

Ekoa[®] surfaces

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General Information

Ekoa[®] is a pre-finished, durable surfacing veneer made of natural fibers (flax), plant based resin (up to 99%), and a backing material. A few different backings are available including: paper backed (cellulose), Peel N' Stick backed and Ekoa[®] is suitable depending on the application. It is designed for interior applications.

Sustainability Certification

Intertek Clean Air Gold, Mindful Materials, see Health product declaration for more below

Technical Data

Roll	~21" x ~295' (0.52m x 90m) maximum length - custom lengths available
4'	~21" x 4'2"
8'	~21" x 8'4"
10'	~21" x 10'4"
12'	~21" x 12'4"
Thickness	~.02" (0.6mm)
Composition	Natural Fiber, bio-based resin, cellulosic backing and/or PSA adhesive
Backing	Various colors and materials including Peel N' Stick
Weight	0.12 lb/ft ² (615 gsm)
Limited Warranty	5 years

LEED v4

Many finishing products have the potential to contribute points to LEED v4. However, the credits can only be gained when calculating the combined performance of all the products used on a particular LEED project; therefore no single product can guarantee you will obtain LEED v4 credits. Ekoa[®] may contribute to the following LEED credits (points): Low-emitting materials.

Storage, Conditions, & Acclimation

Ekoa[®] should be left on the roll until ready for installation. Store rolls standing on end, never laying down. Keep in a cool, dry place and out of direct sunlight. Allow a minimum of 24h to acclimate in a climate controlled environment, set up as per installation instructions.

Ekoa® Peel N' Stick Installation

Tools Needed:

- 6" plastic squeegee (or wider)
- Cutting mat or cutting surface
- Single edge Razor blade
- Box cutter
- Straight edge
- Tape measure

1. Select horizontal or vertical surface to mount Ekoa®
2. Determine grain orientation and decide which orientation you want the Ekoa® surface
3. Measure area (twice!)
4. Determine number of Ekoa strips needed
5. Clean surface of any dirt, dust or flaking paint
6. Start mounting
7. Use a level if helpful
8. Begin top down if applying with grain vertical
9. Peel off first two inches of PSA backing and bond the Ekoa to the wall
10. Gently peel back backing and squeegee down from the middle working outward to ensure there will be no bubbling
11. Work your way down until you reach the last few inches of the Ekoa strip
12. Determine final cut length
13. Mark trim line with a pencil
14. Cut to final length
15. Marker edges with stain pen as needed
16. Start second strip with a corner adjacent to the previously mounted strip by rolling back an inch of PSA
17. Align the second strip with the first strip by using the edge of the latter as a guide
18. Repeat steps B-G
19. For final strip, allow to overhang edge if applicable and trim back excess

Ekoo® with flexible Cellulose backing installation instructions

<p>Tools Needed:</p> <ul style="list-style-type: none"> - Moisture Meter - 6" plastic scraper (or wider) - Metal seam roller - Paint roller + extension - Laser level - Single edge Razor blade - Box cutter - Straight edge - Bucket 	<p>Consumables:</p> <ul style="list-style-type: none"> - ½" nap roller - Clay wallcovering primer - Clay wallcovering adhesive - 120-150 grit sandpaper - 80-100 grit sandpaper if necessary - Clean rag - Microfiber cloth - Sponge
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This product is designed to be installed by professional installers with sufficient professional liability insurance coverage (Errors and Omissions Insurance) for the project.

Selecting Installers:

It is recommended to use an installer with experience in installing real wood wallcovering. If one is not available, it is recommended that the chosen installer produce a mock-up, completing the entire procedure with a small sample.

Controlling Locations:

IMPORTANT: Do not unroll wallcovering until ready to apply adhesive and immediately install.

Installation areas should be environmentally controlled by a permanent functioning HVAC system, ideally maintaining a temperature range of 65°F-75°F, with relative humidity no more than 50% and not less than what is specified for your area in the AWI Quality Standards Section 1700-T-19, for a minimum of 4 days prior to removing the wallcovering from its packaging, maintained throughout installation, and for a minimum of 4 days following all installation steps.

Natural wallcovering materials are very susceptible to absorbing moisture from the atmosphere until they have been installed and sealed properly. Extended exposure to an uncontrolled environment at any time prior can result in dimensional change and warping.

1. Evaluate drywall

Use a moisture meter to test the moisture content of the drywall, ensuring that it does not exceed 10%. It is very important that the temperature and humidity of the room remain constant until the product is adhered and cured properly. All drywall to which Ekoo® wallcovering is to be applied is to be a Level 4 or Level 5 finish, free of dirt, dust, and defect, including voids and raises. A non-smooth surface will result in telegraphed

imperfections and/or poor lamination. Beginning of installation indicates acceptance of the drywall and jobsite conditions by the installer.

2. Apply primer to drywall

Do not thin primer. Apply a clay-strippable wallcovering primer with a ½" nap roller. Allow a minimum of 12 hours dry time. Always follow specifications provided by the primer supplier.

3. Sand drywall

120-150 grit sandpaper, use 80-100 grit for a first pass if the surface is very rough. Level 4 drywall is sufficient. Wipe down drywall and back of wallcovering to minimize dust.

4. Apply adhesive to drywall

Do not thin adhesive. Apply a high-strength clay-strippable adhesive with a ½" nap roller. Heavy coat. Allow 40-45 minutes dry time prior to applying wallcovering. Always follow specifications provided by the adhesive supplier, and be sure to use an adhesive compatible with your primer.

5. Apply adhesive to back of wallcovering

Apply the same adhesive from step 3 with a ½" nap roller. Allow 5-10 minutes to dry prior to applying to drywall.

6. Apply wallcovering to drywall

Leave at least two inches of extra material on top and bottom. Material comes in 10'4" length. Use a 6" or wider scraper, working from top to bottom. Scrape out air bubbles. Reposition wallcovering as you move downwards as necessary to maintain butting with the next piece and/or alignment with laser level.

7. Finish top and bottom edges

Slide scraper edge into crease at top and bottom of wall, folding material at the corner. Use a straight edge and box cutter or razor blade to trim material at the fold to fit.

8. Check adhesion and finish

Check for air bubbles underneath wallcovering. Pay close attention to adhesion of edges. Roll edges with metal seam roller as necessary. Wipe down any adhesive on wallcovering or squeeze-out. Use a damp sponge to clean.

9. Repeat steps 5-8 for each successive piece of wallcovering

Check for color inconsistency across the width of each piece of wallcovering. There will usually be a darker and lighter side on every piece. Bookmatch dark to dark, light to light. Butting is recommended over double cutting.

10. Finish Check and Cleaning

Clean installed product with a damp sponge. Dry with a microfiber cloth. Firmly press out any persistent bubbles with the metal seam roller. Denatured alcohol or bleach can be used in place of water if necessary. Do not use acetone to clean the wallcovering.

11. Check Final Finish

Bubbles may develop over a 24hr period. Monitor finish and press as necessary. A heat gun can be used to soften wallcovering before going over with a seam roller if required. Use heating techniques at your own risk.

Questions?

If you have any questions regarding your application or installation please contact us.

Email: orders@lingrove.com

Phone: +1-415-671-8191

Other Preparation & Installation Instructions

Ekoa® surfaces can be used in a variety of vertical and horizontal surfacing applications, as well as 3D molding processes.

Adhesives:

Ekoa® surfaces will work with most pressure sensitive and hot melt adhesives. Processing temperatures above 160F are not recommended. Lightly sanding the backing with a 40 or 60 grit sandpaper may improve adhesion, although Ekoa® is designed to be installed without sanding. Always be sure to test your specific substrate and adhesive combination with Ekoa® before installation. If you have any questions or concerns regarding specific adhesives, please contact us.

Substrates:

MDF, OSB, Particleboard, hardboard, aluminum, plexiglass, glass.

Cutting & Trimming:

Ekoa® can be cut to size using scissors or a razor blade. Crosscutting will generally be more difficult than cutting along the length of the fibers, or “grain”. Longer cuts requiring a particularly straight edge can be done with a standard hand router and straight edge. Edge finishing with 100 grit sandpaper is recommended after cutting.

Edge Sealing: Ekoa® will not require edge sealing for most applications. In particularly humid or wet environments, especially where the material may regularly come in contact with liquids, the edges should be sealed with a polyurethane pen before installation.

Surface Repair:

Small repairs can be made with a polyurethane pen. Contact us to discuss options if significant damage occurs to your Ekoa® surface.

Sanding:

Sanding the topside of Ekoa® surface is not recommended.

Maintenance Instructions

Routine cleaning will help improve the lifespan of your Ekoa® surfaces. Dusting with a soft brush or microfiber cloth should be done as necessary. More significant cleaning can be done with a damp sponge or microfiber cloth. Denatured alcohol or bleach can be used in particularly demanding applications. Do not use acetone for cleaning Ekoa® surfaces.

Remove chewing gum with a gum removing spotter. If a solvent is used for removing gum, immediately rinse the surface with clean water and allow to dry.

Limited Warranty

The Customer shall understand that the materials will perform satisfactorily when installed in strict compliance with the manufacturer recommendations. If the Customer is unsure of these recommendations or did not receive installation instructions, the Customer can find them at <https://lingrove.com/ekoa-biobased-veneer>

This product consists of a natural composite surface laminated to a backer. Subject to the conditions and limitations herein, the Manufacturer shall warrant the bond of the composite surface to its backer from delamination for a period of no less than five (5) years, provided that installation instructions were followed. No other claims will be considered due to conditions including, but not limited to, variances in atmospheric conditions, skill level of the Installer, tool defect, chemical altering, surface conditions of substrate or improper use.

It is the sole responsibility of the Customer to inspect materials prior to use. The Manufacturer shall not be responsible for hidden or latent defects not discoverable upon initial inspection of

goods. The Manufacturer, as its sole discretion, may require unused material to be returned for inspection and quality control testing.

The Manufacturer is not responsible or liable for any claims, damages and the like in any way related to or arising in connection with the occurrence or presence of any mold or other organisms that may grow in the covered or any other areas of the building. Customer will indemnify, defend and hold harmless the Manufacturer for any potential or realized property damage or health or safety issues because of airborne pollutants or any other type of hazardous materials or organisms found in the covered or any other areas of the building.

This Limited Warranty is the sole and exclusive warranty given by the Manufacturer. The Manufacturer makes no other or additional warranty, whether expressed or implied, including, without limit, the implied warranties of merchantability and fitness for a particular purpose, all of which are hereby expressly disclaimed. The Customer's sole remedy and the Manufacturer's sole liability shall be limited to product replacement. The Manufacturer will not be liable for direct, consequential or incidental damages, including without limitation lost profits, lost labor, punitive damages, loss of use damages, loss of value damages, damage to other property, etc., even if the Manufacturer is aware of the possibility of these damages occurring. All claims made under this Limited Warranty must be in writing to the Manufacturer within 90 days of the first knowledge of any defect, and within the warranty period or such claims are waived.

Related Documents

Intertek Clean Air GOLD



Intertek does hereby certify that an independent assessment has been conducted on behalf of

LINGROVE

Certificate Number: 104147774GRR-001a
Certification valid until: 20 January 2021

Applicant Address: 2180 Folsom St.
San Francisco, CA 94110 USA

Product Category: Surfaces and Panels

Product Details: See Appendix

Conformance Criteria: California Department of Public Health (CDPH) Standard Method v1.2: Private Office and School Classroom; ANSI/BIFMA e3-2019e, Sections 7.6.1, 7.6.2, 7.6.3.

Issuing Office Name & Address: Intertek Testing Services NA, Inc.
4700 Broadmoor Ave SE, Suite 200
Kentwood, MI 49512 USA
Ph: +1-616-656-7401



Brian Kneibel
Certification Manager
20 January 2020

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Certificate are relevant only to the sample tested/inspected. This Certificate by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Intertek Testing Services NA, Inc. SFT-CLEAN AIR-OP-19e (14 September-2018)

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CERTIFIED
CLEAN AIR GOLD

Certificate Appendix

LINGROVE

Certificate Number: 104147774GRR-001a

Product Category	Surfaces and Panels
Model Name(s)	Ekoo® Veneers
Product Restrictions	Includes paper-back & cotton-back versions only.
TVOC Range*	0.5 mg/m ³ or less

*TVOC range stated is based on the most stringent modeling scenario as listed in the Conformance Criteria on page 1.

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Certificate are relevant only to the sample tested/inspected. This Certificate by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Intertek Testing Services NA, Inc. SFT-CLEAN AIR-OP-19e (14 September-2018)

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PDF version available [here](#)

Health Product Declaration

Ekoa Paper-Backed Veneer - Biodegradeable Veneer by Lingrove Inc.	Health Product Declaration v2.1.2 created via: toxnot.com
CLASSIFICATION: 09 72 00 FINISHES: WALL COVERINGS PRODUCT DESCRIPTION: BIO-BASED WALLCOVERING	

Section 1: Summary	Nested Method/Material Threshold
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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

Residuals and impurities considered in 1 of 3 materials

Explanation(s) provided for Residuals/Impurities?

- Yes No

All Substances Above the Threshold Indicated Are:

Characterized Yes Ex/SC Yes No

% weight and role not provided for all substances and/or one or more SC did not follow guidance

Screened Yes Ex/SC Yes No

One or more not screened using Priority Hazard Lists with results disclosed and/or one or more SC did not follow guidance

Identified Yes Ex/SC Yes No

One or more not disclosed by Name (Specific or Generic) and identifier and/or one or more SC did not follow guidance

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SC = Special Condition (See Notes)

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** GREENSCREEN SCORE HAZARD TYPE;

FLAX FIBERS | PLA RESIN | PROPANOIC ACID 2-HYDROXY-HOMOPOLYMER NOGS : PAPER |

Number of GreenScreen® BM-4/BM-3 contents: 0

Contents highest concern GreenScreen® Benchmark or List Translator Score: NOGS

Nanomaterial: No contents are characterized as a nanomaterial

INVENTORY AND SCREENING NOTES

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings

Intertek Clean Air GOLD Certificate;
Compliance with ANSI/ BIFMA e3 standard credits 7.6.1, 7.6.2 and/or credit 7.6.3, which includes California Department of Public Health (CDPH) Standard Method v1.2 01350 (2017)

CONSISTENCY WITH OTHER PROGRAMS

No pre-checks completed or disclosed.

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 12/17/2019

PUBLISHED DATE: Not published on the HPDC repository

EXPIRY DATE: Not published on the HPDC repository

Section 2: Content in Descending Order of Quantity	Nested Method/Material Threshold
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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
- Basic 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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

FLAX FIBERS	%: 10-60	HPD URL:
MATERIAL THRESHOLD:	RESIDUALS AND IMPURITIES CONSIDERED: Not Considered	
RESIDUAL/IMPURITIES NOTES:		
OTHER MATERIAL NOTES:		

PLA RESIN	%: 30-70	HPD URL:
MATERIAL THRESHOLD:	RESIDUALS AND IMPURITIES CONSIDERED: Considered	
RESIDUAL/IMPURITIES NOTES:	ASTM D6668 99% Biobased	
OTHER MATERIAL NOTES:		

PROPANOIC ACID 2-HYDROXY- HOMOPOLYMER				ID: 26100-51-6
%: 100	GS: NoGS	RC: None	NANO: UNK	ROLE:
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
None Found	No warnings found on HPD Priority Lists			
SUBSTANCE NOTES:				

PAPER	%: 30-70	HPD URL:
MATERIAL THRESHOLD:	RESIDUALS AND IMPURITIES CONSIDERED: Not Considered	

Ekoo Paper-Backed Veneer - Biodegradeable Veneer

HPD 2.1.1 created via Toxnot

OTHER MATERIAL NOTES:

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

Clean Air GOLD

CERTIFYING PARTY: Third Party

ISSUE DATE: 12/30/19

EXPIRY DATE:

CERTIFIER OR LAB: INTERTEK

APPLICABLE FACILITIES: PO SC R

CERTIFICATE URL: <https://www.intertek.com/certification/indoor-air-quality/>

CERTIFICATE AND COMPLIANCE NOTES:

Clean Air GOLD Certification states conformance to ANSI/ BIFMA e3 standard credits 7.6.1, 7.6.2 and/or credit 7.6.3, which includes California Department of Public Health (CDPH) Standard Method v1.2 01350 (2017), as well as conformance to low-emitting materials for WELL and LEED.

FORMALDEHYDE EMISSIONS

Clean Air GOLD

CERTIFYING PARTY: Third Party

ISSUE DATE: 12/30/19

EXPIRY DATE:

CERTIFIER OR LAB: INTERTEK

APPLICABLE FACILITIES: PO SC R

CERTIFICATE URL: <https://www.intertek.com/certification/indoor-air-quality/>

CERTIFICATE AND COMPLIANCE NOTES:

Clean Air GOLD Certification states conformance to ANSI/ BIFMA e3 standard credits 7.6.1, 7.6.2 and/or credit 7.6.3, which includes California Department of Public Health (CDPH) Standard Method v1.2 01350 (2017), as well as conformance to low-emitting materials for WELL and LEED.

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

Ekoa Paper-Backed Veneer - Biodegradeable Veneer

HPD 2.1.1 created via Toxnot

Material is compostable in industrial facilities.

This HPD is provided solely for the intended recipient in connection with its assessment of products and for no other purpose. In providing information Lingrove Inc. expresses no opinion and makes no representations as to the applicability suitability accuracy or completeness of the declaration form or the standards rules classifications warnings or criteria utilized or referenced therein. Information provided herein is qualified in the entirety by reference to the applicable product Safety Data Sheet (SDS) which can be provided upon request as well as by the additional ingredient information provided for specified substances.

Section 6: References

MANUFACTURER INFORMATION

<p style="margin: 0;">MANUFACTURER: Lingrove Inc. ADDRESS: 2180 Folsom Street San Francisco California 94110 USA</p> <p style="margin: 0;">WEBSITE: www.lingrove.com</p>	<p style="margin: 0;">CONTACT NAME: TITLE: PHONE: 4156718191 EMAIL: orders@lingrove.com</p>
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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)	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 nanoscale 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 v2.1.1 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.