eurofins | Product Testing

Specifications
Indoor Air Comfort and Indoor Air Comfort Gold

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Introduction

This document contains the specifications for certification and labelling of construction products, decorative coatings and furniture with the labels Indoor Air Comfort or Indoor Air Comfort Gold.

This certification program is an additional quality tool for improving Indoor Air Quality, providing more security to consumer and to industry. The most efficient tool to ensure continuous low VOC emissions of a product is a combination of product testing, factory production control, and external surveillance of the emission relevant processes and parameters during production.

Eurofins launched the "Indoor Air Comfort" certification scheme that assures manufacturers, retailers and end-users that product quality in terms of emission of volatile organic substances meets the relevant legal and most voluntary requirements for the involved product groups.

The core value of the Indoor Air Comfort certification by Eurofins is:

- Simplifying what is complicated by combining all relevant emissions specifications in use in Europe if certification criteria are fulfilled
- Brand protection by establishing a management tool for monitoring and (if relevant) - for reducing VOC emissions from certified products by external surveillance, in combination with factory production control
- Use of a low emission label for marketing purposes
- Increasing public trust by low limit values and high control intensity (external surveillance and regular re-testing)

The approach of the label is to create a harmonized 'umbrella' standard for various products, combining the mandatory and voluntary emissions requirements in Europe into one single specification. The same methodology and analytical techniques, as specified in international standards, are used in testing procedures for all involved products. This approach is another step towards harmonization and simplification in contrast to earlier, industry or national specific testing methodologies.

You can obtain the Indoor Air Comfort certification for your products upon application. After a successful emissions test there will be a contract as well as an initial audit before granting the certificate. Re-audits and re-testing will follow afterwards.

Galten, January 2026

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1 Scope and Application

This document contains specifications for building materials, decorative coatings and furniture with respect to certification and labelling with the labels Indoor Air Comfort or Indoor Air Comfort Gold.

The following materials are covered:

- Textile flooring,
- Resilient flooring,
- Wood-based flooring and decorative panels,
- Insulation material,
- Suspended (acoustic) ceilings,
- Non wooden panels,
- Installation products,
- Sealants,
- Interior paints and varnishes,
- Resin based liquid applied flooring,
- Wall plaster,
- Wall papers and textile wall coverings,
- Furniture,
- Coatings for floor coverings,
- Wood-based doors and skirting
- Product systems.

For any product which cannot be easily assigned to one of the above groups, an inquiry can be sent to IAC@cpt.eurofinseu.com.

2 Specifications

Classification of a product and issue of a certificate are based on the results of VOC emission testing, plus VOC content for Paints & Coatings and of the audits at the manufacturing sites. The emission test shall be performed after 3 days and after 28 days in a ventilated test chamber following EN 16516 and the specifications in this document. All testing of products must be performed by an ISO/IEC 17025 accredited laboratory. The specific tests parameters with limit values should also be accredited. Parameters without limit values can be outside the scope of accreditation as long as they are conducted with the same level of quality control as the accredited parameters by the test laboratory. Only test reports from Eurofins Product Testing Denmark A/S are accepted.

Abbreviations used in these specifications are listed in Annex III.

3 Emission Testing

3.1 Taking a Sample

Determination of emission behavior shall be performed on freshly produced material at the earliest point of time when the product is ready for dispatch or application - this date may include essential storage periods.

Taking a sample of a product for testing shall be performed according to EN 16516. The product sample shall be packaged, as specified below, as soon as possible after collection and, in any case, within the same working day. The product sample shall arrive in the laboratory not later than 14 days after the date of sampling.

The maximum time between date of production and start of a test in the laboratory (incl. storage, transport, and storage at testing laboratory) shall not exceed 8 weeks provided that the laboratory sample is stored in the specified packaging. On-site wet-applied products coming in a closed container (can, cartridge) shall be tested not later than 4 months after production date.

Samples taken shall be packaged airtight and be protected against contamination according to EN 16516 and ISO 16000-11. A detailed documentation including sampling protocol shall follow the sample into the laboratory – templates will be supplied by Eurofins.

3.2 Preparation of a Test Specimen

Test specimen preparation prior to testing shall be performed as specified for the respective product – especially as defined in the respective EN product standard, as far as available. Specifications in national and international standards such as EN 16516, ISO 16000-11, EMICODE, EN 16402, M1, DIBt laboratory manual shall be taken into account.

Multi-layer systems are built up such as the manufacturer specifies for use at the construction site, including the required intermediate drying periods. If the manufacturers prepare the test specimen, then at least the top layer shall be installed at the testing lab just before start of the test.

Furniture is tested as a complete unit. In the case of large pieces of furniture, a representative subsample can be cut out, where the cut edges shall be sealed airtight before starting the test. The test results then shall be recalculated to the whole unit.

3.3 Emission Testing

Emission testing shall be performed in a test chamber made of stainless steel as specified in EN 16516 at 23 (± 1) °C in the test chamber and 50 (± 3) % RH in the inlet air. Ventilation rate shall be 0.5 air changes per hour.

Other ventilation rates are accepted in the range 0.25 - 1.5 air change per hour if the test result is recalculated to 0.5 air changes per hour.

In line with European standardization and the normative European Reference Room for emission testing, the following loading factors shall be applied:

Table 1: European Reference Room (EN 16516)

	Dimensions
Length x width x height	4 m x 3 m x 2.5 m
Surface floor or ceiling	12 m^2
Surface walls	31.4 m^2
Surface window	2 m^2
Surface door	1.6 m^2
Volume	30 m^3

Table 2: Loading factors for building materials (EN 16516)

Intended use	Loading factor
Ceiling or flooring	0.4 m^2/m^3
Walls (after rounding the value)	1.0 m^2/m^3
Small surfaces (door)	0.05 m^2/m^3
Small surfaces (window)	0.07 m^2/m^3 (deviating value from EN 16516 defined by the French VOC regulation)
Very small surfaces, e.g. sealants	0.007 m^2/m^3

Allowed deviation from these values in test chamber is 50 % to 200 % of required loading. In case of such a deviation, the test result shall be recalculated to the above specified value.

3.4 Air Sampling

The emissions behavior is measured by sampling air from the outlet of the ventilated test chamber with sampling media and analytical procedures appropriate for the testing parameters as specified in EN 16516, ISO 16000-3 and -6. The limits of detection and quantification shall be applied as specified in EN 16516.

The test specimens shall remain in the test chamber during the whole testing period and shall be removed only after final air sampling from test chamber.

Air sampling shall be performed after 3 days and after 28 days in test chamber using Tenax TA adsorption tubes for determination of VOC emissions, on DNPH impregnated silicagel adsorption tubes for determination of volatile aldehydes, and on Florisil sampling tubes for phthalates.

3.5 Air Analysis

All measured concentrations in the test chamber air are recalculated to air concentrations in the European Reference Room.

3.5.1 VOC, SVOC

The analytical determination is performed as specified in EN 16516. Identification and individual quantification shall be performed for all appearing VOCs and SVOCs – but only at an air concentration in the European Reference Room of minimum 5 µg/m³. For carcinogenic VOCs (C1A and C1B) an air concentration in the European Reference Room of 1 µg/m³ should be considered.

Substances with a limit value are calibrated with their authentic calibration.

Substances without a limit value are quantified in toluene equivalents.

Carcinogenic VOCs (C1A and C1B) with LCI value or other specific limit value are not included in the limit value for carcinogenic compounds.

3.5.2 CMR Substances for French Regulations

Benzene and trichloroethylene are determined in the same manner as the other VOCs, but determination of the phthalates DBP and DEHP requires a supplemental air sampling and analysis with adsorption on Florisil sampling tubes, extraction and GC/MS analysis, according to ISO 16000-33 to achieve a reasonable detection limit.

3.5.3 Aldehydes

The analysis is performed in line with EN 16516 / ISO 16000-3.

3.5.4 Sum and Evaluation Parameters

Calculation of TVOC (EN16516), TSVOC, R value and "sum of all VOCs without German LCI" shall be performed as specified in EN 16516.

TVOC (EN 16516) is calculated by summing all individual compounds with a toluene equivalent of 5 µg/m³ or above eluting between n-hexane (C6) and n-hexadecane (C16) (both included) on a slightly polar GC column, as specified in the harmonized test method EN 16516.

TSVOC is calculated by summing all individual compounds with a toluene equivalent of 5 µg/m³ or above eluting between n-hexadecane and n-docosane (> n-C16 - n-C22) on a slightly polar GC column, as specified in the harmonized test method EN 16516.

The substance specific concentrations of the substances with an LCI value shall be divided by the respective LCI value, and the sum of these quotients is the risk value R, which is different for the Belgian (R_B) or the German (R_D) list of LCI values, respectively:

$$R_B = \sum_{i}^{n} \left({}^{c_i}/_{LCI_i} + \cdots + {}^{c_n}/_{LCI_n} \right)$$

$$R_D = \sum_{i}^{n} \left({}^{c_i}/_{LCI_i} + \cdots + {}^{c_n}/_{LCI_n} \right)$$

Additionally, the TVOC (AgBB) is calculated for some of the product categories by addition of all identified target compounds (quantified using authentic standards) plus all identified non-target compounds and non-identified compounds (quantified using the TIC response factor for toluene) with results of 5 µg/m³ or above in the interval from n-hexane to n-hexadecane (n-C6 - n-C16) on a slightly polar GC column.

4 Evaluation

The testing laboratory must declare statement of conformity based on the ILAC-G8:09/2019 Guidelines on Decision Rules and Statement of Conformity 4.2.1 Binary Statement for Simple Acceptance Rule (w = 0) in the judgement of Pass/Fail to conformity.

4.1 Indoor Air Comfort

Indoor Air Comfort specification requires testing according to EN 16516 and the results shall not exceed the following limit values:

Table 3: Limit values Indoor Air Comfort

INDOOR AIR COMFORT	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 10 000	≤ 1000	µg/m³
TVOC (AgBB)	≤ 10 000	≤ 1000	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 100	µg/m³
TSVOC	-	≤ 100	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
French VOC emission class	-	A or A+	-
Formaldehyde	-	< 60	µg/m³
Acetaldehyde	-	< 100	µg/m³

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

4.2 Indoor Air Comfort Gold

Indoor Air Comfort specification requires testing according to EN 16516 and the results shall not exceed product specific limit values as defined in Annex I.

Certification of construction products is only possible for product types listed in Annex I.

5 Certification Contract

A contract is signed by the manufacturer and certification body including scope and content of certification.

6 Audit / Requirements for Factory Production Control

An approved auditor shall audit the production processes on-site and the Factory Production Control as far as relevant for the emission of volatile organic compounds from the finished product.

During the audit, samples of products for emission testing shall be taken (except during an initial audit, which is done directly after an initial testing), in accordance with the product specific requirements for sampling.

An audit report shall be compiled containing all findings, recommendations and non-conformities.

6.1 General Requirements

The manufacturer shall establish, document and maintain a Factory Production Control (FPC) system to ensure that the subsequent products placed on the market conform to the characteristics of the tested worst case products. The FPC system shall consist of procedures, regular internal audits and tests and/or assessments and the use of the results to control raw materials or components, equipment, the production process and the finished products.

All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures. This production control system documentation shall ensure a common understanding of the Indoor Air Comfort (Gold) Specification and shall enable continuous compliance of the certified products with the Indoor Air Comfort (Gold) limit values.

Factory Production Control therefore brings together operational techniques and all measures allowing continuity and control of the conformity of the product with the Indoor Air Comfort (Gold) specifications. Its implementation may be achieved by controls and tests on raw materials, processes and finished products as well as by regular controls of measuring and manufacturing equipment, and by making use of the results thus obtained.

Quality and production-related outsourced processes shall be announced to Eurofins including valid proof of monitoring.

Changes in certified products, product groups, composition of products or raw materials as well as changes of raw material suppliers shall be announced to Eurofins immediately. The manufacturer shall establish a procedure to inform Eurofins about these changes. If the manufacturer is different from the Certificate owner, the manufacturer shall establish a procedure to inform the Certificate owner in case of such changes.

Product recipe/construction and composition parameters shall be defined and documented including tolerances and a history of changes of recipes.

6.2 Assignment of Responsibilities / Staff

A Quality Management System (QM System) shall be implemented, including written procedures covering below topics. A history of changes of the procedures shall be available.

The QM System could be a self-defined system or follow the requirements of the ISO 9001 standard.

An ISO 9001 certification is helpful, but not required; external QM reports could be reviewed during an Indoor Air Comfort (Gold) audit.

6.3 Data Storage

A written procedure describing data storage shall be established. Quality and production data and documents shall be stored for minimum 7 years.

6.4 Assignment of Responsibilities / Staff

The manufacturer shall appoint a person (or team) responsible for Factory Production Control (FPC). This responsibility shall be documented.

Training plans for new and existing employees, especially regarding quality-related topics, shall be established and respected. Establishing a skill matrix and/or a competence matrix is recommended.

6.5 Complaints

A system for registration and handling of complaints shall be available including a written procedure about complaint handling. The manufacturer shall have the possibility to generate overviews of complaints for a certain time period and complaints concerning odor/emission shall easily be identifiable, for example by using complaint categories.

Emission and odor related complaints will be reviewed during the Indoor Air Comfort (Gold) audit including related established preventive and corrective actions.

6.6 Control of Raw Materials

The specifications for all incoming raw materials shall be documented, including an audit plan for ensuring their conformity with the certified product range. In determining the checks required, consideration shall be given to the control exercised by the supplier and the documented evidence of conformity. The manufacturer shall ensure, that it is not possible to use non-conforming raw materials in certified products and shall define how to treat non-conforming raw materials.

6.7 Production Process Control

All equipment used in the manufacturing process shall be regularly inspected and maintained to ensure that use, wear or failure does not cause inconsistency in the manufacturing process. Audits and maintenance shall be carried out and recorded in accordance with the manufacturer's written procedures, the records shall be retained for the period defined in the manufacturer's FPC procedures. Major repairs of production equipment, which might have an impact on product quality, shall be documented.

In order to manufacture products, which conform to the Indoor Air Comfort (Gold) Certification requirements, the manufacturer shall control and monitor production processes and shall perform audits and tests as described in their production control system documentation within the QM System. Changes and deviations of production parameters within running production shall be documented including information on responsible person and reason.

6.8 Testing / Evaluation of Finished Products

The manufacturer shall establish testing procedures to ensure and document consistency of manufactured products and shall define tolerances for production processes and finished products. Those tolerances shall at least follow the product standard or, if there is no product standard available, be chosen in a way to assure a consistency of VOC-emission related properties.

This ensures that the composition and by that the emission properties of each finished product remains the same as that subject to initial and annual emission testing within the Indoor Air Comfort (Gold) Certification.

Testing shall be of a type and a frequency to be defined and documented by the manufacturer and appropriate to ensure consistent compliance with the Indoor Air Comfort (Gold) requirements. Type of tests are depending on the type of product and shall be relevant for product emission properties like for example organic content (including VOC), thickness, density or viscosity. Tests shall be performed with suitable test equipment and suitable precision.

Test results shall be appropriately documented and traceable. It is recommended to make sure that those results are cleared by the FPC responsible.

The manufacturer shall have written procedures which specify how non-conforming products shall be dealt with. Any such events shall be recorded as they occur. The testing status of the product shall be identified by means which clearly indicate the conformity or non-conformity of the product with regards to the tests performed. The manufacturer shall ensure, that it is not possible to deliver non-conforming certified products.

6.9 Test Equipment / Calibration / FPC

Test equipment shall be calibrated and/or checked against equipment or standard materials traceable to relevant internationally or nationally recognized reference standards in accordance with a calibration plan. Calibration procedures shall be defined in the QM System including minimum frequencies of calibration. Precision of test equipment and calibration shall be suitable in relation to defined tolerances.

6.10 Traceability / Marking / Documentation

It is the manufacturer's, or the manufacturer's agent's, responsibility to keep full records of individual products or product batches, including their related manufacturing details and characteristics and to keep records of to whom these products or batches were first sold. Best practice would be a traceability from batch of finished product back through production to batches of used raw materials.

The manufacturer shall ensure that only certified products are labelled with the Indoor Air Comfort (Gold) label.

7 Certification

The certification is the final step in the application procedure for the labels Indoor Air Comfort and Indoor Air Comfort Gold.

This final step consists of an evaluation of the available documents such as the test report(s) of the laboratory and the audit report. The certification report combines the audit report and the analytical test report(s) of the tested sample(s). The certification report is an essential element of the certification of the product(s).

All emission test results are checked for compliance. The audit report shall conclude that the factory production control and all the documentation fulfil the requirements at least "in general". Based on all available facts, the final decision on granting a certificate is made.

If the emission test results are not in compliance with the required specifications, then a laboratory test report will be issued, but a certificate cannot be granted.

Validity of a certificate is 5 years from the date of issue if the regular re-audit and re-testing (see point 9) do not show critical non-conformities. The date of issue is the date, when the certificate is created.

8 Repetition of testing and audits

To maintain certification, repetition of product emission testing and audit of production facilities is required on an annual basis for both Indoor Air Comfort and Indoor Air Comfort Gold.

In case the same product (group), based on identical recipe and the same raw materials, is manufactured in different factories, the audit can be performed on a multi-annual basis after the initial audits, which will be defined in an audit plan. At least one factory shall be audited per year.

In case there were no non-conformities during the past 3 years and there have not been changes in production or factory production control, the certification body can offer to perform the audit every 2 years. However, as soon as new non-conformities or changes in production or factory production control occur, the audit shall be performed on an annual basis again.

If a product is no longer in compliance with the required specifications after the re-test, then this will be treated as a non-conformity. The Certification Body will define a period until this non-conformity needs to be solved including elimination of the emissive source and further re-testing.

9 Transfer of the Certification to a Private Label Customer

Companies manufacturing Indoor Air Comfort certified products have the possibility to transfer the Indoor Air Comfort Certification to their Private Label Customers.

The product(s) sold to the Private Label Company must be identical to the Indoor Air Comfort Gold certified product in its (their) composition, way of manufacturing, application and intended use.

Both Private Label Company and the Original Manufacturer shall sign a declaration of consent and conformity. A separate certification contract is signed by the Private Label Company and Certification Body including scope and content of certification. Private Label Indoor Air Comfort Certificates receive their exclusive numbering, thus assuring that a traceability to the Original Manufacturer is not possible by the market actors.

Private Label Indoor Air Comfort Certificates need to be renewed yearly and have a validity of 14 months.

10 Use of the Label

After successful first certification, Indoor Air Comfort and Indoor Air Comfort Gold labels (as appropriate) can be used by the customer as discrete labels.

Furthermore, the certification is accepted by many organizations and can be used for applying for other labels (see Annex II).

The use of the Indoor Air Comfort and Indoor Air Comfort Gold Label is governed by a valid certification contract concluded between the applicant and Eurofins.

The Indoor Air Comfort and Indoor Air Comfort Gold certification includes regular audit of the production site(s) and annual testing of the certified products.

The applicant is authorized to:

- disclose the obtained certification in its business papers, homepages, social media and other ways of correspondence referring to certified products,
- use the Indoor Air Comfort and Indoor Air Comfort Gold Label on the label and packaging of certified products,
- use the Indoor Air Comfort and Indoor Air Comfort Gold Label on delivery, technical and marketing documents of certified products.

The applicant shall:

- make sure that the Indoor Air Comfort and Indoor Air Comfort Gold Label is only used when referring to certified products,
- avoid giving the impression that non-certified products are certified as well,
- not transfer the right to use the Indoor Air Comfort and Indoor Air Comfort Gold Label to another legal entity of the same corporation, unless this is agreed with Eurofins,
- not transfer the right to use the Indoor Air Comfort and Indoor Air Comfort Gold Label to a private label customer; in case this is needed, a separate contract between Eurofins and the private label customer is required,
- ask Eurofins in case of doubt how to use the Indoor Air Comfort and Indoor Air Comfort Gold Label.

By default, Eurofins will provide a coloured Indoor Air Comfort and Indoor Air Comfort Gold Label version in different file formats. A black and white version is available upon request.

The applicant is entitled to use the Indoor Air Comfort and Indoor Air Comfort Gold Label as mentioned above.

The Indoor Air Comfort and Indoor Air Comfort Gold Label shall:

- not be changed in terms of colour, shape, text or other appearance; only size can be adjusted if the proportions of the original label remain,
- have a legible font defining minimum size of the label,
- have an appropriate resolution with smooth and sharp lines and text,
- not be covered or partly covered by any other text or graphics.

11 Summary of the Procedure

- Definition of product range, grouping of products and selection of worst case product,
- Testing of worst case product in a ventilated test chamber according to EN 16516,
- Reporting and evaluation of test results,
- Contract between manufacturer and certification body, including agreements on actions for maintaining low VOC emissions from labelled products, e.g. on details of production, factory production control, quality documentation,
- Initial audit of relevant manufacturing site(s),
- Audit report including the relevant documentation,
- Certification process, including evaluation of test and audit reports, granting or denying the certificate according to the criteria,
- Periodic external audits by Eurofins incl. survey of emission relevant elements of quality documentation,
- Periodic re-testing for ensuring reliability of claims on low emissions.

If there is a need for change in the certified product range (e.g., expansion, addition of new groups or product names, etc.) between the regularly scheduled surveillance, an informal inquiry can be sent anytime to Eurofins. The Certification Body will inform the Manufacturer regarding required steps.

12 Anti Bribery Policy

The position of Eurofins towards bribery is clearly described in the Eurofins Anti Bribery Policy:

“We are resolutely opposed to bribery and corruption regardless of its form.”

Eurofins is committed to conducting their business with honesty and integrity, and we are therefore committed and adhere to a zero-tolerance approach towards any form of bribery and corruption.

The Eurofins Anti Bribery Policy in its current version is available under:

https://www.eurofins.com/about-us/corporate-sustainability/governance/eurofins-core-compliance-documents/.

Annex I: Product Specific Requirements

A classification in compliance with Indoor Air Comfort GOLD requires that the emissions comply with the following limit values.

A.1 Textile Flooring

Loading factor: 0.4 m^2/m^3

Back and edges are sealed airtight.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 1 000	≤ 100	µg/m³
TVOC (AgBB)	≤ 250	≤ 100	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Limit values of the PRODIS/GUT system**	-	Below all limit values	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 50	µg/m³
TSVOC	-	≤ 30	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde, Acetaldehyde, each	-	≤ 4	µg/m³
Octanal	-	≤ 5	µg/m³
Other aldehydes, each ***	-	≤ 8	µg/m³
4-Vinylcyclohexene	-	≤ 2	µg/m³
Styrene	-	≤ 2	µg/m³
Naphthaline	-	≤ 3	µg/m³
4-Phenylcyclohexene	-	≤ 5	µg/m³
Tetrachloroethylene	-	≤ 10	µg/m³
2-Ethylhexanoic acid	-	≤ 15	µg/m³
Toluene	-	≤ 20	µg/m³
1,4-Dichlorobenzene	-	≤ 40	µg/m³
Vinylacetate	-	≤ 40	µg/m³
Xylene	-	≤ 40	µg/m³
Ethylbenzene	-	≤ 40	µg/m³
Phthalates: DEP, DOP and DMP each	-	≤ 1	µg/m³
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods
** See http://www.pro-dis.info/emission-test00.html?&L=0
*** Special requirement of the Blue Angel DE-UZ 128.

A.2 Resilient Flooring

Loading factor: 0.4 m^2/m^3

Back and edges are sealed airtight, and T-shaped joints are included for tiles and planks.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 1 000	≤ 100	µg/m³
TVOC (AgBB)	≤ 1 000	≤ 300	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 100	µg/m³
TSVOC	-	≤ 20	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	-	< 10	µg/m³
Acetaldehyde	-	< 100	µg/m³
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.3 Wood-based Flooring and Decorative Panels

Loading factor:
Floor or ceiling, 0.4 m^2/m^3
Walls / Pitched roof 1.0 m^2/m^3
Built-in cabinetry and -furniture 0.5 m^2/m^3

Back and edges are sealed airtight, and T-shaped joints are included for wooden floorings, as specified in DIBt laboratory manual.

Size of the test chamber for wood-based flooring and panels: minimum 225 liters.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 1 000	≤ 160	µg/m³
TVOC (AgBB)	≤ 3 000	≤ 300	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 50	µg/m³
TSVOC	-	≤ 30	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	-	< 10	µg/m³
Acetaldehyde	-	< 100	µg/m³
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.4 Insulation Material

Scope:
Thermal insulation and sound insulation.

Loading factor:

Ceiling or floor	0.4 m^2/m^3
Walls / Pitched roof	1.0 m^2/m^3
Combination of ceiling and walls	1.0 m^2/m^3
Tubes, channels, cables, tanks, each	0.4 m^2/m^3

Back and edges are sealed airtight.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 1 000	≤ 100	µg/m³
TVOC (AgBB) without acetic acid		≤ 100	µg/m³
Acetic acid		≤ 140	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 50	µg/m³
TSVOC	-	≤ 20	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	-	< 10	µg/m³
Acetaldehyde	-	< 100	µg/m³
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.5 Suspended (Acoustic) Ceilings

Loading factor:
Ceiling 0.4 m^2/m^3

The sample shall be cut into a squared test specimen. Minimum one factory made edge shall be exposed to chamber air. The other edges should be sealed airtight. The sample shall be placed on one of the covered edges to allow emission from both front and back.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 1 000	≤ 100	µg/m³
TVOC (AgBB) without acetic acid		≤ 100	µg/m³
Acetic acid		≤ 140	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 50	µg/m³
TSVOC	-	≤ 20	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	-	< 10	µg/m³
Acetaldehyde	-	< 100	µg/m³
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.6 Non-wooden panels

Scope:
Gypsum boards, mineral and resin-based panels.

Loading factor: 1.0 m^2/m^3

Back and edges are sealed airtight.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 1 000	≤ 60	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 40	µg/m³
TSVOC	-	≤ 20	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	≤ 50	< 10	µg/m³
Acetaldehyde	≤ 50	≤ 50	µg/m³
Sum of form- and acetaldehyde	≤ 50	-	ppb
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.7 Installation Products

Scope:
Flooring adhesives, assembly adhesive, tile adhesives, tile mortars, leveling compounds, floor primers, underlays.

Loading factor:
Floor 0.4 m^2/m^3
Wall 1.0 m^2/m^3

Application amount and sample preparation:
Application of the ready-to-use mixture on glass with a trowel, in a model, or test as a plate, details and amount as specified in EN 16516, ISO 16000-11 and GEV testing protocol.

Flooring adhesives, assembly adhesives and floor primers:
Test with maximum application amount from the technical datasheet, but minimum application defined in GEV test method shall be used. For application of melting adhesives, follow the sample preparation defined in the GEV test method.

Leveling compounds, tile adhesives and tile mortars:
Test with 3 mm application amount according to GEV test method. Wall products can be tested according to category A.11 Wall Plaster. In any case, the relative humidity inside the test chamber during sampling after 3 days shall be in the range of 50 ± 5%. Any deviation shall be recorded in the test report.

Underlays:
Edges shall not be sealed.
Installation products shall be solvent-free according to TRGS 610. Installation products may contain solvents below 0.3 % w/w, which may result from contamination of the raw materials being used. Proof shall be provided by declaration.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 750	≤ 60	µg/m³
TVOC (AgBB) without acetic acid	≤ 1 000	≤ 60	µg/m³
Acetic acid	≤ 2 000	≤ 140	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 40	µg/m³
TSVOC	-	≤ 40	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	< 50	< 10	µg/m³
Acetaldehyde	< 50	≤ 50	µg/m³
Sum of formaldehyde and acetaldehyde	< 50	-	ppb
Other aldehydes (each; detectable with ISO 16000-3)	-	≤ 50	ppb
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.8 Sealants

Scope:
Joint sealants

Loading factor: 0.007 m^2/m^3

Apply the sample without bubbles into a profile made of stainless steel material with 3 mm depth and 10 mm width and flatten the surface. The length of the profile shall correspond to the required loading factor and the size of the test chamber. Sealants shall be solvent-free according to TRGS 610. Sealants may contain solvents below 0.3 % w/w, which may result from contamination of the raw materials being used. Proof shall be provided by declaration.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 750	≤ 20	µg/m³
TVOC (AgBB)	≤ 2 000	≤ 300	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 40	µg/m³
TSVOC	-	≤ 30	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	≤ 50	< 10	µg/m³
Acetaldehyde	≤ 50	≤ 50	µg/m³
Sum of formaldehyde and acetaldehyde	≤ 50	-	ppb
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.9 Interior paints and varnishes

Scope:
Interior paints and varnishes of below subcategories including wall primers. This product group does not define requirements for coatings for the floor. These are defined in A.10 and A.14.

Additional requirements for a license for Indoor Air Comfort GOLD:

VOC/SVOC content requirements:

The maximum content of VOCs and SVOCs shall not exceed below limit values as determined by testing according to ISO 11890-2:

Subcategory	Subcategory denotation according to Directive 2004/42/EC)	VOC limits (g/l ready to use)	SVOC limits (g/l ready to use)
A	Interior matt walls and ceilings (Gloss < 25@60°)	10	25[1] / 30[2]
B	Interior glossy walls and ceilings (Gloss > 25@60°)	30	25[1] / 30[2]
D	Interior trim and cladding paints for wood and metal	60	40[1] / 50[2]
E	Interior trim varnishes and woodstains, including opaque woodstains	60	30
F	Interior minimal build woodstains	40	30[1] / 40[2]
G	Wall Primers	10	25[1] / 30[2]
H	Binding primers	10	25[1] / 30[2]
I	One-pack performance coatings	65	45[1] / 55[2]

([1]) White paints and varnishes
([2]) Tinted paints and varnishes

For emission test requirements, see the following page.

Emission test requirements:

Loading factor:

Walls	1.0 m^2/m^3
Ceiling	0.4 m^2/m^3
Small surfaces (trim paints)	0.05 m^2/m^3

The minimum application amount used for testing shall follow the amount stated by the manufacturer in the technical datasheet of the product, but in any case, it shall not be lower than the amount defined in EN 16402.

In case of multi-layer coatings, either the individual constituents or the whole system can be subject to certification, depending on the intended use and the related testing scenario.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 1 000	≤ 100	µg/m³
TVOC (AgBB)	≤ 3 000	≤ 300	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1.0	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 40	µg/m³
TSVOC	-	≤ 50	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	≤ 50	< 10	µg/m³
Acetaldehyde	≤ 50	≤ 50	µg/m³
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.10 Resin Based Liquid Applied Floorings

Scope:
Resin based floorings are reactive liquid applied floorings.

Loading factor:
Floor: 0.4 m^2/m^3

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 1 000	≤ 100	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 100	µg/m³
TSVOC	-	≤ 50	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	-	< 10	µg/m³
Acetaldehyde	-	< 100	µg/m³
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.11 Wall Plaster

Scope:
Mineral, gypsum and dispersion-based wall plasters for interior application. This includes base plasters, finishing and top plasters and wall fillers, which are used for partial application in holes and plaster board joints.

Loading factor:
Wall 1.0 m^2/m^3

Application amount according to technical datasheet, but minimum application amounts shall be:

Mineral- and gypsum-based base plasters	3 mm layer thickness
Mineral- and dispersion-based finishing and top plasters	2.5 kg/m^2
Wall filler	300 g/m^2

Application on glass with a trowel, details and amount as specified in EN 16516, ISO 16000-11 and GEV testing protocol. A preconditioning of 3 days in a separate pre-conditioning chamber is allowed, except for the wall fillers. The relative humidity inside the test chamber during sampling after 3 days shall be in the range of 50 ± 5%. Any deviation shall be recorded in the test report.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 750	≤ 60	µg/m³
TVOC (AgBB)	≤ 3 000	≤ 300	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 40	µg/m³
TSVOC	-	≤ 40	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	≤ 50	< 10	µg/m³
Acetaldehyde	≤ 50	≤ 50	µg/m³
Sum of formaldehyde and acetaldehyde	≤ 50	-	ppb
Other aldehydes (each; detectable with ISO 16000-3)	-	≤ 60	µg/m³
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.12 Wall Papers and Textile Wall Coverings

Scope:
Wall papers, that are permanently fixed to the wall and textile wall coverings or partition walls, that are not permanently fixed to the building.

Loading factor:
Wall 1.0 m^2/m^3

Back and edges are sealed airtight by taping the sample to an inert plate or aluminum foil with an aluminum tape.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 1 000	≤ 100	µg/m³
TVOC (AgBB)		≤ 100	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 50	µg/m³
TSVOC	-	≤ 50	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	-	< 10	µg/m³
Acetaldehyde	-	< 100	µg/m³
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.13 Furniture

Scope:
Free standing furniture based on wooden and other panels. Upholstered furniture is not within the scope of this specification.

Loading factor:
A complete piece of furniture is tested, and the results are recalculated to an area specific ventilation rate of 1.0 $m^3/(m^2h)$. Testing of components of the furniture is possible, if representative components can be selected.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 3 000	≤ 160	µg/m³
TVOC (AgBB)	≤ 3 000	≤ 400	µg/m³
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 100	µg/m³
TSVOC	-	≤ 30	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
Acetaldehyde	-	≤ 30	µg/m³

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.14 Coatings for floor coverings

This product type includes onsite applied products for wooden floor surface treatments, as well as lacquers, finishes and oils for mineral floors and resilient floor coverings:

VOC content requirement: max. 5 % (according to GEV requirements)

Emission test requirements:

Loading factor:
Floor 0.4 m^2/m^3

The minimum application amount used for testing shall follow the amount stated by the manufacturer in the technical datasheet of the product, but in any case it shall not be lower than the amount defined in the GEV test method:

Water-based parquet lacquers:	150 g/m^2
Water-based joint fillers for parquet:	100 g/m^2
Water-based parquet primers:	100 g/m^2
Oils for parquet and mineral floors:	25 g/m^2
Water-based UV-curing lacquers:	150 g/m^2
UV-curing lacquers (100 % solids content):	50 g/m^2
Water-based lacquers for mineral floors:	100 g/m^2
Water-based impregnation agents for mineral floors:	100 g/m^2
Water-based lacquers for resilient flooring:	50 g/m^2

Application on oak wood as for DIBt testing (Ü-mark) is accepted. Indoor Air Comfort certified products can be pre-conditioned for 3 days. In case of multi-layer coatings, either the individual constituents or the whole system can be subject to certification, depending on the intended use and the related testing scenario. In case UV curing of the applied coating is required, follow the sample preparation as defined in the GEV method.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 1 000	≤ 60	µg/m³
TVOC (AgBB)	≤ 3 000	≤ 300	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1.0	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 40	µg/m³
TSVOC	-	≤ 40	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	≤ 50	< 10	µg/m³
Acetaldehyde	≤ 50	≤ 50	µg/m³
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.15 Wood-based Doors and Skirting

Loading factor:
Doors, skirting 0.05 m^2/m^3

Back and edges are sealed airtight.

INDOOR AIR COMFORT GOLD	After 3 days	After 28 days	Unit
TVOC (EN 16516)	≤ 1 000	≤ 20	µg/m³
TVOC (AgBB)	≤ 3 000	≤ 300	µg/m³
R_B value (based on EU LCI and Belgian LCI values)	-	≤ 1	-
R_D value (based on German LCI values)	-	≤ 1.0	-
Sum of VOC without German LCI and non-identified VOC	-	≤ 50	µg/m³
TSVOC	-	≤ 30	µg/m³
Sum of carcinogens (C1A, C1B) *	≤ 10	-	µg/m³
Any individual carcinogens (C1A, C1B) *	-	< 1	µg/m³
4 CMR substances as specified in the French regulations, each	-	< 1	µg/m³
Formaldehyde	-	< 10	µg/m³
Acetaldehyde	-	< 100	µg/m³
Compliance with the French VOC emission class A+ and the rewarding criteria of the Italian CAM Edilizia			

* As far as detectable with EN 16516 / ISO 16000-3/-6 test methods

A.16 Product Systems

Scope:

- Floor or wall systems made of e.g. top covering, possibly underlay, installation products, and possibly sub construction (subfloor),
- Raised access floors.

Loading factor:

Walls	1.0 m^2/m^3
Ceiling or floor	0.4 m^2/m^3

Installation according to specifications of the manufacturer, including all intermediate drying periods. The test specimen can be prepared by the manufacturer, as long as at least the top layer is installed in the testing lab immediately before starting the test.

Criteria and limit values:

The specifications for the used top layer apply to the whole system. If the top layer is e.g. a coated floor covering, then the specifications of the floor covering apply and not of the coating.

Annex II: Combined schemes and regulations

Indoor Air Comfort Gold combines thelimit values from various schemes and requirements. The current versions of the respective requirements at the time of publishing the Indoor Air Comfort Gold specification were used. Other requirements not related to VOC product emissions, like for example content of certain substances or odor are not combined or evaluated. The following limit values for VOC emissions are are applied in relation to the product specific categories mentioned in Annex I:

Label or regulation	A1: Textile floorings	A2: Resilient floorings	A3: Wood based floorings and decorative panels	A4: Insulation Material	A5: Suspended (acoustic) ceilings	A6: Non-wooden panels	A7: Installation products	A8: Sealants	A9: Interior Paints and Varnishes	A10: Resin based liquid applied floorings	A11: Wall plaster	A12: Wall papers, textile wall coverings	A13: Furniture	A14: Coatings for floor coverings	A15: Wood based-doors and skirting
Belgian regulation	X	X	X[4]				X			X				X	
France VOC class A+	X	X	X	X	X	X	X	X	X	X	X	X		X	X
AgBB/ABG (Germany)	X	X	X	X	X	X	X	X	X	X	X	X		X	X
Italian CAM Edilizia	X	X	X	X	X	X	X	X	X	X	X	X		X	X
EU Taxonomy Regulation	X	X	X	X	X	X	X	X	X	X	X	X		X	X
REACH Annex XVII to Regulation (EC) No 1907/2006 (Formaldehyde restriction)	X	X	X	X	X	X						X	X		X
Directive 2004/42/CE (Decopaint Directive)									X						
LEED (ACP)	X	X	X	X	X	X	X	X	X	X	X	X		X	X
BREEAM New Construction	X	X	X	X	X	X	X	X	X	X	X	X		X	X
BREEAM Refurbishment	X	X	X		X				X			X			X
BREEAM In Use	X	X	X	X	X	X	X	X	X	X	X	X		X	X
WELL Building	X	X	X	X	X	X	X	X	X	X	X	X		X	X
DGNB	X	X	X				X	X		X					
QNG (Germany)	X	X	X				X	X		X					

Label or regulation	A1: Textile floorings	A2: Resilient floorings	A3: Wood based floorings and decorative panels	A4: Insulation Material	A5: Suspended (acoustic) ceilings	A6: Non-wooden panels	A7: Installation products	A8: Sealants	A9: Interior Paints and Varnishes	A10: Resin based liquid applied floorings	A11: Wall plaster	A12: Wall papers, textile wall coverings	A13: Furniture	A14: Coatings for floor coverings	A15: Wood based-doors and skirting
SKA Rating	X	X	X	X	X	X	X	X	X	X	X	X		X	
French HQE certification	X	X	X	X	X	X	X	X	X	X	X	X		X	X
EMICODE EC1Plus						X	X	X			X			X	
Blue Angel; DE-UZ	128	120	176	132	132		113[3]	123	12a[5]		198	35	38	12a[5]	176
GUT	X														
EU ecolabel			X						X				X	X	
Austrian Ecolabel, UZ	35	42	07[4]										06		
Austrian Baubook	X	X	X	X			X	X		X					
M1	X	X	X	X	X	X	X	X	X	X		X		X	X
Danish Indoor Climate Label (Emission Class 1)	X	X	X	X	X	X	X	X	X	X	X	X		X	X
BVB (Sweden)	X	X	X	X	X	X	X	X	X	X	X	X		X	X
Miljöbyggnad (Sweden)	X	X	X	X	X	X	X	X	X	X	X	X		X	X
Nordic Swan	X	X	X		X	X	X	X	X		X		X		
Eco Product Norway	X	X	X	X	X	X	X	X	X	X	X	X		X	X
SINTEF (Norway)	X	X	X			X	X	X	X	X	X			X	X
Cradle to Cradle	X	X	X	X	X	X	X	X	X	X	X	X		X	X
very low emitting products according to EN 16798-1	X	X	X	X	X	X	X	X	X	X	X	X		X	X

Label or regulation	A1: Textile floorings	A2: Resilient floorings	A3: Wood based floorings and decorative panels	A4: Thermal Insulation	A5: Suspended (acoustic) ceilings	A6: Non-wooden panels	A7: Installation products	A8: Sealants	A9: Interior Paints and Varnishes	A10: Resin based liquid applied floorings	A11: Wall plaster	A12: Wall papers, textile wall coverings	A13: Furniture	A14: Coatings for floor coverings	A15: Wood based-doors and skirting
Very low in emissions according to ISO 5684							X								
Global GreenTag	X	X	X	X	X	X	X	X	X	X		X		X	
FEMB													X		
Declare 2.0	X	X	X	X	X	X	X	X	X	X	X	X		X	X

Special regulations: 3) for underlays DE-UZ 156; 4) not for decorative panels; 5) emission requirements, only for varnishes

Annex III: Abbreviations

AgBB	Ausschuss zur gesundheitlichen Bewertung von Bauprodukten (Committee for Health-related Evaluation of Building Products)
BBP	Butyl benzyl phthalate
CMR	Carcinogenic, Mutagenic or Toxic for Reproduction
DBP	Dibutyl Phtalate
DEHP	Di(2-ethylhexyl) phthalate
DEP	Diethyl phthalate
DIBt	Deutsches Institut für Bautechnik
DMP	Dimethyl phthalate
DNPH	2,4-Dinitrophenylhydrazine
EN	European Norm (European Standard)
EU	European Union
GC	Gas Chromatography
GC/MS	Gas Chromatography – Mass Spectrometry
GEV	Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.; Organisation administrating the EMICODE label
GUT	Association of Environmentally Friendly Carpets e.V. (Gemeinschaft umweltfreundlicher Teppichboden)
ISO	International Organization for Standardization
LCI	Lowest Concentration of Interest
NMP	1-methyl-2-pyrrolidone
PRODIS	PRODuct Information System of the European Carpet Industry
R value	Risk Value
REACH	Regulation of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
RH	Relative Humidity
SVHC	Substances of Very High Concern
SVOC	Semi Volatile Organic Compounds
TSVOC	Total Semi Volatile Organic Compounds
TVOC	Total Volatile Organic Compounds
VOC	Volatile Organic Compounds
XAD-II	Hydrophobic cross-linked polystyrene copolymer resin, a polymeric adsorbent

Annex IV: Revision table

The table below lists the substantial content changes in comparison to the previous version of the specifications. Editorial changes are not specifically listed.

Part	Revision
Introduction	Editorial changes
1	Change of contact email address; update of product types
2	Editorial changes; adding requirement of accreditation of testing laboratories
3	Editorial changes
3.3 Table 2	Changing loading scenario for windows to 0.07 m^2/m^3
3.5.1	Description of detection limit for carcinogens and exclusion of carcinogens with LCI value from the limit value for carcinogenic compounds
3.5.2	Change from sampling on XAD II tubes to Florisil tubes according to ISO 16000-33
3.5.4	Editorial changes; adding definition of the TVOC (AgBB)
4	Adding statement of conformity based on the ILAC-G8:09/2019 Guidelines on Decision Rules and Statement of Conformity
4.1 Table 3	Adding "<" or "≤" to the limit values
4.1 Table 3	Adding TVOC (AgBB) limit value after 3 and 28 days
4.1 Table 3	Changing acetaldehyde limit value after 28 days
6	Editorial changes
6	Changes in the order of subsections
6.1	Adding the obligation to inform the certificate owner if the manufacturer is not the certificate owner
6.8	Deletion of the sentence, that chosen tolerances can be agreed on with the Certification Body
7	Adding that the audit report shall conclude that the factory production control and all the documentation fulfil the requirements at least "in general"
8	Editorial changes
9	Editorial changes
10	Editorial changes
11	Adding information about how to proceed if there is a need for change in the certified product range
Annex I all subsections	Adding "<" or "≤" to the limit values
A.1	Adding TVOC (AgBB) limit value after 3 days
A.1	Changing R_D limit value after 28 days
A.2	Adding information that T-shaped joints are included for tiles and planks
A.2	Changing TVOC (EN 16516) limit value after 28 days
A.2	Adding TVOC (AgBB) limit value after 3 and 28 days
A.2	Changing R_D limit value after 28 days

A.2	Changing TSVOC limit value after 28 days
A.2	Changing acetaldehyde limit value after 28 days
A.3	Removing skirting and doors from this product category
A.3	Adding TVOC (AgBB) limit value after 3 and 28 days
A.3	Changing R_D limit value after 28 days
A.3	Changing acetaldehyde limit value after 28 days
A.4	Renaming product category to “Insulation Material”
A.4	Adding the scope with thermal insulation and sound insulation
A.4	Adding TVOC (AgBB) without acetic acid limit value after 28 days
A.4	Adding acetic acid limit values after 28 days
A.4	Changing R_D limit value after 28 days
A.4	Changing acetaldehyde limit value after 28 days
A.5	Adding TVOC (AgBB) without acetic acid limit value after 28 days
A.5	Adding acetic acid limit values after 28 days
A.5	Changing R_D limit value after 28 days
A.5	Changing acetaldehyde limit value after 28 days
A.6	Editorial changes
A.7	Adding assembly adhesives to the scope
A.7	Adding reference for test specimen preparation for melting adhesives
A.7	Changing solvent content requirement according to TRGS 610
A.7	Changing TVOC (EN 16516) after 3 days
A.7	Adding TVOC (AgBB) without acetic acid limit value after 3 and 28 days
A.7	Adding acetic acid limit values after 3 and 28 days
A.7	Changing R_D limit value after 28 days
A.7	Changing TSVOC limit value after 28 days
A.7	Changing limit value for other aldehydes after 28 days
A.8	Changing solvent content requirement according to TRGS 610
A.8	Adding TVOC (AgBB) limit value after 3 and 28 days
A.8	Changing R_D limit value after 28 days
A.9	Specifying, that no other primers than wall primers fall under this category
A.9	Changing VOC and SVOC content limit values
A.9	Changing loading factor for trim paints
A.9	Adding TVOC (AgBB) limit value after 3 and 28 days
A.9	Changing R_D and R_B limit value after 28 days
A.10	Editorial changes

A.10	Changing R_D limit value after 28 days
A.10	Changing acetaldehyde limit value after 28 days
A.11	Adding definition, which wall plasters are in the scope
A.11	Adding TVOC (AgBB) limit value after 3 and 28 days
A.11	Changing R_D limit value after 28 days
A.11	Changing TSVOC limit value after 28 days
A.12	Adding use of aluminium foil for sample preparation
A.12	Adding TVOC (AgBB) limit value after 28 days
A.12	Changing R_D limit value after 28 days
A.12	Changing limit value for Sum of VOC without German LCI and non-identified VOC after 28 days
A.12	Changing acetaldehyde limit value after 28 days
A.13	Adding TVOC (AgBB) limit value after 3 and 28 days
A.13	Changing R_D limit value after 28 days
A.14	Adding possibility for UV curing for UV-coatings
A.14	Changing TVOC (EN 16516) limit value after 28 days
A.14	Adding TVOC (AgBB) limit value after 3 and 28 days
A.14	Changing R_D and R_B limit value after 28 days
A.14	Changing TSVOC limit value after 28 days
A.15	Adding “Wood-based Doors and Skirting” as new subcategory
A.16	Moving former category A.15 Product Systems to A.16
Annex II	Editorial changes
Annex II	Adding column A15: Wood based skirting and doors
Annex II	Adding REACH Annex XVII to Regulation (EC) No 1907/2006 (Formaldehyde restriction)
Annex II	Adding line with Directive 2004/42/CE (Decopaint Directive)
Annex II	Adding line with BREEAM Refurbishment
Annex II	Adding line with BREEAM In Use
Annex II	Adding line QNG (Germany)
Annex II	Adding line with Very low in emissions according to ISO 5684
Annex II	Deleting line with Singapore Green Label

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