

EXPORTING IFC FROM REVIT: MAPPING

1 When we export a model from Revit to IFC we first need to map appropriate Revit Categories with IFC classes (entities)

Revit Category	IFC Class Name	IFC Type
Membrane Layer	IfcWall	
Reveals	IfcOpeningElement	
Stacked Walls	IfcWall	
Structure [1]	IfcWall	
Substrate [2]	IfcWall	
Surface Pattern	IfcWall	
Thermal/Air Layer [3]	IfcWall	
Wall Sweep - Cornice	IfcWall	
Wall Sweep - Trim	IfcWall	
Wall Sweeps	IfcWall	
Walls/Interior	IfcWall	
Walls/Exterior	IfcWall	
Walls/Foundation	IfcWall	
Walls/Retaining	IfcWall	
Weld Tags	Not Exported	
Window Tags	Not Exported	
Windows	IfcWindow	
Elevation Swing	IfcWindow	
Fensterbank aussen	IfcWindow	
Fensterbank innen	IfcWindow	
Fenstersymbol (Ansicht)	IfcWindow	
Fensterumbal (Grundriß)	IfcWindow	

We can use a mapping table (on the left) to perform such mapping. The table is located in IFC export options

For example, the Revit category Wall has a corresponding IFC class called IfcWall and so on.

If we don't want to export the Revit category we write in a table NotExported

All available IFC classes are listed in its documentation under Entities

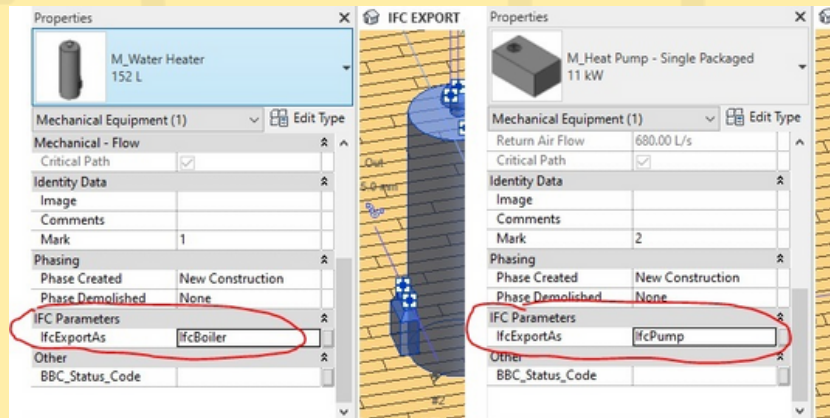
[-LINK TO DOCUMENTATION](#)

2 There is also another way to map Revit categories to IFC classes - using IFC parameters

If you want to export a certain element and map it to specific IFC class use the IFC parameter called IfcExportAs

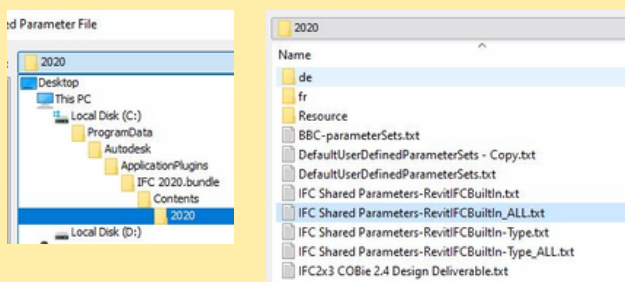
This method is helpful to export Revit families which are grouped in general categories like: Mechanical Equipment.

Such a category can contain many various elements like boilers and pumps and it's impossible to map those families to proper IFC class using table.



We just type in a name of the IFC class in the parameter value (picture above). It will override a mapping defined in the table.

3 Use a build-in IFC shared parameters file



IFC shared parameters file contains all necessary properties which can be used to perform IFC export. Location of the file - (fig. on the left).

You can also download it from - [HERE](#)

