



Baubook

Datenbank für ökologisches bauen und sanieren

KEYWORDS:

- Building culture
- Construction
- Closed loops
- Governance
- Planning Tools
- Ecology
- Energy efficiency
- Indicators
- Mobility
- Technology transfer

TARGET GROUP:

- Architects
- Builders
- Citizens
- Craftsmen
- Home Owners
- Planners
- Politicians
- Policy Makers



Example

Ecological criteria

- Beschreibung
- Allgemein
- Erfüllung der Kriterien
- Wärmebedarf und Versorgung
 - Heizenergiebedarf
 - Einsatz von klimaschonlichen Substanzen
 - Einsatz von Kunststoffprodukten in Dämmstoffen
 - Verwendung von AEM-Gläsern in Dämmstoffen
 - Polyurethan (aus Mikrobläschenplatten)
 - Produkte aus Holzwerkstoff
 - Wärmehaushalt der Anschlüsse mit Stoßdämmmaterial
 - Geflügelte Holzbohlen
- 1. PVC-Vermahlung
- Halogenfreie Verbindungen
- Konstruktion und Gebäude (Dämmende 3)
- Einsatz von 2 oder mehreren Dämmstoffen
- 10. Innenraum
 - VOC- und StD-C-Gehalte für Dämmstoffe

Technical data

Einzelbereich

Physikalische Einheiten

Physikalische Kennwerte

Teil	Wert	Einheit
U _{0,10}	0,044	1/m²K
U _{0,10}	18,5	1/m²K
U _{0,10}	1000	1/m²K
U _{0,10}	1	1/m²K

Ökologische Kennwerte

Herstellungspotenzial (H₁₀₀ gemäß EN 15901)

Teil	Wert	Einheit
PEL ₁₀₀ global	100	kg CO ₂ eq/m²
PEL ₁₀₀ acid	26,2	kg SO ₂ eq/m²
PEL ₁₀₀ fossil	100	kg CO ₂ eq/m²
GWP100	0,537	kg CO ₂ eq/m²
Acidpot	1,41	kg SO ₂ eq/m²
Globalpot	1,41	kg CO ₂ eq/m²
NonRenPot	2,15	kg CO ₂ eq/m²
AP	0,00442	kg PO ₄ eq/m²

Compounding

Technische Eigenschaften

- Verarbeitung
- Dicke und Abmessungen
- Zusammenbau

Umweltfreundliche Rohstoffe ("Newer")

Umweltfreundliche Rohstoffe	100	Keine Angabe
Kunststoffe	Keine Angabe	Keine Angabe
Metalle	Keine Angabe	Keine Angabe
Recyclingstoffe	Keine Angabe	Keine Angabe
Fluoroplaste	Keine Angabe	Keine Angabe

Product Displayed on www.baubook.info/oea

Results and outcomes (use cases):

Baubook is a database which supports sustainable construction projects by providing ecological product information including:

- Eco-Indicators (e.g. global warming potential (GWP 100 years), acidification Potential (AP), non-renewable energy demand),
- Emissions to indoor air (e.g. VOC-Emissions),
- Dangerous substances as ingredients (e.g. biocides, halogen organic compounds),
- Information about raw materials (e.g. recycling materials), and many more.

There are several individual platforms which meet the interests of different target groups and present the products with the relevant information. One of them - the "baubook for environmental public-sector procurement" (www.baubook.info/oea) - is especially adapted to the needs of public-

sector clients and provides a catalogue of ecological criteria for green public procurement. Another - "baubook eco2soft" (www.baubook.info/eco2soft) - is an online tool for calculating Eco-Indicators of buildings.

All Information and criteria are managed through a central database. The producers declare their product only once and the corresponding products are present in each individual platform.





Description:

In 2004 the Energy Institute Vorarlberg developed a database to support local subsidies for energy efficient and ecological buildings. At the same time, the Austrian institute for healthy and ecological buildings (IBO) implemented a database to support the green procurement activities of Vienna ("ÖkoKauf Wien"). In 2008 the IBO and the Energy Institute Vorarlberg merged the two databases and founded the baubook database. The baubook database facilitates several initiatives for sustainable

buildings:

- „ÖkoKauf Wien“ und „Kommunal-Gebäude-Ausweis“ (Green public procurement programs in Vienna and Vorarlberg)
- Klima:aktiv and ÖGNB (building certification)
- Subsidies for private housing
- Calculation of Eco-Indicators for buildings
- Calculation of Energy-Passes

All information is open source and can easily be adapted to other regions.

Relevance for inter-municipal planning (AlpBC):

Baubook is a tool which is used by several municipalities. It supports the use of standard procurement criteria in municipalities. This creates several benefits:

- Lower cost for the scientific development of the criteria.
- A bigger market for green products and therefore a higher potential for product innovation.
- More corresponding products.
- Low costs for gaining information about the ecological quality of products. The information is available for free, at any time and easily accessible via internet.
- Low planning costs because of highly aggregated product information. All relevant product information (e.g. values for calculating energy passes, Eco-Indicators (grey energy, etc.), indoor emission, dangerous substances, etc. are available in one database.
- Higher acceptance in the building industry. With only one declaration the producers address different regions and target groups.
- Increasing Know-How for planning and construction of sustainable buildings.
- Green public procurement fosters the use of regionally available resources.
- The procurement criteria can be adapted to the regional needs of different regions, if necessary.

Relevance for policy goals (Alpine Space, Europe and the region):

By providing the green tender specifications and corresponding products the baubook database can make a relevant contribution to green public procurement. Providing the criteria easily accessible in the internet facilitates the transfer from the public to the private sector. And even more important, the ecologic product information is available for the private construction market and the high potential for the innovation of new products influences the whole market for building materials. Public authorities are major consumers in Europe: they spend approximately 2

trillion euros annually, equivalent to some 19% of the EU's gross domestic product. By using their purchasing power to choose goods and services with lower impacts on the environment, they can make an important contribution to sustainable consumption and production.

