



The product(s) meet(s) all of the necessary qualifications to be certified for the following claim(s):

Indoor Advantage™ Gold

Indoor Air Quality Certified to SCS-105 v4.2-2023

Conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 (effective January, 2017) for the school classroom¹ and private office² scenarios.

Registration # SCS-IAQ-07512

Valid from: January 19, 2026 to January 18, 2027



Transparency Report™ + Material Health Overview™

Knauf Insulation
Black Acoustical Board

EPD	LCA
3rd party reviewed	✓
Transparency Report (EPD)	
3rd party verified	✓

Validity: 12/12/23 – 12/12/28

In accordance with ISO 14044 and the reference PCR, this life cycle assessment was conducted by Sustainable Minds and verified by Harmony Environmental, LLC.

Public LCA:
Knauf Insulation North America and
Manson Insulation Products

This environmental product declaration (EPD) was externally verified by Harmony Environmental, LLC, according to ISO 21930:2017; UL Part A; UL Part B for Building Envelope Thermal Insulation Products; and ISO 14025:2006.

SUMMARY

Reference PCR

UL Part B: Building Envelope Thermal Insulation v2.0

Regions; system boundaries
North America; Cradle-to-grave

Functional unit / ESL:

1 m² installed insulation material, packaging included, with thickness that gives average thermal resistance of $R_{si} = 1\text{m}^2 \cdot \text{K/W}$ over an estimated service life (ESL) of 75 years

LCIA methodology: TRACI 2.1

LCA software; LCI database

LCA for Experts v10.7; LCA for Experts 2023

Additional Transparency & Material Health Summary

In addition to the third-party verified Environmental Product Declaration (EPD), the product's disclosed ingredient inventory has been evaluated for material health and performance attributes through the Transparency Catalog.



Material Health & Chemical Screening

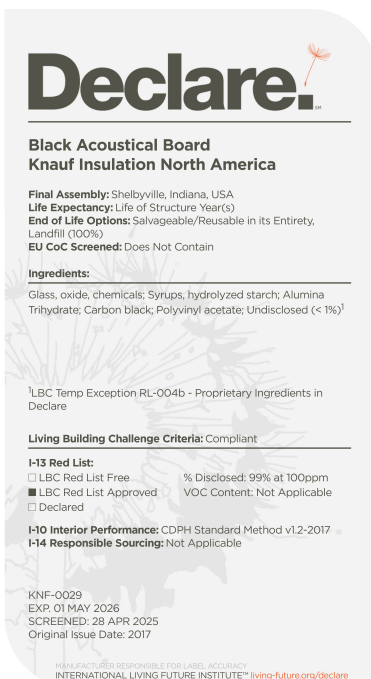
According to Transparency Catalog material health screening, the disclosed ingredient inventory contains no chemicals listed on the Living Building Challenge (LBC) Red List at or above 100 ppm. This screening is supported in part by the use of a formaldehyde-free, bio-based binder technology.

Material Composition & Sustainability Attributes

The product incorporates high recycled content, with greater than 60% recycled glass by weight. The use of a bio-based binder reduces reliance on phenol-formaldehyde chemistry and supports improved indoor material health.

Performance & Safety Testing

The product has been evaluated for fire performance, odor emissions, mold resistance, moisture response, and dimensional stability in accordance with applicable ASTM and UL standards, supporting suitability for occupied interior environments.



Knauf Insulation

Insulation Board and Acoustical Board with ECOSE® Technology

This product has been GREENGUARD Indoor Air Quality Certified® by the GREENGUARD Environmental Institute under the GREENGUARD for Children & Schools SM Products certification program.



Certification Details: Certification No: 903

Certification Status: Certified

GREENGUARD Products Emission Standard for Children & Schools

GREENGUARD Indoor Air Quality Certified Products meet the following minimum emission requirements:

Category: Insulation

Individual VOCs

Formaldehyde

Total VOCs

Total Aldehydes

Total Phthalates

Total Particles (< 10µm)

SubCategory: Air Handling

< 1/100 TLV and < ½ CA chronic REL

< 0.0135 ppm/13.5 ppb

< 0.22 mg/m³

< 0.043 ppm/43 ppb

< 0.01 mg/m³

< 0.02 mg/m³