

EPB Standards

2015, December (List includes standards in OAS table B1. List is not complete.)

Overarching Standard, OAS

ISO/DIS 52000-1 Energy performance of buildings - Overarching EPB assessment - Part 1: General framework and procedures.

General

EN ISO 52003-1 Energy performance of buildings – Indicators, requirements and certification – Part 1: General aspects and application to the overall energy performance.

EN ISO 17772-1 Indoor environmental input parameters for design and assessment of energy performance of buildings- addressing indoor air quality, thermal environment, lighting and acoustics – Part 1 Standard.

EN ISO 52010-1 Energy performance of buildings – Overarching Assessment Procedures. External environment conditions – Part 1: Calculation Procedures.

EN 15459-1 Economic evaluation procedure for energy systems in buildings.

Building

EN ISO 52016-1 Energy performance of buildings – Building and Building Elements – Calculation of Sensible and Latent Thermal Energy Needs in a Building or Building Zone – Part 1: Calculation Procedures.

EN ISO 52017-1 Energy performance of buildings – Building and Building Elements – Calculation of the Dynamic Thermal Balance in a Building or Building Zone – Part 1: Detailed procedures.

EN ISO 52018-1 Energy performance of buildings – Building and building elements – Ways to Express Energy Performance and Energy Performance Requirements – Part 1: Expressions and Procedures.

EN ISO 13789 Thermal performance of buildings – Transmission and ventilation heat transfer coefficients – Calculation method.

EN ISO 13370 Thermal performance of buildings – Heat transfer via the ground – Calculation methods.

EN ISO 6946 Building components and building elements – Thermal resistance and thermal transmittance – Calculation method.

EN ISO 10211 Thermal bridges in building construction – Heat flows and surface temperatures – Detailed calculations.

EN ISO 14683 Thermal bridges in building construction – Linear thermal transmittance – Simplified methods and default values.

EN ISO 10077-1 Thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 1: General.

EN ISO 10077-2 Thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 2: Numerical method for frames.

EN ISO 12631 Thermal performance of curtain walling – Calculation of thermal transmittance.

EN ISO 13786 Thermal performance of building components – Dynamic thermal characteristics – Calculation methods.

ISO NP 10913 Calculation methods for the determination of air flow rates in buildings including infiltration.

EN ISO 52022-3 Energy performance of buildings – Building and Building Elements – Solar and Visual Characteristics – Detailed calculation method.

EN ISO 52022-1 Energy performance of buildings – Building and Building Elements – Solar and Visual Characteristics – Simplified calculation method.

Heating, DHW and energy supply

EN 15316-1 Energy performance of buildings - Heating and DHW systems in buildings – Part 1: General and Energy performance expression.

EN 12831-1 Heating systems in buildings — Method for calculation of the design heat load.

EN 12831-3 Domestic hot water systems heat load and characterisation of needs.

EN 15316-2 Energy performance of buildings – Space emission systems (heating and cooling).

EN 15316-3 Energy performance of buildings – Distribution systems (DHW, heating and cooling)

EN 15316-5 Energy Performance of Buildings – 5-1: Storage systems for heating and domestic hot water

EN 15316-4-1 Energy performance of buildings – Heating and DHW generation systems, combustion systems (boilers, biomass).

EN 15316-4-2 Energy performance of buildings - Heating systems – Part 4.2:1: Generation and control – Heat pumps systems.

EN 15316-4-3 Energy performance of buildings – Heat generation systems, thermal solar and photovoltaic systems.

EN 15316-4-4 Energy performance of buildings – Heat generation systems, building integrated cogenerations systems.

EN 15316-4-5 Energy performance of buildings – District heating and cooling

EN 15316-4-8 Energy performance of buildings – Heating systems and water based cooling systems in buildings – Space heating generation, air heating and overhead radiant heating systems, stoves (local).

EN 15378-3 Energy performance of buildings – Heating and domestic hot water measured energy performance.

EN 15378-1 Energy performance of buildings – Heating systems in buildings – Inspection of heating and domestic hot water systems.

Ventilation and cooling

EN 16798-9 Energy performance of buildings – Part 9: Ventilation for buildings – Calculation methods for energy requirements of cooling systems – General.

EN 16798-11 Energy performance of buildings – Calculation of the design cooling load.

EN 16798 – 15 Energy performance of buildings – Calculation of cooling systems – Storage – General.

EN 16798-13 Energy performance of buildings – Calculation of cooling systems – Generation.

EN 16798-17 Energy performance of buildings - Ventilation for buildings - Guidelines for inspection of ventilation and air conditioning systems.

EN 16798-3 Energy performance of buildings – Ventilation for non-residential buildings – Performance requirements for ventilation and room-conditioning systems

EN 16798-7 Energy performance of buildings – Ventilation for buildings – Calculation methods for energy requirements of ventilation and air conditioning systems – Part 7: Emission (determination of air flow rates).

EN 16798-5 Energy performance of buildings – Ventilation for buildings – Calculation methods for energy requirements of ventilation and air conditioning systems – Part 5-1: Distribution and generation – Method

Lighting

EN 15193-1 Energy performance of buildings – Energy requirements for lighting – Part 1: Specifications

Automatic and controls

EN 15232 Energy performance of buildings – Contribution of Building Automation, Controls and Building Management.

M10-11 ? Energy Performance of Buildings – Inspection for Building Automation and Control.

M10-12 ? Energy Performance of Buildings – Building Management System.