

Exercise duration: ~20 minutes

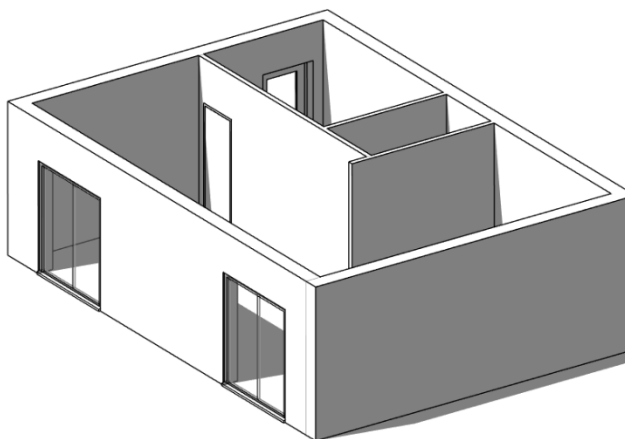
## Practice exercise

### Load and apply classification information

Load a classification system into a Revit project model. Read information requirements documentation before assigning the necessary information to the 3D model.

#### Learning objectives:

- Load classification systems into a Revit project.
- Read information requirements documentation.
- Apply information to 3D model elements within a Revit project model.
- Apply project information to a Revit project.
- Investigate information attached to elements and contained within a Revit project.



Project Information

Family: System Family: Project Information Load...

Type: Edit Type...

Instance Parameters - Control selected or to-be-created instance

Parameter	Value
<b>IFC Parameters</b>	
IfcSite GUID	
IfcBuilding GUID	
IfcProject GUID	
<b>Data</b>	
Classification.Facility.Description	Houses
Classification.Facility.Number	En_45_10_39
<b>Route Analysis</b>	
Route Analysis Settings	Edit...
<b>Other</b>	
Project Issue Date	08/02/2025
Project Status	WIP SO
Client Name	Autodesk
Project Address	Autodesk Campus
Project Name	Autodesk School of Design and BIM
Project Number	PRJ001

OK Cancel

*The completed exercise*

1. In Revit, open the provided dataset, **Base level complete.rvt**.

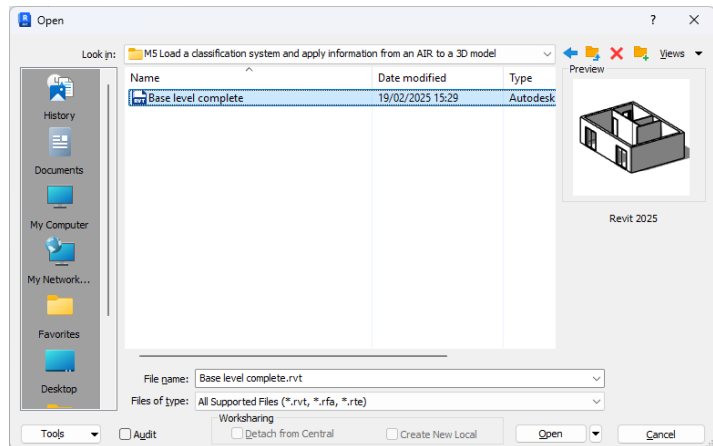


Figure 1. Revit project file for the exercise.

2. Select all of the external walls.

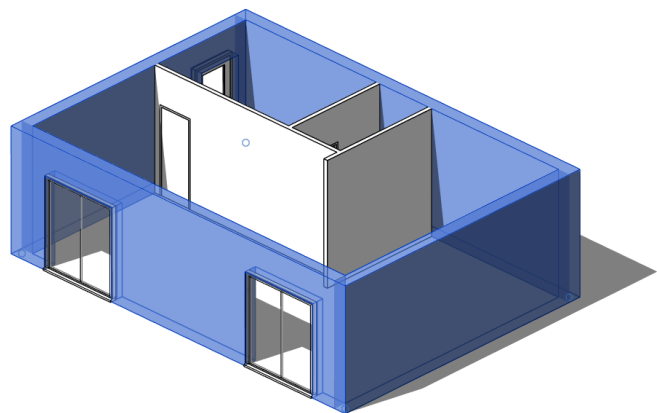


Figure 2. All external walls selected.

3. Click Assign Classification to open the classification dialog.

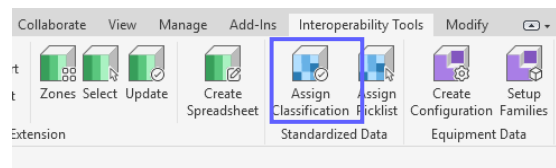


Figure 3. Interoperability Tools > Standardized data panel.

4. Load the Uniclass 2015 database into the project.

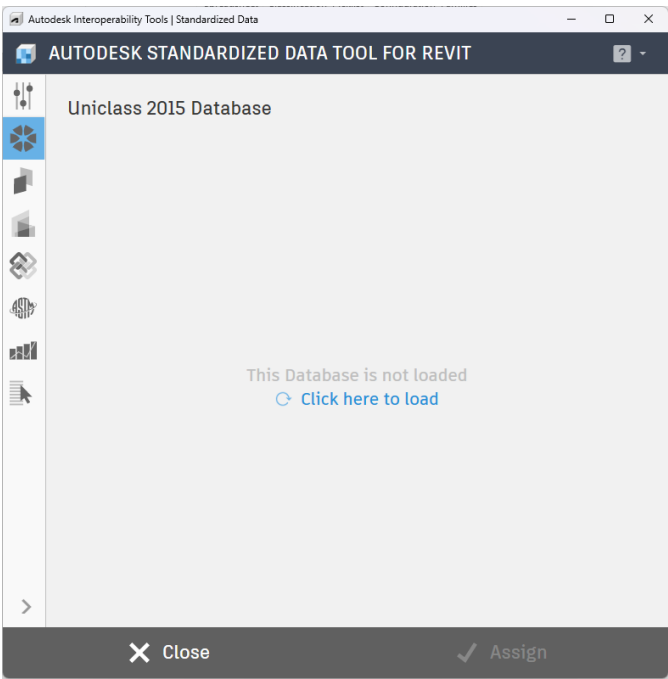


Figure 4. Standardized Data dialog.

5. Open the **Air Appendix A.xls** file to view the information required.

For this example, it is stage 3 and you work for the Architectural Company.

You have walls and doors in your model, and they all require information at this stage.

			COBie System Name	COBie System Category	COBie System Component Names	COBie Type Name	COBie Type Asset Type	COBie Type Category	COBie Type Description
System	Type	Element							
Ss_20_05_15 Concrete Foundation Systems	Pr_20_85_13 Concrete Base and Foundation Products	Foundations	3S	3S	3S	4S	4S	4S	4S
Ss_20_10 Structural Frame Systems	Pr_20_65_34_51 Metal Framed Structures	Structural Steel	3S	3S	3S	4S	4S	4S	4S
Ss_20_10_75_15 Concrete Framing Systems	Pr_20 Structure and General Products	Structural Concrete	3S	3S	3S	4S	4S	4S	4S
Ss_25_10_20 Curtain Walling Systems	Pr_20_76_51_02 Aluminium Curtain Wall Frame Sections	Curtain Walling	3A	3A	3A	4A	4A	4A	4A
Ss_25_10_30 Framed partition Systems	Pr_25_71_57_60 Partition Panels	Wall Partitions	3A	3A	3A	4A	4A	4A	4A
Ss_25_10_35 Framed Glazed Systems	Pr_25_71_57_61 Partition Screens	Glazed Partitions	3A	3A	3A	4A	4A	4A	4A
Ss_25_30 Door and Window Systems	Pr_30_59_24_97 Wood Doorset	Doors	3A	3A	3A	3A	3A	3A	3A
Ss_25_30 Door and Window Systems	Pr_30_59_24_04 Automatic Revolving Doorsets	Revolving Doors	3A	3A	3A	3A	3A	3A	3A
Ss_25_30 Door and Window Systems	Pr_30_59_98 Window Units	Windows	3A	3A	3A	4A	4A	4A	4A
Ss_25_20_70 Rainscreen cladding System	EF_25_10_25 External Walls	External Walls	3A	3A	3A	4A	4A	4A	4A

Figure 5. AIR Appendix A.



8. Select the code from the list and click Assign to assign the code to all of the external walls. The code should highlight blue for a moment and display the word ASSIGNED.

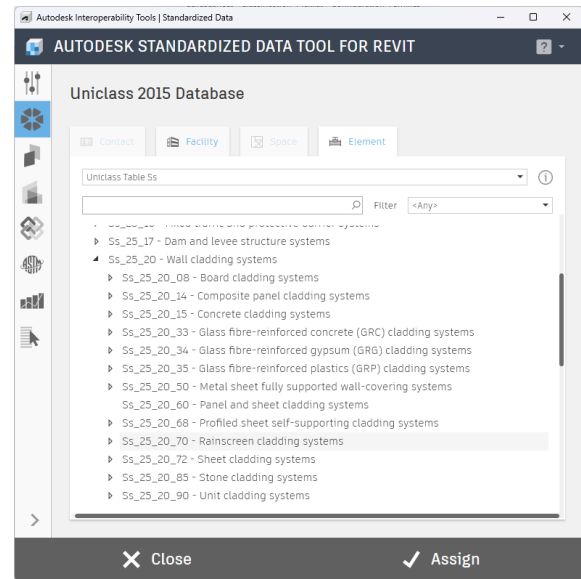


Figure 8. Wall Uniclass information assigned.

9. In the 3D view, click Edit Type to inspect the type properties of the External Walls.

You should see the code as per the AIR appendix.

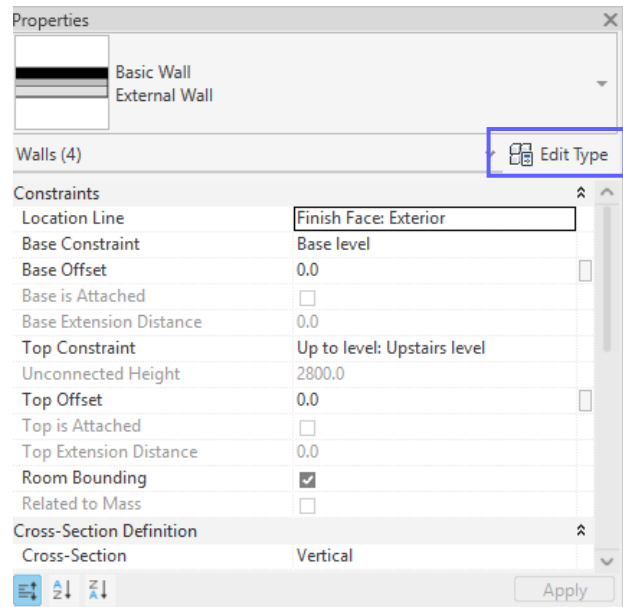


Figure 9. Properties palette.

10. Select the internal walls.

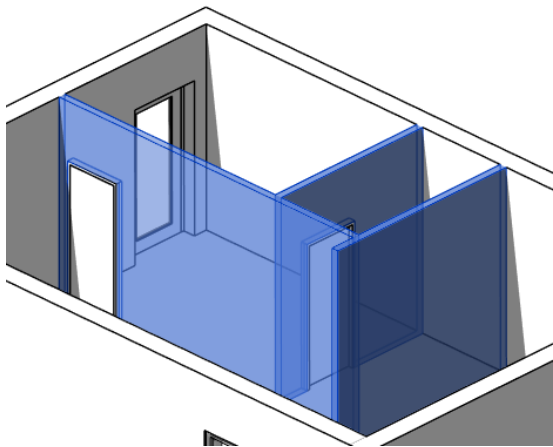


Figure 10. All internal walls selected.

11. Internal, or partition walls require System information indicated by 3A.

			COBie System Name	COBie System Category	COBie System Component Names	COBie Type Name	COBie Type Asset Type	COBie Type Category	COBie Type Description
System	Type	Element							
Ss_20_05_15 Concrete Foundation Systems	Pr_20_85_13 Concrete Base and Foundation Products	Foundations	3S	3S	3S	4S	4S	4S	4S
Ss_20_10 Structural Frame Systems	Pr_20_65_34_51 Metal Framed Structures	Structural Steel	3S	3S	3S	4S	4S	4S	4S
Ss_20_10_75_15 Concrete Framing Systems	Pr_20 Structure and General Products	Structural Concrete	3S	3S	3S	4S	4S	4S	4S
Ss_25_10_20 Curtain Walling Systems	Pr_20_76_51_02 Aluminium Curtain Wall Frame Sections	Curtain Walling	3A	3A	3A	4A	4A	4A	4A
Ss_25_10_30 Framed partition Systems	Pr_25_71_57_60 Partition Panels	Wall Partitions	3A	3A	3A	4A	4A	4A	4A
Ss_25_10_35 Framed Glazed Systems	Pr_25_71_57_61 Partition Screens	Glazed Partitions	3A	3A	3A	4A	4A	4A	4A
Ss_25_30 Door and Window Systems	Pr_30_59_24_97 Wood Doorset	Doors	3A	3A	3A	3A	3A	3A	3A
Ss_25_30 Door and Window Systems	Pr_30_59_24_04 Automatic Revolving Doorsets	Revolving Doors	3A	3A	3A	3A	3A	3A	3A
Ss_25_30 Door and Window Systems	Pr_30_59_98 Window Units	Windows	3A	3A	3A	4A	4A	4A	4A
Ss_25_20_70 Rainscreen cladding System	EF_25_10_25 External Walls	External Walls	3A	3A	3A	4A	4A	4A	4A

Figure 11. AIR appendix.

12. Open the Classification dialog.

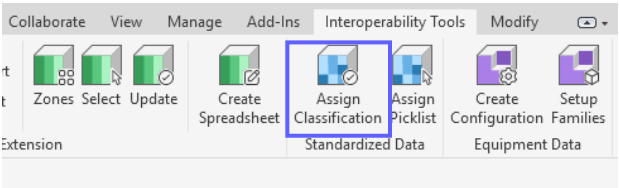


Figure 12. Assign classification.

13. Assign the classification code to the internal walls as per the AIR appendix.

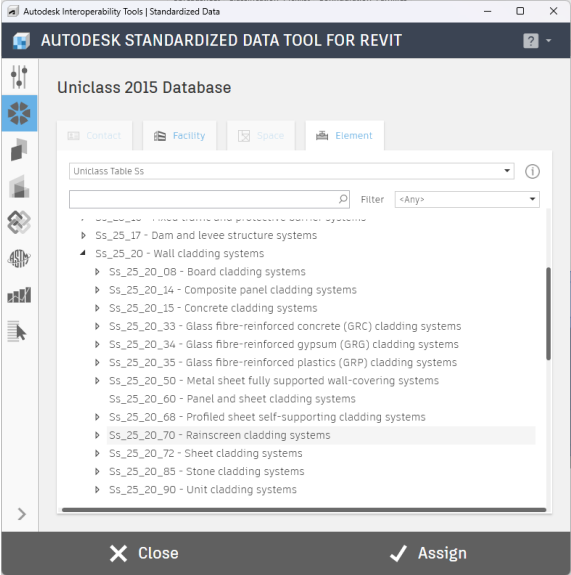


Figure 13. Classification codes.

14. Select all of the doors in your project.

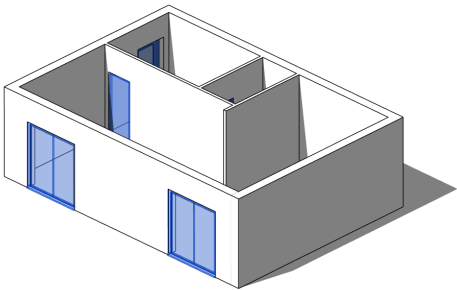


Figure 14. All doors in the model selected.

15. Doors require System and also Type information to be assigned during stage 3.

			COBie System Name	COBie System Category	COBie System Component Name	COBie Type Name	COBie Type Asset Type	COBie Type Category	COBie Type Description
System	Type	Element							
Ss_20_05_15 Concrete Foundation Systems	Pr_20_85_13 Concrete Base and Foundation Products	Foundations	3S	3S	3S	4S	4S	4S	4S
Ss_20_10 Structural Frame Systems	Pr_20_65_34_51 Metal Framed Structures	Structural Steel	3S	3S	3S	4S	4S	4S	4S
Ss_20_10_75_15 Concrete Framing Systems	Pr_20 Structure and General Products	Structural Concrete	3S	3S	3S	4S	4S	4S	4S
Ss_25_10_20 Curtain Walling Systems	Pr_20_76_51_02 Aluminium Curtain Wall Frame Sections	Curtain Walling	3A	3A	3A	4A	4A	4A	4A
Ss_25_10_30 Framed partition Systems	Pr_25_71_57_60 Partition Panels	Wall Partitions	3A	3A	3A	4A	4A	4A	4A
Ss_25_10_35 Framed Glazed Systems	Pr_25_71_57_61 Partition Screens	Glazed Partitions	3A	3A	3A	4A	4A	4A	4A
Ss_25_30 Door and Window Systems	Pr_30_59_24_97 Wood Doorset	Doors	3A	3A	3A	3A	3A	3A	3A
Ss_25_30 Door and Window Systems	Pr_30_59_24_04 Automatic Revolving Doorsets	Revolving Doors	3A	3A	3A	3A	3A	3A	3A
Ss_25_30 Door and Window Systems	Pr_30_59_98 Window Units	Windows	3A	3A	3A	4A	4A	4A	4A
Ss_25_20_70 Rainscreen cladding System	EF_25_10_25 External Walls	External Walls	3A	3A	3A	4A	4A	4A	4A

Figure 15. Door Uniclass information.

16. Assign both codes to all doors.

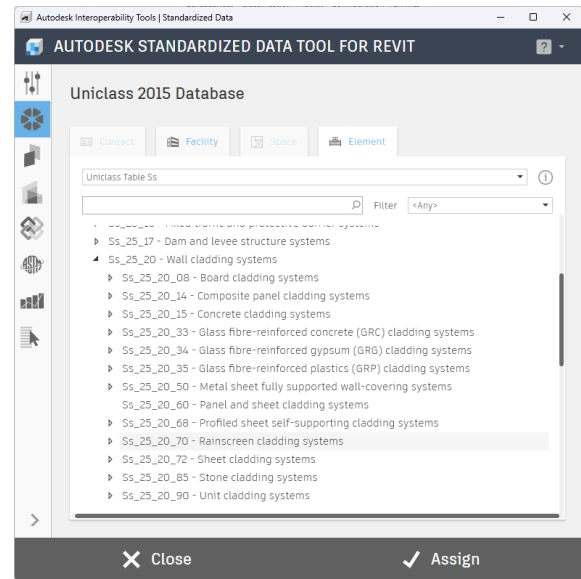


Figure 16. Classification information.

17. In the 3D view, ensure no elements are selected and click Assign Classification to open the dialogue.

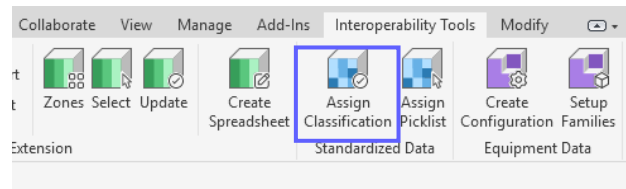


Figure 17. Uniclass tables.

18. Expand the codes to find En\_45\_10\_39 and click Assign to assign it to the project.



Figure 18. Uniclass Entity codes

19. In the Ribbon, Manage tab, Settings panel, click Project Information to open the dialog.

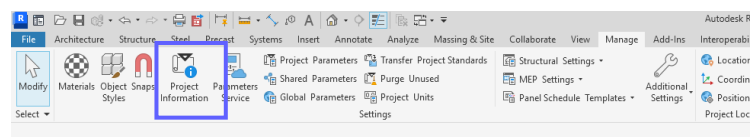


Figure 19. Manage tab > Settings panel > Project Information.



20. Add the information below here as per the BIM Execution Plan.

- Status.
- Client.
- Project name.
- Address.

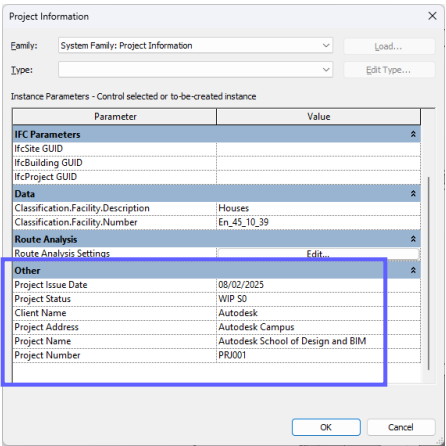


Figure 20a. Project Information dialog.

**PROJECT DOCUMENT CONTROL**

**DOCUMENT DETAILS**

Project Name	Autodesk School of Design
Project Code	PRJ001
Appointing Party (client)	Autodesk
Lead Appointed Party (LAP)	Contractor Company
Project description	Design and build new education asset
Issue Date (Publish Date)	31/01/25
Project Address	TBC
Site Name	Autodesk Campus

Figure 20b. BIM Exécution Plan.