

HPD UNIQUE IDENTIFIER: 25249

CLASSIFICATION: 09 69 13 Rigid-Grid Access Flooring

PRODUCT DESCRIPTION: FDEB4 is suitable for data centres and server room use. Using FDEB4 panels results in a Class 4 elevated modular floor onto which IT components can be placed including server cabinets, uninterruptible power supplies and cooling systems A vinyl surface finish can be laminated to the top surface;in this case, a full-depth edge ABS band is added which provides protection to the edge of the surface finish. This HPD applies to the FDEB4 panel before finish is applied.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold level	Residuals/Impurities	
☒ Nested Materials Method	☒ 100 ppm	Residuals/Impurities	<i>All Substances Above the Threshold Indicated Are:</i>
☐ Basic Method	☐ 1,000 ppm	Considered in 3 of 3 Materials	Characterized ☐ Yes Ex/SC ☒ Yes ☐ No
Threshold Disclosed Per	☐ Per GHS SDS	Explanation(s) provided for Residuals/Impurities?	% weight and role provided for all substances.
☐ Material	☐ Other	☒ Yes ☐ No	Screened ☐ Yes Ex/SC ☒ Yes ☐ No
☒ Product			<i>All substances screened using Priority Hazard Lists with results disclosed.</i>
			Identified ☐ Yes Ex/SC ☐ Yes ☒ No
			<i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i>

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

PARTICLE BOARD [WOOD FIBER - UNSPECIFIED NoGS UREA, POLYMER WITH AMMONIA AND FORMALDEHYDE LT-UNK WATER BM-4 UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK] STEEL, GALVANISED [IRON, ELEMENTAL LT-P1 | END ZINC, ELEMENTAL LT-P1 | AQU | END | MUL | PHY CARBON LT-UNK MANGANESE LT-P1 | END | MUL | REP SILICON, ELEMENTAL LT-UNK TITANIUM LT-UNK PHOSPHORUS BM-2 | MAM | PHY] POLYURETHANE ADHESIVE [UNDISCLOSED LT-UNK UNDISCLOSED BM-1 | CAN UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | MUL | RES UNDISCLOSED LT-UNK | CAN | MUL | RES | SKI | EYE UNDISCLOSED NoGS]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

The Quartz database for common building materials was used when the manufacturer's information was lacking CAS identifiers or in cases where the material is not manufactured by Kingspan and secondary material information has been relied on. Comparing and contrasting Kingspan's own documentation against the generic product database allowed for a more robust screening than using the documentation alone.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: CDPH Standard Method V1.1 (Section 01350/CHPS) - Classroom & Office scenario

LCA: Environmental Product Declaration by EuGeos

Sustainable forestry: FSC Certification - Chain of Custody (COC)

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?	PREPARER: Self-Prepared	SCREENING DATE: 2021-06-11
☐ Yes	VERIFIER:	PUBLISHED DATE: 2021-07-06
☒ No	VERIFICATION #:	EXPIRY DATE: 2024-06-11

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.2, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-2-standard

PARTICLE BOARD		%: 59.0000 - 61.0000		
PRODUCT THRESHOLD: 100 ppm		RESIDUALS AND IMPURITIES CONSIDERED: Yes		MATERIAL TYPE: Wood Dust, Fiber or Chips
RESIDUALS AND IMPURITIES NOTES: The product contains wood from various sources with uncharacterised residuals				
OTHER MATERIAL NOTES:				
WOOD FIBER - UNSPECIFIED				ID: Not registered
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:22		
%: 76.0000 - 84.0000		GS: NoGS	RC: Both	NANO: No SUBSTANCE ROLE: Biological material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: wood chip of mixed origin				
UREA, POLYMER WITH AMMONIA AND FORMALDEHYDE				ID: 27967-29-9
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:23		
%: 9.0000 - 10.0000		GS: LT-UNK	RC: None	NANO: No SUBSTANCE ROLE: Binder
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES:				
WATER				ID: 7732-18-5
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:24		
%: 7.0000 - 10.0000		GS: BM-4	RC: UNK	NANO: No SUBSTANCE ROLE: Biological material
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES:				
UNDISCLOSED				ID: Undisclosed
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:29		

%: 0.0000 - 1.0000		GS: LT-UNK	RC: UNK	NANO: No	SUBSTANCE ROLE: Viscosity modifier
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
None found			No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: actual role in resin formualtion is uncertain					

UNDISCLOSED ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:30	
%: 0.0000 - 1.0000		GS: LT-UNK	RC: UNK NANO: No SUBSTANCE ROLE: Viscosity modifier
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
None found		No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: actual role of substance in resin formulation is uncertain			

STEEL, GALVANISED		%: 38.5000 - 39.7000			
PRODUCT THRESHOLD: 100 ppm		RESIDUALS AND IMPURITIES CONSIDERED: Yes		MATERIAL TYPE: Metal	
RESIDUALS AND IMPURITIES NOTES: Any residuals and impurities are those common in galvanised steels					
OTHER MATERIAL NOTES:					

IRON, ELEMENTAL ID: 7439-89-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:22			
%: 97.7000 - 99.5000		GS: LT-P1	RC: Both	NANO: No	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
END	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor		
SUBSTANCE NOTES:					

ZINC, ELEMENTAL ID: 7440-66-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:24			
%: 1.2500 - 3.2500		GS: LT-P1	RC: UNK	NANO: No	SUBSTANCE ROLE: Coating

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
AQU	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life
AQU	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters
PHY	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHY	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously
SUBSTANCE NOTES: Corrosion protective coating		

CARBON

ID: 7440-44-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:27		
%: 0.0000 - 0.1700	GS: LT-UNK	RC: Both	NANO: No	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES:				

MANGANESE

ID: 7439-96-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:27		
%: 0.0000 - 1.1000	GS: LT-P1	RC: Both	NANO: No	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
END	TEDX - Potential Endocrine Disruptors		Potential Endocrine Disruptor	
MUL	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters	
REP	GHS - Japan		Toxic to reproduction - Category 1B [H360]	
SUBSTANCE NOTES: Present in base steel				

SILICON, ELEMENTAL

ID: 7440-21-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:28		
%: 0.0000 - 0.0040	GS: LT-UNK	RC: Both	NANO: No	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: Present in base steel				

TITANIUM			ID: 7440-32-6		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2021-06-11 4:36:28		
%: 0.0000 - 0.3000		GS: LT-UNK	RC: Both	NANO: No	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
None found			No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Present in base steel					

PHOSPHORUS			ID: 7723-14-0		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2021-06-11 4:36:29		
%: 0.0000 - 0.1100		GS: BM-2	RC: UNK	NANO: No	SUBSTANCE ROLE: Alloy element
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
MAM	US EPA - EPCRA Extremely Hazardous Substances		Extremely Hazardous Substances		
PHY	EU - GHS (H-Statements)		H228 - Flammable solid		
SUBSTANCE NOTES:					

POLYURETHANE ADHESIVE		%: 0.6000 - 0.7000	
PRODUCT THRESHOLD: 100 ppm	RESIDUALS AND IMPURITIES CONSIDERED: Yes		MATERIAL TYPE: Polymeric Material
RESIDUALS AND IMPURITIES NOTES: Residuals and impurities likely to be present in generic materials of this type have been considered			
OTHER MATERIAL NOTES:			

UNDISCLOSED			ID: Undisclosed		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2021-06-11 4:36:23		
%: 69.0000 - 75.0000		GS: LT-UNK	RC: UNK	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
None found			No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES: Typical polyurethane formed by reaction of di-isocyanates and polyols: exact PU present in this adhesive is not known					

UNDISCLOSED			ID: Undisclosed		
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library			HAZARD SCREENING DATE: 2021-06-11 4:36:25		
%: 0.0000 - 22.5000		GS: BM-1	RC: UNK	NANO: No	SUBSTANCE ROLE: Viscosity modifier
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS		
CAN	GHS - Australia		H350i - May cause cancer by inhalation		
CAN	GHS - Japan		Carcinogenicity - Category 1A [H350]		

SUBSTANCE NOTES: Silica may also serve as a filler

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:25		
%: 0.0000 - 22.5000	GS: LT-UNK	RC: UNK	NANO: No	SUBSTANCE ROLE: Viscosity modifier
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: Limestone, in powder form, may also serve as a filler				

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:26	
%: Impurity/Residual	GS: LT-P1	RC: None	NANO: No SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published	
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage	
SUBSTANCE NOTES: Possible residual from polyurethane formation			

UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:26	
%: Impurity/Residual		GS: LT-UNK	RC: UNK NANO: No SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
CAN	EU - GHS (H-Statements)	H351 - Suspected of causing cancer	
MUL	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published	
RES	AOEC - Asthmagens	Asthmagen (G) - generally accepted	
CAN	MAK	Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels	
SKI	EU - GHS (H-Statements)	H315 - Causes skin irritation	
EYE	EU - GHS (H-Statements)	H319 - Causes serious eye irritation	
RES	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization	
RES	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled	
SKI	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction	
RES	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage	
SUBSTANCE NOTES: Possible residual monomer from PU formation			

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2021-06-11 4:36:26		
%: Impurity/Residual	GS: NoGS	RC: None	NANO: No	SUBSTANCE ROLE: Impurity/Residual
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None found			No warnings found on HPD Priority Hazard Lists	
SUBSTANCE NOTES: Possible residual of generic pre-polymer material				

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS	CDPH Standard Method V1.1 (Section 01350/CHPS) - Classroom & Office scenario		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Kingspan Access Floors, Marfleet, Hull, UK CERTIFICATE URL:	ISSUE DATE: 2015-01-27	EXPIRY DATE:	CERTIFIER OR LAB: Eurofins Product Testing A/S
CERTIFICATION AND COMPLIANCE NOTES: Meets VOC emissions specifications in LEED EQ credit "Low-emitting products"; the requirements of CDPH-IAQ (California Department of Public Health); and a TVOC below 0.5 mg/m ³ in both office and classroom.			

LCA	Environmental Product Declaration by EuGeos		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Kingspan Access Floors, Marfleet, Hull, UK CERTIFICATE URL: https://www.environdec.com/library/epd2801	ISSUE DATE: 2021-03-29	EXPIRY DATE: 2026-03-28	CERTIFIER OR LAB: Ugo Pretato
CERTIFICATION AND COMPLIANCE NOTES: The EPD applies to the TLM26 panel			

SUSTAINABLE FORESTRY	FSC Certification - Chain of Custody (COC)		
CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: Kingspan Access Floors, Marfleet, Hull, UK CERTIFICATE URL:	ISSUE DATE: 2017-09-27	EXPIRY DATE: 2022-09-26	CERTIFIER OR LAB: SGS
CERTIFICATION AND COMPLIANCE NOTES:			

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

Kingspan Access Flooring Limited manufacturers raised flooring systems. When screening Kingspan's products consider the following options: 1. flooring panel 2. pedestal 3. stringer, if used.

MANUFACTURER INFORMATION

MANUFACTURER: Kingspan Access Floors Ltd
ADDRESS: Burma Drive
Marfleet Hull HU9 5SG, UK
WEBSITE: www.kingspanaccessfloors.co.uk

CONTACT NAME: Technical Sales
TITLE: Technical Sales
PHONE: +44 (0) 1482 781701
EMAIL: info@kingspanaccessfloors.co.uk

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	
BM-1 Benchmark 1 (avoid - chemical of high concern)	
BM-U Benchmark Unspecified (due to insufficient data)	
LT-P1 List Translator Possible 1 (Possible Benchmark-1)	NoGS No GreenScreen.

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.