

LUMINOUS Translucent honeycomb panels, when used for interior partition applications, contribute significantly to a project's sustainability and can positively impact its LEED (Leadership in Energy and Environmental Design) certification.

LUMINOUS panels are lightweight and offer high strength-to-weight ratios, reducing the overall material required for construction and minimizing the environmental footprint. The inherent structure of honeycomb panels allows for excellent thermal insulation and natural light diffusion, which can significantly reduce energy consumption for heating, cooling, and lighting. This contributes to achieving LEED credits in categories such as Energy & Atmosphere and Indoor Environmental Quality. Furthermore, if these panels are manufactured from recycled materials or are recyclable themselves, they can further support a project's Material & Resources credits, enhancing the project's overall sustainability profile and LEED score

Indoor Environmental Quality 8.1, 8.2, 8.3: Daylight and Views

- Through the use of translucent and directionally transparent Panelite materials, daylighting of interior spaces can be substantially improved, reducing energy consumption for artificial lighting as well as increasing user comfort and productivity.

Materials & Resources Credit 4: Recycled Content

100% recycled paper core translucent panel

Materials and Resources 2.1, 2.2: Construction Materials Waste Management

- When reclaiming is not an option, **LUMINOUS** honeycomb panels can be dismantled into their facing and core components. The aluminum honeycomb core is recyclable and consists of 5% percent of the panel composition. PETG facings, consisting of 95% of the panel composition, can also be recycled. To date there is no program for recycling the acrylic facings or the non-aluminum honeycomb cores.

- **LUMINOUS** honeycomb panels require no adhesives or sealants for installation, and require no harsh cleaning solutions for maintenance. They are easily maintained with non-aggressive cleaners. A simple solution of mild soap and water is ideal. Phosphate-based cleaners are not recommended.

Innovation in Design Process: ID 1.1-1.4

- The LEED rating system allocates up to four additional points for innovative performance not specifically addressed by the rating system. Designers using **LUMINOUS** materials should consider submitting to this category due to the inherent material and structural efficiency of translucent honeycomb panels.

LUMINOUS applies honeycomb technology to produce structurally efficient composite panels that use 70-80% less raw material than a solid resin sheet, and that require less material for framing and installation.

- The use of self-structural **LUMINOUS** panels as wall and partition panels can minimize or eliminate the necessity for additional structural framing members, contributing to more efficient material and labor practices for construction, and reducing waste upon demolition.



Environmental Product Declaration

Luminous panels, renowned for their innovative design and aesthetic appeal, have taken a significant leap forward in sustainability by achieving Environmental Product Declaration (EPD) certification. This distinction underscores our commitment to environmental stewardship and transparency, providing architects and designers with comprehensive data on the panels' lifecycle impact. EPD certification ensures that Luminous panels meet rigorous environmental standards, from raw material acquisition through production to disposal, highlighting our dedication to not only enhancing spaces with light and beauty but also to promoting a healthier planet.



PRODUCT/INDUSTRY
EPD CERTIFICATE

Issued to:

**MANUFACTURER OF
TRANSLUCENT HONEYCOMB PANELS**

FOR THE FOLLOWING PRODUCT(S)

**MATERIALS INC.
LUMINOUS TRANSLUCENT HONEYCOMB PANELS
RINGS (Tubular) CORE**

This certificate is not valid without the relative Annex

IN COMPLIANCE WITH

GENERAL PROGRAM INSTRUCTIONS FOR THE INTERNATIONAL EPD® SYSTEM

CPC: 369

PCR: construction products n. 2019_14 ver1.11 dated 2021/02/05

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EXIPRY DATE

Flavio Ornago

B. U. Management Systems Director

Mod. 5159/1

THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE REQUIREMENTS OF THE RULES FOR EPD



DAP N° 010 H

Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

Nome prodotto/i presente/i in EPD	Unità funzionale/dichiarata	Riferimenti EPD convalidata
LUMINOUS RINGS CORE Lightweight Translucent Honeycomb Panel	1 m2 of RINGS CORE Panel with a useful life (RSL) of 20 years EPD_ RINGS CORE - Ultra-light c	EPD_ RINGS CORE - Ultra-light composite panel_MATERIALS INC. Srl (Rev. 1 of 05/13/2022)

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