

CLASSIFICATION: 035113

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Tectum I structural acoustical roof deck provides superior durability and sound absorption (up to NRC 0.80) for large low-slope exposed structure spaces.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

Characterized Yes No
Percent Weight and Role Provided?

Screened Yes No
Using Priority Hazard Lists with Results Disclosed?

Identified Yes No
Name and Identifier Provided?

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

ARMSTRONG COMMERCIAL TECTUM I ROOF DECK [AMERICAN ASPEN (AMERICAN ASPEN) NoGS MAGNESIUM OXIDE (MAGNESIUM OXIDE) LT-UNK | CAN SODIUM SILICATE (SODIUM SILICATE) LT-P1 | END MAGNESIUM SULFATE, ANHYDROUS (MAGNESIUM SULFATE, ANHYDROUS) LT-UNK CALCIUM CARBONATE (CALCIUM CARBONATE) BM-3 UREA (UREA) LT-UNK QUARTZ (QUARTZ) LT-1 | CAN TITANIUM DIOXIDE (TITANIUM DIOXIDE) LT-1 | CAN | END SILICA, CHRISTOBALITE (SILICA, CHRISTOBALITE) LT-1 | CAN TALC (TALC) BM-1 | CAN]

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:

Residuals/impurities in select raw materials are quantitatively measured, and are displayed in the HPD when greater than 1000ppm.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

Material content migration: ILFI Declare - Red List Free - Third Party Verified
LCA: Environmental Product Declaration (EPD) by UL - Industry Generic

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2017-10-09

PUBLISHED DATE: 2017-11-09

EXPIRY DATE: 2020-10-09

Section 2: Content in Descending Order of Quantity

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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

ARMSTRONG COMMERCIAL TECTUM I ROOF DECK

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals/impurities in select raw materials are quantitatively measured, and are displayed in the HPD when greater than 1000ppm.

OTHER PRODUCT NOTES: None

AMERICAN ASPEN (AMERICAN ASPEN)

ID: Not registered

#: 85.0000 - 95.0000 GS: NoGS RC: None NANO: No ROLE: Wood fiber base

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Wood fiber from American Aspen trees.

MAGNESIUM OXIDE (MAGNESIUM OXIDE)

ID: 1309-48-4

#: 20.0000 - 25.0000 GS: LT-UNK RC: None NANO: No ROLE: Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

MAK

Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

SUBSTANCE NOTES: None

SODIUM SILICATE (SODIUM SILICATE)

ID: 1344-09-8

#: 15.0000 - 20.0000 GS: LT-P1 RC: None NANO: No ROLE: Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

SUBSTANCE NOTES: Sodium Silicate is bound within the substrate. It is not in a form that is noted as a hazard above.

MAGNESIUM SULFATE, ANHYDROUS (MAGNESIUM SULFATE, ANHYDROUS)

ID: 7487-88-9

%: **5.0000 - 9.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Board**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: None

CALCIUM CARBONATE (CALCIUM CARBONATE)

ID: 471-34-1

%: **4.0000 - 8.0000** GS: **BM-3** RC: **None** NANO: **No** ROLE: **Board and Coating**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: None

UREA (UREA)

ID: 57-13-6

%: **0.5000 - 5.0000** GS: **LT-UNK** RC: **None** NANO: **No** ROLE: **Board**

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: None

QUARTZ (QUARTZ)

ID: 14808-60-7

%: **0.1000 - 1.0000** GS: **LT-1** RC: **None** NANO: **No** ROLE: **Coating**

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Australia - GHS	H350 - May cause cancer

SUBSTANCE NOTES: Quartz is bound within the coating. It is not in respirable form in the final installed product.

TITANIUM DIOXIDE (TITANIUM DIOXIDE)

ID: 13463-67-7

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
%: 0.1000 - 0.5000	GS: LT-1	RC: None NANO: No ROLE: Pigment
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
SUBSTANCE NOTES: Pigment only in painted white roof deck.		

SILICA, CHRISTOBALITE (SILICA, CHRISTOBALITE)

ID: 14464-46-1

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
%: 0.1000 - 0.2000	GS: LT-1	RC: None NANO: No ROLE: Coating
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CANCER	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CANCER	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CANCER	New Zealand - GHS	6.7A - Known or presumed human carcinogens
CANCER	Japan - GHS	Carcinogenicity - Category 1A
CANCER	Australia - GHS	H350 - May cause cancer
SUBSTANCE NOTES: Silica is bound within the coating and not inhalable, it is excluded from regulatory hazard lists. It is not in a respirable form in the final product.		

TALC (TALC)

ID: 14807-96-6

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
%: 0.0100 - 1.0000	GS: BM-1	RC: None NANO: No ROLE: Coating
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

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.

MATERIAL CONTENT MIGRATION

ILFI Declare - Red List Free - Third Party Verified

CERTIFYING PARTY: Second Party	ISSUE DATE: 2017-04-01	EXPIRY DATE: 2018-04-01	CERTIFIER OR LAB: ILFI
APPLICABLE FACILITIES: all			
CERTIFICATE URL: https://armstronbuildingsolutions.com/tectum			
CERTIFICATION AND COMPLIANCE NOTES: Red List Free			

LCA

Environmental Product Declaration (EPD) by UL - Industry Generic

CERTIFYING PARTY: Third Party	ISSUE DATE: 2017-11-30	EXPIRY DATE: 2020-11-30	CERTIFIER OR LAB: UL Environment
APPLICABLE FACILITIES: all			
CERTIFICATE URL: https://.armstrongbuildingproducts.com/tectum			
CERTIFICATION AND COMPLIANCE NOTES: Product Specific			

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

This HPD is provided for the intended recipient in connection with its assessment of products. In providing information, AWI expresses no opinion to its applicability, suitability, or completeness of the declaration form or the standards and criteria utilized or referenced therein. Information provided herein is qualified in the entirety by reference to the product Safety Data Sheet (SDS) which can be located at www.armstronbuildingsolutions.com/tectum. Visit www.armstronbuildingsolutions.com/tectum for more information on this product.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **Armstrong World Industries**
ADDRESS: **2500 Columbia Avenue**
Lancaster PA 17603, USA
WEBSITE: **www.armstronbuildingsolutions.com/tectum**

CONTACT NAME: **Armstrong Technical Services**
TITLE: **Techline**
PHONE: **1-877-276-7876**
EMAIL: **techline@armstronbuildingsolutions.com**

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms

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.