Under "Assessment Systems", WECOBIS offers specific contents for processing the following BNB criteria profiles:

- **Criteria Risks to the Local Environment – New Construction (BN_1.1.6)**
  
  The objective is to reduce or avoid materials dangerous to ground water, surface water, soil and air in connection with new buildings. WECOBIS offers an overview for this purpose showing, for example, which groups of hazardous materials could be relevant to a group of building products.

- **Criteria Risks to the Local Environment – Refurbishment (BN_1.1.6)**
  
  In this module, the user will find information on hazardous materials contained in products that are no longer approved, but may still be part of the existing building stock.

- **Criteria Indoor Air Quality (3.1.3)**
  
  The main focus is on ensuring indoor air quality with respect to VOCs and formaldehyde. WECOBIS provides information on the installation, processing and interactions of building products.

- **Criteria Dismantling, Separation and Utilisation (4.1.4)**
  
  As for the BNB criteria profile 4.1.4, WECOBIS provides concentrated information on possible environmental and health aspects concerning relevant building products.
WECOBIS offers a structure based on specialist information and the various life cycle phases (resources, production, processing, use and reuse). The contents are applied in practice:

- Planning & tendering assistance specific to building materials.
- myWECOBIS for filing and storing contents of user's own projects.
- Quick info on classifying building product groups according to BNB requirements.

Environmental and Health Aspects of Building Materials

WECOBIS categorises environmental and health aspects according to the life cycle phases. The right building materials can be selected with the support of the following WECOBIS functions:

- Development of material concepts for sustainable planning.
- Pre selection of certain product groups based on environmental and health aspects.
- Classification of building material according to criteria under the Assessment System for Sustainable Building (BNB).
- Definition of quality levels in the planning process with regard to the selection of construction materials.
- Planning with building materials in overall comprehensive terms across all life cycle phases.

Life Cycle

Resources

Wood fibre insulation panels are porous panels in accordance with DIN EN 622-4 and belong to the group of plate-derived timber products.

Within the group of insulation they are classified as renewable insulation and plant fibre insulation.

Resources

Main Components

Basic Material:
- up to 96% saw mill waste from spruce, ft, pine
- none (wood resin = lignin)

Additives:
- approx. 1% aluminium sulphate for activating the lignin
- water-repellent effect
- chalk-binding/pH lowering
- approx. 2% paraffin emulsion, natural resin emulsion

Hydrophobic Treatment (if necessary):
- asphalt emulsion

Aspects of Health and the Environment

Production/Availability

Use of Recycled Material/Production Waste

Wood fibre insulation is produced from remains from wood processing or from hardly usable wood (chips, smallwood and pit wood, storm and snow-felled timber). As a renewable resource, wood is sufficiently in stock and generally sourced from local waste wood to minimise transport costs to the production plant.

Free of charge

Product-neutral independent

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Scientific Advisory Board
A Scientific Advisory Board specifies the main contents and proposes topics for further development.

Integration with Federal Sustainable Building
WECOBIS is part of the planning tools that are used in the implementation of the Guideline for Sustainable Building and in the application of the Assessment System for Sustainable Building (BNB) in the federal sector.

Wood Fibre Insulation

*Excerpt from www.wecobis.de