

Innholdsfortegnelse

10 File formats

Stitching data in model

Control of production

Upgrade to "as built" model

Approval of models and drawings

Reporting, documentation and archiving

Professional responsibility

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1

1

1

2

2

2

3

10 File formats

Bane NOR requires open international file formats, and supports the development of these. Until these formats are available for all subjects in transport, other formats can be delivered by agreement with the individual projects.

Stitching data in model

Stitching data in the model with layers that have the prefix «R» will be easy to find and drag this data to the stitching directory depending on the software. Stitching data must have the same quality as input data. Input data will normally be established on the basis of measured data. Stitching should therefore be based on the same fixed marking basis from which the measurement was made.

Control of production

The model can be used for the reference of control and approval of the location and extent of various elements and objects in the facility. Based on measurement data of the built elements and objects, a geometric quality plan is created that describes different intermediate and projected elements.

Stated deviations and tolerances appear in contract documents and in technical regulations, or other related documents.

Measured data is provided by the contractor as «KOF» files where the objects are coded according to the agreed object code list.

In addition to «KOF» files, a printout of the calculated deviation will be provided in the form of a geometric control report. Differences that are outside the tolerance requirements must be marked out.

If the measurements show that an object has been built outside the tolerance requirements, the contractor must send a deviation report to the client. The client decides whether the relevant professional model is to be revised. The consultant may assume that all delivered «as built» measurements have been approved by the client.

Measurements must be sorted into the following categories:

- As built control points within tolerance requirements. Requires no revision of model. Objects automatically get «as built» status.
- Which built control points outside tolerance requirements, but which is approved by the client. Automatically leads to revision of the model.

Approved «Som Bygget» objects are checked based on the result model and collected in a new model. The model must be made available to the client and used for visualized control of «as built» status of the project.

Some deviations outside tolerance requirements can be considered by designers as «acceptable for the As Built Model». In this case, the model is not revised. The use of acceptable deviations shall not

reduce the quality of which the model was built in accordance with. further use in operational phase or future redesign.

- As built measurements of new or finished objects without plan data, used by designers to create new «as built» objects in the model.
- Measurement of existing facilities. The client and designer agree on what may be modeled.

If «as built» measurements entail changes that are important for the further construction, the original model must be revised and sent out as a plan change.

Upgrade to "as built" model

After feedback from the contractor, the designer shall upgrade the following models: result, display, coordination and source model to «as built» status.

- All updates are based on the contractor's own measurements and geometric quality control. If there is a need for supplementary measurements or correction of the contractor's delivery procedures, this is ordered through the client.
- Designers shall continuously upgrade all performance models to «as built» status in accordance with the contractor's progress and delivery of measurements.

Approval of models and drawings

All models and drawings must be checked and approved before delivery as described in the project's PDP and requirements for self-inspection. This must appear in the delivery.

The delivery is accepted by the recipient before these are considered delivered.

Reporting, documentation and archiving

Updates of basic data / planning material must be documented. Everyone in the project will be informed about such updates.

Reporting from advisers must be in accordance with the contract / agreement. Documentation shall not be sent directly from the consultant to the contractor without this having been agreed with the client / project. In all cases, the client must have a copy of the shipment.

- Guidance should normally be integrated into the tool
- In cases where this is not possible or the explanation that comes with the tool is too bad, a separate document is created called Guidance
- Guidance includes a detailed description of what or how a tool such as a computer system or other type of tool should be used
- Guidance may include requirements for the tool to be used correctly or for the result to be correct
- Guidance must be linked to the activities stated in the management system

The revision field and header retrieve data from the document profile in the ProArc archive system.

Fill in the document profile. These fields in the document do NOT need to be changed manually.

Professional responsibility

The BIM manager in Bane NOR has overall responsibility for the field.

The BIM manager is responsible for reporting the status of his or her areas of responsibility within set deadlines and with good quality, in accordance with regulations that apply at all times in the associated division.

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