

SUSTAINABLE BUILDING



High Standards for the Benefit of People and the Environment

The requirements for sustainable, energy-efficient, and environmentally conscious construction are continuously being developed at both national and international levels and are reviewed through corresponding sustainability goals. In new construction projects, refurbishments, and renovation work, architects, construction companies, and planners can use various labels and assessment criteria to evaluate and select low-emission products and materials for interior-related building applications. The DGNB (German Sustainable Building Council), the U.S.-based LEED® (U.S. Green Building Council, Leadership in Energy and Environmental Design), and the British BREEAM (Building Research Establishment Environmental Assessment Methodology) are among the most well-known certification systems for sustainable building. These systems use checklist-based approaches to define minimum requirements for the environmental compatibility of construction products. All three systems are globally recognized standards and are subject to continuous and independent monitoring.

DGNB



GERMAN SUSTAINABLE BUILDING COUNCIL

The certification of the German Sustainable Building Council (DGNB) evaluates the sustainability of buildings based on their overall performance. Points are awarded across the following six categories:

- Ecological quality
- Economic quality
- Sociocultural and functional quality
- Technical quality
- Process quality
- Location quality

A building's certification level depends on the degree to which these criteria are fulfilled and can be awarded as a quality label in Platinum, Gold, Silver, or Bronze.

*In the future, the Bronze certification will only be awarded for existing buildings, starting from a fulfillment level of 35 percent.

LEED®



Leadership in Energy & Environmental Design

The voluntary LEED® certification evaluates buildings based on various criteria, including water efficiency, energy performance, location, materials, and indoor environmental quality. LEED certification for buildings is awarded in four levels:

- Certified, 26 – 32 points
- Silver / 33-38 points
- Gold / 39-51 points
- Platinum / 52-69 points

BREEAM



Code for a sustainable built environment

BREEAM is the oldest certification system for sustainable building and awards a quality label in six levels based on a simple points system across ten assessment categories (Energy, Health and Wellbeing, Innovation, Land Use and Ecology, Materials, Management, Pollution, Transport, Waste, Water).

- Acceptable (< 30%, In-Use scheme only)
- Pass (30%)
- Good (45%)
- Very Good (55%)
- Excellent (70%) oder
- Outstanding (85%)

The criteria take into account impacts at the global, regional, local, and indoor levels throughout the entire life cycle.

BNB



Nachhaltiges
Bauen

Sustainable Building Assessment System

The BNB (Assessment System for Sustainable Building) is a tool for planning and evaluating sustainable, typically public, construction projects. The BNB of the Federal Ministry for the Environment, Nature Conservation, Building, and Nuclear Safety is structured analogously to the DGNB certification system.

The following categories are assessed:

- Ecological quality
- Economic quality
- Socio-cultural and Functional quality
- Technical quality
- Process quality
- Location quality

There are different usage profiles for certification of:

- Office and administrative buildings (new construction, existing buildings/full renovation, use and operation)
- Outdoor facilities of federal properties
- Educational buildings (new construction)
- Laboratory buildings (new construction)

Buildings can receive a rating of Bronze (50%), Silver (65%), or Gold (80%).

QNG



Sustainable Building Quality Seal

New Construction and Renovation of Residential and Non-Residential Buildings

Since July 1, 2021, sustainable building and sustainability certification have been promoted through the Sustainable Building Quality Seal (QNG) as a quality assurance instrument within the framework of the Federal Funding for Efficient Buildings for Renovation (BEG) and Climate-Friendly New Construction (KFN). The criteria and conditions for the Quality Seal are established by the Federal Government, represented by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

A fundamental requirement for awarding the QNG is certification with a registered sustainable building assessment system. Registration is granted upon application by the German Accreditation Body (DAkkS). All registered systems meet specific basic requirements in the areas of ecology, economy, socio-cultural quality, and the planning and construction process.

Specific requirements for individual building materials have been formulated for obtaining the QNG. For QNG-PLUS, the executing companies must confirm compliance with these requirements. QNG-PREMIUM requires detailed documentation of the materials used, providing greater transparency and benefits for future renovation measures or eventual deconstruction.

HPD



Health Product Declarations

Health Product Declarations (HPDs) are a way to earn points in the LEED credit “Materials and Resources – Building Product Disclosure and Optimization – Material Ingredient Reporting”, thereby positively influencing the overall project score. Health Product Declarations list all the ingredients of a building product and provide information about their potential health impacts. The HPD was developed by the HPD Collaborative to disclose potential health risks of materials. For a LEED project to achieve this credit, 20 different products from at least five manufacturers must have a Health Product Declaration. With the HPDs provided by EGO, you can move closer to this goal.

In LEED and BREEAM, assessment is carried out on a “pass/fail” basis. In contrast, DGNB uses a differentiated scale based on target, reference, and limit values. This approach ensures that individual sustainability aspects cannot be entirely ignored, and meaningful engagement with the criteria in a project is rewarded, even if the full score is not achieved.

In the following sections, we will explain the key requirements and terms for the different assessment systems:

VOC



Volatile organic compounds

To ensure the highest possible protection of indoor air quality, the use of low-emission products that do not release hazardous substances should be guaranteed. The VOC content in building products should be kept as low as possible. VOC content generally refers to the amount of volatile organic compounds (VOCs), i.e., volatile hydrocarbon-based compounds in a material.

There is no single, universally accepted definition of VOCs. Some definitions include specifications based on vapor pressure, while others define VOCs by their photochemical reactivity as so-called precursor substances for the formation of ground-level ozone. Additionally, some definitions explicitly exclude certain organic substances from the VOC definition. Another definition is commonly used when assessing indoor air quality, which also applies to VOC emissions from products into indoor air.

Consequently, information about VOC emissions can only be meaningfully evaluated if the definition used is also stated. EGO sealants are free from added solvents to keep VOC content as low as possible.

EMICODE



GEV Certification Mark

EMICODE allows products that meet very high emission standards to be evaluated. The EMICODE certification mark is awarded by the GEV (Association for the Control of Emissions in Floor Coverings, Adhesives, and Building Products, Germany). The emission limits defined by the GEV must be met in order to use the EMICODE designation.

Low-emission products are awarded EMICODE® EC2. This class meets the basic requirements for obtaining an EMICODE® seal. The master class, EMICODE® EC1, has proven over many years to be the standard for very low-emission products. Products carrying this seal meet the highest environmental and health requirements.

The EMICODE® EC1^{PLUS} seal represents the premium class, describing the limits of what is technically achievable. It imposes significantly stricter limits than even the EC1 class.

AgBB



Committee for the Health Assessment of Building Products

The AgBB scheme was developed as an assessment scheme for VOC emissions. The Federal Environment Agency has developed testing criteria in a Committee for the Health Assessment of Building Products (AgBB) to protect against potentially hazardous emissions of volatile organic compounds (VOCs) with regard to health, environment, and indoor air hygiene.

Testing according to AgBB is similar to the following emission tests for ecological building products:

- EMICODE emission test
- Emission testing in France and Finland
- Blue Angel testing method
- Natureplus label testing method
- AFSSET testing method
- GUT testing method

FRENCH REGULATION

French Regulation on VOC Emission Classes



A French regulation from 2011 (Grenelle Law) stipulates that certain building products must be labeled with an emission class starting January 1, 2012. This regulation mainly applies to widely used building products, such as wall, floor, and ceiling coverings, coatings, and insulation materials, as well as windows and interior doors. The emission testing is based on DIN EN 16516, and ten individual substances are evaluated.

EGO Dichtstoffwerke offers a selection of listed and certified products, supporting building certification with products that meet the high standards of the certification systems. These product verifications are stored with the respective products, demonstrating our high quality standards. The product-specific certificates, declarations, and eco-labels are also available on the BMS (Building Material Scout) platform, enabling architects, construction companies, and planners to document and easily access certified EGO products for project planning.

DGNB Relevant Requirements	Proof of equivalence to EMICODE*	VOC content < 1 %	No chlorinated paraffins	No KWS plasticizers	Solvents < 1 %	Halogenated propellants < 0,1 %	SVHC substances < 0,1 %
EGO BUTYLE (all)	AgBB certification	X	X	X	X	X	X
EGOSILICON 100	AgBB certification	X	X	X	X	X	X
EGOSILICON 110	AgBB certification	X	X	X	X	X	X
EGOSILICON 111	AgBB certification	X	X	X	X	X	X
EGOSILICON 151	AgBB certification	X	X	X	X	X	X
EGOSILICON 300 [TRANS.]	AgBB certification	X	X	X	X	X	X
EGOSILICON 333	AgBB certification	X	X	X	X	X	X
EGOSILICON 351	AgBB certification	X	X	X	X	X	X
EGOSILICON 360	AgBB certification	X	X	X	X	X	X
EGOSILICON 400	AgBB certification	X	X	X	X	X	X
EGOSILICON 460	AgBB certification	X	X	X	X	X	X
EGO SPIEGELKLEBER	AgBB certification	X	X	X	X	X	X
EGO HYBRID 800	AgBB certification	X	X	X	X	X	X
EGO HYBRID 805	AgBB certification	X	X	X	X	X	X
EGO HYBRID 808	AgBB certification	X	X	X	X	X	X
EGO HYBRID 815	AgBB certification	X	X	X	X	X	X
EGO HYBRID 818	AgBB certification	X	X	X	X	X	X
EGO HYBRID 820	AgBB certification	X	X	X	X	X	X
EGO HYBRID 825	AgBB certification	X	X	X	X	X	X
EGOCRYL 500	AgBB certification	X	X	X	X	X	X
EGOCRYL 530	AgBB certification	X	X	X	X	X	X
EGOCRYL 550	AgBB certification	X	X	X	X	X	X
EGOPLAST FK	AgBB certification	X	X	X	X	X	X

* For EGO sealants, proofs of equivalence to EMICODE EC1Plus regarding GEV classification criteria (03/2022) were demonstrated, specifically in Section 3.2 on emission testing. The emission limits according to the AgBB scheme 2018 version were verified and complied with through a chamber test. The corresponding sample quantities for the test specimens can be found in our emission reports.

DGNB Navigator	Listed in the DGNB Navigator	DGNB Navigator Label
EGOTAPE 1000 FLEXDICHTBAND	X	BITG90
EGOTAPE 2000 ALUDICHTBAND / ALUFIXBAND	X	FRYY7R
EGOTAPE 4000 UNIVERSALDICHTBAND / NAGELDICHTBAND	X	7JSS3H
EGOFERM MIT VLIES FENSTERANSCHLUSSBAND	X	DUMT8P
GOBON 217 BUTYLDICHTBAND	X	H1A6CX
EGOSILICON 151 SANITÄR	X	MK05CN
EGOSILICON 300 BAUDICHT	X	A6ZE87
EGOSILICON 351 NATURSTEIN	X	508S6Q
EGO HYBRID 805 KLEB- & DICHTFIX	X	96G460
EGO HYBRID 818 BAU & SANITÄR	X	2Z0GP5

BMS product verifications	DGNB New Construction 18 and DGNB New Construction 23	QNG Plus Version 1.1-1.5 ANF 3-1	BNB 2025/2017 (Quality level 3-5)	BNB BN 2015 (Quality level 5/5)	EU Taxonomy	LEED Building Design & Construction v4.1	BREEAM DE New Construction 2018 & BREEAM International 2016
EGOTAPE 1000 FLEXDICHTBAND	X	X	X	X	X	X	X
EGOTAPE 2000 ALUDICHTBAND	X	X	X	X	X	X	X
EGOTAPE 2000 ALUFIXBAND	X	X	X	X	X	X	X
EGOTAPE 4000 UNIVERSALDICHTBAND	X	X	X	X	X	X	X
EGOTAPE 4000 NAGELDICHTBAND	X	X	X	X	X	X	X
EGOFERM MIT VLIES FENSTERANSCHLUSSBAND	X	X	X	X	X	X	X
EGOFERM BUTYLDICHTBAND	X	X	X	X	X	X	X
GOBON 212 BUTYLDICHTBAND	X	X	X	X	X	X	X
GOBON 212 PROFIL MIT SEELE	X	X	X	X	X	X	X
GOBON 214 BUTYLDICHTBAND	X	X	X	X	X	X	X
GOBON 217 BUTYLDICHTBAND	X	X	X	X	X	X	X
GOBON 219 BUTYLDICHTBAND	X	X	X	X	X	X	X
GOBON 224 BUTYLDICHTBAND	X	X	X	X	X	X	X
GOBON 225 BUTYLDICHTBAND	X	X	X	X	X	X	X
GOBON 226 BUTYLDICHTBAND	X	X	X	X	X	X	X
EGOPOL BUTYLDICHTBAND	X	X	X	X	X	X	X
EGOPOL BW BUTYLDICHTBAND	X	X	X	X	X	X	X
GOBUTYL 242 TIEFBAUBAND	X	X	X	X	X	X	X
GOBUTYL 243 AUSGLEICHSBAND	X	X	X	X	X	X	X
EGOTAPE PADS BUTYLDICHTPADS	X	X	X	X	X	X	X

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EGOFORM KNETDICHT	X	X	X	X	X	X	X
EGOVLIES TAPE	X	X	X	X	X	X	X
EGOVLIES PADS	X	X	X	X	X	X	X
EGOSILICON 100 ULTRA	X	X	X	X	X	X	X
EGOSILICON 110 AQUARIUM & GLAS	X	X	X	X	X	X	X
EGOSILICON 111 LEBENSMITTEL & TRINKWASSER	X	X	X	X	X	X	X
EGOSILICON 120 HOCHTEMPERATUR	X	X	X	X	X	X	X
EGOSILICON 151 SANITÄR	X	X	X	X	X	X	X
EGOSILICON 300 BAUDICHT [TRANS.]	X	X	X		X	X	X
EGOSILICON 333 GLASFASSADE	X	X	X		X	X	X
EGOSILICON 351 NATURSTEIN	X	X	X		X	X	X
EGOSILICON 360 BAUPROFI	X	X	X		X	X	X
EGOSILICON 365 ALL IN ONE	X	X	X			X	X
EGOSILICON 400 BAU	X	X	X	X	X	X	X
EGOSILICON 460 BAUFIX	X	X	X	X	X	X	X
EGO SPIEGELKLEBER ORIGINAL	X	X	X	X	X	X	X
EGO HYBRID 800 GLASKLAR	X	X	X	X	X	X	X
EGO HYBRID 805 KLEB- & DICHTFIX	X	X	X	X	X	X	X
EGO HYBRID 808 KLEB & DICHT	X	X	X	X	X	X	X
EGO HYBRID 815 STRUKTUR	X	X	X	X	X	X	X
EGO HYBRID 818 BAU & SANITÄR	X	X	X	X	X	X	X
EGO HYBRID 820 FOLIENKLEBER	X	X	X	X	X	X	X
EGO HYBRID 825 MONTAGEPROFI	X	X	X	X	X	X	X