# Wilsonart Acrylic Solid Surface by Wilsonart

**Health Product Declaration v2.2** 

created via: HPDC Online Builder

**HPD UNIQUE IDENTIFIER: 22489** 

CLASSIFICATION: 06 61 16 Solid Surfacing Fabrications

PRODUCT DESCRIPTION: Wilsonart Solid Surface is a solid, nonporous, homogeneous material, composed of acrylic resin and natural minerals. In its finished form Wilsonart Solid Surface is an article, nontoxic and non-allergic to humans, and third party certified to have low emissions. Product classification include: 06 61 16 Solid Surface Fabrications, 10 21 13 Toilet Compartments, 12 36 61 Solid Surface Countertops, & 6 61 00.00 Wood, Plastics, and Composites (framing).

# Section 1: Summary

### **Basic Method / Product Threshold**

#### **CONTENT INVENTORY**

**Inventory Reporting Format** C Nested Materials Method

Basic Method

**Threshold Disclosed Per** 

 Material Product Threshold level

C 100 ppm

⊙ 1,000 ppm O Per GHS SDS

Other

Residuals/Impurities

Considered

C Partially Considered

Not Considered

Explanation(s) provided for Residuals/Impurities?

Yes ○ No

All Substances Above the Threshold Indicated Are:

Characterized

○ Yes Ex/SC ⊙ Yes ○ No

% weight and role provided for all substances.

Screened

C Yes Ex/SC ⊙ Yes C No

All substances screened using Priority Hazard Lists with

results disclosed.

Identified

○ Yes Ex/SC ○ Yes ⊙ No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special

Condition did not follow guidance.

#### **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** 

WILSONART ACRYLIC SOLID SURFACE [ UNDISCLOSED LT-UNK UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | PBT METHYL METHACRYLATE LT-P1 | RES | PHY | SKI | END POLYMETHYL METHACRYLATE LT-P1 | RES UNDISCLOSED LT-UNK UNDISCLOSED

LT-P1 | MUL UNDISCLOSED LT-P1 UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | PBT | MUL ALUMINUM HYDROXIDE BM-2

**ALUMINA TRIHYDRATE BM-2 UNDISCLOSED LT-UNK | SKI** UNDISCLOSED LT-UNK UNDISCLOSED LT-P1 | RES | END | SKI | EYE |

CAN UNDISCLOSED LT-1 | CAN | END UNDISCLOSED BM-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 covers multiple suppliers of Solid Surface.

#### **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: UL/GreenGuard Gold Certified

Material content migration: ANSI/NSF 51 Food equipment materials

### **CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

Yes No

PREPARER: Self-Prepared

VERIFIER: **VERIFICATION #:**  SCREENING DATE: 2020-08-05 PUBLISHED DATE: 2020-10-14 EXPIRY DATE: 2023-08-05

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

#### WILSONART ACRYLIC SOLID SURFACE

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: The following inputs are included in this ingredient: alumina trihydrate (CAS# 21645-51-2), methyl methacrylate (CAS#80-62-6), and polymethyl methacrylate (CAS# 1333-86-4). Wilsonart Acrylic Solid Surface materials are comprised of reacted monomers and resins, mineral fillers and colorants, and are manufactured in the form of sheets. Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL GreenGuard Gold certification as a low-emitting interior building product.

OTHER PRODUCT NOTES: Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL GreenGuard Gold certification as a low-emitting interior building product.

#### UNDISCLOSED

None found

SUBSTANCE NOTES: This substance is used as a pigment.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

### UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-08-05

%: 0.0000 - 3.0000

GS: LT-UNK

RC: None

NANO: No

SUBSTANCE ROLE: Pigment

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is used as a pigment.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-08-05

%: 0.0000 - 2.0000 GS: LT-P1 RC: None NANO: No SUBSTANCE ROLE: Pigment

No warnings found on HPD Priority Hazard Lists

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
РВТ	ChemSec - SIN List	PBT / vPvB (Persistent, Bioaccumulative, & Toxic / very Persistent & very Bioaccumulative)

SUBSTANCE NOTES: This substance is used as a pigment.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

METHYL METHACRYLATE				ID: 80-62-6
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SC	REENING DATE: 202	0-08-05
%: 0.0000 - 40.0000	GS: <b>LT-P1</b>	RC: None	NANO: Unknown	SUBSTANCE ROLE: Binder
HAZARD TYPE	AGENCY AND LIST TITLES	W	ARNINGS	
RESPIRATORY	AOEC - Asthmagens	As	thmagen (Rs) - sensitiz	zer-induced
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H2	25 - Highly flammable	liquid and vapour
SKIN IRRITATION	EU - GHS (H-Statements)	НЗ	15 - Causes skin irritat	tion
SKIN SENSITIZE	EU - GHS (H-Statements)	НЗ	17 - May cause an alle	ergic skin reaction
ENDOCRINE	TEDX - Potential Endocrine Disruptors	s Po	tential Endocrine Disru	uptor

SUBSTANCE NOTES: Organic, monomer compound.

MAK

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

RESPIRATORY	AOEC - Asthmagens	Asthmagen (Rs) - sensitizer-induced	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS	
%: 0.0000 - 50.0000	GS: <b>LT-P1</b>	RC: None NANO: Unknown SUBSTANCE ROLE: Polymer	species
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2020-08-05	
POLYMETHYL METHACRYLATE		ID: 90	11-14-7

SUBSTANCE NOTES: Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

### UNDISCLOSED

SKIN SENSITIZE

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SC	REENING DATE	E: 2020-08-05
%: 0.0000 - 1.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS	
None found			No war	nings found on HPD Priority Hazard Lists

Sensitizing Substance Sh - Danger of skin sensitization

SUBSTANCE NOTES: This substance is used as a additive.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD	SCR	EENING DATE:	2020-08-05
%: 0.0000 - 0.5000	GS: LT-P1	RC: None	è	NANO: No	SUBSTANCE ROLE: Curing agent
HAZARD TYPE	AGENCY AND LIST TITLES		WAR	RNINGS	
MULTIPLE	German FEA - Substances Hazardous Waters	to	Class	s 2 - Hazard to \	Naters

SUBSTANCE NOTES: This substance is used as a curing agent.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

#### **UNDISCLOSED**

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCR	EENING DATE:	2020-08-05
%: 0.0000 - 0.3000	GS: <b>LT-P1</b>	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Catalyst
HAZARD TYPE	AGENCY AND LIST TITLES	WAF	RNINGS	
None found			No warnir	ngs found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is used as a catalyst.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

#### UNDISCLOSED

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2020-08-05		
%: 0.0000 - 0.3000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Curing agent
HAZARD TYPE	AGENCY AND LIST TITLES	WAI	RNINGS	
None found No warnings found on HPD Priority Hazard Lists				

SUBSTANCE NOTES: This substance is used as a curing agent.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

### UNDISCLOSED

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SC	REENING DATE:	2020-08-05
%: 0.0000 - 0.2500	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
PBT	EU - ESIS PBT	Under PBT evaluation
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: This substance is used as a additive.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

ALUMINUM HYDROXIDE				ID: 8064-00-	4
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCR	EENING DATE:	2020-08-05	
%: 0.0000 - 60.0000	GS: <b>BM-2</b>	RC: None	NANO: No	SUBSTANCE ROLE: Filler	
HAZARD TYPE	AGENCY AND LIST TITLES	WAF	RNINGS		
None found			No warnir	ngs found on HPD Priority Hazard Lists	

SUBSTANCE NOTES: Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

ALUMINA TRIHYDRATE ID: 21645-51-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-08-05

%: 0.0000 - 70.0000 GS: BM-2 RC: None NANO: No SUBSTANCE ROLE: Filler

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Also used as a flame retardant and smoke suppressant material.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

### UNDISCLOSED

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SC	REENING DATE:	2020-08-05
%: 0.0000 - 1.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Polymer species
HAZARD TYPE	AGENCY AND LIST TITLES	WA	RNINGS	
SKIN SENSITIZE	EU - GHS (H-Statements)	H3 <sup>-</sup>	17 - May cause a	an allergic skin reaction
SKIN SENSITIZE	MAK	Ser	nsitizing Substar	nce Sh - Danger of skin sensitization

SUBSTANCE NOTES: This substance is used as a additive.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

#### UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-08-05

%: 0.0000 - 18.0000 GS: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Filler

HAZARD TYPE AGENCY AND LIST TITLES WARNINGS

SUBSTANCE NOTES: This substance is used as a decorative component.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

#### UNDISCLOSED

None found

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARI	SCRE	ENING DATE: 2	2020-08-05
%: 0.0000 - 12.0000	GS: LT-P1	RC: Nor	ie	NANO: No	SUBSTANCE ROLE: Filler
HAZARD TYPE	AGENCY AND LIST TITLES		WARN	IINGS	
RESPIRATORY	AOEC - Asthmagens		Asthm	agen (Rs) - sen	sitizer-induced
ENDOCRINE	EU - Priority Endocrine Disruptors		•	ory 2 - In vitro e locrine Disruptio	vidence of biological activity related
SKIN IRRITATION	EU - GHS (H-Statements)		H315 -	- Causes skin im	ritation
SKIN SENSITIZE	EU - GHS (H-Statements)		H317 -	- May cause an	allergic skin reaction
EYE IRRITATION	EU - GHS (H-Statements)		H319 -	- Causes serious	s eye irritation
ENDOCRINE	TEDX - Potential Endocrine Disruptors	S	Potent	tial Endocrine D	isruptor
CANCER	MAK			•	- Evidence of carcinogenic effects stablish MAK/BAT value
SKIN SENSITIZE	MAK		Sensit	izing Substance	Sh - Danger of skin sensitization

SUBSTANCE NOTES: This substance is used as a decorative component.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

### UNDISCLOSED

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2020-08-05						
%: 0.0000 - 4.0000	GS: <b>LT-1</b>	RC: Nor	ie	NANO: No	SUBSTANCE ROLE: Pigment	
HAZARD TYPE	AGENCY AND LIST TITLES		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				
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			
CANCER	MAK			Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels		

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This substance is used as a pigment.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.

### **UNDISCLOSED**

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2020-08-05				
%: 0.0000 - 3.0000	GS: <b>BM-1</b>	RC: None		NANO: No	SUBSTANCE ROLE: Pigment	
HAZARD TYPE	AGENCY AND LIST TITLES		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 substance is used as a pigment.

Exposure to any of the inputs mentioned does not occur in the finished form of Wilsonart material. Wilsonart Solid Surface has earned UL Greenguard Gold Certification as a low-emitting building product.



### 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 UL/GreenGuard Gold Certified** 

ISSUE EXPIRY CERTIFIER **CERTIFYING PARTY: Third Party** DATE: DATE: APPLICABLE FACILITIES: Solid Surface Sheets OR LAB: UL **CERTIFICATE URL:** 2007-GreenGuard

https://www.wilsonart.com/media/Technical\_Resources/en/wa\_solid\_surface\_sheets\_greenguard\_gold\_certification.pdf 06-12

CERTIFICATION AND COMPLIANCE NOTES: 3845-420 Interior products only

#### **MATERIAL CONTENT MIGRATION** ANSI/NSF 51 Food equipment materials

CERTIFYING PARTY: Third Party ISSUE DATE: 2001-11- EXPIRY DATE: CERTIFIER OR LAB: NSF 21

APPLICABLE FACILITIES: Solid Surface

**CERTIFICATE URL:** 

**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

Wilsonart Solid Surface is a solid, nonporous, homogeneous material, composed of acrylic resin and natural minerals. In its finished form Wilsonart Solid Surface is an article, nontoxic and non-allergic to humans, and third party certified to have low emissions. Product classification include: 06 61 16 Solid Surface Fabrications, 10 21 13 Toilet Compartments, 12 36 61 Solid Surface Countertops, & 6 61 00.00 Wood, Plastics, and Composites (framing).



#### MANUFACTURER INFORMATION

MANUFACTURER: Wilsonart ADDRESS: 2501 Wilsonart Drive

P.O. Box 6110

Temple TX 76503-6110, USA

WEBSITE: https://www.wilsonart.com

CONTACT NAME: Richard Conde **TITLE: Wilsonart Technical Services** 

PHONE: 800-433-3222

EMAIL: smartline@wilsonart.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 (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.) 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.