

RELEVANT PRODUCT CERTIFICATES FOR BUILDING CERTIFICATION (WITH MATRIX)

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1. BUILDING CERTIFICATION

1.1. WHAT IS A BUILDING CERTIFICATION ¹?

Building certification was first developed in 1990 under the name BREEAM. Building certification is an official confirmation that a building fulfils certain standards in terms of sustainability, energy efficiency and environmental friendliness.

1.2. WHICH BUILDING CERTIFICATIONS ARE AVAILABLE?

There is a wide variety of building certifications, but the following certifications are particularly relevant and highly recognised in Europe.

- DGNB
- BNB
- LEED
- BREEAM

1.3. ADVANTAGES OF BUILDING CERTIFICATION²

Building certification can offer many advantages, including:

Financial benefits

- average 7% increase in value through certification
- on average 7 years until amortisation of the investment in building certification

Savings in operating costs

A structured approach to the planning and construction of a certified building in terms of sustainability and economy leads to savings in various areas that cannot be achieved without building certification.

- approx. 26 % less energy consumption
- approx. 33 % less CO² emissions
- approx. 40 % less water consumption
- approx. 13 % less maintenance costs

Risk minimisation

Early certification and implementation of the recommended measures can protect against follow-up costs arising from new government requirements.

¹ <https://hagergroup.com/de/blog/nachhaltigkeit/zertifizierungen-nachhaltiges-bauen> 29.01.2024

² <https://reving.de/vorteile/> 29.01.2024

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Building market value

Society's growing environmental awareness and, above all, the visible effects of climate change are leading to a trend reversal in favour of sustainable products.

Studies show that tenants and buyers are prepared to invest more money in certified, sustainably constructed buildings.³

Improved image

Certified buildings not only increase the market value, but also the image. Due to the high demand for environmentally friendly and sustainable solutions, certification is extremely important.

1.4. WHICH CATEGORIES / CRITERIA MUST BE FULFILLED?

Individual factors differ depending on the certification. The basic conditions are always comparable. All certification procedures assess the following factors, among others⁴:

- Infrastructural integration of the location
- Property qualities
- Water efficiency
- Energy and global environmental impacts
- Material cycles and resource conservation
- Indoor air quality
- Innovations
- Additional certification points for locations of particular importance

³ https://www.haufe.de/immobilien/investment/esg-nachhaltigkeitszertifikate-steigern-immobilienwerte_256_552740.html 29.01.2024

⁴ <https://hagergroup.com/de/blog/nachhaltigkeit/zertifizierungen-nachhaltiges-bauen> 29.01.2024

2. DGNB

2.1. GENERAL INFORMATION ABOUT DGNB

Headquarter:	Deutsche Gesellschaft für Nachhaltiges Bauen e.V DGNB GmbH Tübinger Straße 43 70178 Stuttgart
Market launch:	2008
Homepage:	www.dgnb.de ; www.dgnb-system.de

2.2. SYSTEM DESCRIPTION⁵

The system of the German Sustainable Building Council was developed in 2007 and subsequently published nationally and internationally in 2008. The certification system, which is assessed on the basis of the DIN standard, focuses on the three pillars of sustainability (ecological, economic and socio-cultural quality). Adaptation to international standards is also possible.

2.3. FACTS AND FIGURES⁶

The association was founded in 2007 by 40 organisations from the construction and property industry. To date, more than 500 properties have been certified internationally and over 250 properties have been pre-certified, and the organisation already has over 1,200 members worldwide. In Germany, the DGNB's market share for the certification of sustainable new buildings is over 80 %.⁷

2.4. CATEGORIES / CRITERIA / WEIGHTING⁸

Category: Effects on global and local environment

- Criteria Life cycle assessment of the building / Risks for the local environment / Responsible resource extraction
- Weighting Category component of ecological quality
The weighting is 22.5 %.

Category: Resource utilisation and waste generation

- Criteria Drinking water demand and wastewater generation / Land use / Biodiversity on site
- Weighting Category component of ecological quality
The weighting is 22.5 %.

⁵ <https://www.schueco.com/de/nachhaltigkeit/zertifizierungen/gebäudezertifizierungen> 29.01.2024

⁶ <https://www.schueco.com/de/nachhaltigkeit/zertifizierungen/gebäudezertifizierungen> 29.01.2024

⁷ <https://www.dgnb.de/de/dgnb/ueber-die-dgnb/dgnb-in-zahlen> 29.01.2024

⁸ <https://www.dgnb.de/de/zertifizierung/das-wichtigste-zur-dgnb-zertifizierung/kriterien> 29.01.2024

Category: Life cycle costs

- Criteria Building-related costs in the life cycle
- Weighting Category component of economic quality
The weighting is 22.5 %.

Category: Value development

- Criteria Flexibility Convertibility / Marketability
- Weighting Category component of economic quality
The weighting is 22.5 %.

Category: Health, comfort and user satisfaction

- Criteria Thermal comfort / Indoor air quality / Acoustic comfort / Visual comfort / User influence / Indoor and outdoor living qualities / Safety / Accessibility
- Weighting Category component of socio-cultural and functional quality
The weighting is 22.5 %.

Category: Quality of technical execution

- Criteria Sound insulation / Quality of the building envelope / Use and integration of building technology / Ease of cleaning the building structure / Ease of dismantling and recycling / Emission control / Mobility infrastructure
- Weighting Category component of the quality of the technical design
The weighting is 15 %.

Category: Quality of planning

- Criteria Quality of project preparation / Ensuring sustainability aspects in tendering and awarding / Documentation for sustainable management / Procedure for urban planning and Design conception
- Weighting Category component of process quality
The weighting is 12,5 %.

Category: Quality of construction

- Criteria Construction site / Construction process / Quality assurance of construction / Orderly commissioning / User communication / Facility management-compliant planning
- Weighting Category component of process quality
The weighting is 12,5 %.

Category: Location quality

- Criteria Micro-location / appeal and influence on the neighbourhood / transport connections / proximity to properties and facilities relevant to use
- Weighting Category component of location quality
The weighting is 5 %.

2.5. SUPPORTING CRITERIA THROUGH PFLEIDERER PRODUCTS

Based on analyses by Pfleiderer product management, Pfleiderer products support the following DGNB building certification criteria:

Responsible resource extraction / Marketability / Thermal comfort / Indoor air quality / Acoustic comfort / Visual comfort / User influence / Quality of stay inside and outside / Sound insulation / Quality of the building envelope / Use and integration of building technology / Ease of cleaning the building structure / Emission control / Mobility infrastructure / Ensuring sustainability aspects in the tendering and awarding process

2.6. LEVELS OF CERTIFICATION⁹

- Bronze (only for existing buildings) > 35%
- Silver > 50% (minimum fulfilment level 35% per category)
- Gold > 65% (minimum fulfilment level 50% per category)
- Platinum \geq 80% (minimum fulfilment level 65% per category)

2.7. MASS DETERMINATION OF BUILDING MATERIALS¹⁰

In order to correctly assess the influence of building products in the DGNB System, the DGNB carries out a project-based assessment. This means that the certification system is designed to assess products in the context of construction rather than focussing on the sustainability of individual products. Individual measures are not assessed, but rather the effects in the overall context, in relation to the entire life cycle, the actual performance of the building project.

⁹ <https://www.dgnb.de/de/zertifizierung/das-wichtigste-zur-dgnb-zertifizierung/kriterien> 29.01.2024

¹⁰ Information des DGNB Navigator Teams vom 23.11.2023

3. BNB

3.1. GENERAL INFORMATION ABOUT BNB

Headquarter:	Bewertungssystem Nachhaltiges Bauen Bundesministerium für Umwelt, Naturschutz, Bau und Reaktorsicherheit (BMUB) Referat Bauingenieurwesen, Nachhaltiges Bauen, Bauforschung 10055 Berlin
Market launch:	2009 (binding application for federal construction measures since 2011)
Homepage:	www.bnb-nachhaltigesbauen.de

3.2. SYSTEM DESCRIPTION¹¹

The German Assessment System for Sustainable Building was developed in 2009 by the Federal Institute for Research on Building, Urban Affairs and Spatial Development (BBSR) in cooperation with the German Sustainable Building Council (DGNB). The BNB certification was developed specifically for the requirements of state "federal buildings". The system focuses on the three pillars of sustainability (ecological, economic and socio-cultural quality) and is based on the DIN standard.

3.3. FACTS AND FIGURES¹²

To date, 24 buildings have been assessed according to the BNB system. Since 2011, it has been mandatory for the planning process of national office and administrative buildings. The method is characterised by the comprehensive consideration of the entire life cycle of buildings - taking into account the ecological, economic and socio-cultural quality as well as the technical and procedural aspects. Within the requirements of the system, developments in the field of standardisation for sustainable building are reflected and go beyond this.

3.4. CATEGORIES / CRITERIA / WEIGHTING¹³

Category: Ecological quality

- Weighting The weighting is 22.5 %.

Category: Economic quality

- Weighting The weighting is 22.5 %.

¹¹ <https://www.schueco.com/de/nachhaltigkeit/zertifizierungen/gebäudezertifizierungen> 29.01.2024

¹² <https://www.schueco.com/de/nachhaltigkeit/zertifizierungen/gebäudezertifizierungen> 29.01.2024

¹³ <https://www.bnb-nachhaltigesbauen.de/> 29.01.2024

Category: Sociocultural and functional quality

- Weighting The weighting is 22.5 %.

Category: Technical quality

- Weighting The weighting is 22.5 %.

Category: Process quality

- Weighting The weighting is 10 %.

Category: Location quality

- Weighting The weighting is evaluated separately

3.5. SUPPORTING CRITERIA THROUGH PFLEIDERER PRODUCTS

Based on analyses by Pfeiderer product management, Pfeiderer products support the following criteria of BNB building certification analogous to DGNB:
 Responsible resource extraction / Marketability / Thermal comfort / Indoor air quality / Acoustic comfort / Visual comfort / User influence / Indoor and outdoor living qualities / Sound insulation / Quality of the building envelope / Use and integration of building technology / Ease of cleaning the building structure / Emission control / Mobility infrastructure / Ensuring sustainability aspects in the tendering and awarding process

5.6. CERTIFICATION LEVELS¹⁴

- Bronze > 50 %
- Silver ≥ 65 %
- Gold ≥ 80 %

3.7. MASS DETERMINATION OF BUILDING MATERIALS

There is no information on mass determination. As the requirements for the sustainability of buildings are based on those of the German Sustainable Building Council (DGNB), the massing is assessed in the context of the building.

¹⁴ <https://www.bnb-nachhaltigesbauen.de> 29.01.2024

4. LEED

4.1. GENERAL INFORMATION ABOUT LEED

Headquarter: Leadership in Energy and Environmental Design
2101 L Street, NW
Washington, DC 20037, USA

Market launch: 1998

Homepage: <http://www.usgbc.org/leed>

4.2. SYSTEM DESCRIPTION¹⁵

The American LEED system was developed by the U.S. Green Building Council (USGBC) in 1998 and introduced to the national and international market in the same year. The system focuses on energy. LEED is the most widely used certification system worldwide. Adaptation to international standards is also possible.

4.3. FACTS AND FIGURES¹⁶

To date, more than 84,000 properties have been certified or registered internationally under the LEED system. The so-called "International Round Table" of the USGBC currently consists of 38 country representatives who serve as contacts around the world. The latest version, LEED v4, was published in November 2013. The previous version LEED 2009 was valid up to and including October 2016.

4.4. CATEGORIES / CRITERIA / WEIGHTING¹⁷

Category: Location and transport

- Criteria Neighbourhood development / Sensitive land protection / High priority location / Building density and service facility / Access to quality transport network / Bicycle parking / Reduced parking area / Environmentally friendly vehicles
- Weighting The weighting is 16 points.

¹⁵ <https://www.usgbc.org/leed> 29.01.2024

¹⁶ <https://www.schueco.com/de/nachhaltigkeit/zertifizierungen/gebäudezertifizierungen> 29.01.2024

¹⁷ <https://www.usgbc.org/resources/leed-v4-building-design-and-construction-ballot-version> 29.01.2024

Category: Sustainable locations

- **Criteria** Prevention of pollution from construction activity / Environmental impact assessment / Site assessment / Site development - protect or restore habitat / Open space / Stormwater management / Heat island reduction / Light pollution reduction / Local development plan / Design and construction guidelines for tenants / Quiet space / Direct outdoor access / Shared use of facilities
- **Weighting** The weighting is 10 points.

Category: Water efficiency

- **Criteria** Reduction of outdoor water consumption / reduction of indoor water consumption / cooling tower water consumption
- **Weighting** The weighting is 11 points.

Category: Energy and atmosphere

- **Criteria** Basic commissioning and testing / Minimum energy performance / Energy measurement at building level / Basic refrigerant management / Improved commissioning / Optimise energy performance / Improved energy measurement / Demand-side management / Generation of renewable energy / Improved refrigerant management / Green electricity and carbon offsetting
- **Weighting** The weighting is 33 points.

Category: Materials and resources

- **Criteria** Storage and collection of recyclables / Construction and demolition waste management planning / Waste prevention-oriented PBT¹⁸ material purchasing - mercury, lead, cadmium and copper / Reducing the lifetime impact on buildings / Disclosure and optimisation for building products - Sourcing of raw materials and material components / Environmental certification of products / Furniture and medical furniture / Design for flexibility
- **Weighting** The weighting is 13 points.

Category: Indoor environmental quality

- **Criteria** Minimum indoor air quality performance / Ambient tobacco smoke control / Minimum acoustic performance / Strategies for improved indoor air quality / Low-emitting materials / Indoor air quality management plan, construction / Indoor air quality assessment / Thermal comfort / Indoor lighting / Daylighting / Quality view / Acoustic performance
- **Weighting** The weighting is 16 points.

¹⁸ <https://www.gesi.de/blog/2023/05/22/neue-einstufung-pbt-und-vpvb/>: PBT-Stoffe sind persistente, bioakkumulierende und toxische Stoffe, die eine langfristige Gefahr für Mensch und Umwelt darstellen können. 29.01.2024

Category: Innovation

- Criteria Innovation in design / LEED-certified professional
- Weighting The weighting is 6 points.

4.5. SUPPORTING CRITERIA THROUGH PFLEIDERER PRODUCTS

Based on analyses by Pfleiderer product management, Pfleiderer products support the following LEED building certification criteria:

Environmental certification of products / Strategies for improved indoor air quality / Low-emission materials / Furniture and medical furniture / Innovation in design

4.6. LEVELS OF CERTIFICATION¹⁹

- Certificated > 40 points
- Silver > 50 points
- Gold > 60 points
- Platinum > 80 points

4.7. MASS DETERMINATION OF BUILDING MATERIALS

There are no precise specifications for determining the mass of the building materials used. However, most building certifications are not concerned with looking at the individual products, but with how they affect the sustainability and quality of the building in combination with other components.

¹⁹ <https://www.schueco.com/de/nachhaltigkeit/zertifizierungen/gebaeudezertifizierungen> 29.01.2024

5. BREEAM²⁰

5.1. GENERAL INFORMATION ABOUT BREEAM

Headquarter:	Building Research Establishment Environmental Assessment Method & BRE Global Ltd. Bucknalls Lane London Watford WD25 9XX, Great Britain
Market launch:	1990 in Great Britain 1998 International
Homepage:	www.breeam.org ; www.bre.co.uk

5.2. SYSTEM DESCRIPTION

The British BREEAM system was introduced to the UK by the Building Research Establishment (BRE) in 1990 and to the international market in 1998. The system focuses on the environmental impact of buildings, which are assessed on the basis of British Standards. Adaptation to international standards is also possible.

5.3. FACTS AND FIGURES

Since its market launch, more than 2.2 million buildings have been registered and over 530,000 certified. The system is currently available in 71 countries through the individual country representatives. Depending on the utilisation profile, there are various minimum requirements that must be met for certification.

5.4. CATEGORIES / CRITERIA / WEIGHTING

Category: Management

- Weighting The weighting is 12 %.

Category: Health and wellbeing

- Weighting The weighting is 15 %.

Category: Energie

- Weighting The weighting is 19 %.

Category: Transport

- Weighting The weighting is 8 %.

²⁰ <https://www.schueco.com/de/nachhaltigkeit/zertifizierungen/gebäudezertifizierungen> 29.01.2024

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Category: Water

- Weighting The weighting is 6 %.

Category: Materials

- Weighting The weighting is 12.5 %.

Category: Rubbish

- Weighting The weighting is 7.5 %.

Category: Land use and ecology

- Weighting The weighting is 10 %.

Category: Pollution

- Weighting The weighting is 10 %.

Category: Innovation

- The weighting is evaluated separately.

5.5. SUPPORTING CRITERIA THROUGH PFLEIDERER PRODUCTS

Based on analyses by Pfleiderer product management, Pfleiderer products support the following BREEAM building certification criteria:
Health and well-being / Materials / Waste / Pollution

5.6. LEVELS OF CERTIFICATION²¹

- | | |
|------------------|-------|
| • Not classified | < 30% |
| • Passed | > 30% |
| • Good | > 45% |
| • Very good | > 55% |
| • Excellent | > 70% |
| • Outstanding | > 85% |

5.7. MASS DETERMINATION OF BUILDING MATERIALS

There are no precise specifications for determining the mass of the building materials used. However, most building certification are not concerned with looking at the individual products, but with how they affect the sustainability and quality of the building in combination with other components.

²¹ www.breeam.org 29.01.2024

6. PFLEIDERER PRODUCTS AND CERTIFICATIONS

The following matrix provides an overview of the Pfleiderer product range of HPL / HPL elements and relevant product certifications as well as the selected building certifications BNB, BREEAM, DGNB and LEED. The Pfleiderer product certifications prove the sustainability, quality and environmental friendliness of the products.

The matrix is intended to provide guidance on which product certifications of the required product provide support for the building certification desired by the customer.

Pfleiderer does not issue building certifications, but can only provide support in the fulfilment of individual criteria.

Product	Certifications	EPD	BLUE ANGEL	FSC	PEFC	Cradle to Cradle	Certification - antimicrobial 99% / 24 h1	Certification - antimicrobial 99% / 7 h - antiviral 99% / 24 h1	Certification CE UKCA abZ aBG2
Relevant for the following building certifications		BNB, BREEAM, DGNB, LEED	BNB, BREEAM, DGNB, LEED	BNB, BREEAM, DGNB, LEED	BNB, BREEAM, DGNB, LEED	BNB, DGNB	Supplementary information	Supplementary information	Supplementary information
HPL									
Duropal HPL		x	x	x	x	-	x	-	-
Duropal HPL Individual Motiv		x	x	x	x	-	x	-	-
Duropal XTreme plus		x	x	x	x	-	-	-	-
Duropal XTreme		x	x	x	x	-	-	-	-
Duropal XTreme Touch		x	x	x	x	-	-	-	-
Duropal HPL Pyroex		x	-	x	x	-	x	-	-
Duropal HPL Individual Motiv Pyroex		x	-	x	x	-	x	-	-
Duropal SolidColor		x	-	x	x	-	-	-	-
Duropal HPL Magnet		x	-	x	x	-	-	x	-
Duropal HPL microPLUS®		x	-	x	x	-	-	x	-
Duropal SolidColor XTreme		x	-	x	x	-	-	-	-
Duropal HPL Real Metal		x	-	x	x	-	-	-	-
HPL COMPACT INTERIOR									
Duropal HPL Compact, black core		x	x	x	x	-	x	-	x
Duropal HPL Compact Individual Motiv, black core		x	x	x	x	-	x	-	x
Duropal Compact XTreme plus, black core		x	x	x	x	-	x	-	-
Duropal HPL Compact, grey / white core		x	x	x	x	-	x	-	-
Duropal Compact XTreme plus, grey / white core		x	x	x	x	-	x	-	-
Duropal HPL Compact Pyroex, black core		x	-	x	x	-	x	-	x
Duropal flameprotect compact		x	-	-	-	-	x	-	x
Duropal HPL Compact microPLUS®, black core		x	-	x	x	-	-	x	x
Duropal HPL Compact microPLUS®, grey / white core		x	-	x	x	-	-	x	-
HPL COMPACT EXTERIOR									
Duropal XTerior compact - single-sided / double-sided lacquering		-	-	x	x	-	-	-	x
Duropal XTerior compact F - single-sided lacquering		-	-	x	x	-	-	-	x
ELEMENT									
Duropal Element P2 / P3		-	x	x	x	-	x	-	x
Duropal Element Individual Motiv P2		-	x	x	x	-	x	-	x
Duropal Element XTreme plus P2 / P3		-	x	x	x	-	-	-	x
Duropal Element Pyroex		-	x	x	x	-	-	-	x
Duropal Element XTreme P2 / P3		-	x	x	x	-	-	-	x
Duropal Element XTreme Touch P2 / P3		-	x	x	x	-	-	-	x
Duropal Element SolidColor XTreme P2 / P3		-	-	x	x	-	-	-	x
Duropal Element P2 F****		-	-	-	-	-	-	-	-
Duropal Element MDF plus		-	-	x	x	-	x	-	-
Duropal Element SolidColor MDF plus		-	-	x	x	-	x	-	-
Duropal Element XTreme plus MDF plus		-	-	x	x	-	x	-	-
Duropal Element MDF black		-	-	-	-	-	-	-	-
Duropal Element MFP Hybrid		-	-	-	-	-	-	-	-
Duropal Element microPLUS® P2		-	-	x	x	-	-	x	x
Duropal Element Real Metal P2		-	-	-	-	-	-	-	-
Duropal Element XTreme MDF plus		-	-	x	x	-	-	-	-
Duropal Element XTreme Touch MDF plus		-	-	x	x	-	-	-	-
Duropal Element SolidColor XTreme MDF plus		-	-	x	x	-	-	-	-
Duropal Element SolidColor P2 / P3		-	-	-	-	-	-	-	-
Duropal Element Magnet P2		-	-	-	-	-	-	-	-
Duropal Element MDF Pyroex		-	-	x	x	-	x	-	x
Duropal Element Birch Multiplex		-	-	-	-	-	-	-	-
Duropal Element Poplar Veneer		-	-	-	-	-	-	-	-

Product	Certifications	EPD	BLUE ANGEL	FSC	PEFC	Cradle to Cradle	Certification - antimicrobial 99% / 24 h1	Certification - antimicrobial 99% / 7 h - antiviral 99% / 24 h1	Certification CE UKCA abZ aBG2
Relevant for the following building certifications		BNB, BREEAM, DGNB, LEED	BNB, BREEAM, DGNB, LEED	BNB, BREEAM, DGNB, LEED	BNB, BREEAM, DGNB, LEED	BNB, DGNB	Supplementary information	Supplementary information	Supplementary information
WORKTOP									
Duropol Worktop Quadra P2 / Hydrofuge MR									
Duropol Worktop P2, square edge									
Duropol Worktop XTreme plus P2, square edge	-	x	x	x	-	x	-	-	-
Duropol Worktop PerForm P2									
Duropol Worktop PerForm XTreme plus P2									
Duropol Worktop Quadra XTreme P2 / Hydrofuge MR									
Duropol Worktop Quadra XTreme Touch P2 / Hydrofuge MR									
Duropol Worktop Cubix P2 / Hydrofuge MR									
Duropol Worktop XTreme P2, square edge	-	x	x	x	-	-	-	-	-
Duropol Worktop XTreme Touch P2, square edge									
Duropol Worktop PerForm XTreme P2									
Duropol Worktop PerForm XTreme Touch P2									
Duropol Worktop Quadra microPLUS® P2 / Hydrofuge MR									
Duropol Worktop microPLUS® P2, square edge	-	-	x	x	-	-	x	-	-
Duropol Compact Worktop, black / grey / white core	-	x	x	x	-	x	-	-	-
Duropol Compact Worktop XTreme plus, black / grey / white core									
PRIMEBOARD XTREME									
PrimeBoard XTreme P2 / PrimeBoard XTreme P2 CARB2	-	x	x	x	x	-	-	-	x
PrimeBoard XTreme P2 F****	-	-	x	x	x	-	-	-	-
PrimeBoard XTreme P3	-	-	x	x	-	-	-	-	x
PrimeBoard XTreme MDF plus / PrimeBoard XTreme MDF black / PrimeBoard XTreme MDF Black Natural	-	-	x	x	-	-	-	-	-
PrimeBoard XTreme SuperMatt P2 / PrimeBoard XTreme SuperMatt P2 CARB2	-	-	x	x	x	-	-	-	x
PrimeBoard XTreme SuperMatt P2 F****	-	-	x	x	x	-	-	-	-
PrimeBoard XTreme SuperMatt MDF plus	-	-	x	x	-	-	-	-	-

Note:

¹ There are no specific requirements or proofs for antimicrobial or antiviral products in the building certifications. However, these product certifications can support important categories.
² A CE, UKCA, abZ or aBG labelling is not mentioned as a criterion for building certification; this information is provided for information purposes only.

PM HPL / Elements / Lacquered boards

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