

CERTIFICATION TYPES

List of building types and types of use

The QNG-PLUS and QNG-PREMIUM Certifications are state certifications for buildings. The prerequisites for QNG-PLUS and QNG-PREMIUM Certification is the provision of evidence that verifies a building's compliance with all of the associated general and special environmental, sociocultural and economic quality requirements, and of the quality of the planning and building processes on the basis of an independent assessment. Depending on the specific use case based on the type of building, type of use and type of building measure (e.g. new building), buildings will be awarded a specific Certification type if all of the relevant prerequisites and requirements for that type are met. The current Certification types are listed in this annex (Annex 1) to the Manual for the QNG Sustainable Building Certification.

Important information on the relevant valid version:

Please note: These certification specifications are regularly reviewed and, for certification purposes, always apply only in the version valid at the time a request or an application for certification is submitted to a certification body or at the time an application for government funding is granted. The regulations and requirements of previous or subsequent versions are not relevant to applicants and consequently do not have any bearing on their application's success.

The date on which the relevant versions take effect and their version numbers are listed in the following table:

| Version number | Date it takes effect |
|-----------------------|-----------------------------|
| 1.0 | 08.06.2021 |
| 1.1 | 20.04.2022 |
| 1.2 | 01.01.2023 |
| 1.3 | 01.03.2023 |
| 1.4 | 27.07.2023 |
| 1.5 | 19.07.2024 |

The version presented here is always the current version of Annex 1. To avoid confusion, the preceding versions are always deleted. For this reason, we recommend that applicants, system providers and certification bodies save the version of this Annex that is relevant for their respective QNG certification.

ANNEX 1

to the Manual for the QNG Sustainable Building Certification, Version from: 19.07.2024



Table of contents

| | |
|---|---|
| CERTIFICATION TYPES List of building types and types of use | 1 |
| Important information on the relevant valid version:..... | 1 |
| 1. Certification types | 3 |
| 2. Supplementary regulations | 3 |
| 3. LCA classes for non-residential buildings | 4 |
| 4. Changes made to the previous version | 9 |

1. Certification types

| Certification type | Use case (application) | | | Validity | | Comment | |
|--------------------|-------------------------------------|-----------|------------------------|-----------------------|------------|------------|---|
| | Type of use | New build | Complete refurbishment | Partial refurbishment | from | | until |
| QNG-KN21 | Residential buildings | X | | | 08.06.2021 | 31.12.2022 | Certification type for residential buildings with up to 5 residential units |
| QNG-WN21 | Residential building | X | | | 08.06.2021 | 31.12.2022 | Certification type for residential buildings of all sizes |
| QNG-BN22 | Office and administration buildings | X | | | 20.04.2022 | 31.12.2022 | |
| QNG-BK22 | Office and administration buildings | | X | | 20.04.2022 | 31.12.2022 | |
| QNG-UN22 | Education buildings | X | | | 20.04.2022 | 31.12.2022 | |
| QNG-UK22 | Education buildings | | X | | 20.04.2022 | 31.12.2022 | |
| QNG-WG23 | Residential buildings | X | X | | 01.01.2023 | | Replaces KN21 and WN21 from 01.01.2023 |
| QNG-NW23 | Non-residential buildings | X | X | | 01.01.2023 | | Replaces BN22, BK22, UN22 and UK22 from 01.01.2023 |

Table 1: Overview of QNG Certification types¹

2. Supplementary regulations

2.1.1. The QNG Certifications can only be used for buildings that, following their completion, fall within the scope of the current version of the German Buildings Energy Act (GEG).

2.1.2. The building to be assessed has to be classed as a residential building if it is a residential building in accordance with Section 3(1)(33) GEG.

2.1.3. The building to be assessed has to be classed as a non-residential building if it does not qualify as a residential building.

2.1.4. The building to be assessed has to be classed as an office and administration building if it is a non-residential building that is primarily used as an office and administration building.

¹ Please refer to the QNG website for a definition of the Certification types

ANNEX 1

to the Manual for the QNG Sustainable Building Certification, Version from: 19.07.2024



- 2.1.5. The building to be assessed has to be classed as an educational building if it is a non-residential building that is primarily used as a childcare facility (nursery, kindergarten, daycare), school and/or education facility.
- 2.1.6. If a residential building contains rooms that are not designed for residential purposes, it can also be treated as a non-residential building within the scope of the QNG Certification system.
- 2.1.7. The Certification type QNG-NW23 must only be used for buildings that can be assigned to a LCA class in accordance with 3.1 / 3.2.
- 2.1.8. The QNG's applicability to mixed-use buildings primarily depends on the rules of the registered assessment systems.

3. LCA classes for non-residential buildings

3.1 LCA class assignments

- 3.1.1. In order to determine whether non-residential buildings meet the QNG building typology criteria, i.e. the required QNG LCA value (Life Cycle Analysis value), they are assigned to different LCA classes. These assignments are based on the August 2021 version of the Building Typology Brochure (Bauwerkszuordnungskatalog) published by the Network for Economic Building - Cost Planning on behalf of the Committee for State Building Construction (ASH). The Building Typology Brochure is available on the website of the Conference of Construction Ministers (Bauministerkonferenz) under www.bauministerkonferenz.de (Home page / Public area / Planning guides / Economic building (Cost planning) / Building Typology Brochure (BWZ)).
- 3.1.2. The building (single use) has to be assigned a BWZ number with the aid of the Building Typology Brochure. Mixed-use buildings have to be assigned BWZ numbers for all of their uses.
- 3.1.3. Using table 2, the BWZ numbers have to be used to determine the LCA classes for all of the different types of uses of a building and to determine the percentage of space they occupy relative to the building's total space.
- 3.1.4. If it is not possible to assign a LCA class to an individual use, it will not be possible to assign an LCA class to the entire building. These instances are shown with "no LCA class" in table 2.

3.2 LCA classes

| Types of building and types of use | | LCA class |
|------------------------------------|--|-----------|
| BWZ no. | BWZ name | |
| 1100 | Parliament buildings | K1 |
| 1200 | Court houses | K1 |
| 1300 | Administration buildings, with the exception of BWZ 1370 | K1 |
| 1370 | Data centres | K2 |
| 2100 | Education buildings, with the exception of BWZ 2210 | K1 |
| 2210 | Lecture hall buildings | K3 |
| 2200 | Buildings for scientific education and research | K2 |
| 2300 | Buildings for scientific education and research - high and ultra-high-installation | K2 |
| 2400 | Buildings for research without education | K2 |
| 2500 | Laboratory buildings | K2 |

ANNEX 1

to the Manual for the QNG Sustainable Building Certification, Version from: 19.07.2024



| Types of building and types of use | | LCA class |
|------------------------------------|---|--------------|
| BWZ no. | BWZ name | |
| 2600 | Military testing buildings and facilities | K2 |
| 3100 | University hospitals (with research and education) | |
| 3110 | University hospitals | K3 |
| 3120 | Buildings for somatic health care | K1 |
| 3130 | Buildings special requirements | K2 |
| 3140 | Buildings for psychiatric and psychosomatic health care | K1 |
| 3200 | Hospitals (without research and education) | |
| 3210 | Hospitals | K3 |
| 3220 | Buildings for somatic health care | K1 |
| 3230 | Buildings special requirements | K2 |
| 3240 | Buildings for psychiatric and psychosomatic health care | K1 |
| 3250 | Forensics (Forensic psychiatry) | K2 |
| 3300 | Buildings for day patient care | K1 |
| 3400 | Buildings for outpatient care | K1 |
| 3500 | Military medical services, with the exception of BWZ 3510 Military hospitals | K1 |
| 3510 | Military hospitals | K3 |
| 3600 | Nursing homes (according to Section 33 GEG, nursing homes are residential buildings) | K1 |
| 3700 | Rehabilitation centres (Reha) | K1 |
| 3800 | Wellness resort and health resorts, with the exception of BWZ 3820 Spas and salt water spas | K1 |
| 3820 | Spas and salt water spas | K3 |
| 4100 | General education schools | K1 |
| 4200 | Vocational education institutions | K1 |
| 4300 | Education facilities | K1 |
| 4400 | Childcare facilities | K1 |
| 4500 | Libraries/archives | K1 |
| 4600 | Exhibition buildings | |
| 4610 | Museums | K2 |
| 4620 | Museums with special requirements | K3 |
| 4700 | Event buildings | |
| 4710 | Event buildings | K2 |
| 4711 | Community centres up to 200m2 | K1 |
| 4720 | Event buildings with conference and/or multimedia equipment | K2 |
| 4730 | Visitor/information centres | K2 |
| 4740 | Multi-purpose halls | K5 |
| 4800 | Sacred buildings | no LCA class |
| 4900 | Historic buildings/memorials | no LCA class |
| 5100 | Sports centres | K5 |
| 5200 | Swimming pools, with the exception of BWZ 5240 Sauna buildings | K3 |

ANNEX 1

to the Manual for the QNG Sustainable Building Certification, Version from: 19.07.2024



| Types of building and types of use | | LCA class |
|------------------------------------|---|--------------|
| BWZ no. | BWZ name | |
| 5240 | Sauna buildings | K2 |
| 5300 | Special sports and training facilities | no LCA class |
| 5310 | Bowling alleys | K1 |
| 5320 | Indoor shooting ranges | K3 |
| 5330 | Indoor riding arenas | no LCA class |
| 5340 | Ice rinks | K5 |
| 5350 | Tennis halls | K5 |
| 5360 | Sport training centres | K1 |
| 5370 | Climbing halls | K5 |
| 5400 | Buildings for outdoor sports facilities, with the exception of BWZ 5420 | K1 |
| | Grandstands | |
| 5420 | Grandstands | no LCA class |
| 5500 | Outdoor sports facilities | no LCA class |
| 6100 | Residential buildings | K6 |
| 6200 | Residential units (according to Section 33 GEG, residential units are residential buildings) | K1 |
| 6300 | Shared accommodation (according to Section 33 GEG, shared accommodation is residential buildings) | K1 |
| 6400 | Lodgings | K1 |
| 6500 | Law enforcement-related accommodation | K1 |
| 6600 | Care facilities | K1 |
| 6700 | Catering facilities | |
| 6710 | Public houses/restaurants | K1 |
| 6720 | Cafeterias/canteens | K2 |
| 6730 | Canteen buildings with additional facilities | K2 |
| 6740 | Service stations | K1 |
| 6750 | Military service buildings (all sizes) | K1 |
| 6760 | Military service buildings and care facilities | K1 |
| 6770 | Law enforcement catering facilities | K2 |
| 7100 | Production/processing facilities | K4 |
| 7200 | Buildings for animal and plant housing and care | K2 |
| 7300 | Buildings for storage, with the exception of BWZ 7320 Closed storage facilities | no LCA class |
| 7320 | Closed storage facilities | K4 |
| 7400 | Sales premises | K1 |
| 7500 | Workshops | K2 |
| 7600 | Buildings for parking vehicles | no LCA class |
| 7700 | Emergency services stations | K1 |
| 7800 | Central service buildings/central supply and disposal | |
| 7810 | Central service buildings (various functions) | K1 |

ANNEX 1

to the Manual for the QNG Sustainable Building Certification, Version from: 19.07.2024



| Types of building and types of use | | LCA class |
|------------------------------------|--|--------------|
| BWZ no. | BWZ name | |
| 7820 | Central pharmacies | K2 |
| 7830 | Central kitchens (without dining hall) | K3 |
| 7840 | Central laundries | K3 |
| 7850 | Central material supply/logistics | K1 |
| 7860 | Central sterilisation | K3 |
| 7900 | Business incubator and technology centres | K1 |
| 8100 | Energy production facilities | no LCA class |
| 8200 | Buildings for guidance, control, monitoring and communication | |
| 8210 | Operating buildings for technical public facilities | K1 |
| 8220 | Radio transmitting and receiving facilities | no LCA class |
| 8230 | Switching centres, cable houses | no LCA class |
| 8240 | Railway control centres | K1 |
| 8250 | Monitoring stations | K1 |
| 8260 | Weighing houses | no LCA class |
| 8270 | Military conveying systems (cable car stations) | no LCA class |
| 8280 | Tower-like buildings | no LCA class |
| 8300 | Buildings for the distribution of electrical energy, heating, cooling, gas and oil | no LCA class |
| 8400 | Buildings and facilities for supplying water | no LCA class |
| 8500 | Buildings and facilities for waste water treatment (sewage and rain water) | no LCA class |
| 8600 | Buildings for waste treatment | no LCA class |
| 9100 | Buildings for traffic facilities | K2 |
| 9200 | Guard houses | K1 |
| 9300 | Cemetery buildings | no LCA class |
| 9400 | Protective structures, enclosures, special structures | no LCA class |
| 9500 | Buildings with outdoor facilities | no LCA class |
| 9600 | Hydraulic structures, port facilities | no LCA class |
| 9700 | Civilian buildings abroad | |
| 9710 | Diplomatic missions | K2 |
| 9720 | Cultural and scientific facilities abroad | K2 |
| 9730 | Schools abroad | K1 |
| 9740 | Kindergartens abroad | K1 |
| 9750 | Official housing/residences (buildings) abroad | K2 |
| 9760 | Guardhouse (Foreign Office agencies abroad) | K2 |
| 9800 | Military buildings abroad | no LCA class |

Table 2: LCA classes in accordance with the Building Typology Brochure (BWZ)

ANNEX 1

to the Manual for the QNG Sustainable Building Certification, Version from: 19.07.2024



3.3 Examples for establishing LCA classes

Examples for single-use buildings:

- **Office building:**
 - BWZ: 1320 Administration building
 - LCA classes in accordance with table 2:
 - Offices with BWZ 1320 = K1 with 100 % building use
 - **LCA class of the building: K1-100**
Explanation: In table 2, the LCA class for building type BWZ 1320 is 1. Hence, the percentage of use of K1 is 100 % (K1-100).

- **Football pitch:**
 - BWZ: 5510 Outdoor sports facilities
 - LCA classes in accordance with table 2:
 - Football pitch with BWZ 5510 = no LCA class
 - **LCA class of the building: no LCA class**
Explanation: In table 2, building types BWZ 5500 and 5510 do not have any LCA classes. This means that this building cannot be assigned a LCA class.

Examples for multi-use buildings:

- **Building with a daycare centre on the ground floor (500 m²) and offices (1500 m²) on the 1st to 3rd floors:**
 - BWZ:
 - Daycare centre: 4410 Daycare centres
 - Offices: 1320 Administration building
 - LCA classes in accordance with table 2:
 - Office use with BWZ 1320 = K1 with 75 % building use
 - Daycare centres with BWZ 4410 = K1 with 25 % building use
 - **LCA class of the building: K1-100**
Explanation: In table 2, the LCA class for both of these BWZ is 1. Hence, the percentage of use of K1 is 100 % (K1-100).

- **Building with a riding arena on the ground floor (1200 m²) and offices on the 1st floor (120 m²)**
 - BWZ:
 - Riding arena: 5330 Indoor riding arenas
 - Offices: 1320 Administration building
 - LCA classes in accordance with table 2:
 - Offices with BWZ 1320 = K1 with 10 % building use
 - Riding arenas with BWZ 5330 = no LCA class with 90 % building use
 - **LCA class of the building: no LCA class**
Explanation: In table 2, building type BWZ 5330 does not have a LCA class. This means that this building cannot be assigned a LCA class.

- **Building with a daycare centre on the ground floor (170 m²) and residential units (1600 m²) on the 1st to 3rd floors:**
 - BWZ:

ANNEX 1

to the Manual for the QNG Sustainable Building Certification, Version from: 19.07.2024



- Daycare centre: 4410 Daycare centres
- Residential units: 6120 Apartment blocks
- LCA classes in accordance with table 2:
 - Apartment blocks with BWZ 6120 = K6 with 90 % building use
 - Daycare centres with BWZ 4410 = K1 with 10 % building use
- **LCA class of the building: K6**

Explanation: If a residential building contains special use/commercial areas that need to be assessed with a different energy zoning system than that used for residential buildings when calculating the building's final energy demand in accordance with the GEG, the energy zoning system for residential use may be applied to both areas when calculating the total in order to ensure benchmark comparability. In this event, it will be necessary to perform a separate demand calculation for the QNG Certification in addition to the GEG calculation (cf. annexed document 3.1.1 “QNG energy accounting rules for residential buildings”).

4. Changes made to the previous version

| Date | Page | Change |
|------------|-------------|--|
| 01.03.2023 | | Addition of LCA classes K2 to K6 to table 2 |
| 04.05.2023 | 5 | Correction of BWZ name for BWZ No. 4500: Vocational education institutions – new: Libraries/archives |
| 27.07.2023 | 8 | Updating of examples: |
| 19.07.2024 | All 4, 8 | Updating of the QNG logo Addition to mixed-use |