**BIM Level of Detail Specification** 



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Level 1 – Mass Model



Modeling on the Level of Detail 1 is generally used for the depiction of the architectural context in which the investment is occurred. Based on the solid models of the building environment there is a chance to explore the level of sunlight.

- $\neg$   $\;$  least detailed and most generate model of BIM  $\;$
- $\neg \quad$  it presents the general form of the building,
- on this level no details like windows, doorways, elements of the service or architectural ones are presented



#### Level 2 – Basic Structural model



Modeling on the level of detail 2 is used to create a base project in the preliminary architectural concept. For example a BIM model (LoD2) generates details in the same way as a 2D documentation in the scale 1:200.

- the model contains the most important structural elements and openings in the building including floors, columns, beams and door openings and windows in a basic form
- ¬ the model doesn't present the elements of the installation or even architectural details, partition
   walls or interior doors



### Level 3 – Basic Architectural model



Modeling on the level of detail 3 is used as a base project excluding the construction documentation. The BIM model (LoD3) generates details in the same way as a 2D documentation in the scale 1:50 or 1:100.

- ¬ the model contains all structural elements and basic simplistic architectural details.
- $\neg$   $\;$  external woodwork like doors and windows are marked
- $\neg$  on this level the inner walls with doors and installation components are presented





#### Level 4 – Detailed Architectural model

Modeling on the level of detail 4 is generally used for creating engineering projects as well as for the finishing projects. What more, the model BIM (LoD4) represents the most geometrically described architectural details.

- $\neg$   $\;$  this level contains in detail all structural elements as well as the architectural ones
- $\neg$  modelled are even the smallest items of installation and furniture

external woodwork like doors and windows along with door handles are marked



Walls







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Not included







Not included







### **Sanitary Ware**



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## **Facade Details**







Level 2

Level 3

Level 4

# **Topographical Details**



<b>3D</b> eling				3D Laser Scanning Measured Building Surveys Digital Photogrammetry Measured Industrial Surveys 3D Scanner Data Processing	
Revit Version	20:	17 🗌 2018 🗌	2019 🗌	2020 🗌	
Resolution (min size of detail shown)		20mm 🗌	50 mm 🗌	100 mm 🗌	
Modeling Accuracy					
Wall, Floor, Structure		15 mm 🗌	30 mm 🗌	50 mm 🗌	
• Roof		20 mm 🗌	40 mm 🗌	60 mm 🗌	
Services		20 mm 🗌	40 mm 🗌	60 mm 🗌	
Openings		15 mm 🗌	30 mm 🗌	50 mm 🗌	
2D Documentation generated from the Revit model		el Yes			
			1,08.65	3.89 DH 2.28 108.93	
	Not included	RAW model extractio	n With ann	otations added	
Floor Plans					
Reflected Ceiling Plans					
Sections					
Exterior Elevations					
Roof Plans					

#### Comments: