

— BARRISOL · ENVIRONMENT & CSR

Low-carbon

Innovative materials and sustainable solutions inspired by Barrisol

A presentation of Barrisol's environmental approach and the Barrisol® Polaris and Barrisol Biowood® innovations

BARRISOL — NORMALU SAS · Kembs, Alsace · France

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Our sustainable vision

Combining architectural aesthetic excellence, innovative technologies and strict environmental responsibility.

“

Because making tomorrow's world more beautiful means, first and foremost, preserving it better today.

”

Barrisol Normalu S.A.S.

Buildings, a key player in the transition

The construction sector accounts for a major share of global greenhouse gas emissions. Certifications like HQE, BREEAM, LEED or WELL now require project owners to quantify and reduce the carbon footprint of every material used in a building.

37%

of global emissions
of CO₂ are building-
related

In this context, every component matters. Ceilings, long overlooked in carbon analysis, are becoming a decisive lever for optimization.

Goal: reduce the carbon footprint • Shift to bio-based and recyclable materials

59 years of global expertise

World leader in stretch ceilings, Barrisol has been shaping architectural innovation for more than fifty years. Recognized by architects, designers and engineers worldwide, the brand stands for technical excellence, reliability and premium quality, with 100% French manufacturing in Kembs, Alsace.



French manufacturing

Historic Kembs site (Alsace, France). 100% Origine France
Garantie certified.



Global presence

More than 100 countries. Thousands of prestigious projects.



Recognized excellence

Member of the Entreprendre pour la Planète Club : WWF France.
EPV : Living Heritage Company label
Member of UNIFAB



Continuous innovation

Les Biosourcées® range, dedicated R&D for sustainable materials.
More than 100 patents have been filed.

PERFORMANCE

A carbon footprint
among the lowest on the market

1.36

kg CO₂ / m²

recycling included

Environmental Product Declaration

A certified EPD

A verified document assessing the environmental impact across the entire life cycle: manufacturing, transport, installation, use and recycling.

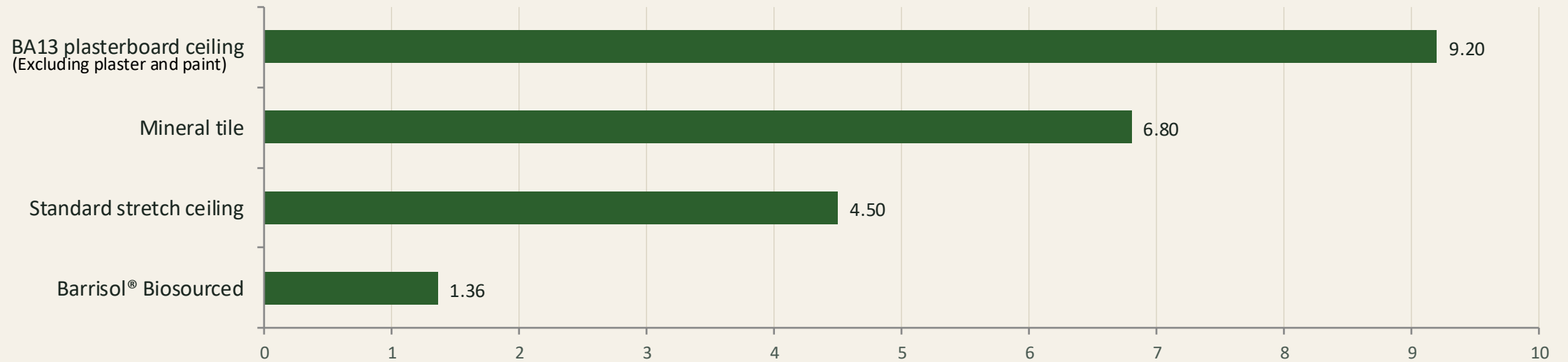
Verified by BRE Global · 2025

[VIEW THE EPD →](#)

B E N C H M A R K

Carbon footprint

Indicative carbon footprint per m² of ceiling, at equivalent function. The shorter the bar, the better the performance.



6.8×

less carbon

Barrisol Biosourced®: 1.36 kg CO₂/m² versus 9.20 kg CO₂/m² for a BA13 plasterboard ceiling.

Indicative values based on public EPD/FDES data sheets and the Barrisol Biosourcée EPD verified by BRE 2025. Equivalent function, full life cycle.

The weight of **materials**

Material weight comparison for 100 m² installed

Conventional ceiling
(100 m²)



13 kg/m²

Barrisol
(100 m²)



0.25 kg/m²

52x

lighter than a conventional ceiling

A dramatic reduction in the carbon footprint of freight, storage and on-site handling.

Sustainable construction (LEED & HQE)

Barrisol ceilings fit seamlessly into "Green Building" specifications (**LEED and HQE certifications**).

Structural lightness

0.25 kg/m² vs 13 kg/m²

An ultra-light weight ceiling that minimizes bulk, dramatically reduces load-bearing structure requirements and simplifies installation.

Waste-free job site

Zero demolition

The stretch ceiling covers existing supports directly, ensuring a fast, clean and **waste-free** job site.

Six pillars of responsible manufacturing



Bio-based materials

Les Biosourcées® range: renewable plant-based resources, progressively replacing petrochemical derivatives.



100% recyclable

At end of life, the membrane is fully recoverable. Recycling is included in the EPD calculation.



Optimized production

Optimized industrial processes in Kembs: controlled energy use, minimized waste, French quality.



Structural lightness

Low mass per m²: lighter transport, reduced load-bearing structures, lower job-site carbon impact.



Durability

High longevity, extended warranty: fewer replacements, so less material over the building's lifetime. Materials designed to last more than 50 years.



Recycling & time savings

No demolition required: the membrane installs over the existing ceiling or wall, avoiding its replacement or its recycling.

Responsible **life cycle**

From raw material to end of life: three controlled stages for a minimal footprint.

01

Bio-based sourcing

Priority use of plant-based polymers and post-consumer recycled materials.

02

Clean production

A committed French factory with no toxic discharge, drastically limiting energy consumption.

03

Circular integration

Waste-free installation, with full take-back of materials at end of life for recycling.

THE 2026 INNOVATION

Barrisol® Polaris Biosourcée®

*The most advanced translucent membrane
ever developed for luminous ceilings*

81%

Light transmission

*among the highest on the market
LEDs invisible from 80 mm*

1.36

kg CO₂ / m²

ultra-low carbon footprint

10 to 30%

Energy savings

reduction in energy required

From the Les Biosourcées® range · Designed by Eureka Design · Values tested in an independent laboratory

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THE INNOVATION

Barrisol[®] Biowood

*A revolutionary plant-based biopolymer,
finalist at the Architizer A+ Product Awards.*

up to

92%

Natural materials

including wood-derived components

OEKO-TEX[®]

Standard 100

optimal indoor air quality



Architizer recognition

A+ Product Awards finalist



Performance & certifications



Polaris® 81% light transmission

Perfectly uniform luminous surfaces; LEDs invisible from 80 mm.



Fire rating B-s1, do

Class A : suited to the most demanding public-access buildings.



A+ indoor air quality

Maximum safety for sensitive environments.



1.36 kg CO₂/m² (EPD)

Ultra-low carbon footprint, verified.



100% recyclable

100% made in France, in Kembs (Alsace).



Greenguard Gold & OEKO-TEX®

Standard 100, premium environmental certifications.

Where low-carbon becomes a criterion

Thousands of prestigious references worldwide. Barrisol solutions stand out in sectors where environmental requirements and lighting performance matter as much as aesthetics.

01

Luxury hospitality

Lobbies, suites, spas.
Complimentary light, low emissions.

02

Premium retail

Flagships, showrooms. Product
showcase, strong CSR image.

03

Health & wellness

Hospitals, clinics. A+ indoor air,
maximum hygiene.

04

Public buildings

Airports, museums, institutions.
RE2020 compliance.

— IN SUMMARY

Building bright and light.

A verified EPD, 100% French manufacturing, bio-based materials, full recyclability. With Polaris, Barrisol shows that architectural excellence and environmental responsibility no longer conflict — they reinforce one another.

Have a project?

Contact our experts for a free assessment.

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