



ADES 4615: Topics in Interior Design

SUSTAINABLE FLOOR & WALL COVERINGS

Exploring Green Materials for
Commercial Interiors

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WHY ARE SUSTAINABLE FLOOR AND WALL COVERINGS IMPORTANT?

Sustainable floor and wall coverings are important because they directly influence indoor air quality, occupant health, and environmental impact. Using low-VOC, recycled, or natural materials helps reduce harmful emissions while supporting responsible resource use. These products last longer, create less waste, and help build healthier, more resilient interiors that better support the people who use them and the planet they rely on.



INTERFACE – HEARTH 4.5 MM LVT (MARBLE DUST- A03504).

Interior Finish | Product Spec Profile – ADES 4615.501
CSI Division 09650 Resilient Flooring / Luxury Vinyl Tile

Hearth LVT from Interface is a resilient flooring line inspired by simple, natural textures. Part of the Earthen Forms collection, it brings a calm, stone-like look to commercial interiors. Its multi-layer construction and low-VOC materials help create healthier indoor spaces.

WHAT IS IT?

Interface designed Hearth LVT to balance durability, comfort, and sustainability. The product uses a stable multi-layer build, a high-performance wear layer, and low-emission adhesives to meet indoor air quality standards.

RESEARCH

I used Hearth LVT in a recreation center project during my internship at Grace Design Studio in Dallas. The flooring performed well in heavy-use areas and supported the project's wellness goals by providing cleanable surfaces and low-VOC installation.

CASE STUDY

Hearth LVT supports Interface's climate-neutral mission. It contains recycled content, is manufactured in ISO-certified facilities, and contributes to better indoor air quality. When the flooring reaches the end of its life, it can be returned through Interface's ReEntry® program to reduce waste and support circular design.

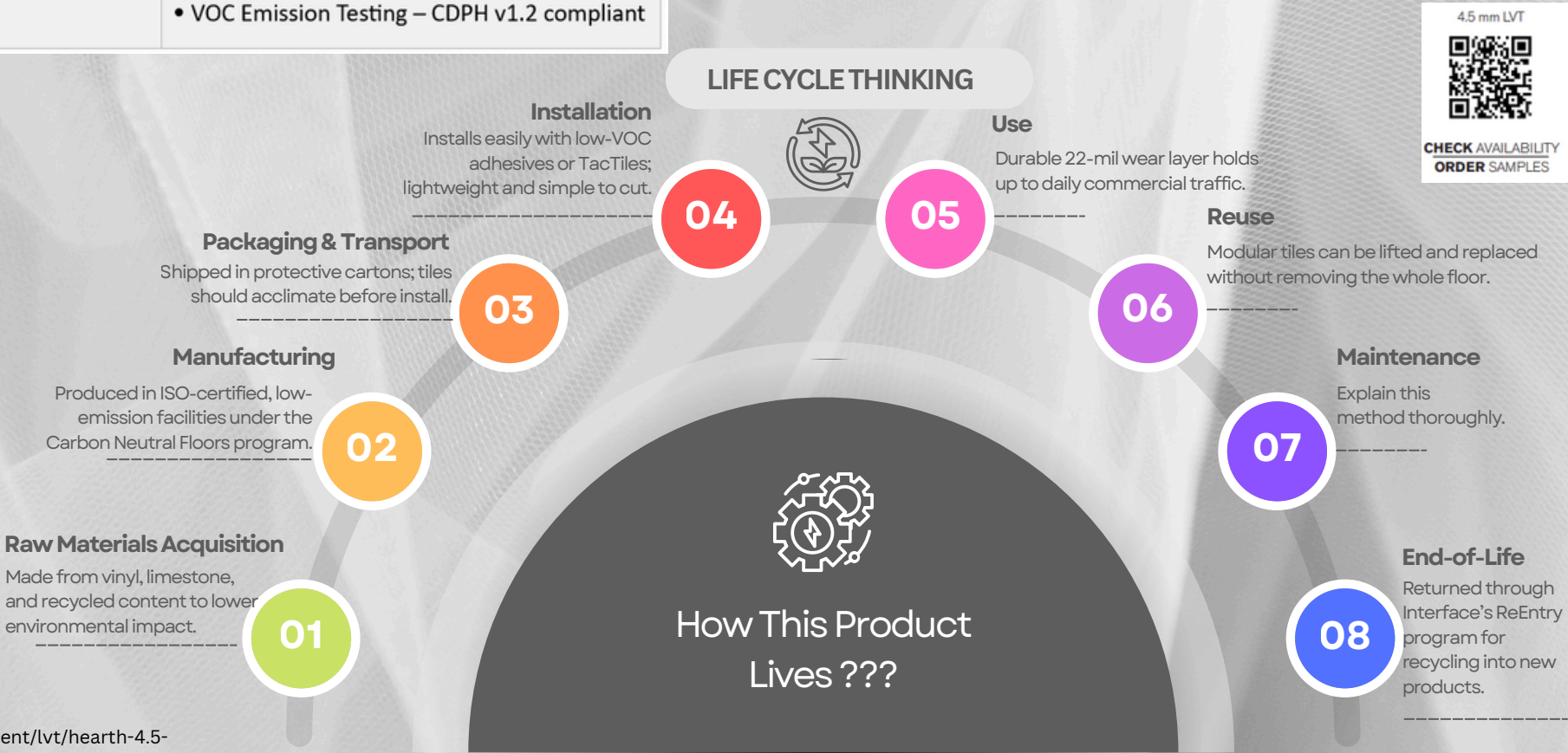
SUSTAINABILITY

IMAGE	DESCRIPTION	SPECIFICATIONS	STANDARDS
	Manufacturer: Interface, Inc. Collection: Earthen Forms Product: Hearth 4.5 mm Type: Luxury Vinyl Tile (LVT) Color: A03504 Marble Dust Category: Resilient Modular Flooring Country of Origin: USA	Construction: Heterogeneous LVT with balanced multi-layer construction including wear layer, print film, and backing. Overall Thickness: 4.5 mm Wear Layer: 22 mil (0.55 mm) high-performance polyurethane finish Size: 50 cm × 1 m planks Edges: Micro-beveled Installation: Glue-down with Interface adhesives Static Load Limit: ≤ 0.005” residual indentation (ASTM F970) Slip Resistance: ≥ 0.60 (ASTM D2047) Dimensional Stability: ≤ 0.25% (ASTM F2199)	Performance Standards: • ASTM F1700, Type B, Class III – Solid Vinyl Tile • ASTM E648 / NFPA 253 – Class I Critical Radiant Flux • ASTM E662 – Smoke Density ≤ 450 • ASTM F925 – Chemical Resistance – Pass • ISO 9001 & ISO 14001 Certified Manufacturing • VOC Emission Testing – CDPH v1.2 compliant



INSTALLED PRODUCT VIEW

SINGLE AND MULTI-ATTRIBUTE	LCA'S ENVIRONMENTAL IMPACT	SOCIALLY RESPONSIBLE ATTRIBUTES	LEED CI V4 CATEGORIES	WELL CATEGORIES
Hearth LVT is certified by FloorScore® for low VOC emissions, meaning it supports healthier indoor air quality. The product is also free from phthalates, heavy metals, and formaldehyde.	Hearth LVT has an Environmental Product Declaration (EPD) available (Interface LVT Hearth, 2023). It is Cradle to Cradle® Silver certified and made using renewable energy, showing reduced environmental impact throughout its life cycle.	The flooring participates in Interface's ReEntry® recycling and take-back program, allowing old tiles to be reused instead of discarded. It is made with carbon-neutral materials through Interface's Carbon Neutral Floors™ initiative.	Hearth LVT contributes to LEED v4 credits for Low-Emitting Materials, Material Ingredients , and EPD Disclosure , helping support healthier and more transparent material selections in building projects.	The product supports WELL features for Clean Air and Mind by reducing VOC levels and limiting harmful chemicals. It also helps with VOC Reduction and Microbe Control , supporting healthier interior environments.



POSHFELT WATERFALL – ACOUSTIC WOOL WALL COVERING

Interior Finish | Product Spec Profile – ADES 4615.501
CSI Division 09770 Acoustical Wall Treatment

PoshFelt Waterfall is an acoustic wall covering made from 100% organic wool. It softens sound, brings natural warmth into interiors, and supports low-VOC, healthy spaces. The panels add texture and comfort while meeting high indoor air-quality standards.

WHAT IS IT?

CSI Creative manufactures acoustic materials that blend sustainability, wellness, and aesthetics. Their PoshFelt line uses ethically sourced wool, natural dyes, and low-emission processes to support WELL and LEED design goals.

RESEARCH

I selected PoshFelt Waterfall for my Studio IV office project because it naturally reduces noise and improves wellness in work areas. The wool panels help create a calm environment with cleaner air and a softer, more inviting atmosphere.

CASE STUDY

PoshFelt is made from renewable wool, is VOC-free, biodegradable, and certified for low toxicity. Its natural fiber composition reduces environmental impact and helps designers create healthier, long-lasting interiors.

SUSTAINABILITY



IMAGE	DESCRIPTION	SPECIFICATIONS	STANDARDS
	Manufacturer: CSI Creative Product: PoshFelt Waterfall Model Number: PSH650 Category: Acoustic Wool Felt Panel Content: 100% Organic Merino/Karakul Wool Color Range: 178 highly saturated hues or custom	Thickness Options: 3mm, 5mm, 8mm, 10mm, or custom Dimensions: Approx. 1'-4" W x 1'-0" H x 1" D (Chevron shape) Acoustical Rating: 0.10 – 0.20 NRC Variation: Wool felt may have inclusions, color variations, and dye lot inconsistencies Colorway Options: A1: Soundcore A2: Soundcore + PoshFelt A3: Soundcore + ThermaLeaf	Flammability: ASTM E84; Class A Weathering: Colorfast, non-deteriorating, non-woven, moisture resistant Environmental: VOC-free, biodegradable, compostable, antimicrobial Durability: Colorfast and moisture resistant



From Sheep To Chic
Sustainably Sourced Wool Felt

INSTALLED PRODUCT VIEW

SINGLE AND MULTI-ATTRIBUTE	LCA'S ENVIRONMENTAL IMPACT	SOCIALLY RESPONSIBLE ATTRIBUTES	LEED CI V4 CATEGORIES	WELL CATEGORIES
PoshFelt is VOC-free and formaldehyde-free. Made from natural wool fibers with no harmful chemicals.	Wool is renewable, biodegradable, and compostable. Low embodied energy and reduced impact across its life cycle.	Made with ethically sourced Merino and Karakul wool. Manufactured in ISO-certified facilities.	Low-Emitting Materials, Material Ingredients, EPD-based credits	Clean Air, Mind, VOC Reduction, Microbe + Mold Control

