

# Assessment System BNB

## Interaction between Guideline and Assessment System

With the Guideline for Sustainable Building Germany introduced the Assessment System for Sustainable Building (BNB) mandatory for federal buildings in 2011. The Guideline serves as a set of binding rules for the use of the BNB.

The BNB is a “second-generation”, i.e. a holistic, assessment system providing a more far-reaching assessment of the building that covers its entire life cycle including all sustainability dimensions.

The image shows three pages from the BNB assessment system. The first page is the 'Zertifikat SILBER' (Certificate Silver) for a building project. The second page is 'Einzelbewertung' (Individual Evaluation), a detailed table of criteria and their fulfillment. The third page is 'Bewertungsgrafik der Hauptkriteriengruppen' (Evaluation Graph of Main Criteria Groups), a circular chart showing the fulfillment of five main criteria groups.

The previous three columns of sustainability were extended to five quantifiable sustainability qualities, which represent the five main criteria groups of the BNB. Besides ecological, economic, sociocultural and functional qualities, the BNB considers also technical and process quality.

The degree of fulfilment in the respective main criteria group is calculated from the individual results of the criteria. By means of fixed relevance factors, the degree of fulfilment of the five main criteria groups are allocated to the final level of fulfilment and the final score. According to the final degree of fulfilment respectively, the quality standards will result in Gold, Silver or Bronze. The location profiles are evaluated separately without impact on the score.

The BNB is also a quality assurance system for building design, construction, use and operation. It can be used as a checklist, decision support, planning tool and structure for a description of major building components and features.

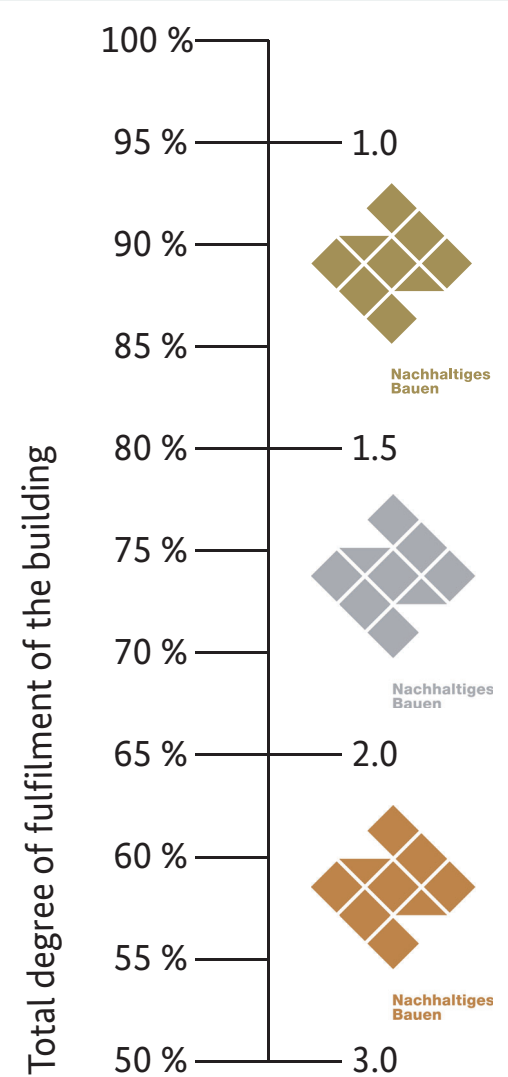
### Objectives

- Protection of common property such as environment, resources, health, culture and capital
- Quality management system for building design, construction, use and operation
- Practical aid for the total life cycle
- Quality assurance and evaluation
- Assessment of ecological, economic, sociocultural qualities, technical and process related issues
- Separate note for location profile
- Transparent rules and objectives, essentially quantitative methods
- Adjustment for specific requirements of different kinds of building categories



For more information visit [www.bnb-nachhaltigesbauen.de](http://www.bnb-nachhaltigesbauen.de)

1. Main Criteria Group: Ecological Quality	Degree of Fulfilment	Weighting 22.5 %	Total degree of fulfilment of the building																	
<b>1. 1. Criteria Group: Effects on Global and Local Environment</b> <table border="1"> <tr> <td>1. 1. 1 Criterion</td> <td rowspan="2">Assessment methodology: Calculation, quality level</td> <td rowspan="2">Qualities: such as quality level 2</td> <td rowspan="2">Conversion in assessment scale: Defined target, reference, and limit values</td> <td rowspan="2">Weighting by means of significance factor: Defined from 1 to 3</td> </tr> <tr> <td>partial criterion 1</td> </tr> <tr> <td>partial criterion 2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1. 1. 2 Criterion</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	1. 1. 1 Criterion	Assessment methodology: Calculation, quality level		Qualities: such as quality level 2	Conversion in assessment scale: Defined target, reference, and limit values	Weighting by means of significance factor: Defined from 1 to 3	partial criterion 1	partial criterion 2					1. 1. 2 Criterion					Based on the main criteria group as the ratio of the achieved and the maximum possible score	Fixed weighting of the result of the main criteria group for the overall score	90 %
1. 1. 1 Criterion	Assessment methodology: Calculation, quality level						Qualities: such as quality level 2	Conversion in assessment scale: Defined target, reference, and limit values	Weighting by means of significance factor: Defined from 1 to 3											
partial criterion 1																				
partial criterion 2																				
1. 1. 2 Criterion																				
2. Main Criteria Group: Economic Quality	Degree of Fulfilment	Weighting 22.5 %	85 %																	
3. Main Criteria Group: Sociocultural and Functional Quality	Degree of Fulfilment	Weighting 22.5 %	75 %																	
4. Main Criteria Group: Technical Quality	Degree of Fulfilment	Weighting 22.5 %	60 %																	
5. Main Criteria Group: Process Quality	Degree of Fulfilment	Weighting 10.0 %	55 %																	
Location Profile	Degree of Fulfilment	Weighting 0 %	50 %																	



Degree of Fulfilment Location Profile (informative)