Mosa C2C Ceramic Wall Tiles by mosa

SCREENING DATE: 2025-10-09
PUBLISHED DATE: 2025-10-09
EXPIRY DATE: 2028-10-09
PREPARER: Self-Prepared

Health Product Declaration v3.0
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 932231108608
HPD UNIQUE PRODUCT ID: Not provided.
CLASSIFICATION: 09 30 13 Ceramic Tiling
PRODUCT DESCRIPTION: Dry-pressed and glazed white body ceramic tiles, produced with a double-firing process. Colourfast, scratch resistant, and suitable for indoor applications. Sizes ranging from 6"x 6" to 12"x 24", in carefully composed colors, textures and matt or glossy finishes. Manufactured by Royal Mosa, Maastricht, The Netherlands, since 1883.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format
→ Basic Method

Threshold Disclosed Per
→ Product

Threshold Level
→ 100 ppm

Residuals/Impurities Evaluation
→ Completed

Explanation(s) provided :
Yes

For all contents above the threshold, the manufacturer has:

Characterized Yes
Provided weight and role.

Screened Yes
Provided screening results using HPDC-approved methods.

Identified Yes
Provided name and CAS RN or other identifier.

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.

PRODUCT | **MATERIAL OR SUBSTANCE** | *RESIDUAL OR IMPURITY* GREENSCREEN SCORE | HAZARD TYPE

MOSA C2C CERAMIC WALL TILES [QUARTZ BM-1 | CAN | MAM | GEN **FELDSPAR** LT-UNK | MAM **CALCIUM CARBONATE** BM-3 | EYE **KAOLIN CLAY** LT-UNK | CAN **FRITS, CHEMICALS (UNLEADED)** LT-P1 | MUL **SILICA, CHRISTOBALITE** LT-1 | CAN | MAM | GEN **C.I. PIGMENT YELLOW 159** LT-UNK **C.I. PIGMENT BLACK 30** LT-1 | CAN **C.I. PIGMENT BLUE 71 (PRIMARY CASRN IS 68186-95-8)** LT-UNK **C.I. PIGMENT RED 232** LT-UNK]

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

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... BM-1, LT-P1, LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration applies to all Cradle to Cradle certified Mosa wall tile collections: Mosa 15thirty Greys, Mosa 15thirty Accent, Mosa Classics Foxtrot, Mosa Classics Trocadero, Mosa Colors, Mosa Global Collection, Mosa Globalgrip, Mosa Matt Collection, Mosa Murals Blend/Change/Lines/Fuse. Mosa Classic Tide.

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 V1.2 (Section 01350/CHPS) - Classroom & Office scenario
Management: ISO 14001:2015 - Environmental management systems
Management: ISO 9001:2015 Quality management systems
Multi-attribute: Cradle to Cradle Certified - Gold (V3.1)

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.
Pre-checked for LEED v4.1 Option 1.

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 3.0, available on the HPDC website at: www.hpd-collaborative.org/hpd-3-0-standard

MOSA C2C CERAMIC WALL TILES

PRODUCT THRESHOLD: 100 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: All ingredients have been assessed and verified within the Cradle to Cradle concept. Mosa wall tiles are awarded with a Gold score for Material Health.

OTHER PRODUCT NOTES: Mosa wall tiles contain 33% pre-consumer recycled content.

QUARTZ ID: 14808-60-7

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-10-09 0:40:32**

%: **62.0000 - 62.0000** GreenScreen: **BM-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]
CAN	GHS - New Zealand	Carcinogenicity category 1
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: sand consists of quartz, influencing the plasticity of the tile

FELDSPAR

ID: **68476-25-5**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-10-09 0:40:32**

%: **10.0000 - 10.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: feldspar is a type of mineral that acts as a flux in the tile

CALCIUM CARBONATE

ID: **471-34-1**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-10-09 0:40:33**

%: **10.0000 - 10.0000** GreenScreen: **BM-3** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
EYE	GHS - New Zealand	Eye irritation category 2

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Chalk is a material that influences the reactivity during firing.

KAOLIN CLAY

ID: **1332-58-7**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-10-09 0:40:33**

%: **7.0000 - 7.0000** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Kaolin is a very white mineral clay that helps to determine dimensional stability and breaking strength

FRITS, CHEMICALS (UNLEADED)

ID: **65997-18-4**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-10-09 0:40:34**

%: **7.0000 - 7.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MUL	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Electronics (RoHS)

SUBSTANCE NOTES: This material acts as the melted composition part of the tile glaze.

SILICA, CHRISTOBALITE

ID: **14464-46-1**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-10-09 0:40:34**

%: **4.0000 - 4.0000** GreenScreen: **LT-1** RC: **PreC** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route
CAN	US NIH - Report on Carcinogens	Known to be Human Carcinogen (respirable size - occupational setting)
CAN	MAK	Carcinogen Group 1 - Substances that cause cancer in man
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen
CAN	GHS - Japan	H350 - May cause cancer [Carcinogenicity - Category 1A]
CAN	GHS - Australia	H350i - May cause cancer by inhalation [Carcinogenicity - Category 1A or 1B]
CAN	GHS - New Zealand	Carcinogenicity category 1
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
GEN	GHS - Japan	H341 - Suspected of causing genetic defects [Germ cell mutagenicity - Category 2]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Material that influences tile plasticity

C.I. PIGMENT YELLOW 159 ID: **68187-15-5**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-10-09 0:40:34**

%: **0.0700 - 0.0700** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Material that determines the color of the tile, giving the tile its final "look & feel".

C.I. PIGMENT BLACK 30

ID: **71631-15-7**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-10-09 0:40:34**

%: **0.0700 - 0.0700** GreenScreen: **LT-1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
CAN	IARC	Group 1 - Agent is Carcinogenic to humans
CAN	CA EPA - Prop 65	Carcinogen
CAN	US NIH - Report on Carcinogens	Known to be a human Carcinogen

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Footwear, Apparel & Jewelry Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2025 Children's Toy Products

SUBSTANCE NOTES: Material that determines the color of the tile, giving the tile its final "look & feel".

C.I. PIGMENT BLUE 71 (PRIMARY CASRN IS 68186-95-8)

ID: **75367-22-5**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-10-09 0:40:35**

%: **0.0700 - 0.0700** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Material that determines the color of the tile, giving the tile its final "look & feel".

C.I. PIGMENT RED 232 ID: **68412-79-3**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-10-09 0:40:35**

%: **0.0700 - 0.0700** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Pigment**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Material that determines the color of the tile, giving the tile its final "look & feel".

Section 3: 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 V1.2 (Section 01350/CHPS) - Classroom & Office scenario**

COMPLIANCE TYPE: Self-declaration
CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: TCNA
COMPLIANCE DETAILS:
COMPLIANCE SCOPE:
APPLICABLE FACILITIES: Royal Mosa, Maastricht, The Netherlands
COMPLIANCE URL:
https://www.mosa.com/application/files/8916/2496/3613/Mosa_LEED_V4_overview_credit_points.pdf
COMPLIANCE NOTES: Ceramic wall and floor tiles qualify for LEED V4 credit IEQ 4.3 without any requirements because they are considered 'inherently nonemitting sources'. Text from LEED credit: "Products that are inherently nonemitting sources of VOCs (stone, ceramic, powder-coated metals, plated or anodized metal, glass, concrete, clay brick, and unfinished or untreated solidwood flooring) are considered fully compliant without any VOC emissions testing if they do not include integral organic-based surface coatings, binders, or sealants". More information on the contribution of our tiles to a LEED building label can be found on the Mosa website: www.mosa.com > Mosa > Sustainability

ISSUE DATE: 2025-10-09 **EXPIRY DATE:** 2025-12-31

MANAGEMENT — **ISO 14001:2015 - Environmental management systems**

COMPLIANCE TYPE: Third-party certification
CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: SKG-IKOB
COMPLIANCE DETAILS:
COMPLIANCE SCOPE: Company-wide
APPLICABLE FACILITIES: Royal Mosa, Maastricht, The Netherlands
COMPLIANCE URL:
https://www.mosa.com/application/files/3616/7990/9890/Mosa-ISO-14001-certificate.pdf
COMPLIANCE NOTES:

ISSUE DATE: 2023-01-13 **EXPIRY DATE:** 2026-01-13

MANAGEMENT — **ISO 9001:2015 Quality management systems**

COMPLIANCE TYPE: Third-party certification
CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: SKG-IKOB
COMPLIANCE DETAILS:
COMPLIANCE SCOPE: Company-wide
APPLICABLE FACILITIES: Royal Mosa, Maastricht, The Netherlands
COMPLIANCE URL:
https://www.mosa.com/application/files/7416/7602/6906/Mosa-ISO-9001-certificate.pdf
COMPLIANCE NOTES:

ISSUE DATE: 2023-01-13 **EXPIRY DATE:** 2026-01-13

MULTI-ATTRIBUTE — **Cradle to Cradle Certified - Gold (V3.1)**

COMPLIANCE TYPE: Third-party certification
ISSUE DATE: 2024-06-06
EXPIRY DATE: 2025-12-30
CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: EPEA GmbH - Part of Drees & Sommer
COMPLIANCE DETAILS:
COMPLIANCE SCOPE:
APPLICABLE FACILITIES: All wall tiles, manufactured in the Mosa Wall Tile Factory in Maastricht, this means all matte glazed wall tiles and most glossy glazed wall tiles. Mosa 15thirty Greys, Mosa 15thirty Accent, Mosa Classics Foxtrot, Mosa Classics Trocadero, Mosa Classics Tide, Mosa Colors, Mosa Global Collection, Mosa Holland Plus, Mosa Holland 2040, Mosa Holland 2050, Mosa Ledo, Mosa Matt Collection, Mosa Murals Blend, Mosa Murals Change, Mosa Murals Lines, Mosa Murals Fuse, Mosa Residential, Mosa Vesta, Mosa Villa. The following products or variations are excluded from the certification: Mosa Classics Kho Liang Ie Collection, Mosa Colors 10 x 10 centimeters and the following glossy wall tile models 15 x 15 centimeters: 16950,16970,16980,17940,17970,17980, 20970, and 20980.
COMPLIANCE URL:
https://www.mosa.com/application/files/8617/1800/1014/Cradle-to-Cradle-Certified-Gold-Mosa-wall-tiles.pdf
COMPLIANCE NOTES:

MULTI-ATTRIBUTE
ILFI Declare - Red List Free

COMPLIANCE TYPE: Other
ISSUE DATE: 2019-12-01
EXPIRY DATE: 2025-12-01
CERTIFIER/VERIFIER/TESTING LAB/AUDITOR: None
COMPLIANCE DETAILS:
COMPLIANCE SCOPE:
APPLICABLE FACILITIES: Royal Mosa, Maastricht, The Netherlands
COMPLIANCE URL:
https://www.mosa.com/application/files/8417/3400/3940/declare_wall.jpg
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

Mosa Cradle to Cradle ceramic wall tiles contain 33% pre-consumer recycled content.

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **mosa**
ADDRESS: **Royal Mosa**
Meerssenerweg 358
Maastricht, Limburg 6201BA
COUNTRY: **Netherlands**

WEBSITE: **www.mosa.com**
CONTACT NAME: **Eric de Lange**
TITLE: **Director of Sustainability & Compliance**
PHONE: **+31 (0)6 11 88 20 42**
EMAIL: **eric.de.lange@mosa.com**

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

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)
BM-3 Benchmark 3 (use but still opportunity for improvement)
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)
LT-1 List Translator 1 (Likely Benchmark-1)
LT-UNK List Translator Benchmark Unknown
NoGS No GreenScreen.

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

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.