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.
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

Decision to Create an HPD
Motivated by market demand, regulatory requirements, or commitment to transparency.

Data Collection
Collect detailed information on every material and substance in the product.

Supplier Coordination
Obtain and verify information from suppliers.

Input Data
Input and organize product information.

Format According to Standards
HPD Open Standard requirements.

Internal Review
Check for completeness and accuracy.

Third-Party Verification
Optional but enhances credibility.

Publish in HPD Public Repository
Make the HPD available publicly, supporting transparency and accessibility.

Maintenance and Regular Updates
Update the HPD as new information becomes available.
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
Gold Bond® eXp® Fire-Shield® Sheathing
by Gold Bond Building Products, LLC provided by National Gypsum Company

Health Product Declaration v2.2
created via HPDC Online Builder

HPD UNIQUE IDENTIFIER: 39000
CLASSIFICATION: 18.14-40 Gypsum Sheathing
PRODUCT DESCRIPTION: Gold Bond eXp® Fire-Shield® Sheathing consists of a moisture- and mild-resistant gypsum core encased in a coated, specially designed PURPLE fiberglass mat on the face, back, and edge. It is available in either a Regular or Type I core. The glass mat is jointed around the long edges to reinforce and protect the core, and it provides superior weather resistance. See it for attachment to the substrate and sheet metal framing as a substrate for exterior coating. For spread of infection, GoldBond® eXp® 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, PermaSHIELD Building Products, LLC and ProForm/Finishing Products, LLC.

Section 1: Summary

<table>
<thead>
<tr>
<th>CONTENT INVENTORY</th>
<th>Threshold Level: The box 1000 ppm or the more stringent 100 ppm must be selected.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTENT IN DESCENDING ORDER OF QUANTITY</td>
<td>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.</td>
</tr>
<tr>
<td>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)</td>
<td></td>
</tr>
<tr>
<td>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 manufacturer...</td>
<td></td>
</tr>
</tbody>
</table>

Threshold level: 1000 ppm
Threshold level: 100 ppm
Residuals/Impurities Considered in 2 of 2 Materials Exceeding threshold for Residuals/Impurities

All Substances Above the Threshold Indicated are:
Characterized
Yes
No

All substances screened using Priority Hazard Lists with results detailed
Identified
Yes
No
One or more substances not disclosed by Name (specific or generic) and identity not at or one or more Special Condition did not follow guidance.

Inventories and Screening Notes:
This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.0, and discloses hazards associated with all substances present in an above 1000 parts per million (ppm) in the finished product, along with the risk and percent weight for each substance. Substances not identified are those considered proprietary to suppliers, and thus are “Undisclosed” on this HPD.

Number of Greenwashing Score (GWS-Score): 1
Contents highest concern: GwScreen Benchmark or List Translator Score: 1

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional details.
VOC emissions: UL/GreenGuard Certified
Other: ICC-ES Evaluation Report (ESR-2749)
LCIA: Industry-wide Type II (EPIS)
CONSISTENCY WITH OTHER PROGRAMS
Pre-checked for LEED v4.1 or Materials Ingredient Option 1
Pre-checked for LEED v4.3 or Materials Ingredient Option 2
Pre-checked for LEED v4.1 or Materials Ingredient Option 3
Pre-checked for LEED v4.3 or Materials Ingredient Option 4
Pre-checked for LEED v4.1 or Materials Ingredient Option 5
Pre-checked for LEED v4.3 or Materials Ingredient Option 6
Pre-checked for LEED v4.1 or Materials Ingredient Option 7
Pre-checked for LEED v4.3 or Materials Ingredient Option 8

Gold Bond eXp® Fire-Shield Sheathing
hpdpolicy.tfhcolombo.lk.org

HPD v2.2 created on HPD Builder Page 1 of 6

www.greymatters.ws
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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