

EmiratesGBC Technical Workshops

by Grey Matters

Health Product Declarations (HPDs)

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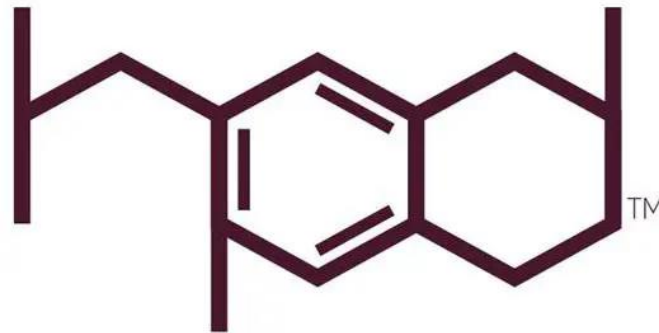
May 10, 2024

Agenda

- Introduction to Health Product Declarations
- HPD standards and procedures
- Who creates an HPD? And Who verifies an HPD?
- Required information by the manufacturer
- What are the limitations of HPDs?
- How does HPD differ from EPD?
- The rising importance of HPDs
- HPDs and LEED Points

Introduction to Health Product Declarations

- A Health Product Declaration (HPD) is a standard format for reporting product content and associated health information for building materials and products.
- HPDs are used to provide transparency about the health impacts of a product's ingredients over its lifecycle.



Health Product
DECLARATION

Who can get an HPD?

Any manufacturer or supplier can develop HPDs for their products, especially those involved in building and construction materials.

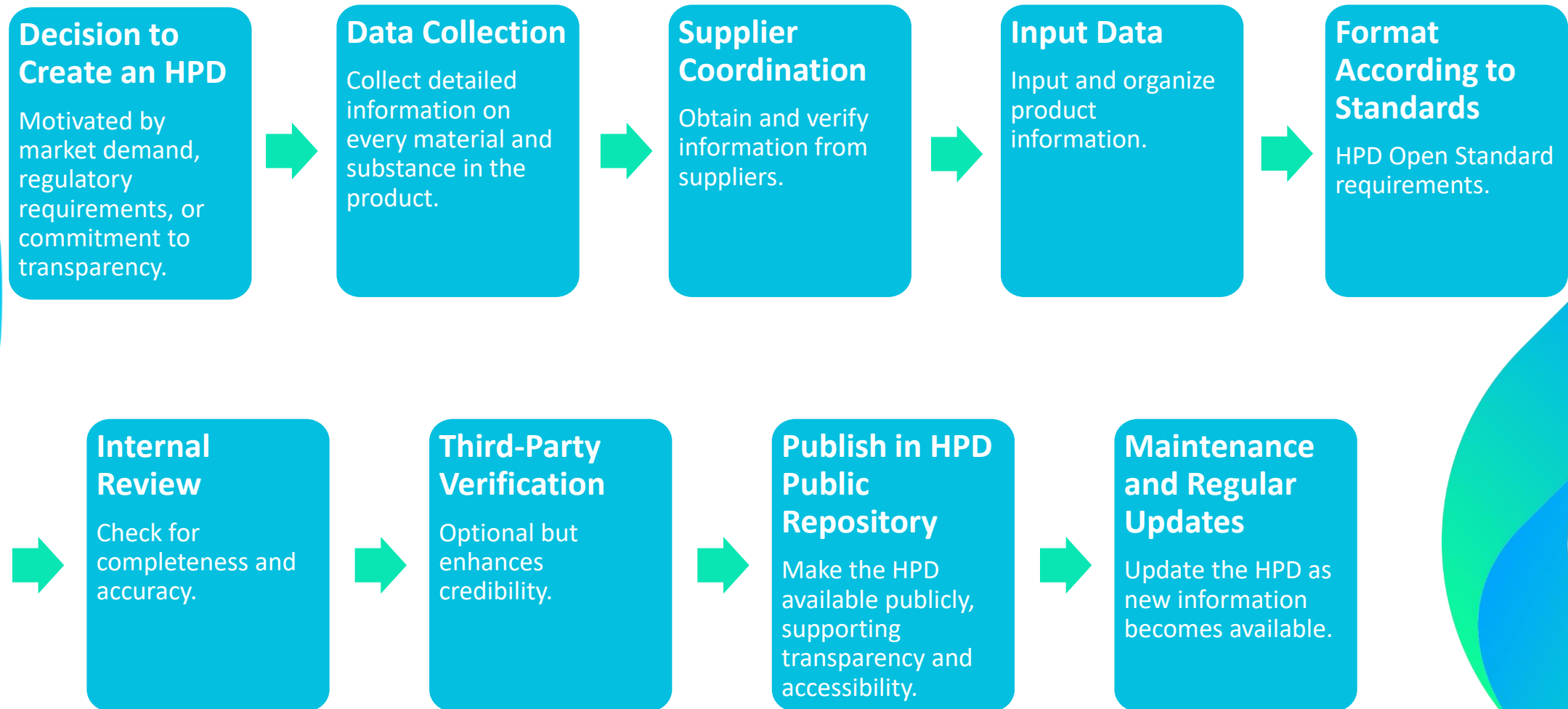


HPD standards and procedures

- Obtaining an HPD involves detailing the **chemical ingredients** of the product and their potential **health impacts**, verified through scientific assessment methods.
- HPDs must comply with the HPD Open Standard, which is managed by the HPD Collaborative (HPDC), ensuring consistency and credibility.



HPD standards and procedures



HPD standards and procedures

- HPDs can be either self-declared by the manufacturer or Third-Party Verified.
- Third-Party Verification is considered the gold-standard for both the manufacturer and the architect/designer.



Who creates an HPD?

HPDC Approved Preparer

- An Approved Preparer consults with the manufacturer during the preparation of an HPD providing additional resources and technical expertise to execute the HPD as accurately and efficiently as possible.



Who verifies an HPD?

HPDC Third-Party Verifier

- Party that checks the information in the HPD to ensure that it matches the supporting documentation.
- Only HPDC-approved third-party verifiers qualify and the name of the verifying organization is inserted.



Required information by the manufacturer

- Ingredients listed to 100 ppm / 0.01% or 1000 ppm / 0.001%
- All Safety Data Sheet (SDS) for the chemical materials.
- If the SDS does not list the chemical composition then we will need more information from the manufacturer.



What are the limitations of HPDs?

- ✘ *It is not* a certification or eco-label.
- ✘ *It is not* an assessment of product performance.
- ✘ *It is not* a life cycle assessment.
- ✘ *It does not* identify whether a product is “better” or “worse” than another.

HPD example

There are six sections of a Health Product Declaration:

- Section 1: Summary
- Section 2: Content in Descending Order of Quantity
- Section 3: Certifications and Compliance
- Section 4: Accessories
- Section 5: General Notes
- Section 6: References

HPD example

HPD UNIQUE IDENTIFIER: 25900
 CLASSIFICATION: 06 16 43 Gypsum Sheathing
 PRODUCT DESCRIPTION: Gold Bond® eXP® Sheathing consists of a moisture- and mold-resistant gypsum core encased in a coated, specially designed PURPLE fiberglass mat on the face, back and sides. It is available in either a Regular or Type X core. The glass mat is folded around the long edges to reinforce and protect the core, and it provides superior weather resistance. Use it for attachment to the outside of wall and soffit framing as a substrate for exterior cladding. For speed of installation, GridMarX® guide marks are printed on the glass mat surface. The color PURPLE is a registered trademark of Gold Bond Building Products, LLC. National Gypsum Company is the exclusive service provider for products manufactured by Gold Bond Building Products, LLC, PermaBASE Building Products, LLC and ProForm Finishing Products, LLC.

Section 1: Summary Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format <input checked="" type="radio"/> Nested Materials Method <input type="radio"/> Basic Method	Threshold level <input type="radio"/> 100 ppm <input checked="" type="radio"/> 1,000 ppm <input type="radio"/> Per GHS SDS <input type="radio"/> Other	Residuals/Impurities Residuals/Impurities Considered in 2 of 2 Materials Explanation(s) provided for Residuals/Impurities? <input checked="" type="radio"/> Yes <input type="radio"/> No	<i>All Substances Above the Threshold Indicated Are:</i> Characterized <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No % weight and role provided for all substances. Screened <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No <i>All substances screened using Priority Hazard Lists with results disclosed.</i> Identified <input type="radio"/> Yes Ex/SC <input checked="" type="radio"/> Yes <input type="radio"/> No <i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i>
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Threshold Level:
The box 1000 ppm or the more stringent 100 ppm must be selected.

Residuals/Impurities:
Must be filled in – it cannot be blank.
If Partially Considered or Not Considered is selected: it must be explained in the Notes in section 2 of why that is the case.

Third-Party Verified:
It will also indicate if this HPD was third-party verified. (There aren't many that are, but if it is, then it counts for 1.5 products under LEED v4.1)

Link to HPD:
At the bottom of page 1, there needs to be a link where the HPD is available. Either from the HPD repository or the manufacturers site.

Characterized AND Screened must both be Yes (or Yes Ex/SC depending on the HPD version).
Identified can be any of the options.

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
 EXP GYPSUM CORE [GYPSUM **LT-UNK** GLASS / MINERAL FIBER **LT-UNK** SILOXANES AND SILICONES, DI-ME, POLYMERS WITH 3-MERCAPTOPROPYL SILSESQUOXANES **LT-UNK** SODIUM POLYNAPHTHALENESULFONATE **LT-P1** | PBT POTASSIUM SULFATE **LT-UNK**] GLASS MAT FACERS [CALCIUM CARBONATE **BM-3** CONTINUOUS FILAMENT GLASS FIBER, NON-RESPIRABLE **LT-UNK** UNDISCLOSED **LT-UNK** UNDISCLOSED **NoGS** UNDISCLOSED **LT-UNK**]

Number of Greenscreen BM-4/BM3 contents ... 1
 Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1
 Nanomaterial ... No

INVENTORY AND SCREENING NOTES:
This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.2, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, along with the role and percent weight for each substance. Substances not "Identified" are those considered proprietary to suppliers, and thus are "Undisclosed" on this HPD.

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 Certified
 Other: ICC-ES Evaluation Report (ESR-2743)
 LCA: Industry-wide Type III EPD

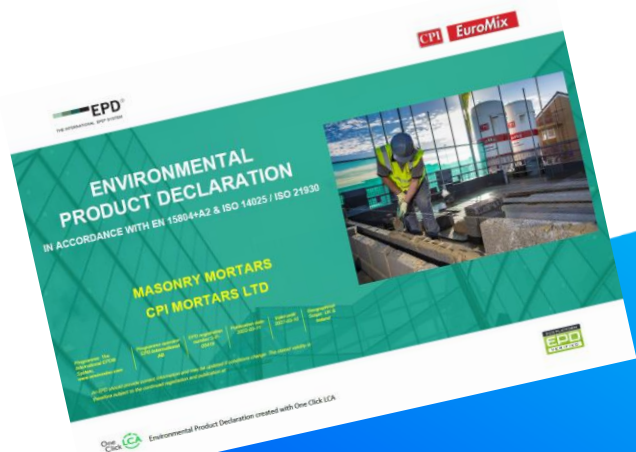
CONSISTENCY WITH OTHER PROGRAMS
Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified? <input type="radio"/> Yes <input checked="" type="radio"/> No	PREPARER: Elixir Environmental VERIFIER: VERIFICATION #:	SCREENING DATE: 2021-08-24 PUBLISHED DATE: 2021-08-24 EXPIRY DATE: 2024-08-24
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How does HPD differ from EPD?

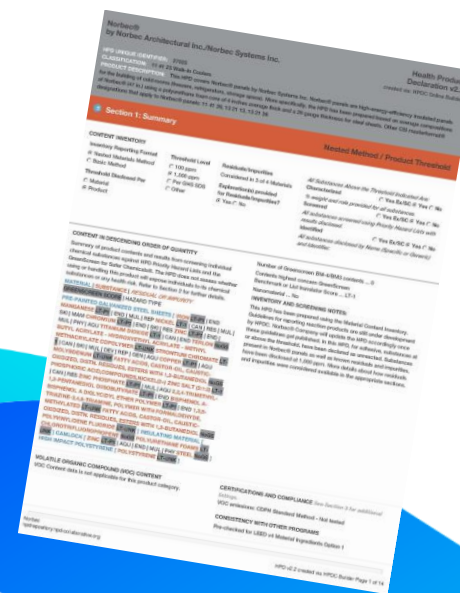
EPD

- An Environmental Product Declaration (EPD) quantifies environmental information on the life cycle of a product, providing the environmental impacts.
- EPD are more detailed on the manufacturing process level.



HPD

- HPD focuses on health impacts and transparency of material contents.
- HPDs are more detailed on the chemical level.



How does HPD differ from EPD?



The rising importance of HPDs

- Increasing demand for sustainable and healthy living spaces is amplifying the importance of HPDs.
- Government regulations and green certifications are increasingly mandating transparency in building materials, further boosting the need for HPDs.



HPDs and LEED Points

- HPDs can contribute in several ways to earning points under "LEED v4.1 MRc: Building Product Disclosure and Optimization: Material Ingredients"

Material Ingredient Reporting (1 point)

- Use at least **20 different permanently installed products** from at least five different manufacturers that use any of the following programs to demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm).
- *Health Product Declaration: The end-use product has a published and complete Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration Open Standard. Any compliant reports with third-party verification that includes the verification of content inventory are worth 1.5 products for credit achievement calculations.*

Conclusion

- HPDs play a crucial role in modern sustainable construction by enhancing material transparency and supporting health-focused building practices.
- As market and regulatory demands increase, the significance of HPDs will continue to grow, influencing global building standards.



Sources

- [HPD Collaborative](#)
- [Getgreenbadger.](#)
- [Archtoolbox](#)
- [The Synergist](#)

Thank you ! Q/A time

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