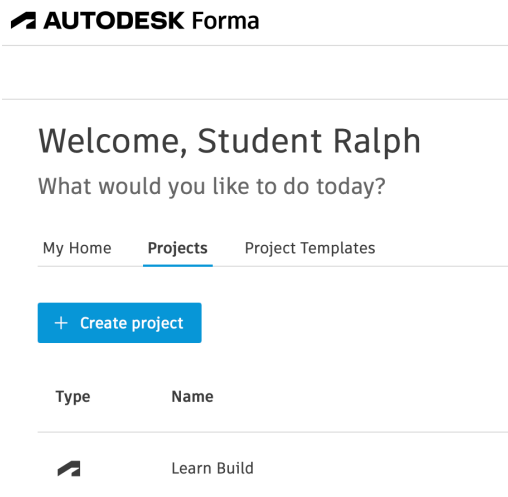


Practice exercise – Answer Key

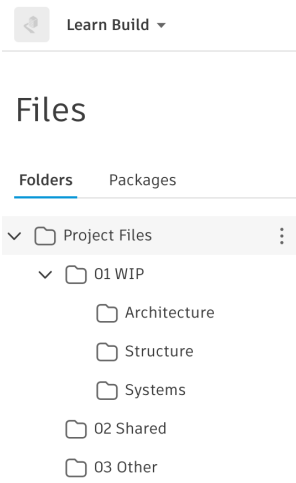
Access and explore project information in Forma Build

The following steps were completed in the videos for **Module 1: Access and navigate project information in Forma for Construction**. If you followed along in the videos, you are ready to start the exercise that follows these steps. If you have *not* already performed these steps, make sure to complete them first:

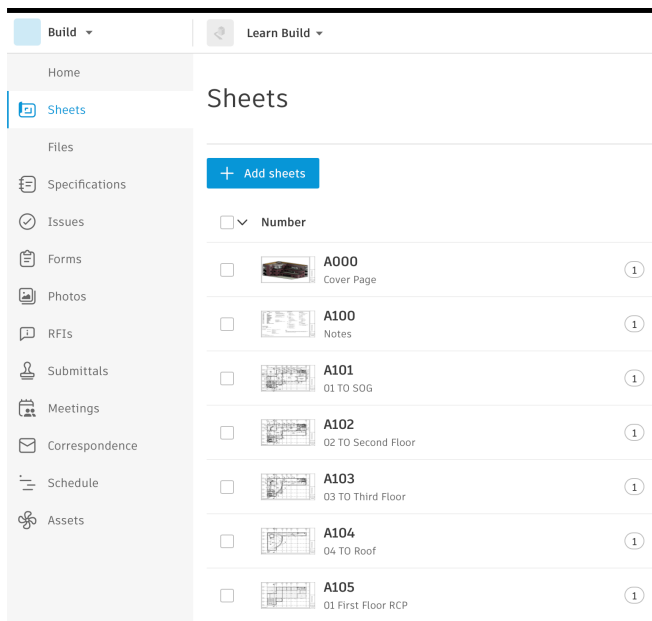
1. You gained access to the Learn Build Project on Autodesk Forma for Construction by using the invitation sent to you by your instructor.



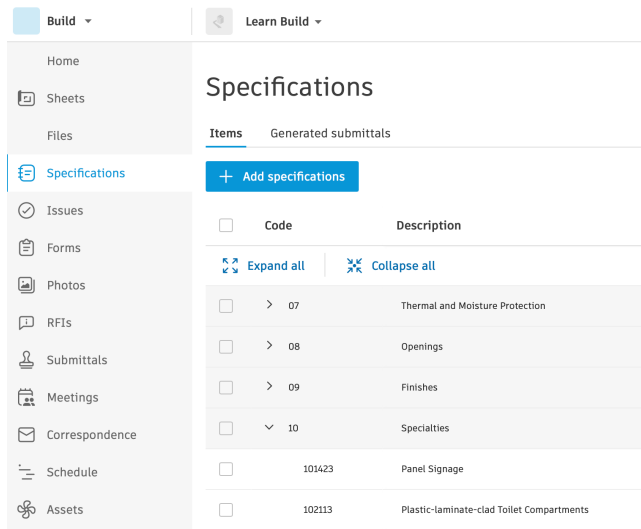
2. You created a folder structure in Data Management to include 01 WIP, 02 Shared, and 03 Other.



3. You uploaded the files from the dataset folder you downloaded for this course into the corresponding folder on Data Management.
 - a. You uploaded the **Architectural Model.rvt** file from the Version 1 folder in the dataset folder to the Architecture folder on Data Management.
 - b. You uploaded the **Structural Model.rvt** and **Structural Sheets.pdf** files from the Version 1 folder in the dataset folder to the Structure folder on Data Management.
 - c. You uploaded the **Systems Model.rvt** file from the Version 1 folder in the dataset folder to the Architecture folder on Data Management.
 - d. You uploaded the other files on the dataset folder into the 03 Other folder on Data Management.
4. You imported the sheets from Data Management into Build and included the sheet names and numbers.



- You used the Specifications tool to extract the MasterFormat sections from the **Specifications.pdf** file in the dataset folder.



Once these steps are completed, you will be ready to start the exercise. You will use Forma Data Management to locate and review project sheets, models, and specifications to become familiar with the tools used to navigate and retrieve project information.

Learning objectives:

By the end of this exercise, you should be able to:

- Access project sheets and models from Data Management.
- Navigate drawings, models, and project files in Build.
- Access and explore specifications in Build.

Success criteria:

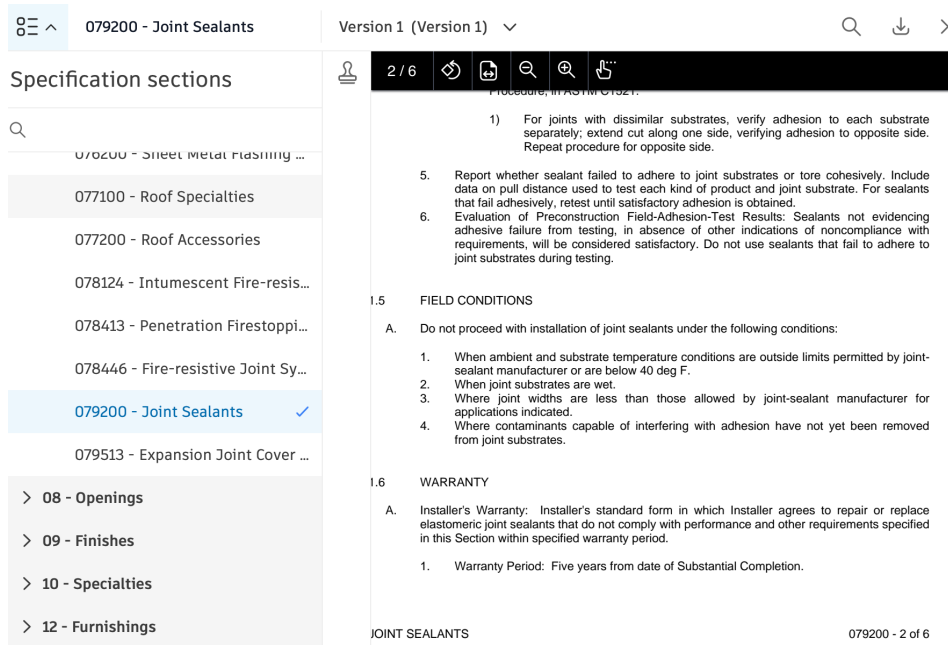
- Project sheets and models are successfully accessed from Data Management.
- Drawings and models are opened and navigated in Build.
- Specifications are successfully accessed and reviewed.
- Project information is located using the available navigation tools.
- Exercise questions are completed and answers are submitted for review.

Answer the following questions based on the specifications, sheets, and models uploaded to Forma for Construction Build.

1. What is the required warranty period to be provided for joint sealants in section 079200?

Answer Key

Five years from date of Substantial Completion.



079200 - Joint Sealants Version 1 (Version 1) 🔍 ⬇️ ✕

Specification sections

- 070200 - Sheet Metal Flashing ...
- 077100 - Roof Specialties
- 077200 - Roof Accessories
- 078124 - Intumescent Fire-resis...
- 078413 - Penetration Firestoppi...
- 078446 - Fire-resistive Joint Sy...
- 079200 - Joint Sealants** ✓
- 079513 - Expansion Joint Cover ...
- > 08 - Openings
- > 09 - Finishes
- > 10 - Specialties
- > 12 - Furnishings

2 / 6 🔍 ⬇️ ✕

1) For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.

5. Report whether sealant failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. For sealants that fail adhesively, retest until satisfactory adhesion is obtained.

6. Evaluation of Preconstruction Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing, in absence of other indications of noncompliance with requirements, will be considered satisfactory. Do not use sealants that fail to adhere to joint substrates during testing.

1.5 FIELD CONDITIONS

A. Do not proceed with installation of joint sealants under the following conditions:

1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F.
2. When joint substrates are wet.
3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

1.6 WARRANTY

A. Installer's Warranty: Installer's standard form in which Installer agrees to repair or replace elastomeric joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.

1. Warranty Period: Five years from date of Substantial Completion.

JOINT SEALANTS 079200 - 2 of 6

2. What should be included in the product data submitted for each type of tile?

Answer Key

For each type of tile, mortar, grout, and other products indicated.

Specification sections

Q

- 079200 - Joint Sealants
- 079513 - Expansion Joint Cover ...
- > 08 - Openings
- ▼ 09 - Finishes
 - 092116 - Gypsum Board Shaft-w...
 - 092216 - Non-structural Metal F...
 - 092900 - Gypsum Board
 - 093000 - Tiling ✓
 - 096540 - Vinyl Plank Flooring
 - 096813 - Tile Carpeting
 - 096816 - Sheet Carpeting
 - 099100 - Painting
- > 10 - Specialties

1 / 7

SECTION 093000 – TILING

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Tile.
2. Thresholds
3. Window sills.
4. Waterproof Membrane for tile installation.
5. Rubber tile accessories for bathtubs.

1.2 PERFORMANCE REQUIREMENTS

A. Static Coefficient of Friction: For tile installed on walkway surfaces, provide products following values as determined by testing identical products per ANSI A137.1:

1. Level Surfaces: Minimum 0.6.
2. Step Treads: Minimum 0.6.
3. Ramp Surfaces: Minimum 0.8.
4. Accessible Routes: 0.6 wet.
5. Commercial spaces that will be regularly walked on when wet: 0.42.

B. Load-Bearing Performance: For ceramic tile installed on walkway surfaces, provide ins rated for the following load-bearing performance level based on testing assemblies acc ASTM C 627 that are representative of those indicated for this Project.

1.3 SUBMITTALS

A. Product Data: For each type of tile, mortar, grout, and other products indicated.

3. What sections in the specifications discuss information related to concrete?

Answer Key

Sections 07, 08, 09, 10, 22, 23, 26, and 31.

Specifications >

Search results

Items

Generated submittals

Deleted items

Publish log

Settings

Search and filter (1)

☐	Code	Description	Number of versions	Version set	Issuance date	Re	
Expand all Collapse all							
☐	> 07	Thermal and Moisture Protection					⋮
☐	> 08	Openings					⋮
☐	> 09	Finishes					⋮
☐	> 10	Specialties					⋮
☐	> 22	Plumbing					⋮
☐	> 23	Heating					⋮
☐	> 26	Electrical					⋮
☐	> 31	Earthwork					⋮

Search

Clea

concrete

Show detailed content view

Filters

Code

Select...

Version set

Select...

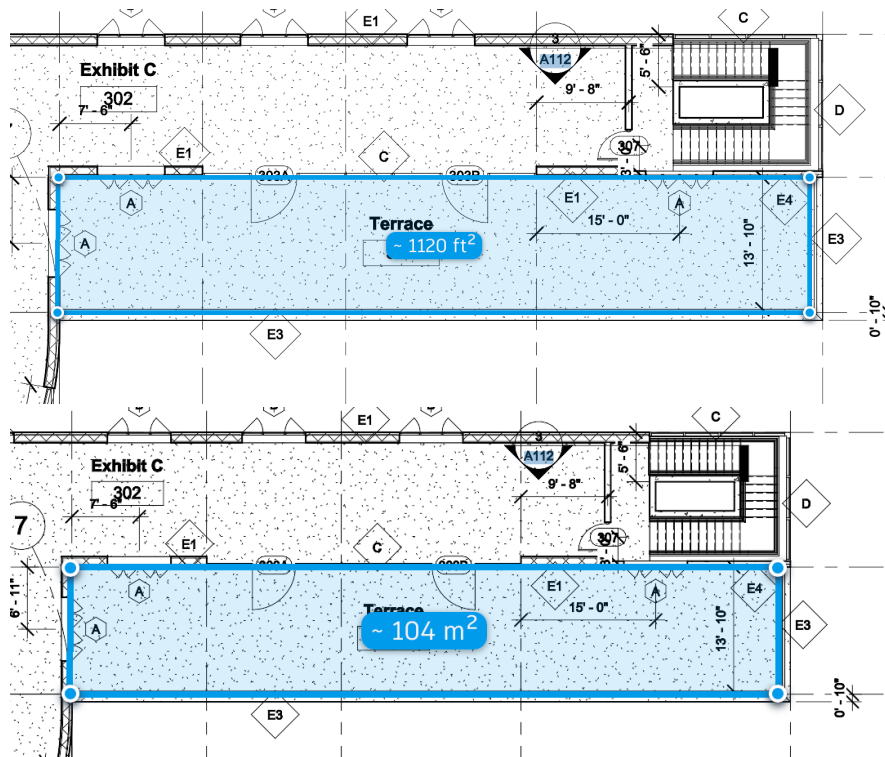
Issuance date

Select...

4. What is the area in square feet (square meters) of the terrace on the third floor, sheet A103?

Answer Key

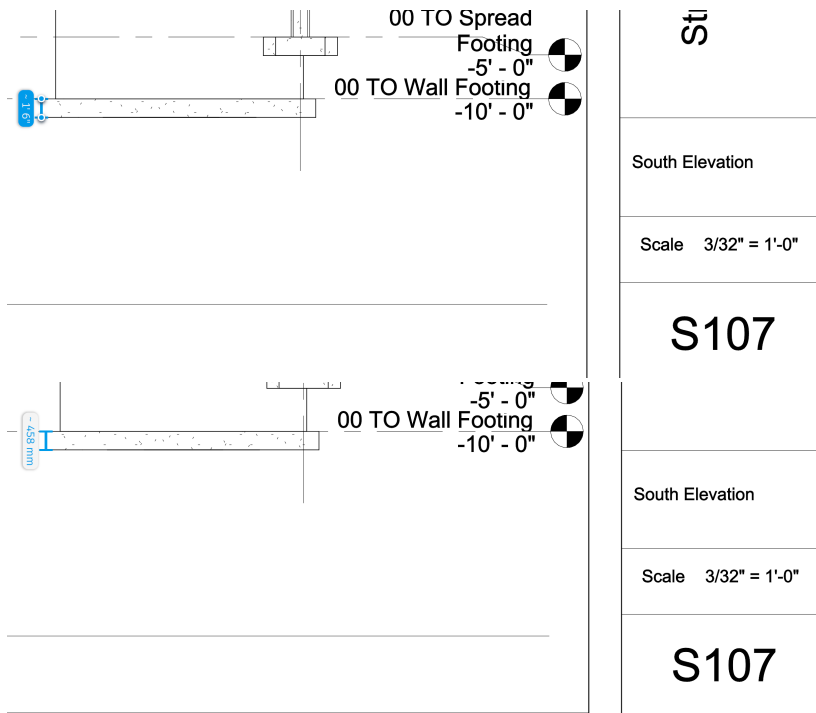
The area of the terrace on the third floor is 1,120 SF (104 m²).



5. On sheet S107, what is the depth of the wall footing?

Answer Key

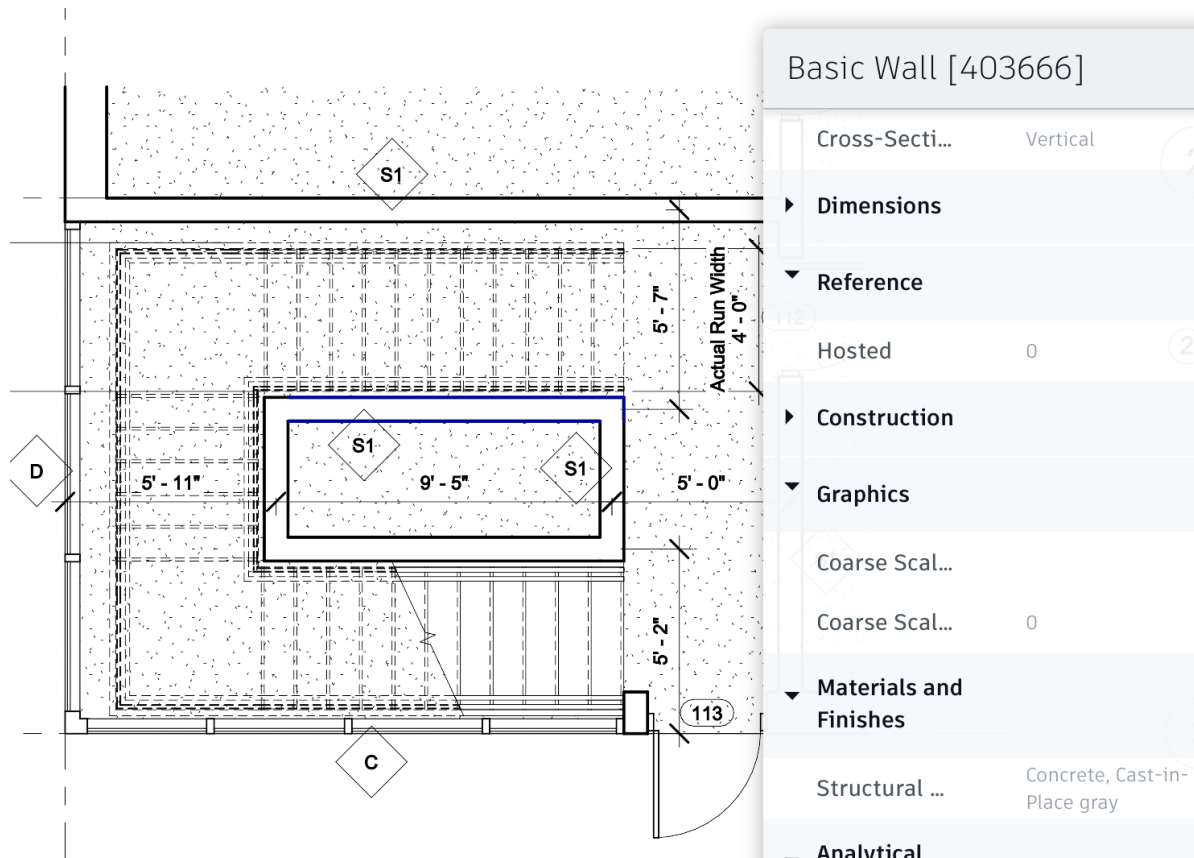
The depth is 1'6" (458mm).



6. On detail 1 on sheet A115, what is wall S1 made out of?

Answer Key

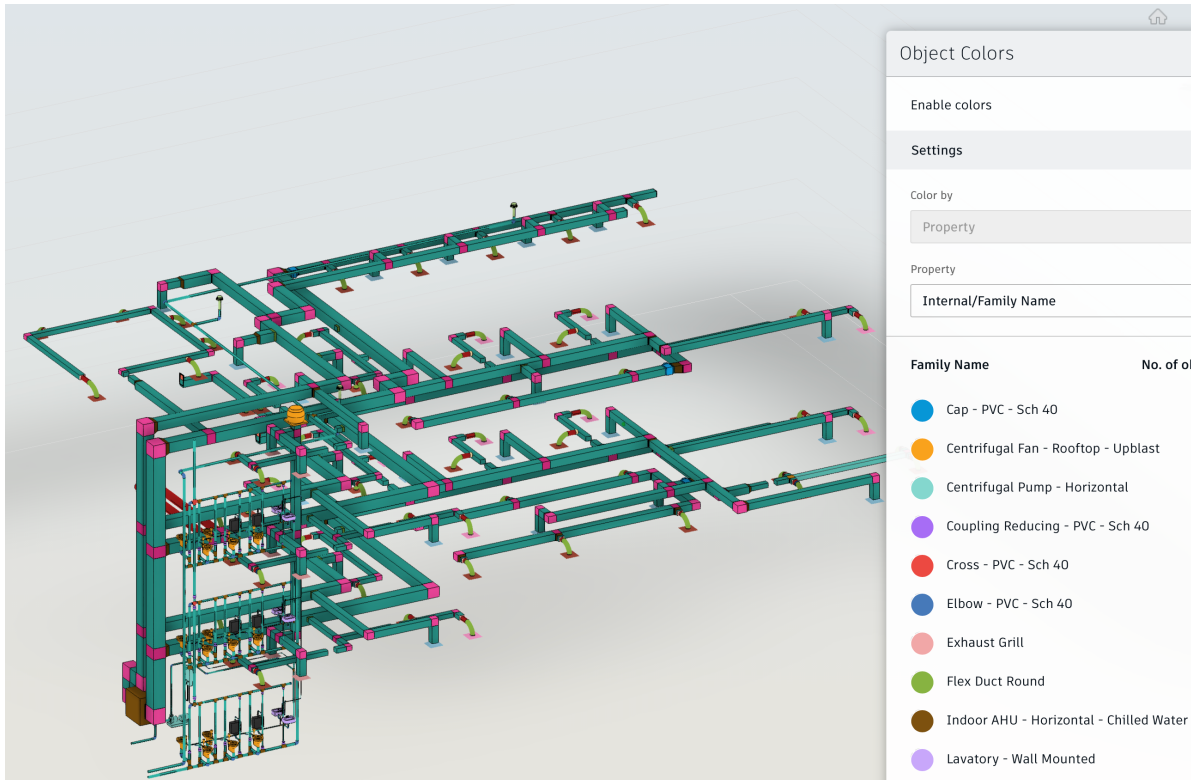
The wall is made out of Concrete, Cast-in-Place gray.



7. Color code the Systems model based on Internal/Family Name. How many Lavatory – Wall Mounted objects are there in the model?

Answer Key

There are 6 Lavatory – Wall Mounted.



8. Using the model browser of the Systems model, how many exhaust grills are there on the 04 Roof Plenum level?

Answer Key

There are two exhaust grills on the roof plenum.

Model Browser ×

🔍 🔼 (1) ✕ 👁

Filters

Levels

04 Roof Plenum ▼

Categories

Select categories... ▼

Disciplines

Select disciplines... ▼

Model Tree

- ✓ 👁 Air Terminals
 - > 👁 Supply Diffuser - Rectangular Face Round Neck
 - > 👁 Return Diffuser
 - ✓ 👁 Exhaust Grill
 - ✓ 👁 24 x 24 Face 12 x 12 Connection
 - 👁 Exhaust Grill [997707]
 - 👁 Exhaust Grill [997708]

9. Using the 3D view of the architectural model, and the laser measurement tool, what are the dimensions in feet (meters) of the brick wall on the first floor at the back of the building?

Answer Key

This wall 15'0" by 83'2" (4.6m by 25.3m).

