	Energy use						
3.4.3	Resource use	C					
3.4.4	Waste prevention and waste management	C					
3.4.5	Water abstraction	C					
3.4.6	Life Cycle Assessment (LCA)	C					
3.4.7	Ecotoxicity						
3.4.8	Transport impacts	C					
3.4.9	Employment and skills	C					
3.4.10	Local communities	C					
3.4.11	Business ethics						
Key	C	Compulsory Points scored					
		Maximum score available per clause					

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For BRE Global Ltd

Laura Critien
Certification Manager

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

Polyflor

Radcliffe New Road, Whitefield, Manchester M45 7NR, United Kingdom

For the following product(s):

Sheet Vinyl:

Polyflor*: 2000 PUR, Classic Mystique PUR, Mystique PUR, Palettone PUR, Palettone SD, Pearlazzo PUR, Polyflor Finesse SD, Polyflor SD, Prestige PUR, Standard XL, XLPU

* Excludes all printed pattern products

Polysafe: Apex, Apex 55, Astral PUR, Corona PUR, Ecomax, Hydro, Hydro Evolve, Mosaic PUR, Quattro PUR, QuickLay PUR, Standard PUR, Ultimate, Verona PUR, Vogue Ultra PUR, Voyager Transafe PUR

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

FloorScore®

Indoor Air Quality Certified to SCS-105 v4.2 - December 2023.

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-02034

Valid from: September 01, 2024 to August 31, 2025

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>.



ANSI National Accreditation Board

ACCREDITED

ISO/IEC 17065

PRODUCT CERTIFICATION
BODY



A handwritten signature in black ink.

Diana Kirsanova Phillips, Chief Assurance Officer,
SCS Global Services



Certificate

Indoor Air Comfort Gold

Homogeneous Flooring

Certified Product

James Halstead PLC

Applicant

The above product complies with the Indoor Air Comfort Gold specifications, version 8.0 (2022). These include both inspection of factory production and VOC emissions testing according to EN 16516, at regular intervals. Indoor Air Comfort Gold combines all key European and selected global requirements on VOC product emissions. Additional requirements not related to VOC product emissions, for example content of certain substances or odour are not combined or evaluated. The following VOC emission requirements are combined and the certified product shows compliance with these VOC emission related limit values:

- | | | | |
|--------------------------|----------------------------|--|--|
| - Belgian VOC regulation | - LEED (ACP) | - Blue Angel DE-UZ 120 | - Nordic Swan |
| - France VOC class A+ | - BREEAM New Construction | - Austrian Ecolabel UZ 42 | - Eco Product Norway |
| - Germany (AgBB/ABG) | - WELL Building | - Austrian Baubook | - Cradle to Cradle |
| - Italian CAM Edilizia | - DGNB | - M1 | - very low emitting products according to EN 16798-1 |
| - EU Taxonomy Regulation | - SKA Rating | - Danish Indoor Climate Label (Emission Class 1) | - Singapore Green Label |
| | - French HQE certification | - BVB (Sweden) | - Global GreenTag |
| | | - Miljöbyggnad (Sweden) | |

Issue date: 02 February 2023

Product type: Resilient floorings

Validity date: 02 February 2028

Certificate number: IACG-386-101-01-2022

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

Thomas Neuhaus, Head of Certification Body



Product Testing



Appendix to Certificate IACG-386-101-01-2022

James Halstead PLC

receives the Indoor Air Comfort Gold certificate with validity 02 February 2028

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

Product group: Homogeneous Flooring

Product type: Resilient floorings

Products included:

Polyflor Palettone PUR
Polyflor Prestige PUR
Polyflor Pearlazzo PUR
Polyflor Classic Mystique PUR
Polyflor Mystique PUR
Polyflor 2000 PUR
Polyflor XLPU
Polyflor XLPUR
Polyflor XL
Polyflex Plus PU
Polysafe Ecomax

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.



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Tradução: 08
Documento: Relatório de Ensaio
Arquivo: L. 429, fls. 45
Idioma a Traduzir: Inglês
Data: 24 de março de 2025

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elemento.com

Ensaio ASTM E 662 de Taxa de Emissão de Fumaça de
“Polyflor Palettone PUR”

Um Relatório Para:

Polyflor Ltd.
Radcliffe New Road
Whitefield, Manchester M45 7N5
United Kingdom (Reino Unido)

Fone:

+44 0161 767 1111

Atenção:
E-mail:

Graham King
gking@polyflor.com

Submetido por:

Element Fire Testing

Relatório No:

22-002-019(A)
4 Páginas + Anexo

Data:

10 de fevereiro de 2022





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Tradução: 08
Arquivo: L. 429, fls. 46
Idioma a Traduzir: Inglês
Data: 24 de março de 2025

Documento: Relatório de Ensaio

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Relatório de Ensaio Nº: 22-002-019(A)
Ensaio ASTM E 662 de "Polyflor Palettone PUR"
Para: Polyflor Ltd.

1.0 RECONHECIMENTO

ISO/IEC 17025 para um Escopo de Ensaio definido pela Associação Americana de Reconhecimento de Laboratórios (A2LA)

2.0. ESPECIFICAÇÕES DO PEDIDO

Determinar a taxa de emissão de fumaça segundo ASTM E 662-21a^{e1}, segundo o Pedido de Compra de referência da Polyflor Ltd. Nº 2259607 e Orçamento Element Nº 22-002-321637 RV1 aceitos em 12 de janeiro de 2022.

2.1. Histórico de Revisão

Este é o original.

3.0 IDENTIFICAÇÃO DA AMOSTRA

Número de identificação Element da amostra: 22-002-S0019-1

O material de cobertura resiliente de piso, descrito como "Revestimento de vinil não direcional homogêneo para tráfego pesado e piso com reforço de superfície de poliuretano. Tom: 8645 Sahara Storm (Tempestade no Sahara)" e identificado como: "Polyflor Palettone PUR"

4.0 PREPARO DA AMOSTRA

O material de piso de 2mm de espessura foi aderido (pela Element) a um substrato de placa cimentícia reforçada de 6 mm de espessura utilizando um adesivo acrílico à base de água e ficou curando por um período mínimo de 24 horas antes do ensaio.

5.0 CONDICIONAMENTO

Antes do ensaio, as amostras de ensaio são pré-secas em um forno por um período de 24 horas a $140 \pm 5^\circ\text{F}$ ($60 \pm 3^\circ\text{C}$).

As amostras são, então, transferidas para um aposento condicionado mantido a $50 \pm 5\%$ de umidade relativa e $73 \pm 5^\circ\text{F}$ ($23 \pm 3^\circ\text{C}$) até atingir o equilíbrio.

6.0 REQUISITOS DE DESEMPENHO TÍPICOS

Para materiais de piso, muitas autoridades com competência legal estabelecem um critério de Densidade Óptica Específica (D_m (corr)) de média máxima corrigida de 450 apenas no Modo Flamejante.

7.0 RESUMO DE RESULTADOS DO ENSAIO

Identificação da Amostra	"Polyflor Palettone PUR"			
Resultado ASTM E 662	Aprovado			
D_m (corr) Média	Modo Flamejante	400	Modo Não-flamejante	376

7.1 Observações do Ensaio

No modo flamejante, a ignição no ponto de impingimento da chama aumentando para ignição total em 40 segundos. Também foram observadas fumaça visível e carbonização da superfície. No modo não-flamejante, foram observados produção visível de fumaça, bolhas e descoloração da superfície, abertura e corrugamento e intumescimento,





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Arquivo: L. 429, fls. 47
Idioma a Traduzir: Inglês
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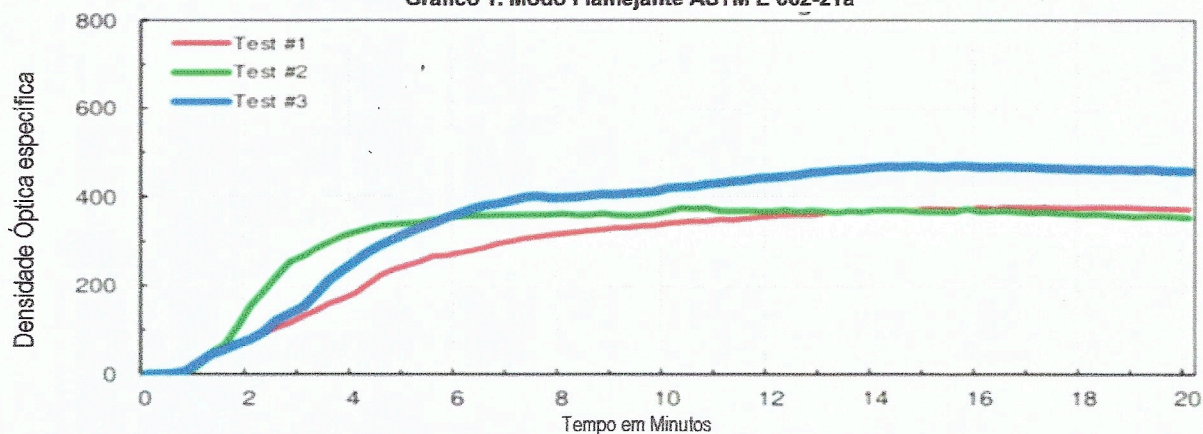
Relatório de Ensaio Nº: 22-002-019(A)

Ensaio ASTM E 662 de "Polyflor Palettone PUR"

Para: Polyflor Ltd.

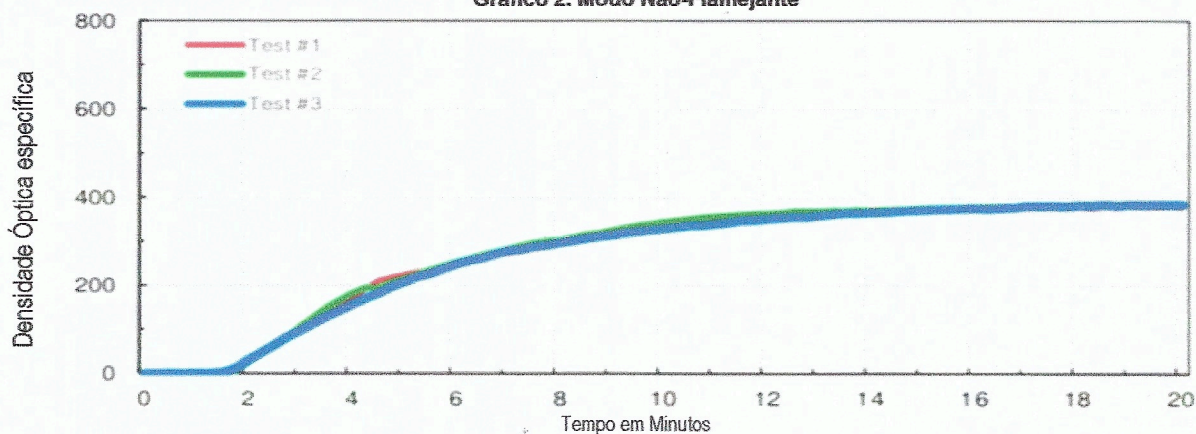
8.0 RESULTADOS DO ENSAIO

Gráfico 1. Modo Flamejante ASTM E 662-21a^{el}



Espessura: 2 mm	UR Ambiente: 20%	Temp. Parede da Câmara 35°C				Duração dos Ensaio: 20 min.	
Modo Flamejante		Ensaio	Nº 1	Nº 2	Nº 3	Média	Resultado
Densidade Óptica Específica a 1,5 minutos ($D_s 1,5$)			66	66	55	62	-
Densidade Óptica Específica a 4 minutos ($D_s 4,0$)			183	321	255	253	-
Densidade Óptica Específica Média (D_m)			378	376	470	408	-
Densidade Óptica Máxima Corrigida ($D_s (corr)$)			367	372	460	400	Aprovado

Gráfico 2. Modo Não-Flamejante



Espessura: 2 mm	UR Ambiente: 20%	Temp. Parede da Câmara 35°C				Duração dos Ensaio: 20 min.	
Modo Flamejante		Ensaio	Nº 1	Nº 2	Nº 3	Média	Resultado
Densidade Óptica Específica a 1,5 minutos ($D_s 1,5$)			2	1	2	2	-
Densidade Óptica Específica a 4 minutos ($D_s 4,0$)			172	182	156	170	-
Densidade Óptica Específica Média (D_m)			378	387	385	383	-
Densidade Óptica Máxima Corrigida ($D_m (corr)$)			371	378	379	376	-





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Idioma a Traduzir: Inglês
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Relatório de Ensaio N°: 22-002-019(A)
Ensaio ASTM E 662 de "Polyflor Palettone PUR"
Para: Polyflor Ltd.

9.0. CONCLUSÕES

O material de piso resiliente identificado neste relatório observa o critério de Densidade Óptica Específica Máxima Corrigida média de 450 no Modo Flamejante, conforme determinado por muitas autoridades com competência legal.

(assinatura constante)

Mel Garces,
Tecnologista Sênior

(assinatura constante)

Ian Smith,
Gerente Técnico

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Anexo

Relatório de Ensaio Nº: 22-002-019(A)
Ensaio ASTM E 662 de "Polyflor Palettone PUR"
Para: Polyflor Ltd.

A.0 ANEXO

A.1 Resumo do Procedimento de Ensaio ASTM E 662

Este método de ensaio abrange um procedimento para medir a taxa de fumaça emitida por materiais sólidos e montagens em espessuras de até 1 polegada (25,4 mm), inclusive. É feita a medida da atenuação de um raio de luz por fumaça (partículas suspensas sólidas ou líquidas) acumulando-se dentro de uma câmara fechada devido a combustão flamejante e decomposição pirolítica não flamejante. Os resultados são expressos em termos de densidade óptica específica (D_s), que é derivada de um fator geométrico e da densidade óptica medida (absorbância).

Três amostras, 3 polegadas (76 mm) quadradas são expostas a cada modo de combustão. Após um período de aquecimento e antes do início de cada ensaio, a temperatura da parede da câmara é estabelecida na variação de $94 \pm 4^\circ\text{F}$ ($35 \pm 2^\circ\text{C}$).

Dentre os parâmetros normalmente reportados estão:

$D_s 1,5$	=	densidade óptica específica máxima após 1,5 minutos
$D_s 4,0$	=	densidade óptica específica máxima após 4,0 minutos
D_m	=	densidade óptica específica máxima a qualquer tempo durante o ensaio de 20 minutos
$D_m (corr)$	=	D_m corrigida para depósitos incidentais sobre as superfícies ópticas

A.2 Cálculos

É registrada a transmissão percentual de luz durante o curso da combustão. Esses dados são usados para expressar a quantidade de fumaça em forma de densidade óptica específica (D_s) com base na seguinte fórmula, a qual assume a aplicabilidade da lei de Bouguer:

$$D_s = G [\log_{10}(100/T) + F]$$

Onde: D_s = densidade óptica específica

G = VIAL (fator geométrico)

T = transmitância percentual da luz, conforme lida a partir da célula fotovoltaica

V = volume da câmara fechada (pé³ ou m³)

A = área exposta da amostra (pé² ou m²)

L = comprimento do caminho da luz através da fumaça na câmara (pés ou metros)

F = Se o filtro está no lugar em T , $F = 0$; se o filtro for removido no tempo T , F = a densidade óptica conhecida do filtro e T é uma transmitância percentual aparente

POR SER ESTA A TRADUÇÃO DO DOCUMENTO ORIGINAL,
AQUI ASSINO COM FÉ PÚBLICA, INERENTE AO MEU OFÍCIO.

Andréa de Macedo Valério
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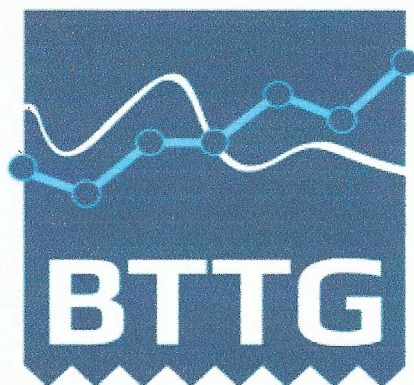


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Tradução: 07
Documento: Relatório de Ensaio
Arquivo: L. 429, fls. 38
Idioma a Traduzir: Inglês
Data: 24 de março de 2025

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ENSAIOS • CERTIFICAÇÃO • AUDITORIA

Relatório Confidencial

Nossa Ref: 26/03410A/11/24



1086





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Tradução: 07
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Idioma a Traduzir: Inglês
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Website: www.bttg.co.uk

Data: 09 de novembro de 2024

Nossa Ref: 26/03410A/11/24
Sua Ref:

Página: 1 de 6

Cliente:

Polyflor Ltd

PO Box 3
Radcliffe New Road
Whitefield
Manchester
M45 7MR

Título do Trabalho:

Ensaio de Fogo em Uma Amostra de Piso

Ref. do Pedido do Cliente:

2278440

Data do recebimento:

18 de novembro de 2024

Descrição da Amostra:

Uma amostra de piso, referenciada: Polyflor Palettone PUR,
Espessura Nominal: 2,0mm, Peso Por Área Unitária: 2,80 kg/m²,
Lote Nº: 7Z578, Tom: 8613 Faded Denim (Jeans Desbotado).

Trabalho Solicitado:

Fomos solicitados para fazer o seguinte ensaio:

AS ISO 9239-1:2003

- * ensaio terceirizado, reconhecido pelo UKAS (Serviço de Reconhecimento do Reino Unido)
- ** ensaio terceirizado, reconhecido pela norma EN ISO/IEC 17025
- *** não reconhecido pelo UKAS (Serviço de Reconhecimento do Reino Unido)

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Tradução: 07
Arquivo: L. 429, fls. 40
Idioma a Traduzir: Inglês
Data: 24 de março de 2025

Documento: Relatório de Ensaio
Continuação



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Data: 09 de novembro de 2024

Nossa Ref: 26/03410A/11/24
Sua Ref:

Página: 2 de 6

Ciente: Polyflor Ltd

Folha de Descrição do Produto
(conforme fornecido pelo cliente)

Nome e/ou Identificação do Produto Testado	Polyflor Palettone PUR
Construção	Calandrado
Composição Geral	PVC Homogêneo
Massa por Área Unitária (g/m ²)	2800
Espessura Total (mm)	2.0
Espessura da Camada de Desgaste (mm)	N/A
Composição do Revestimento	PU
Aditivos Retardantes de Fogo?	Não



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Arquivo: L. 429, fls. 41
Idioma a Traduzir: Inglês
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Documento: Relatório de Ensaio
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Ciente: Polyflor Ltd

ENSAIOS DE FOGO SEGUNDO A NORMA ISO 9239-1:2003

Reação a ensaios de fogo para Pisos - Parte 1: Determinação do comportamento de queima usando uma fonte radiante de calor (ISO 9239-1:2002)

Data do Ensaio: 05/12/24

Acondicionamento

As amostras foram acondicionadas segundo a norma BS EN 13238:2010. O substrato usado foi uma placa cimentícia (ISO 390) com espessura de (6 ± 1) mm e densidade de (1.800 ± 200) Kg/m³ representando o substrato padrão A1fl ou A2fl.

Método de Montagem

As amostras de cobertura de piso foram testadas aderidas a uma placa cimentícia de base de 6mm, conforme definido na norma BS EN 13238:2010 usando adesivo Styccobond F44.

Procedimento

O ensaio foi conduzido segundo a norma AS ISO 9239-1:2003. O cliente cortou as amostras nas dimensões declaradas.

As amostras foram colocadas individualmente na câmara de combustão ou pré-aquecidas por dois minutos sob um painel radiante, o que dá um fluxo radiante imposto variando entre aproximadamente 11,0 kW/m² e 1,0 kW/m² ao longo da amostra.

A chama piloto usada foi o queimador em linha conforme descrito e foi aplicada à superfície da amostra por 10 minutos e depois removida.

A frente da chama foi medida ao final do ensaio ou a 30 minutos, se aplicável.

O encerramento do ensaio foi considerado como sendo quando a frente da chama se extinguisse ou aos 30 minutos, o que ocorresse antes.

O fluxo de valor do painel incidente na amostra quando auto extinguido ou em 30 minutos (fluxo crítico de calor FCC ou FC-30) foi calculado a partir de uma calibragem anterior.



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Arquivo: L. 429, fls. 42
Idioma a Traduzir: Inglês
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Ciente: Polyflor Ltd

Resultados

Os resultados do ensaio relacionam-se com o comportamento das amostras do ensaio sob as condições específicas do ensaio; não pretendem ser o único critério para avaliar o risco total de potencial de fogo dos materiais em uso.

Nº da amostra	Direção da amostra	Obscurecimento/Desenvolvimento da Fumaca		Frente Máxima da Chama (mm)	Fluxo de Calor- 30 (FC-30) (KW/m²)	Calor Crítico/Fluxo Radiante (FCC/FCR) (KW/m²)	Duração da Chama (seg)
		% máx	% x mín				
1	Máquina	92	253	101	11,1	11,1	720
2	Através	99	237	85	>11,1	>11,1	736
3	Máquina	92	250	80	>11,1	>11,1	735
4	Máquina	97	235	91	>11,1	>11,1	721
Média de 3 amostras	Máquina	94	246	91	>11,1	>11,1	725

Distância Queimada (mm)		Tempo de queima de cada amostra			
		1	2	3	4
50	240	300	221	205	
100	272				

Observação

Foi testada, inicialmente, uma amostra em cada direção e, na direção em que foi produzido o pior resultado, mais duas amostras foram testadas. Apenas os resultados das 3 amostras na mesma direção foram usados para calcular os resultados médios.



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Cliente: Polyflor Ltd

Onde necessário opinar sobre quaisquer critérios de aprovação/reprovação, foi levada em conta uma estimativa de incerteza de medida. Segundo nossa Política, utilizamos uma regra não-binária de decisão.

Para maiores informações, veja nossa Política de regras de decisão (<https://www.bttg.co.uk/about-us/decision-rules-policy>).

Relatado por: (assinatura constante) B. Marsden (Sra), Técnica Sênior de Laboratório

Assinado por: (assinatura constante) A. Shute Chefe de Seção

Perguntas referentes a este relatório deverão ser endereçadas a Serviços ao Consumidor.



1066

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Cliente:

Polyflor Ltd

Orçamento de Incerteza

O orçamento de incerteza para AS ISO 9239-1: 2010 foi determinado conforme se segue:

Geral

A incerteza varia pelo comprimento do painel, portanto:

- a) Na posição entre 0 - 450mm $\pm 7\%$
b) Na posição entre 450mm - 1000mm $\pm 8\%$

Obscurecimento de Fumaça $\pm 15\%$



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Andréa de Macedo Valério
Andréa de Macedo Valério
Tradutora Pública Juramentada



LEED® Points



Polyflor Palettone PUR

Category	Points
Materials & Resources	
MR Credit: Building Product Disclosure and Optimisation – Environmental Product Declarations	0.5
Generic EPD available	
MR Credit: Building Product Disclosure and Optimisation – Sourcing of Raw Materials (Recycled Content)	1
20% post production (pre-consumer) & 5% post-consumer recycled content	
MR Credit: Building Product Disclosure and Optimisation – Sourcing of Raw Materials (Bio-based Content)	1
63% natural content; 2% rapidly renewable: Phthalate free with bio-based content	
MR Credit: Construction and Demolition Waste Management	1-2
100% recyclable. 50% of all waste recycled = 1 point; 75% of waste recycled = 2 points	
Indoor Environmental Quality	
EQ Credit: Low Emitting Materials – Option 1, Product Calculation CDPH Compliant & Option 2, Budget Calculation CDPH Compliant	1-3
FloorScore® and Indoor Air Comfort Gold certified	

ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	James Halstead PLC
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-JHA-20250111-CBA1-EN
Issue date	13.02.2025
Valid to	12.02.2030

**Polyflor Palettone PUR, Polyflor Prestige PUR and Polyflor
Pearlazzo PUR**
James Halstead plc

www.ibu-epd.com | <https://epd-online.com>



General Information

James Halstead plc

Programme holder

IBU – Institut Bauen und Umwelt e.V.
Hegelplatz 1
10117 Berlin
Germany

Declaration number

EPD-JHA-20250111-CBA1-EN

This declaration is based on the product category rules:

Floor coverings, 01.08.2021
(PCR checked and approved by the SVR)

Issue date

13.02.2025

Valid to

12.02.2030



Dipl.-Ing. Hans Peters
(Chairman of Institut Bauen und Umwelt e.V.)



Florian Pronold
(Managing Director Institut Bauen und Umwelt e.V.)

Polyflor Palettone PUR, Polyflor Prestige PUR and Polyflor Pearlazzo PUR

Owner of the declaration

James Halstead PLC
Beechfield, Hollinhurst Rd. .
M261JN Whitefield, Manchester
United Kingdom

Declared product / declared unit

1 m² of installed Polyflor Palettone PUR, Prestige PUR or Pearlazzo PUR floor covering.

Scope:

Polyflor Palettone PUR, Prestige PUR and Pearlazzo PUR from James Halstead plc, Manchester, UK. The declaration refers to a decorative homogeneous floor covering of thickness 2.0mm. The product is manufactured in Manchester, UK.
The results in this core-EPD were calculated using an LCA tool verified by IBU in 2024.
The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as *EN 15804*.

Verification

The standard EN 15804 serves as the core PCR		
Independent verification of the declaration and data according to ISO 14025:2011		
☐	internally	☒ externally



Ms Emma Wilde,
(Independent verifier)

Product

Product description/Product definition

Polyflor Palettone PUR, Prestige PUR and Pearlazzo PUR decorative vinyl sheet and tile floor covering of 2.0 mm thickness, manufactured in accordance with ISO 10581. The uppermost surface features a PUR reinforcement that protects the floor covering by resisting soiling and scuffing. For the placing on the market of the product in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) Regulation (EU) No. 305/2011 (CPR) applies. The product needs a declaration of performance taking into consideration EN 14041:2018 Resilient, textile, laminate and modular multilayer floor coverings. Essential characteristics, and the CE Marking. For the application and use the respective national provisions apply.

CE Declarations of Performance are available at www.polyflor.com or www.objectflor.de.

Application

Polyflor Palettone PUR, Prestige PUR and Pearlazzo PUR are attractive, high performance flexible vinyl sheets of mono-layer construction with a non-directional decoration, in a broad palette of colours. A low maintenance, hygienic flooring solution, suitable for the demanding healthcare sector, education, retail office and other commercial interiors. Polyflor Palettone PUR, Prestige PUR and Pearlazzo PUR are classified as 23,34,43 according to ISO 10874.

Example of a use area: Polyflor Prestige PUR



Technical Data

Product standards:

- ISO 10581 Resilient floor coverings - Homogeneous poly(vinyl chloride) floor covering - Specifications (Type I Binder content)

- ISO 10874 Resilient, textile and laminate floor coverings - Classification
- EN13501-1 Fire classification of construction products and building elements - Classification using data from reaction to fire tests
- EN13893 Resilient, laminate and textile floor coverings. Measurement of dynamic coefficient of friction on dry floor surfaces
- EN1815 Resilient and laminate floor coverings. Assessment of static electrical propensity

Polyflor Palettone PUR, Pearlazzo PUR and Prestige PUR are classified as B_{f1}-s1 according to EN 13501-1 Fire classification of construction products and building elements.

Technical data sheets are available at www.polyflor.com or www.objectflor.de.

Constructional data

Name	Value	Unit
Product thickness	2	mm
Grammage	2950	g/m ²
Abrasion Class	Type I	-
Product Form	Sheet & Tile	-
Type of manufacture	Extrusion & Pressing	-
Density	1400	kg/m ³

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to EN 14041:2018 Resilient, textile, laminate and modular multilayer floor coverings. Essential characteristics.

Example of a use area: Polyflor Pearlazzo PUR



Base materials/Ancillary materials

Name	Value	Unit
Polyvinyl Chloride	45-47	%
Plasticiser	15-17	%
Mineral Fillers	31-33	%
Titanium Dioxide	1-3	%
Epoxidised Ester Blend	1-3	%
Stabiliser	<1	%
Pigments	<1	%
Additives	<1	%
Polyurethane Coating	<1	%

The floor coverings can contain up to 25% of recycled material of the same formulation/ingredients which can consist of either or both of post industrial and post consumer material.

1) "This product/article/at least one partial article contains substances listed in the candidate list (date: 07/11/2024) exceeding 0.1 percentage by mass: no".

2) "This product contains other CMR substances in categories 1A or 1B which are not on the candidate list, exceeding 0.1 percentage by mass: no".

3) "Biocide products were added to this construction product or

it has been treated with biocide products (this then concerns a treated product as defined by the (EU) Ordinance on Biocide Products No. 528/2012): no".

Period Under Review

The data collection period for the LCA calculation was 01/07/2023 to 30/06/2024.

Reference service life

For this product, the stated Reference Service Life (RSL) is 1 year.

James Halstead plc recommend a service life of 30 years, which is based on their experience of flooring manufacture and supply. The recommended service life is applicable as long as the product use complies with that defined by EN 14041 and ISO 10874 in accordance with the Polyflor Palettone PUR, Prestige PUR and Pearlazzo PUR use classification (class 23, 34 and 43).

It should be noted, however, that the service life of a Homogeneous Polyvinyl chloride floor covering may vary depending on the amount & nature of floor traffic, the type & frequency of maintenance, and misuse of the product. Therefore, the RSL is stated as 1 year to allow the effects of maintenance (B2) to be calculated as required for the products anticipated useful life.

LCA: Calculation rules

Declared Unit

This declaration refers to a declared unit of 1 m² of installed Polyflor Palettone PUR, Pearlazzo PUR or Prestige PUR floor covering.

Declared unit and mass reference

Name	Value	Unit
Declared unit	1	m ²
Grammage	2.98	kg/m ²
Layer thickness	0.002	m

The EPD results are calculated based on the measured weight of the declared floor covering provided in the table directly above. The grammage provided is the "construction data" table is the nominal weight for the declared product, which refers to the average/marketed weight.

System boundary

The type of EPD according to EN 15804: "cradle to gate with options, modules C1-C4, and module D". The following modules are declared: A1-A3, C, D and additional modules: A4, A5, and B2.

The following life cycle stages are considered:

Production - Modules A1-A3

The product stage includes:

- Raw material supply (A1): raw material extraction and processing including recycled content.
- Transport to the manufacturer (A2):
- Manufacturing (A3): manufacturing expenses of the products including packaging materials and consumption of electricity (0.39 kgCO₂eq./kWh) and thermal energy (0.064 kgCO₂eq./MJ).
- The product is manufactured in Manchester, UK.

Construction Stage - Modules A4-A5

The construction process stage includes:

- Transport to the construction site (A4).
- Production and treatment of generated cutting waste at the installation and packaging material (A5). Benefits of potential avoided burdens due to energy substitution of electricity and thermal energy are declared in module D. It also includes the consumption of adhesive during installation.

Use Stage - Module B2

The Use stage includes:

- Maintenance (B2): detergents, water and electricity consumption.
- Data averaged for standard combination of 80% manual cleaning and 20% electric cleaning.

End-of-Life (EOL) Stage - Modules C1-C4

- Mechanical dismantling with electricity consumption (C1).
- Transport to EoL (C2): 25 km distance travelled via truck transport.
- EoL Scenario 0 (C3): 100% thermal treatment of the floor covering with energy recovery (including auxiliaries at installation).
- EoL Scenario 1 (C3/1): 100% recycling of the floor covering (including auxiliaries at installation).
- EoL Scenario 2 (C4): 100% landfill of the floor covering (including auxiliaries at installation).

Benefits and Loads beyond the product system boundary

Benefits for potential avoided burdens during treatment of packaging materials, installation cuttings and/or auxiliaries (from module A5) due to energy substitution of electricity and thermal energy generation and/or material recycling under European condition are declared in Module D (duplicated in D, D/1 and D/2, respectively).

Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product's lifespan: Europe

Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account. Sphera LCA software (GaBi ts) content update package (CUP) version 2023.2.

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

For 1 m² of Polyflor Palettone PUR, Polyflor Prestige PUR and Polyflor Pearlazzo PUR floor coverings, the biogenic carbon content is declared below:

Information on describing the biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	0.0592	kg C
Biogenic carbon content in accompanying packaging	0.0416	kg C

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO₂.

Transport to the construction site (A4)

This declaration considers the transport of the floor covering product from the factory gate to an average European customer site calculated from a combination of haulier routes via truck, rail, and ship transport in module A4.

Name	Value	Unit
Transport distance (via truck)	482	km
Transport distance (via ship)	708	km
Transport distance (via rail)	0	km

Installation in the building (A5)

Name	Value	Unit
Installation cutting waste	6	%
Adhesive (water based acrylic)	0.3	kg/m ²
Paper & cardboard packaging	0.0321	kg/m ²
Wood packaging	0.0467	kg/m ²
Plastic packaging (PE/PET/PS)	0.0016	kg/m ²
Paper/PE Composite packaging	0.0194	kg/m ²

Maintenance (B2)

This information refers to 1 year (RSL).

Name	Value	Unit
Maintenance cycle	156	Number/RSL
Water consumption	0.003	m ³
Electricity consumption	0.037	MJ
Auxiliary (detergent)	0.044	kg

End of Life (C1-C4)

Name	Value	Unit
Electricity consumption for deconstruction (C1)	0.09	MJ
Transport distance (via truck) (C2)	25	km
Energy recovery, (100%, scenario 0)	2.98	kg
Recycling (100%, Scenario 1)	2.98	kg
Landfilling (100%, Scenario 2)	2.98	kg

Recovery, Reuse and or Recycling potentials (D), relevant scenario information

Benefits for potential avoided burdens during treatment of packaging materials, installation cuttings and/or auxiliaries (from module A5) due to energy substitution of electricity and thermal energy generation and/or material recycling under European conditions are declared in module D (duplicated in modules D/1 and D/2) and affects only the rate of primary material (no secondary materials).

Loads and benefits beyond the product system boundary from thermal treatment of the floor covering with benefits for potential avoided burdens due to energy substitution of electricity and thermal energy under European conditions is declared in module D/1.

No benefits were accounted from the recycling EoL scenario (C3/1) in module D/1.

No benefits were accounted from the landfill EoL scenario (C4) in module D/2.

LCA: Results

Results provided in this section are presented in relation to 1 m² of the Polyflor Palettone PUR, Polyflor Prestige PUR or Polyflor Pearlazzo PUR floor covering products. For the maintenance scenario (B2), the results refer to a period of one year. For the calculation of impacts of module B2 for a certain service life, the impacts results for module B2 have to be multiplied by the estimated service life in years.

For the End-of-Life (EoL) stage, three scenarios are considered:

- Scenario 0 (C3) considers 100% thermal treatment. Corresponding loads & benefits beyond system boundary are declared in Module D.
- Scenario 1 (C3/1) considers 100% recycling. Corresponding loads & benefits beyond system boundary are declared in Module D/1.
- Scenario 2 (C4) applies to 100% landfilling. Corresponding loads & benefits beyond system boundary are declared in Module D/2.

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

Product stage			Construction process stage		Use stage							End of life stage				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	MND	X	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 m² Polyflor Palettone PUR, Polyflor Pearlazzo PUR and Polyflor Prestige PUR

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C3/1	C4	D	D/1	D/2
GWP-total	kg CO ₂ eq	5.75E+00	1.45E-01	1.06E+00	3.39E-02	8.14E-03	6.21E-03	3.21E+00	2.17E-01	4.42E-01	-1E+00	-4.24E-01	-4.24E-01
GWP-fossil	kg CO ₂ eq	6.08E+00	1.45E-01	9.75E-01	3.37E-02	8.06E-03	6.2E-03	2.99E+00	0	2.25E-01	-9.98E-01	-4.22E-01	-4.22E-01
GWP-biogenic	kg CO ₂ eq	-3.29E-01	-1.14E-07	8.52E-02	2.11E-04	7.01E-05	3.24E-07	2.18E-01	2.17E-01	2.17E-01	-4.56E-03	-1.93E-03	-1.93E-03
GWP-luluc	kg CO ₂ eq	5.88E-03	1.42E-04	1.91E-03	1.99E-05	8.77E-07	7.16E-06	3.26E-04	0	1.86E-04	-6.51E-05	-2.76E-05	-2.76E-05
ODP	kg CFC11 eq	3.29E-11	1.75E-14	3.13E-12	7.26E-14	1.49E-13	7.72E-16	3.1E-12	0	3.79E-13	-7.85E-12	-3.33E-12	-3.33E-12
AP	mol H ⁺ eq	1.76E-02	5.11E-04	1.73E-03	1.53E-04	1.72E-05	5.92E-06	1.08E-03	0	6.77E-04	-1.25E-03	-5.29E-04	-5.29E-04
EP-freshwater	kg P eq	9.51E-05	6.18E-07	7.8E-06	1.24E-07	3.01E-08	3.1E-08	1.28E-06	0	4.34E-05	-1.62E-06	-6.87E-07	-6.87E-07
EP-marine	kg N eq	6.19E-03	2.31E-04	5.9E-04	2.59E-05	4.12E-06	2.5E-06	3.74E-04	0	1.55E-04	-3.65E-04	-1.55E-04	-1.55E-04
EP-terrestrial	mol N eq	6.62E-02	2.54E-03	6.76E-03	2.82E-04	4.31E-05	2.81E-05	4.54E-03	0	1.7E-03	-3.91E-03	-1.65E-03	-1.65E-03
POCP	kg NMVOC eq	2.07E-02	6.04E-04	1.87E-03	9.1E-05	1.1E-05	5.73E-06	1.03E-03	0	4.92E-04	-1.02E-03	-4.3E-04	-4.3E-04
ADPE	kg Sb eq	4.37E-06	9.43E-09	4.5E-07	6.61E-08	1.25E-09	4.13E-10	2.88E-08	0	5.97E-09	-7.17E-08	-3.04E-08	-3.04E-08
ADPF	MJ	1.47E+02	1.9E+00	1.56E+01	9.62E-01	1.7E-01	8.26E-02	6.89E+00	0	3.37E+00	-1.84E+01	-7.79E+00	-7.79E+00
WDP	m ³ world eq deprived	1.5E+00	7.37E-03	1.61E-01	1.1E-02	1.8E-03	3.67E-04	5.12E-01	0	-3.18E-03	-9.51E-02	-4.03E-02	-4.03E-02

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential)

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 m² Polyflor Palettone PUR, Polyflor Pearlazzo PUR and Polyflor Prestige PUR

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C3/1	C4	D	D/1	D/2
PERE	MJ	1.71E+01	7.21E-02	4.21E+00	8.05E-02	1.01E-01	3.53E-03	3.62E+00	0	3.04E-01	-5.36E+00	-2.27E+00	-2.27E+00
PERM	MJ	3.28E+00	0	-1.5E+00	0	0	0	-1.78E+00	-1.78E+00	0	0	0	0
PERT	MJ	2.04E+01	7.21E-02	2.71E+00	8.05E-02	1.01E-01	3.53E-03	1.84E+00	-1.78E+00	3.04E-01	-5.36E+00	-2.27E+00	-2.27E+00
PENRE	MJ	1.09E+02	2.04E+00	1.58E+01	9.62E-01	1.7E-01	8.87E-02	4.5E+01	0	3.37E+00	-1.84E+01	-7.8E+00	-7.8E+00
PENRM	MJ	3.83E+01	0	-2.16E-01	0	0	0	-3.81E+01	-3.81E+01	0	0	0	0
PENRT	MJ	1.48E+02	2.04E+00	1.56E+01	9.62E-01	1.7E-01	8.87E-02	6.89E+00	-3.81E+01	3.37E+00	-1.84E+01	-7.8E+00	-7.8E+00
SM	kg	2.78E-02	0	1.67E-03	0	0	0	0	0	0	0	2.98E+00	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0

FW	m ³	5.53E-02	2.44E-04	5.87E-03	2.73E-04	8.19E-05	1.21E-05	1.27E-02	0	3.32E-05	-4.34E-03	-1.84E-03	-1.84E-03
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PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2:

1 m² Polyflor Palettone PUR, Polyflor Pearlazzo PUR and Polyflor Prestige PUR

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C3/1	C4	D	D/1	D/2
HWD	kg	1.54E-06	5.83E-12	1.87E-06	3.05E-06	0	2.55E-13	8.36E-11	0	2.84E-10	-9.82E-10	-4.13E-10	-4.13E-10
NHWD	kg	5.14E-01	1.67E-04	1.9E-01	3.6E-04	1.24E-04	7.72E-06	1.81E+00	0	3.27E+00	-9.1E-03	-3.85E-03	-3.85E-03
RWD	kg	3.6E-03	5.8E-06	3.23E-04	2.15E-05	2.7E-05	2.54E-07	3.44E-04	0	3.99E-05	-1.42E-03	-6.03E-04	-6.03E-04
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	3.28E+00	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	6.47E-01	0	0	0	4.09E+00	0	0	0	0	0
EET	MJ	0	0	1.17E+00	0	0	0	7.38E+00	0	0	0	0	0

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy

RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional:

1 m² Polyflor Palettone PUR, Polyflor Pearlazzo PUR and Polyflor Prestige PUR

Parameter	Unit	A1-A3	A4	A5	B2	C1	C2	C3	C3/1	C4	D	D/1	D/2
PM	Disease incidence	2.95E-07	1.19E-08	2.61E-08	1.13E-09	1.45E-10	4.09E-11	2.11E-08	0	6.56E-09	-1.06E-08	-4.49E-09	-4.49E-09
IR	kBq U235 eq	3.73E-01	4.88E-04	3.82E-02	2.98E-03	4.49E-03	2.15E-05	5.21E-02	0	5.9E-03	-2.37E-01	-1E-01	-1E-01
ETP-fw	CTUe	6.13E+01	1.59E+00	6.02E+00	6.01E-01	4.72E-02	6.92E-02	3.73E+00	0	2.87E+00	-2.57E+00	-1.09E+00	-1.09E+00
HTP-c	CTUh	1.93E-09	2.53E-11	2.17E-10	9.42E-12	2.5E-12	1.1E-12	1.56E-10	0	1.48E-10	-2.04E-10	-8.64E-11	-8.64E-11
HTP-nc	CTUh	8.74E-08	5.74E-10	1.18E-08	2.03E-10	3.98E-11	2.56E-11	1.11E-08	0	1.18E-08	-5.02E-09	-2.12E-09	-2.12E-09
SQP	SQP	6.29E+01	3.09E-01	1.02E+01	4.98E-02	6.66E-02	1.56E-02	1.64E+00	0	2.92E-01	-3.52E+00	-1.49E+00	-1.49E+00

PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

Disclaimer 1 – for the indicator “Potential Human exposure efficiency relative to U235”. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators “abiotic depletion potential for non-fossil resources”, “abiotic depletion potential for fossil resources”, “water (user) deprivation potential, deprivation-weighted water consumption”, “potential comparative toxic unit for ecosystems”, “potential comparative toxic unit for humans – cancerogenic”, “Potential comparative toxic unit for humans - not cancerogenic”, “potential soil quality index”. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

This EPD was created using a software tool.

References

Standards

EN 13501-1

Fire classification of construction products and building elements. Classification using data from fire resistance and/or smoke control tests, excluding ventilation services.

EN 13893

Resilient, laminate and textile floor coverings. Measurement of dynamic coefficient of friction on dry floor surfaces.

EN 14041

Resilient, textile, laminate and modular multilayer floor coverings. Essential characteristics.

EN 15804

Sustainability of construction works. Environmental product declarations. Core rules for the product category of construction products.

EN 1815

Resilient and laminate floor coverings. Assessment of static electrical propensity

ISO 10581

Resilient floor coverings — Homogeneous poly(vinyl chloride) floor covering — Specifications

ISO 10874

Resilient, textile and laminate floor coverings. Classification

ISO 10425

Environmental labels and declarations - Type III environmental declarations - Principles and procedures.

Further References

IBU 2021

Institut Bauen und Umwelt e.V.: General Instructions for the EPD programme of Institut Bauen und Umwelt e.V., Version 2.0, Berlin: Institut Bauen und Umwelt e.V., 2021
www.ibu-epd.com

PCR Part A

PCR - Part A: Calculation rules for the Life Cycle Assessment and Requirements on the Background Report, version 1.4, Institut Bauen und Umwelt e.V., 15.04.2024.

PCR Part B

PCR – Part B: Requirements of the EPD for Floor coverings, v10, Institut Bauen und Umwelt e.V., www.bau-umwelt.com, 01.08.2021.

Polyflor LCA tool

LCA tool for PVC floor coverings

LCA Tool No.: IBU-JHA-202401-LT1-EN

Developed by Sphera Solutions

Sphera LCA FE (GaBi ts)

GaBi ts dataset documentation for the software-system and databases, LBP, University of Stuttgart and thinkstep, Leinfelden-Echterdingen, 2023 (<https://www.gabi-software.com/support/gabi>).

Sphera LCA Calculator Software (GaBi Envision)

GaBi Envision 5.0 Sphera Solution GmbH, the LCA, EPD and Ecodesign tool, <http://www.gabisoftware.com/international/software/gabi-envision/>, 2023



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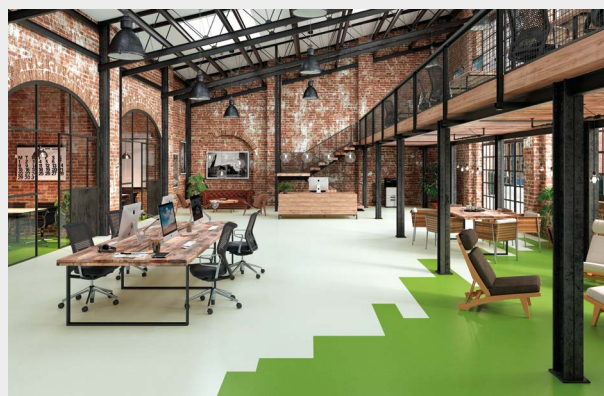
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Palettone PUR

PRODUCT SPECIFICATION

Key Features

- > Heavy-duty homogeneous vinyl flooring with tonal chip decoration
- > Palette of 42 contemporary colours
- > Low cost, polish-free maintenance
- > Welded for seamless finish
- > Healthcare & education interiors



Product Format	Standard	Result
Gauge	ISO 24346 (EN 428)	2.0mm
Total Weight	ISO 23997 (EN 430)	2800g/m ²
Finish		PUR

Sheet & Tile Sizes	Size	Shades	Quantity per Box	Coverage per Box/Roll
Sheet	2m x 20m	42	-	40m ²
Tile	608mm x 608mm +	12	14	5.17m ²

Performance Requirements	Standard	Result
General Performance	ISO 10581 ASTM F1913 ASTM F1700	Conforms Conforms Class I, Type A
Use Area	ISO 10874 (EN 685)	23, 34, 43
Slip Resistance	EN 13893 DIN 51130 / DIN EN 16165 Ann. B AS 4586 ASTM D2047	Class DS R10 R10 SCOF ≥0.6
Binder Content	ISO 10581	Type I
Abrasion Resistance	EN 660-2	Group T
Reaction to Fire	EN 13501-1 ASTM E648 ASTM E662 CAN/ULC S102.2 AS ISO 9239-1	Class Bfl-S1 Class 1 <450 FSV < 300; SDV < 500 >8.0 kW/m ²
Static Electrical Propensity	EN 1815	≤2.0kV Classified as 'antistatic'
Residual Indentation	ASTM F970 (Modified) ISO 24343-1	≤0.005" (750psi) ≤0.10mm
Castor Chair (continuous use)	ISO 4918 (EN 425)	Suitable
Flexibility	ASTM F137	Pass
Underfloor Heating		Suitable, max 27°C
Light Fastness	ISO 105-B02 (Method 3)	≥6

Resistance to Light	ASTM F1515	$\Delta E \leq 8.0$ - Meets
Resistance to Heat	ASTM F1514	$\Delta E \leq 8.0$ - Meets

Sustainability

	Standard	Result
BRE Green Guide		A+ ENP 472
GreenTag	LCA Rate Gold Plus	GreenRate level A
Singapore Green Building Product (SGBP)		Leader
Generic EN 15804 EPD		Available
Recyclable		100%
Recycled Content		25%
REACH		Compliant
Indoor Air Comfort Gold		Eurofins certified product
FloorScore		Certified
Finnish M1 Classification		Certified
AgBB/ABG		Pass
VOC Emissions	TVOC after 28 days	$\leq 10\mu\text{g}/\text{m}^3$
Responsible Sourcing	BES 6001	Excellent

Acoustic Performance

	Standard	Result
Impact Sound Reduction	ISO 10140-3	4dB

Maintenance Performance

	Standard	Result
Resistance to Chemicals	ISO 26987 (EN 423) ASTM F925	Good resistance Good resistance
Alco Hand Gels	Compatible for use with most commonly used alco-based hand gels	
Steam Cleaning	Suitable for steam cleaning on a periodic basis	

All Polyflor commercial sheet vinyl ranges provide a continuous, impervious and hygienic flooring solution which can be confidently cleaned in accordance with recommended maintenance procedures and approved maintenance products. The implementation of an effective cleaning regime is the most important defence against infection. Regular light maintenance is more cost-effective than periodic heavy maintenance and more beneficial to the floor covering.

Hygiene

	Standard	Result
Bacterial Resistance	ISO 846 Part C	Does not favour growth
Clean Rooms	ISO 14644-1	Class 4
Ease of Radioactive Decontamination	ISO 8690	Excellent



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V3

Palettone PUR

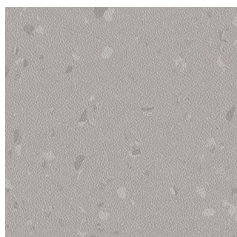
RANGE SHADES



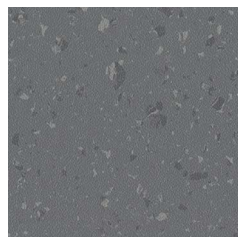
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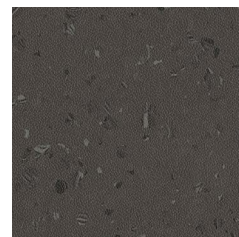
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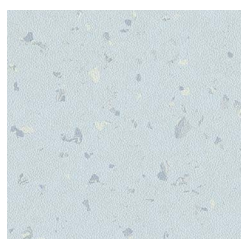
Dove Tail 8607 w/r 8607
NCS S 3502-R LRV 38
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Pencil Lead 8608 w/r 8608
NCS S 6005-B20G LRV 18
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Deep Space 8609 w/r 8609
NCS S 7500-N LRV 10
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Weekend Sky 8611 w/r 8611
NCS S 0907-R90B LRV 64
+



Faded Denim 8613 w/r 8613
NCS S 3030-R90B LRV 28
+



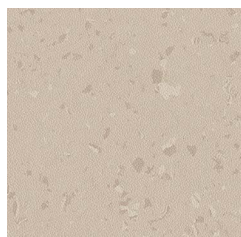
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Harvest Air 8620 w/r 8620
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Foundation 8622 w/r 8622
NCS S 2010-Y20R LRV 49
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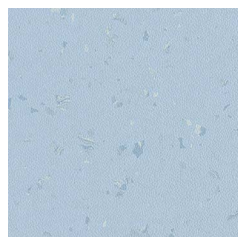
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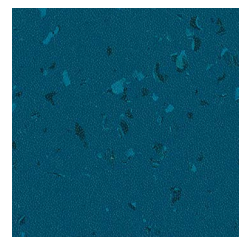
Hay Grain 8655 w/r 9702
NCS S 1515-Y10R LRV 59
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Morning Air 8610 w/r 8610
NCS S 1002-B50G LRV 75



Painter's Dream 8612 w/r 8612
NCS S 1020-R80B LRV 54



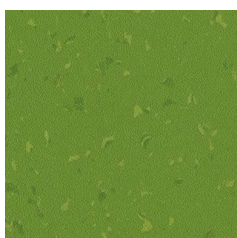
Petrol 8614 w/r 8614
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Orchard Walk 8616 w/r 8616
NCS S 1020-G40Y LRV 60



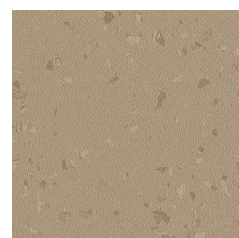
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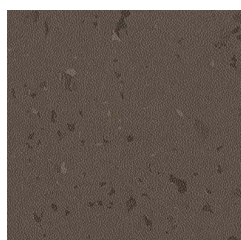
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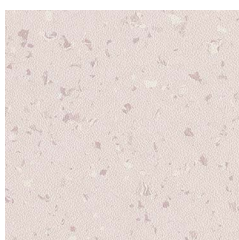
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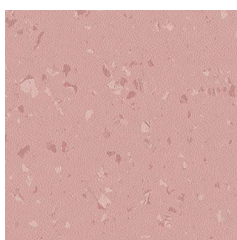
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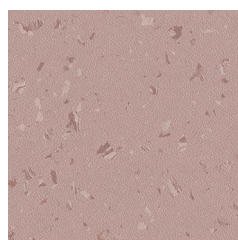
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NCS S 7005-Y20R LRV 12



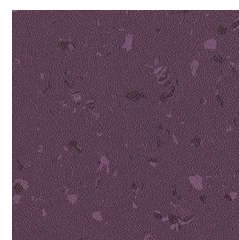
Blossom Air 8625 w/r 8625
NCS S S 1002-R LRV 67



Sugar Candy 8627 w/r 8627
NCS S S 2020-R LRV 42



Potters Wheel 8628 w/r 8628
NCS S 3010-R LRV 35

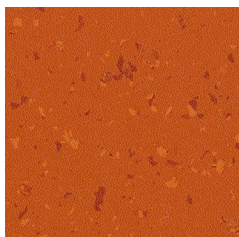


Regency Room 8629 w/r 8629
NCS S 6020-R40B LRV 10

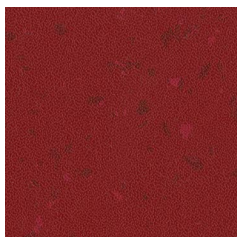
Palettone PUR



New Dawn **8630** w/r 8630
NCS S 1070-Y10R LRV 49



Cayenne Heat **8633** w/r 8633
NCS S 3060-Y60R LRV 18



Heritage Hall **8634** w/r 8634
NCS S 5040-Y90R LRV 10



Linen Air **8635** w/r 9703
NCS S 1502-Y LRV 62



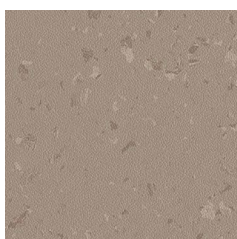
Cool Blende **8636** w/r 9704
NCS S 3005-R80B LRV 43



Lunar Landscape **8637** w/r 9718
NCS S 4000-N LRV 34



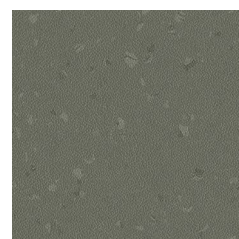
Quarrrystone **8639** w/r 8639
NCS S 5500-N LRV 23



Fired Ochre **8642** w/r 9724
NCS S 4005-Y20R LRV 29



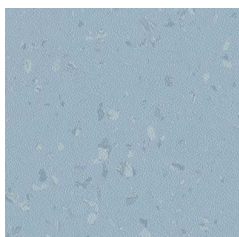
Garden Sage **8643** w/r 8643
NCS S 4005-G50Y LRV 32



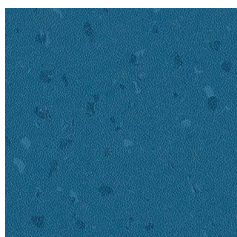
Dried Tarragon **8644** w/r 8644
NCS S 6005-G50Y LRV 17



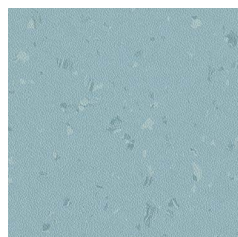
Pecan Crunch **8646** w/r 9723
NCS S 3010-Y20R LRV 39



Superior Sky **8648** w/r 9709
NCS S 2020-R90B LRV 43



Sapphire Star **8649** w/r 9720
NCS S 5030-R90B LRV 14



Aqua Pura **8651** w/r 9710
NCS S 3010-B LRV 41



Pennyroyal Mint **8652** w/r 9706
NCS S 2020-B50G LRV 45



Crisp Apple **8653** w/r 9708
NCS S 2030-G30Y LRV 40



Buttered Corn **8656** w/r 3580
NCS S 2040-Y10R LRV 48

w/r - Weld Rod

LRV - Light Reflectance Value

NCS - Natural Colour System

✦ Tile: 2.0mm - 608mm x 608mm

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