

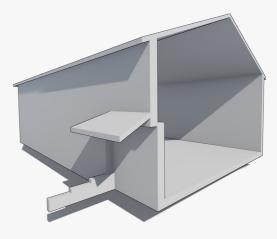
3D MODEL POCKET GUIDE

LOD—(Levels Of Detail) Building Models



LOD 1—Massing Model

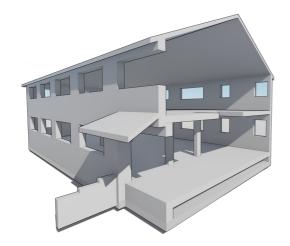
- → Shows approximate shape of the external building envelope.
- → Provides height, width and depth but no specific openings.
- → No services or architectural features will be shown.



SUITABLE FOR:

Buildings surrounding a site that may cover a large area, basic site massing in conjunction with a topographical model, buildings on a site that are not being developed but position & size needs noting.

LOD 2—Outline Model



- → Shows the **building mass** with only key elements in basic modelling:
- → Door & Window openings (and other significant structural openings)
- \rightarrow Stairs & ramps
- → Primary structural elements: beams & columns, floor slabs, walls, roofs
- → No detailed architectural elements will be shown and no families modelled.

SUITABLE FOR:

Right to light, buildings adjacent to site, intensive works where a record of existing buildings is required.

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LOD—(Levels Of Detail) Building Models



LOD 3—Standard Survey Model

- → As with the LOD 2 model, also including standard architectural and structural elements.
- → Revit standard families will be used for elements such as: doors & windows, stairs & ramps, railings, fixed furniture (worktops, sanitary fittings, fixed shelving)

Basic outline modelling will be used for elements such as:

- → MEP (Ducting, pipework, electrical panels etc. pipework shown at >50mm diameter only).
- → Other specific features must be requested as part of the quote, and will be modelled in a to LOD 2 as standard.



SUITABLE FOR:

Most building projects where substantial changes are planned.



SUITABLE FOR:

Listed buildings or projects where large amounts of the existing fabric are to be retained.

- → As with the LOD 3 model, this model will contain more detailed architectural and structural elements.
- → Project specific families will be used for elements such as: doors & windows, stairs & ramps, railings, fixed furniture & architectural detailing (e.g. architraves, mouldings)
- → Materials (these will be Laser Surveys standard materials used as a representation only).
- → Other specific features such as radiators, lighting, etc, must be requested as part of the quote, along with LOD required.

Basic outline modelling will be used for elements such as:

→ **MEP** (see LOD 3 standard survey model).

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LOD 4—High Detail Survey Model

LOD—(Levels Of Detail) Site Models



LOD 1—Site Massing Model

- \rightarrow Shows the **basic toposurface**.
- \rightarrow Levels taken from **measured point level data** on site by our surveyors.
- \rightarrow **No specific regions** or elements will be identified.
- → Often used in conjunction with a building model to show wider context or as a base for clearer visualisation.

SUITABLE FOR:

Large site areas where the building model is the focus but some context and height data may be required

LOD 2—Outline Model (Subregions defined)

- → Shows the **basic toposurface** for the site.
- \rightarrow Levels taken from **measured point level data** on site by our surveyors.
- → Split into subregions to represent changes in surface (e.g. grass, gravel, concrete).
- → Where kerbs and other notable level changes occur the surface will be split and tidied to show the step clearly.
- → Where buildings are identified within the survey area a building pad will be placed to show extent, shape and location.
- ightarrow Materials identified will be Laser Surveys standard materials, used as a representation only.



SUITABLE FOR:

Most standard site models where general changes to the site are planned, for locating new projects within a site and for working on existing buildings that required slightly more contextual detail.

LOD—(Levels Of Detail) Site Models



LOD 3—Detailed Site Model

 \rightarrow As with the LOD 2 model, also including site features such as:

Steps & ramps, Lamp posts, Barriers, Fences, Walls, Trees & large elements of planting

- → Other street furniture such as bins, benches and signposts will only be shown if requested at quote stage
- → All families shown will be **Revit standard families or Laser Surveys standard families**.

SUITABLE FOR:

Most building projects where substantial changes are planned, or where a large amount of site elements need to be considered.



LOI—(Levels of information)

Please note that due to the projects being carried out generally being on existing buildings, the information included in the model families will only cover basic information (such as the model category, dimensions, location and type. We can include observations such as assumed material based on non-intrusive methods where required, but cannot comment on such things as construction build ups or structural integrity).



Further Information

Please see our full guide for more information on 3D services, or our <u>website</u> for information on all other services we provide.



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