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| **Annex 1 to the Contract pursuant to DE-UZ 179**  **Environmental label for "climate-friendly grocery stores in the food retail sector"** |  | **Please use this** **printed form!** |

Applicant (manufacturer/distributor):

Owner of the building:

Type of building (single building, building complex):

Brand/trade name:

Location of the food retail store:

Store format:

Year of construction and, if relevant, year building renovated:

Year of manufacture for the refrigeration system:

Sales area of the food retail store [m2]:

Roof area of the food retail store [m2]:

Annual turnover of the food retail store [€]:

Annual turnover of the food retail store through food [€]:

| **Section** | **Declarations/compliance verifications for climate-friendly grocery stores in the food retail sector** | **yes** | **no** |
| --- | --- | --- | --- |
|  | **Type of building** |  |  |
|  | Existing building rented by the operator  (3 optional requirements must be fulfilled.) |  |  |
|  | Newly constructed building or renovated building stock rented by the operator  (4 optional requirements must be fulfilled.) |  |  |
|  | Existing building owned by the operator  (5 optional requirements must be fulfilled.) |  |  |
|  | Newly constructed building or renovated building stock owned by the operator  (6 optional requirements must be fulfilled.) |  |  |
| **Mandatory requirements** | | | |
| **3.1** | **Energy requirement of the building** |  |  |
|  | The calculated primary energy requirement of a *newly constructed building* is at least 30 % less than the primary energy requirement of the reference building according to the Energy Saving Directive (EnEV) 2009. |  |  |
|  | The calculated primary energy requirement of an *existing or renovated building* does not exceed the primary energy requirement of the reference building according to the Energy Saving Directive (EnEV) 2009. |  |  |
|  | The Energy Performance Certificate for the building in accordance with §§ 16ff EnEV is displayed in a clearly visible position. |  |  |
|  | The calculated primary energy requirement is       kWh/(m2\*a). |  |  |
|  | An Energy Performance Certificate for non-residential buildings in accordance with §§ 16 ff of the Energy Saving Directive (EnEV) from an independent expert or the calculation of the primary energy requirement according to EnEV carried out by an independent expert is enclosed. **Annex 2** |  |  |
| **3.2** | **Management system** |  |  |
|  | A holistic energy management system in accordance with DIN EN ISO 50001 is operated in the food retail store including the refrigeration systems. |  |  |
|  | Certification of the energy management system in accordance with DIN EN ISO 50001, which covers at least the food retail store in the Blue Angel application, that is issued by an environmental auditor or an environmental auditing organisation listed by the German Association for Accreditation and Recognition of Environmental Auditors (Deutschen Akkreditierungs- und Zulassungsgesellschaft für Umweltgutachter mbH - DAU) mbH, Bonn, or an accredited certifier according to the German Accreditation Body (Deutschen Akkreditierungsstelle) is enclosed. **Annex 3** |  |  |
| **3.3** | **Electricity procurement** |  |  |
|  | The electricity used for operating the food retail store is sourced from a green electricity product with proven additionality. |  |  |
|  | A power supply contract for certified green electricity with additionality is enclosed. **Annex 5** |  |  |
| **3.4** | **Energy efficiency of the refrigeration system** |  |  |
|  | *Old systems* achieve a key energy efficiency indicator "Energy requirement / (display area x year)" from the VDMA Standards Sheet 24247-4 of at least 15 % less than the average standard from all existing systems in 2009 (base line) at the time of the application. |  |  |
|  | In the case of *old systems,* the data required and used for the calculation of the key energy efficiency indicator and completing the so-called "quick efficiency test" (<http://www.vdma-effizienz-quickcheck.org/>) is enclosed. **Annex 6** |  |  |
|  | In the case of *old systems,* the results of the completed quick efficiency test using this data are enclosed.  **Annex 7** |  |  |
|  | Note: Because no standardised method currently exists for calculating the energy requirements of a planned refrigeration system, verification for new systems is submitted after measuring the energy consumption following one year of operation. |  |  |
|  | *New systems* achieve a key energy efficiency indicator "Energy requirement / (display area x year)" from the VDMA Standards Sheet 24247-4 of at least 35 % less than the average standard from all existing systems in 2009 (base line) at the time of the application. |  |  |
|  | In the case of *new systems,* the data required and used for the calculation of the key energy efficiency indicator and completing the so-called "quick efficiency test" (<http://www.vdma-effizienz-quickcheck.org/>) will be submitted one year after the refrigeration system has been commissioned. **Annex 6** |  |  |
|  | In the case of *new systems*, the results of the completed quick efficiency test using this data will be submitted one year after the refrigeration system has been commissioned. **Annex 7** |  |  |
|  | In the case of *new systems*, the required data and the results of the completed quick efficiency test using this data will be submitted after one year of operation. |  |  |
|  | The key energy efficiency indicator is       %. |  |  |
| **3.5** | **Heat recovery** |  |  |
|  | An installation for utilising the waste heat generated by the refrigeration system is fitted. |  |  |
|  | The heat transfer capacity of the installation for utilising the waste heat generated by the refrigeration system is at least 75% of the heating load (kW) of the building according to EnEV. |  |  |
|  | The heating load of the building according to EnEV is       kW. |  |  |
|  | The product documentation for the heat recovery installation, including information on the heat transfer capacity for heat utilisation, is enclosed. **Annex 8** |  |  |
|  | Verification of the heating load of the building according to EnEV is enclosed. **Annex 9** |  |  |
| **3.6** | **Refrigeration cabinet covers** |  |  |
|  | Equipment and refrigeration cabinets used for deep freezing food are fitted with glass covers or glass doors. |  |  |
|  | All normal refrigeration points (including service counters) without permanent covers are fitted with covers at night. |  |  |
|  | The product documentation for the refrigeration equipment and refrigeration cabinets used including relevant information on the covers is enclosed. **Annex 10** |  |  |
| **3.7** | **Refrigerant** |  |  |
|  | Natural refrigerants are exclusively used in refrigeration systems and the connected refrigeration equipment and refrigeration cabinets in the food retail store. |  |  |
|  | A maximum of 5 % of the plug-in refrigeration equipment and refrigeration cabinets not connected to the compound refrigeration system contain fluorine refrigerants. |  |  |
|  | The product documentation with the relevant information on the refrigerant used is enclosed. **Annex 11** |  |  |
| **3.8** | **Foaming agents** |  |  |
|  | In the refrigeration system and in all systems and equipment containing refrigerant, no halogenated organic compounds are used as foaming agents or in the manufacture of the installed insulating materials. |  |  |
|  | The product documentation for the refrigeration and air-conditioning technology installed in the food retail store with corresponding information on the foaming agents used is enclosed. **Annex 13** |  |  |
| **3.9** | **Interior lighting in the store** |  |  |
|  | The maximum electrical power consumption for the interior lighting of the sales area in the store, measured in watts per square meter of sales area [W/m²], does not exceed a value of 15 W/m². |  |  |
|  | The maximum electrical power consumption for the interior lighting of the sales area in the store is       W/m². |  |  |
|  | Outside of the store's hours of operation, at least 90 % of the interior lighting in the store is switched off. |  |  |
|  | Note: In the case of newly installed lighting systems, the verification is to be provided after one year's operation in the form of a measurement of the power consumption. |  |  |
|  | Verification of the calculated power consumption for the interior lighting of the store is enclosed. **Annex 15** |  |  |
|  | Verification of the calculated power consumption for the interior lighting of the store will be submitted after one year of operation. |  |  |
| **3.13** | **Location/accessibility of the food retail store** |  |  |
|  | In grocery stores with a sales area up to 1000 m2, there are at least 10 bicycle stands and in grocery stores with a sales area over 1000 m2 at least 20 bicycle stands in the immediate vicinity at a maximum distance of 20 metres from the entrance/exit to the building in which the food retail store is located. |  |  |
|  | The sales area of the store is       m². |  |  |
| **3.14** | **Recycled paper for printed advertising material** |  |  |
|  | Printed advertising brochures issued by the food retail store are exclusively printed on recycled paper that is certified with the Blue Angel ecolabel RAL UZ 14. |  |  |
|  | Documentation about the type of certified paper used and the quantity of the paper used is enclosed. **Annex 21** |  |  |
| **3.15** | **Sustainable building** |  |  |
|  | The renovation of existing building stock and the planning and construction of new buildings that are owned by the operator is carried out in accordance with the guidelines for sustainable building issued by the Federal Ministry of Transport, Building and Urban Development (BMVBS). |  |  |
|  | The building plans in accordance with the guidelines for sustainable building from the BMVBS including documentation of the building products used or a certificate from the DGNB of at least silver level are enclosed. Comparable certificates from other certifying body (e.g. LEED) can be accepted. **Annex 22** |  |  |
|  | **All mandatory requirements are fulfilled.** |  |  |
| **Optional requirements** | | | |
| **3.1** | **Energy requirement of the building** |  |  |
|  | The calculated primary energy requirement of a *newly constructed building* is at least 50% less than the primary energy requirement of the reference building according to the Energy Saving Directive (EnEV) 2009. |  |  |
|  | The calculated primary energy requirement of an *existing or renovated building* is at least 30% less than the primary energy requirement of the reference building according to the Energy Saving Directive (EnEV) 2009. |  |  |
|  | The calculated primary energy requirement is       kWh/(m2\*a). |  |  |
|  | An Energy Performance Certificate for non-residential buildings in accordance with §§ 16 ff of the Energy Saving Directive (EnEV) from an independent expert or the calculation of the primary energy requirement according to EnEV carried out by an independent expert is enclosed. **Annex 2** |  |  |
| **3.2** | **Management system** |  |  |
|  | An environmental management system according to EMAS is operated for the food retail store. |  |  |
|  | A certificate according to EMAS, which covers at least the food retail store in the Blue Angel application, that is issued by an environmental auditor or an environmental auditing organisation listed by the German Association for Accreditation and Recognition of Environmental Auditors (Deutschen Akkreditierungs- und Zulassungsgesellschaft für Umweltgutachter mbH - DAU) mbH, Bonn, or an accredited certifier according to the German Accreditation Body (Deutschen Akkreditierungsstelle) is enclosed. **Annex 4** |  |  |
| **3.4** | **Energy efficiency of the refrigeration system** |  |  |
|  | *Old systems* achieve a key energy efficiency indicator "Energy requirement / (display area x year)" from the VDMA Standards Sheet 24247-4 of at least 25 % less than the average standard from all existing systems in 2009 (base line) at the time of the application. |  |  |
|  | In the case of *old systems,* the data required and used for the calculation of the key energy efficiency indicator and completing the so-called "quick efficiency test" (<http://www.vdma-effizienz-quickcheck.org/>) is enclosed. **Annex 6** |  |  |
|  | In the case of *old systems*, the results of the completed quick efficiency test using this data are enclosed. **Annex 7** |  |  |
|  | *New systems* achieve a key energy efficiency indicator "Energy requirement / (display area x year)" from the VDMA Standards Sheet 24247-4 of at least 45 % less than the average standard from all existing systems in 2009 (base line) at the time of the application. |  |  |
|  | In the case of new systems, the data required and used for the calculation of the key energy efficiency indicator and completing the so-called "quick efficiency test" (<http://www.vdma-effizienz-quickcheck.org/>) will be submitted one year after the refrigeration system has been commissioned.  **Annex 6** |  |  |
|  | In the case of *new systems*, the results of the completed quick efficiency test using this data will be submitted one year after the refrigeration system has been commissioned. **Annex 7** |  |  |
|  | In the case of *new systems*, the required data and the results of the completed quick efficiency test using this data will be submitted after one year of operation. |  |  |
|  | The key energy efficiency indicator is       %. |  |  |
| **3.6** | **Refrigeration cabinet covers** |  |  |
|  | Equipment and refrigeration cabinets designed for the normal refrigeration of food are fitted with glass covers or glass doors (with the exception of service counters where the personal from the food retail store must have permanent access during the store's opening hours). |  |  |
|  | The product documentation for the refrigeration equipment and refrigeration cabinets is enclosed. **Annex 10** |  |  |
| **3.7** | **Refrigerant** |  |  |
|  | In addition to the refrigeration system, all systems and equipment that use refrigerants (air-conditioning systems, heat pumps, cold storage containers and rooms and plug-in refrigeration equipment and refrigeration cabinets) exclusively use natural refrigerants. |  |  |
|  | The product documentation for all systems and equipment that use refrigerants with the relevant information on the refrigerant used is enclosed.  **Annex 12** |  |  |
| **3.8** | **Foaming agents** |  |  |
|  | In the food retail store building, no halogenated organic compounds are used as foaming agents or in the manufacture of the installed insulating materials. |  |  |
|  | Documentation about the foaming agents used in the building products is enclosed. **Annex 14** |  |  |
| **3.9** | **Interior lighting in the store** |  |  |
|  | The maximum electrical power consumption for the interior lighting of the sales area in the store, measured in watts per square meter of sales area [W/m²], does not exceed a value of 12 W/m². |  |  |
|  | The maximum electrical power consumption for the interior lighting of the sales area in the store is       W/m². |  |  |
|  | Verification of the calculated power consumption for the interior lighting of the store is enclosed. **Annex 15** |  |  |
|  | Verification of the calculated power consumption for the interior lighting of the store will be submitted after one year of operation. |  |  |
| **3.10** | **Use of daylight** |  |  |
|  | Daylight accounts for at least 20 % of the total amount of light required per year in mega lumen hours for the interior lighting in the store. |  |  |
|  | The percentage of the total amount of light required per year in mega lumen hours for the interior lighting in the store accounted for by daylight is       %. |  |  |
|  | In order to control the use of artificial light, daylight-dependent brightness sensors are installed. |  |  |
|  | A document on the calculation of the proportion of the interior lighting in the store accounted for by daylight is enclosed.  **Annex 16** |  |  |
|  | The product documentation for the installed brightness sensors is enclosed.  **Annex 17** |  |  |
| **3.11** | **Lighting concept** |  |  |
|  | In the event of the renovation of existing building stock and in the planning and construction of new buildings, a lighting concept for the interior lighting of the store that is optimised according to energy and lighting technology criteria has been created and observed. It provides information on the type and quantity of the fitted lamps, the electrical power consumption [watts], luminous flux [lumen] and illuminance level [Lux]. |  |  |
|  | The lighting concept is enclosed. **Annex 18** |  |  |
| **3.12** | **Photovoltaic systems** |  |  |
|  | A photovoltaic system designed for generating electricity from the sun's energy is installed on the premises of the business over an area that corresponds to at least 40 % of the roof area of the retail store. |  |  |
|  | Documentation on the installed photovoltaic system is enclosed.   **Annex 19** |  |  |
|  | Documentation on the size of the roof area is enclosed.  **Annex 20** |  |  |
| **3.13** | **Location/accessibility of the food retail store** |  |  |
|  | The food retail store is accessible using public transport. The nearest stop on the local public transport network is not further than 1000 metres away from the entrance/exit of the store. |  |  |
| **3.15** | **Sustainable building** |  |  |
|  | The renovation of existing building stock and the planning and construction of new buildings that are rented by the operator is carried out in accordance with the guidelines for sustainable building issued by the Federal Ministry of Transport, Building and Urban Development (BMVBS). |  |  |
|  | The building plans in accordance with the guidelines for sustainable building from the BMVBS including documentation of the building products used or a certificate from the DGNB of at least silver level are enclosed. Comparable certificates from other certifying body (e.g. LEED) can be accepted. **Annex 23** |  |  |
|  | **Sum of the optionally fulfilled requirements** |  |  |

**Annexes to the contract**

Please use this printed form of Annex 1 to the contract.

Please attach Annexes 2 to 22 to the application documents:

Annex 2: An Energy Performance Certificate for non-residential buildings in accordance with §§ 16 ff of the Energy Saving Directive (EnEV) from an independent expert or the calculation of the primary energy requirement according to EnEV carried out by an independent expert

Annex 3: Certification of the energy management system according to DIN EN ISO 50001, which covers at least the retail store included in the Blue Angel application

Annex 4: Certification according to EMAS, which covers at least the retail store in the Blue Angel application (optional)

Annex 5: Power supply contract for certified green electricity with additionality

Annex 6: Data for the completion of the quick efficiency check (please use the printed form in Annex 6)

Annex 7: Results of the quick efficiency check

Annex 8: Product documentation for the heat recovery installation, including information on the heat transfer capacity for utilising the waste heat

Annex 9: Verification of the heating load of the building according to EnEV

Annex 10: Product documentation for the refrigeration equipment and refrigeration cabinets including relevant information on the covers

Annex 11: Product documentation for the refrigeration systems, refrigeration equipment and refrigeration cabinets with relevant information on the refrigerants used

Annex 12: Product documentation for all systems and equipment that use refrigerants with relevant information on the refrigerants used (optional)

Annex 13: Product documentation for the refrigeration and air-conditioning technology installed with corresponding information on the foaming agents used

Annex 14: Documentation about the foaming agents used in the building products (optional)

Annex 15: Verification of the calculated electrical power consumption for the interior lighting of the store

Annex 16: Document on the calculation for the proportion of the lighting accounted for by daylight (optional)

Annex 17: Product documentation for the installed brightness sensors (optional)

Annex 18: Documentation on the lighting concept (optional)

Annex 19: Documentation on the installed photovoltaic system (optional)

Annex 20: Documentation on the size of the roof area (optional)

Annex 21: Documentation on the quantity and type of certified paper used for printed advertising brochures

Annex 22: In the case of buildings owned by the operator, building plans in accordance with the guidelines for sustainable building from the BMVBS including documentation of the building products used or a certificate from the DGNB of at least silver level or a comparable certificate

Annex 23: In the case of buildings rented by the operator, building plans in accordance with the guidelines for sustainable building from the BMVBS including documentation of the building products used or a certificate from the DGNB of at least silver level or a comparable certificate (optional)

|  |  |  |  |
| --- | --- | --- | --- |
| **Place:** |  |  |  |
|  |  |  |
| **Date:** |  |  |

**Legally binding signature /company stamp**