

Skanska UK

BIM – supply chain guidance

1. BIM defined

- 1.1 Skanska UK define BIM as ‘a collaborative approach making sure the right project information gets to the right people at the right time’.
- 1.2 In Skanska we prefer to talk about ‘better information management’ rather than 3D and, when we talk about information, we actually mean; all project information, documents, drawings, spreadsheets and models.
- 1.3 The information you produce and we manage should be in digital, readable, original format and checked before being issued. This consists of:
 - Documentation (e.g. reports, documents, manuals and emails)
 - Non-graphical data (e.g. programmes, schedules and product datasheets)
 - Graphical models (e.g. 2D plans, elevations, sections and 3D models)
- 1.4 BIM is essentially an electronic method of information sharing.
 - If you can use the internet to find a car or book a holiday – then you can find drawings in our document management system
 - If you can fill in a spreadsheet – then you can provide most of the information we need
 - If you can drag and drop files between folders – then you can send and receive information
 - If you can do all these – then you can ‘do’ BIM.

2. BIM explained

- 2.0 Setting some perspective around what information is and isn’t.
- 2.1 Increasingly, customers are demanding that a digital asset is provided alongside the physical asset at hand over. They realise that the digital asset will help reduce operation and maintenance costs of their facilities. We all need to play our part to ensure we deliver the information they require in a format that can be transferred to their systems.
- 2.2 PAS 1192-2:2013 helps make the point that it’s not all about 3D CAD models, rather, the majority of the supply chain will provide us with documents, schedules and other information, with only a minority required to issue 3D models.
- 2.3 Therefore, it doesn’t mean that all the information has to be hosted in a 3D model and it doesn’t necessarily mean that you will be expected to deliver everything in 3D. If you are a supplier to Skanska, we won’t need lots of information on everything, rather we want information on assets our customers will need to maintain (typically items that have been deemed by the client as items requiring information for facilities management, or operational reasons).

3. Supply chain BIM survey

- 3.0 Skanska launched a supply chain BIM survey in 2015 for all of our key suppliers to complete. The BIM survey categorises the supply chain into nine differing categories to ensure we asked the right questions, to the right people, at the right time. For example, we didn’t want to ask a labour-only supplier to send us their CAD standards).
- 3.1 The purpose of the survey was for Skanska to understand what the level of BIM maturity of our supply chain is and to use this as the basis for an awareness guidance and training programme of workshops and seminars.
- 3.2 If you have yet to undertake the Skanska BIM survey, please take a few moments to do so by copying and pasting the following link to your web browser:

https://skanskauk.qualtrics.com/SE/?SID=SV_4IKXf3ZpRL4jLRX

3.3 We have taken the nine categories and grouped them into three:

1. Companies who incorporate a design element to their work for us
2. Companies who supply us with products, materials or services
3. Companies who simply require information from us to perform their work

Design, survey or design element:

- Design services
- CAD/BIM bureau
- Surveying services
- Design, supply and install
- Design and supply

Supply things:

- Products, supply and install
- Product supply

No design or supply

- Consultant (no design services)
- Plant/labour/transport/cranes

3.4 For more detail on what is expected of you we have created three briefing packs that you can download. The packs relate to what you do, how you produce information for us and how you can deliver that information to us.

4.0 It is likely you have all the information we need, but not necessarily in the right format.

4.1 If you create data, documents and information:

- Name it so we can find it
- Check it before you send it to us
- Use our document management system 4Projects, don't email it.
- If you need to find information – use our document management system, don't ask us to email it to you

4.2 If you provide us with information:

- We need your information electronically in its original format
- Check your information before you send it
- Name it consistently and accurately so it can be found
- Re-use other information where ever possible (enter it once, re-use it many times)
- Use Skanska's document management system 4Projects
- Do not email it

4.3 If you need information from Skanska:

- Use Skanska's document management system – 4Projects
- Do not ask for it to be emailed

4.4 We'll work with you early in our projects to let you know what information is required in your model and when.

Please note: Skanska will not be asking you to provide information you would not have previously been expected to supply. It will be information that tells us 'what it is' and 'where it is'. Just remember to add the information at the right time and check it is correct before you send it to us.

4. Skanska requirements

General

5. Skanska requirements *Design*

5.0 If you are a designer, surveyor or modelling bureau, then follow the simple guidance below.

5.1 Your models and drawings;

- Keep them full size 1:1 scale
- Use the common project origin and orientation
- Check and validate them before you send them
- Name the objects/cells/blocks/layers/levels consistently
- Name the files with BS 1192 mandatory fields
- Ensure all objects/cells/blocks properties identify what they are and where they are
- Model in a way that we can build/rehearse construction
- Model so we can set out direct from the model
- Adopt and enhance other designers models where possible
- Don't add more detail or properties than is required

6. Skanska requirements *Supply only*

6.0 If your package includes a design element, then follow the simple guidance below.

6.1 Your product information (required)

- Provide product data using product data sheets (e.g. CIBSE)
- Upload your product data sheets to our portal (coBuilder)

6.2 Your models, drawings and objects (design element or optional)

- Keep them full size 1:1 scale
- Name the objects/cells/blocks/layers/levels consistently
- Ensure all objects/cells/blocks properties identify what they are and where they are
- Model in a way that we can build/rehearse construction
- Don't add more detail or properties than is required

7. Skanska requirements *No design*

7.0 If you supply products or service but do not design, then follow the simple guidance below.

7.1 If you create, documents and information

- Name it so we can find it
- Check it before you send it to us
- Use our document management system 4Projects, don't email it

7.2 If you need to find information, see our document management system to find drawings and your tender package information

- Skanska want your information electronically in its original format
- Check your information before you send it
- Name it consistently and accurately so it can be found
- Re-use other information where ever possible (enter it once, re-use it many times). If we share and re-use data we avoid errors and omissions and we can hand over something of value to the customer
- Use Skanska's document management system 4Projects
- Do not email it

8. Document management system

8.0 All Skanska project information will be hosted on our document management system (EDMS) and should be as easy to find as a car or a holiday on the internet.

8.1 The IT requirements for our electronic document management system 4Projects can be found by following the links below:

<https://vfp-help.viewpoint.com/FAQs/ITAdministration/tabid/442/language/en-GB/Default.aspx>
<https://vfp-help.viewpoint.com/Basics/SystemRequirements/tabid/423/language/en-GB/Default.aspx>

8.2 An EDMS is a digital attempt of demonstrating best practice. Simply put, it is a digital replicate of a drawing hanging file, which is the place to find the latest approved drawings on a construction site.

8.3 The process of managing information through an electronic document management system is not new. We have set up the technology to match the processes embodied in a drawing issue sheet. That is, we know what is to be produced, when, sent to whom and for what purpose. Each purpose will then trigger a workflow that will ensure that the information you are looking for is the latest approved.

8.4 When you need to send us information, we have set up the system so that you can simply drag and drop files from your networks to our EDMS. The key message here is that – Skanska will give you training should you require it.

9. Summary

9.0 Our message to the supply chain about BIM is summarised in the four points below:

- We want to work with you to hand over a digital asset as well as a physical one. You can play your part by helping us to build the digital asset for handover
- We are not going to ask you to produce anything more than you did in the past, just that it will be in a different format. You probably already have what we need
- We need your information to build, in the right format, in the right location; that is '4Projects'.
- And, please check your information before you send it