

Decree of the Ministry of the Environment

on the content of construction design models and regulatory inspections

By decision of the Ministry of the Environment, the following is hereby laid down pursuant to section 60 and section 61 and section 69 of the Building Act(751/2023), as they appear in the Act 897/2024 , and section 72:

Chapter 1

General provisions

Section 1

Scope

This Decree shall apply to the content, presentation, machine-readable information and format of construction designs, in-built models and special designs.

In addition, this Decree applies to the machine-readable format and the content of the data on building control inspections and the start-up meeting that must be submitted to the Built Environment Information System.

Section 2

Machine-readable form

For the purposes of this Decree, *machine-readable format* means a data or file format whose structure and format enable programs or software to easily identify, recognize and extract data sets, individual data, and data set and file structures.

Machine-readable format does not mean any file format or data created by photography, conversion to electronic format or any other comparable method where the resulting data requires optical character recognition, computer vision or other similar tool or technology to identify, recognise and extract the data.

Section 3

Data model file format

For the data models referred to in this Decree, the file format shall be the version of the Industry Foundation Classes (*IFC*)4.3.2.0 file or a later version. This file must comply with the Reference View data exchange view.

The IFC file must be saved in the IFC-SPF format.

Chapter 2

Data models and machine-readable data for design models, as-built models and specific plans

Section 4

Design model

The design model of a building consists of one or more data models of the building and the data model of the building site.

The design model shall contain the information referred to in Articles 7 and 8 of this Decree and the information set out in Annexes 1 and 2.

The provisions of paragraphs 1 and 2 above concerning building design models shall also apply to construction works.

Section 5

Machine-readable information about the building plan

If the party undertaking the building project does not submit the building data in the information model format referred to in section 4, the machine-readable data to be submitted instead of the information model shall contain the information specified in Annexes 1 and 3.

Section 6

Coordinate systems used

The location of the building site shall be defined in a nationally recognized coordinate system and height system, so that the site can be automatically referenced in the receiving system.

The application for authorisation shall use a unified coordinate system with all the data contained in the application.

Section 7

Building site data model.

The data model for the construction site shall contain the geometry of the area in the three-dimensional model. The three-dimensional model shall be limited to the boundaries of the construction site. The ground surface in the model shall be modelled so as to show the elevation variations of the ground surface.

The data model for the building site shall only be provided if the modifications made in connection with the construction, renovation or other modification concern the building site.

The building site data model shall contain the information on the building site referred to in Annex 1.

Section 8

Building data model

The building data model must be modelled in layers. The data model shall include building elements, premises and apartments within the building.

The building components of the external envelope must be separated from the internal building components. The type of construction element must be specified. Building

components must include information on whether they are new, to be preserved or to be demolished.

Section 9

Specific plan data model

The data model shall contain the core data pursuant to Annexes 4 and 5, details of the building components, details of the systems and details of the product components.

The data model of the specific plan shall be modelled in layers.

Section 10

Machine-readable information for the specific plan

The machine-readable data to be submitted instead of the data model of the specific plan shall contain the information set out in Annex 4.

Section 11

As-built model

The as-built model shall contain the actual data in accordance with section 4 and Annexes 1 and 2. The template for the as-built model of the specific plan shall contain the actual data in accordance with Section 9 and Annexes 4 and 5;

Section 12

Data of completed updated plans

Actual updated plans shall contain the actual data in accordance with Article 5 and Annexes 1 and 3. The actual updated plans of the specific plan shall contain the actual data in accordance with Article 10 and Annex 4.

Chapter 3

Machine-readable data from regulatory inspections

Section 13

Machine-readable data format for regulatory reviews and kick-off meeting data

The municipality shall submit the information referred to in section 14 of this Decree to the built environment information system in the form and structure supported by the technical interface of the built environment information system.

Section 14

Information to be submitted on regulatory inspections

For regulatory inspections, the following information shall be submitted to the information system for the built environment:

- 1) Permanent building code or other building identifier;
- 2) the type of inspection;
- 3) the first and last name of the author of the inspection;
- 4) the status of the inspection;
- 5) an indication of whether such an inspection is required by the licensing regulations; and
- 6) the date of the inspection.

Information on the findings of the inspection and on the subject matter of the inspection shall be provided in the case of regulatory inspections, if such information has been collected.

What is provided in subsections 1 and 2 shall also apply to the start-up meeting.

Section 15

Entry into force

This Decree shall enter into force on [date] [month] 20xx.

Helsinki xx xx 20xx

Minister for the Environment and Climate Change Sari Multala

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