

# BIM Specification

## ARK\_NordicLCA\_Housing\_Timber\_BuildingPermit.ifc

DISCIPLINE	Architecture
Illustration image	
Object	
Intended use	
Design phase	building permit
Revision date	
Organisation	Arkkitehtitoimisto Huvila
BIM contact person	
Contact email address	
Contact telephone number	
Principal designer	
Project manager	Rita Lavikka
Software and versions used	Revit 2024
Separate models and documents related to this model	ARK_NordicLCA_Housing_Timber_BuildingPermit.rvt ARK_NordicLCA_Terrain_Timber_BuildingPermit.ifc ARK_NordicLCA_Terrain_Timber_BuildingPermit.rvt ARK_NordicLCA_Housing_Timber_BuildingPermit_Materials_and_Products.xlsx
Additional information and comments	

GENERAL MODELLING PRINCIPLES			
Classification systems used	Talo2000		
Layer systems used	Talo2000		
Naming of building elements	<a href="http://uri.suomi.fi/codelist/rakrek/raktkk_builtsystem_1_0">http://uri.suomi.fi/codelist/rakrek/raktkk_builtsystem_1_0</a>		
Unit system	Metric		
Coordinate system	ETRS-GK 25 planar coordinates N2000 elevation system		
Origin location (x,y,z)	Origin	X = E = I 25505171,787	Y = N = P 6707188,716
		Z 0,000	

	Models are not rotated in the project coordinate system; all models are placed in a true-north position.																
Level names and elevations in the N2000 system	<table> <tr><td>Sea level</td><td>+0,00</td></tr> <tr><td>Foundations</td><td>+47,300</td></tr> <tr><td>Basement</td><td>+49,070</td></tr> <tr><td>Level_01</td><td>+52,000</td></tr> <tr><td>Level_02</td><td>+55,144</td></tr> <tr><td>Level_03</td><td>+58,458</td></tr> <tr><td>Level_04</td><td>+61,772</td></tr> <tr><td>Roof</td><td>+64,677</td></tr> </table>	Sea level	+0,00	Foundations	+47,300	Basement	+49,070	Level_01	+52,000	Level_02	+55,144	Level_03	+58,458	Level_04	+61,772	Roof	+64,677
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IFC version	IFC4 (IFC 4.0.2.1)																
Level of detail (LoD)	building permit																
Deviations from the LoD																	
Level of information (LoI)	building permit																
Deviations from the LoI																	
Presentation of the phasing	-																

Building element and component coding	Source of information
<a href="http://uri.suomi.fi/codelist/rakrek/raktkk_builtsystem_1_0">http://uri.suomi.fi/codelist/rakrek/raktkk_builtsystem_1_0</a>	Element attribute/ Name

	Propertyset	Property	Used values
<b>Identification of the external envelope of the building</b>	Pset_____Common	IsExternal	Components that are part of or outside the outer envelope TRUE Components inside the outer envelope FALSE or empty
<b>Identification of load-bearing building elements</b>	Pset_____Common	IsLoadbearing	Load-bearing components TRUE Non-load-bearing components FALSE or empty
<b>Identification of surface materials in rooms</b>	Pset_____Common	WallCovering CeilingCovering FloorCovering	Surface materials in text format according to the attachment: SurfaceMaterials_ARK_NordicLCA_Housing_Concrete_BuildingPermit.xlsx