

MATERIAL SUSTAINABILITY

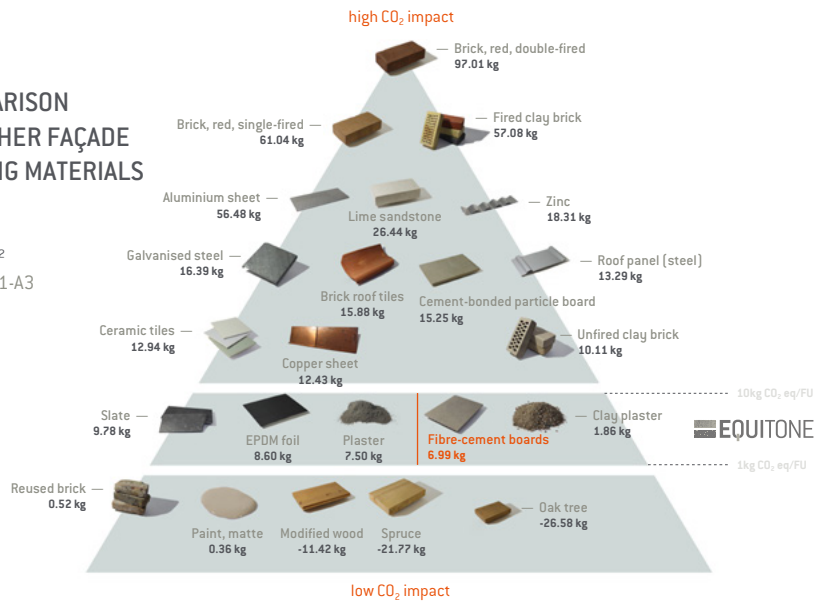
DATASHEET EQUITONE [lunara][®]

This document provides an overview of the most important environmental performance data of EQUITONE [lunara]. It is assessed and updated periodically to ensure accuracy and transparency.

CARBON FOOTPRINT COMPARISON

A COMPARISON WITH OTHER FAÇADE CLADDING MATERIALS

kg CO₂/m²
module A1-A3



The Construction Material Pyramid was developed by the Centre for Industrialised Architecture (CINARK) at the Royal Danish Academy in 2019. It is a way of visualising the carbon emissions associated with the production of different materials. The pyramid focuses on the product stage (life cycle phases A1 - A3). It gives an impression of the global warming potential of fibre-cement boards in general compared to other cladding materials.

Life cycle stages covered: Cradle to Gate (A1-A3)
Declared impact category: Global Warming Potential in kg CO₂
Functional unit: 1m² of façade cladding

Source: Byggeriets Materialpyramide

Copyright to: CINARK — Centre for Industrialised Architecture, The Royal Danish Academy

NOTE: Lifetime value and recycling potential are also key parameters in environmental impact assessment.

[More info](#)

ENVIRONMENTAL PERFORMANCE

The environmental performance assessment of our materials is based on international standards (ISO 14025) and verified by external experts. For more detailed information, see the full Environmental Product Declaration.

[Get the full report](#)

DURABILITY

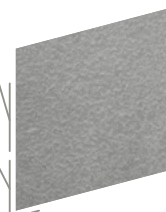
EQUITONE [lunara][®]



Proven lifetime
50 years or more



Designed for
disassembly with
reversible fixation
systems



With an expected lifetime of 50 years or more, EQUITONE panels often outlast the building lifetime. They are designed for disassembly with reversible fixation systems, allowing reuse in façade cladding or other applications.

ENVIRONMENTAL
IMPACT FROM
CRADLE TO GRAVE
/ M² SURFACE
EQUITONE [Iunara]®

Cradle-to-grave assesses the environmental impact from production, transport and installation to end-of-life and beyond (modules A1-C4 in the EPD). Our materials are assessed as a complete system, subframe included. Subframe choices often depend on local regulations or preferred fixation techniques.

GWP* Impact /m² EQUITONE [Iunara]®
— 10 mm



* Global warming potential
in kg CO₂/m²

GWP* Impact /m² EQUITONE [Iunara]®
— 10 mm + wooden subframe

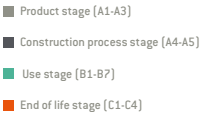


** As mentioned in the D section of the EPD, an aluminium subframe has a significant benefit beyond the system (-27.0 kg) because aluminium is fully recyclable.

GWP* Impact /m² EQUITONE [Iunara]®
— 10 mm + aluminium subframe**



*** Approximate value



ENVIRONMENTAL
IMPACT FROM
CRADLE TO GATE
/ M² SURFACE
EQUITONE [Iunara]®

Cradle-to-gate assesses the impact from raw material extraction to production, until the product leaves the factory (modules A1-A3 in the EPD).



* Global warming potential
in kg CO₂/m²

** Approximate value

GWP* Impact /m² EQUITONE [Iunara]®
— 10 mm



MATERIAL COMPOSITION
EQUITONE [Iunara]®

Key components

- Cement 35%
- Fibres 10%
- Sand 35%
- Lime 10%
- Others 10%



* Data reported in the LCA project report used as a basis for the EPD.

REACH-compliance



A REACH-compliant cladding solution, EQUITONE [Iunara]® doesn't contain any substances of very high concern (SVHC).

Sustainable logistics



85% of the raw materials used in EQUITONE [Iunara]® are transported over water, reducing fossil fuel consumption, noise and air pollution and carbon emissions.*

Local sourcing



>65% of raw materials used in EQUITONE [Iunara]® are sourced within a 150 km radius of the factory.*

CIRCULAR POTENTIAL

EQUITONE panels are designed and manufactured to maximise the circular potential. Visit the environment section on our website to find out more about our commitment and progress to date.

[Get the full story](#)

MATERIAL PROPERTIES

Fibre-cement cladding supports the principles of circular construction:



Modular



Easy to dismantle



Durable (+50 years)

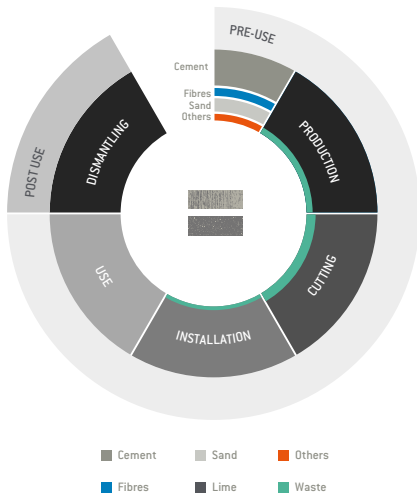


Lightweight

All EQUITONE materials are designed as a system, allowing easy assembly and disassembly for recycling. The panels are secured to the supporting frame with either concealed or visible mechanical fixings. For concealed systems, adhesives are sometimes used in the market. We don't recommend such fixing systems as they jeopardise the possibility to reuse or recycle our materials.

[Discover our fixings](#)

WASTE FLOWS



Waste flows across the value chain

All EQUITONE waste generated in the production phase is recycled in material loops, such as transportation to the cement kiln, where it is reactivated.

Also, careful planning can reduce cutting waste. For advice on optimal material usage, reach out to your local Specification Manager or [contact us](#) directly.

Very little waste is generated during the installation phase as most panels are pre-cut to size in the cutting shop.

Circularity in practice

Modular construction



EQUITONE is suitable for modular construction, thus extending the useful life of a building.

[View projects](#)

Minimal waste



Through careful planning, architects have been able to reduce cutting waste to zero or near-zero.

[View projects](#)

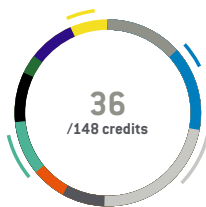
Reuse or building refurbishment



Although still at an experimental stage, some projects already involve reusing or upcycling EQUITONE façade panels.

[View projects](#)

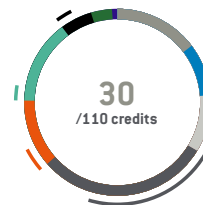
BREEAM & LEED CREDIT POTENTIAL



BREEAM system goal & credit potential

EQUITONE can contribute to obtain BREEAM credits.

[More info](#)



LEED system goal & credit potential

EQUITONE can contribute to obtain LEED v4 points.

[More info](#)

ECOLOGICAL & SOCIAL MANUFACTURING



EQUITONE [lunara]® is produced in production facilities that meet the international ISO 14001 and ISO 45001 quality standards. We continuously work to reduce our climate footprint and provide a safe workplace.

UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS (SDGs)

Pushing the boundaries of fibre-cement technology, EQUITONE is committed to the SDGs and establishes partnerships to address them. The main goals we focus on are:



We provide a safe working environment and contribute to safe and healthy housing, ensuring healthy lives and promoting well-being worldwide.



We encourage leadership regardless of gender and ensure gender equality across all levels of the organisation.



We contribute to the clean energy transition through on-site solar farms and cogeneration units.



Our materials are lightweight, built for durability and low in waste, ensuring responsible production and consumption.



Committed to achieving zero waste to landfill by 2030, we take action to combat climate change and its impacts.

[Discover our sustainability initiatives](#)

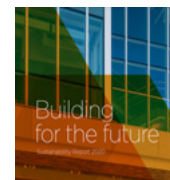
MORE INFORMATION

Visit our website for more information on our [environmental commitment](#) and [materials](#).



EQUITONE SUSTAINABILITY MANIFESTO

[Read](#)



ETEX GROUP SUSTAINABILITY REPORT

[Read](#)