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Environmental Product Declarations (EPDs): Strategic Value for Absorption Panel Manufacturers

What Is an EPD?

An **Environmental Product Declaration (EPD)** is an independently verified report that quantifies the **environmental impacts** of a product throughout its **life cycle** — from raw material extraction to manufacturing, use, and end-of-life.

EPDs follow **ISO 14025** and **EN 15804** standards, providing transparent, comparable data on energy use, carbon emissions, resource consumption, and recyclability.

For **acoustic absorption panels**, this includes materials such as mineral wool, recycled PET fibre, fabric, timber frames, or foam, along with production energy and transport impacts.

Why EPDs Matter in the Acoustic Panel Industry

- The building and interior design sectors increasingly demand **verified environmental data** to meet sustainability goals.
 - **Green building certifications** such as **LEED, BREEAM, WELL, and Green Star** award credits for products with EPDs.
 - Architects, specifiers, and developers favour **low-impact materials** backed by transparent data.
- An EPD therefore positions a manufacturer as a **trusted, future-ready supplier** for sustainable construction and fit-out projects.

Key Business Benefits

Focus Area	Benefit
Market Access & Growth	Qualifies products for green building projects and public tenders; strengthens relationships with architects and specifiers.
Brand Reputation	Demonstrates verified sustainability, enhancing trust and credibility while reducing greenwashing risks.
Operational Efficiency	Life Cycle Assessment identifies energy, waste, and emissions “hot spots,” enabling cost-saving improvements.
Product Innovation	Encourages use of recycled or bio-based materials and circular design strategies.
Regulatory Compliance	Prepares for emerging product carbon disclosure and embodied carbon requirements.
Contribution to Certifications	Adds measurable value to clients seeking LEED, BREEAM, or WELL certification points.

Challenges and Considerations

Developing an EPD requires **data collection, life-cycle analysis, and third-party verification**, but it is typically valid for **five years** and can be updated as processes improve. The initial investment is offset by long-term gains in efficiency, brand value, and market reach.

Conclusion

For an **absorption panel manufacturer**, an EPD is far more than a compliance document — it is a **strategic sustainability tool**.

It transforms environmental transparency into a **competitive advantage**, supports continuous improvement, and aligns the company with the construction industry’s shift toward **verified, low-carbon, and circular materials**.
