

DATA VERIFICATION FOR THE RANKING OF SUSTAINABLE MATERIALS ACCORDING TO CARBON FOOTPRINT THROUGHOUT ENTIRE LIFE CYCLE

BACKGROUND

The carbon footprint indicator (Co2eq emissions/year) values of roofing materials (both large and small elements) have been revised based on the data available on the INIES portal. The information in the INIES portal for various materials is provided by the publication of the Environmental Product Declarations (EPD in English, FDES in French). It is to be used as a source of information for the eco-design of buildings and construction of facilities, in accordance to EN 15804: 2014, based on a Life Cycle Assessment of construction products in European market.

Using the data extraction from the INIES database, these values have been reviewed, along with the ranking of roofing materials (large and small elements) according to the carbon footprint indicator (Co2eq/year emissions).

This database is the French reference database on environmental and health data for construction products and equipment (including AFNOR, AIMCC and the French Ministry of Ecological Transition through ADEME).

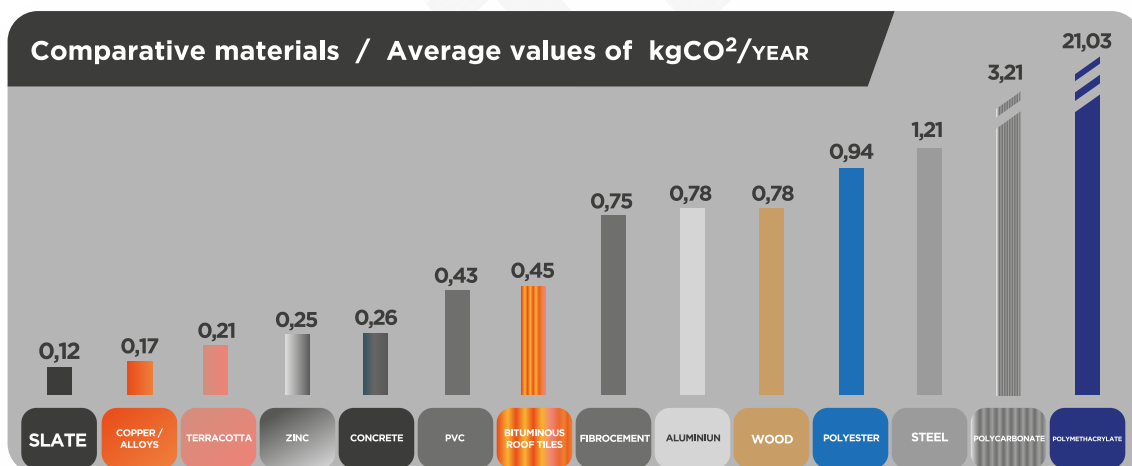
The operation and control of INIES data is carried out through the Supervisory Board and Technical Committee. The Supervisory Board is chaired by the HQE-GBC Alliance, composed of entities and associations of construction professionals.

CONTROL UNION CERTIFIES THAT

In accordance with the data reflected in the INIES, which confirms with the data considered in the EPDs (FDES) of various materials, the Co2eq emissions data have been analysed over the materials' life cycle, from the production phase to the end of life. The data for the same materials has then been averaged and a ranking of emissions has been drawn up which shows that slate is the material with the lowest carbon footprint throughout its life cycle.

The data and calculations have been reviewed and are considered acceptable.

The average kgCO₂/YEAR values of roofing materials for the categories large roofing elements and small roofing elements have been reviewed and the validity of the average kgCO₂/YEAR values shown in the table below has been checked:



Versión INIEINIES version 4.1.3.1. Updated data used 14/11/2022

The data, verified by CONTROL UNION, has been used as a basis for the above ranking, dated 14th November 2022. This data may change in the light of subsequent updates.