

CLASSIFICATION: 09 53 23

PRODUCT DESCRIPTION: THE TATE GRID STRUCTURAL CEILING GRID SYSTEM FOR DATA CENTERS IS USED WHERE POWER MODULES, LIGHT FIXTURES, CABLE TRAYS, PARTITIONS, AND OTHER HEAVY ITEMS NEED TO BE SUSPENDED WITHIN A BUILDING. THE SYSTEM ALLOWS YOU TO PRE-DESIGN AND SPECIFY THE SUPPORT SOLUTION IN ADVANCE AND IS LESS EXPENSIVE AND FASTER TO INSTALL THAN CUSTOM-BUILT, ON-SITE STRUCTURAL SUPPORT SYSTEMS SUCH AS UNISTRUT. THE GRID IS AVAILABLE WITH 1/4"-20, 3/8"-16 OR M10-1.5 CONTINUOUSLY THREADED SLOTS ON THE BOTTOM SIDE OF THE STRUCTURAL EXTRUSIONS FOR MOUNTING ITEMS DIRECTLY TO THE GRID. GRID OPTIONS INCLUDE A HIDDEN THREADED SLOT WHICH CAN BE EXPOSED BY DRILLING THROUGH THE BOTTOM WALL COVER AS WELL AS LIGHT INFILL EXTRUSIONS WITH SMOOTH UNDERSIDES FOR USE WHERE EQUIPMENT MOUNTING IS NOT REQUIRED. THE SYSTEM IS HELD TOGETHER WITH HIGH STRENGTH CAST ALUMINUM CONNECTORS WHICH HAVE RIBBED UNDERSIDES THAT FIT INTO THE TOP SIDE TRACK OF THE EXTRUSIONS TO PREVENT GRID RACKING. THE STRUCTURAL EXTRUSIONS ARE CONSTRUCTED OF 6005-T5 ALUMINUM AND ARE AVAILABLE WITH CLEAR ANODIZED, WHITE, OR BLACK PAINTED FINISHES. VARIABLE GRID SPACING POSSIBILITIES ACCOMMODATE 24"X 24" AND 24"X 48" MODULE SIZES OR 24"X 24" AND 24"X 48" (NOMINAL) CEILING TILE SIZES. GRID CONNECTORS ON THE TOP SIDE OF THE GRID ALLOW STARTER RODS TO EASILY CONNECT TO TURNBUCKLE AND HANGER ROD ASSEMBLIES EXTENDING FROM THE BUILDING CEILING. THE SYSTEM CAN BE INSTALLED WITH A FLOATING PERIMETER OR FIXED PERIMETER (WHEN SPECIAL PERIMETER EXTRUSIONS ARE UTILIZED). THIS HPD COVERS ALL COMPONENTS IN THE STRUCTURAL CEILING GRID SYSTEM.

Section 1: Summary

CONTENT INVENTORY

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

- Residuals and impurities considered in 1 of 1 materials
- see Section 2: Material Notes
 - see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	Yes	No

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

TATE GRID [ALUMINUM **LT-P1** | RES | END | PHY IRON **LT-UNK** STEEL **UNK** ZINC OXIDE **BM-1** | AQU | RES | MUL MAGNESIUM OXIDE **LT-UNK** SILICON **LT-UNK** MANGANESE **LT-P1** | END COPPER **LT-UNK** FERRIC OXIDE **BM-2** | CAN OXIRANE, (CHLOROMETHYL)-, HOMOPOLYMER **LT-UNK** CHROMIUM **LT-UNK** | RES NICKEL **LT-1** | MAM | CAN | SKI | AQU | RES | MUL CARBON **LT-UNK** TITANIUM DIOXIDE **LT-1** | CAN CARBON BLACK **LT-1** | CAN]

Number of Greenscreen BM-4/BM3 contents..... 0
Contents highest concern GreenScreen Benchmark or List translator Score..... BM-1
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

This HPD was created with Basic Inventory.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: February 6, 2017	EXPIRY DATE*: February 6, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: February 10, 2017	* or within 3 months of significant change in product contents
*See HPDC website for details			



Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

TATE GRID

#: 100.0000 - 100.0000 HPD URL:

Inventory Threshold: 1000 ppm Residuals Considered: Yes

Material Notes:

ALUMINUM

ID: 7429-90-5

#: 76.7000 - 85.3000

GS: LT-P1

RC: Both

NANO: NO

ROLE: Runner and Connector

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H228 - Flammable solid

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H250 - Catches fire spontaneously if exposed to air

PHYSICAL HAZARD (REACTIVE)

EU - GHS (H-Statements)

H261 - In contact with water releases flammable gases

SUBSTANCE NOTES: Aluminum is purchased from the open market and contains various amounts of PI and PC recycled content based on market values. The aluminum in this product exists as an alloy and is therefore not in the elemental form at use.

IRON

ID: 7439-89-6

#: 8.6000 - 10.2000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Connector

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

STEEL

ID: 12597-69-2

#: 4.5000

GS: UNK

RC: UNK

NANO: NO

ROLE: Hardware

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: The stainless steel bolts and washers are commodity items, and therefore the recycled content information is not known.

ZINC OXIDE

ID: 1314-13-2

%: 0.0000 - 2.2000

GS: BM-1

RC: Both

NANO: NO

ROLE: Runner and Connector

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

ACUTE AQUATIC

EU - R-phrases

R50 - Very Toxic to Aquatic Organisms

RESPIRATORY

AOEC - Asthmagens

Asthmagen (ARs) - sensitizer-induced - inhalable forms only

ACUTE AQUATIC

EU - GHS (H-Statements)

H400 - Very toxic to aquatic life

CHRON AQUATIC

EU - GHS (H-Statements)

H410 - Very toxic to aquatic life with long lasting effects

MULTIPLE

German FEA - Substances Hazardous to Waters

Class 2 - Hazard to Waters

SUBSTANCE NOTES: This chemical is found in the aluminum alloy in the product. Aluminum alloy is purchased from the open market and contains various amounts of PI and PC recycled content based on market values. The zinc oxide in this product exists as an alloy and is therefore not in the elemental form at use.

MAGNESIUM OXIDE

ID: 1309-48-4

%: 0.0000 - 1.8000

GS: LT-UNK

RC: Both

NANO: NO

ROLE: Runner and Connector

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This chemical is found in the aluminum alloy in the product. Aluminum alloy is purchased from the open market and contains various amounts of PI and PC recycled content based on market values. The magnesium oxide in this product exists as an alloy and is therefore not in the elemental form at use.

SILICON

ID: 7440-21-3

%: 0.0000 - 1.5000

GS: LT-UNK

RC: Both

NANO: NO

ROLE: Runner and Connector

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This chemical is found in the aluminum alloy in the product. Aluminum alloy is purchased from the open market and contains various amounts of PI and PC recycled content based on market values. The silicon in this product exists as an alloy and is therefore not in the elemental form at use.

MANGANESE

ID: 7439-96-5

%: 0.0000 - 1.4000 GS: LT-P1 RC: Both NANO: NO ROLE: Runner and Connector

HAZARDS:

AGENCY(IES) WITH WARNINGS:

ENDOCRINE TEDX - Potential Endocrine Disruptors Potential Endocrine Disruptor

SUBSTANCE NOTES: This chemical is found in the aluminum alloy in the product. Aluminum alloy is purchased from the open market and contains various amounts of PI and PC recycled content based on market values. The manganese in this product exists as an alloy and is therefore not in the elemental form at use.

COPPER

ID: 7440-50-8

%: 0.0000 - 1.1000 GS: LT-UNK RC: Both NANO: NO ROLE: Runner and Connector

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES: This chemical is found in the aluminum alloy in the product. Aluminum alloy is purchased from the open market and contains various amounts of PI and PC recycled content based on market values. The copper in this product exists as an alloy and is therefore not in the elemental form at use.

FERRIC OXIDE

ID: 1309-37-1

%: 0.0000 - 0.9000 GS: BM-2 RC: Both NANO: NO ROLE: Runner and Connector

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER MAK Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: This chemical is found in the aluminum alloy in the product. Aluminum alloy is purchased from the open market and contains various amounts of PI and PC recycled content based on market values. The ferric oxide in this product exists as an alloy and is therefore not in the elemental form at use.

OXIRANE, (CHLOROMETHYL)-, HOMOPOLYMER

ID: 24969-06-0

%: 0.0000 - 0.5000 GS: LT-UNK RC: None NANO: NO ROLE: Connector

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CHROMIUM

ID: 7440-47-3

%: 0.0000 - 0.4000	GS: LT-UNK	RC: Both	NANO: NO	ROLE: Runner and Connector
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
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SUBSTANCE NOTES: This chemical is found in the aluminum alloy in the product. Aluminum alloy is purchased from the open market and contains various amounts of PI and PC recycled content based on market values. The chromium in this product exists as an alloy and is therefore not in the elemental form at use.

NICKEL

ID: 7440-02-0

%: 0.0000 - 0.3000	GS: LT-1	RC: Both	NANO: NO	ROLE: Runner and Connector
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

MAMMALIAN	EU - R-phrases	R23 - Toxic by Inhalation (gas, vapour, dust/mist)
CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
SKIN SENSITIZE	EU - R-phrases	R43 - May cause sensitization by skin contact
ORGAN TOXICANT	EU - R-phrases	R48: Danger of serious damage to health by prolonged exposure.
ACUTE AQUATIC	EU - R-phrases	R52 - Harmful to Aquatic Organisms
CANCER	IARC	Group 1 - Agent is Carcinogenic to humans
CANCER	IARC	Group 2b - Possibly carcinogenic to humans
CANCER	CA EPA - Prop 65	Carcinogen
CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
ORGAN TOXICANT	EU - GHS (H-Statements)	H372 - Causes damage to organs through prolonged or repeated exposure
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

CANCER	MAK	Carcinogen Group 1 - Substances that cause cancer in man
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction

SUBSTANCE NOTES: This chemical is found in the aluminum alloy in the product. Aluminum alloy is purchased from the open market and contains various amounts of PI and PC recycled content based on market values. The nickel in this product exists as an alloy and is therefore not in the elemental form at use.

CARBON

ID: 7440-44-0

%: 0.0000 - 0.3000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Connector
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HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: This is combined with the iron in the casting process, so is not in an inhalable form.

TITANIUM DIOXIDE

ID: 13463-67-7

%: 0.0000 - 0.1000	GS: LT-1	RC: None	NANO: NO	ROLE: Coating
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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 2B - Possibly carcinogenic to humans - inhaled from occupational sources
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

SUBSTANCE NOTES: This amount varies depending on the chosen finish.

CARBON BLACK

ID: 1333-86-4

%: 0.0000 - 0.1000	GS: LT-1	RC: None	NANO: NO	ROLE: Coating
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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 2B - Possibly carcinogenic to humans - inhaled from occupational sources

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES: This amount varies depending on the chosen finish.



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.



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.



Section 5: General Notes



MANUFACTURER INFORMATION

MANUFACTURER: Tate Inc.

CONTACT NAME: Butch Parsons

ADDRESS: 7510 Montevideo Road
Jessup, MD 20794
United States

TITLE: Sr. Sales Support Engineer

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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) BM-2 Benchmark 2 (use but search for safer substitutes)

LT-1 List Translator Likely Benchmark 1

BM-1 Benchmark 1 (avoid - chemical of high concern)

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

BM-U Benchmark Unspecified (insufficient data to benchmark)

UNK Unknown (no data on List Translator Lists)

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

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer's self-declaration (First Party)

Independent Lab Manufacturer's self-declaration using results from an independent lab

Second Party Verification by trade association or other interested party

Third Party Verification by independent certifier

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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

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

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.