



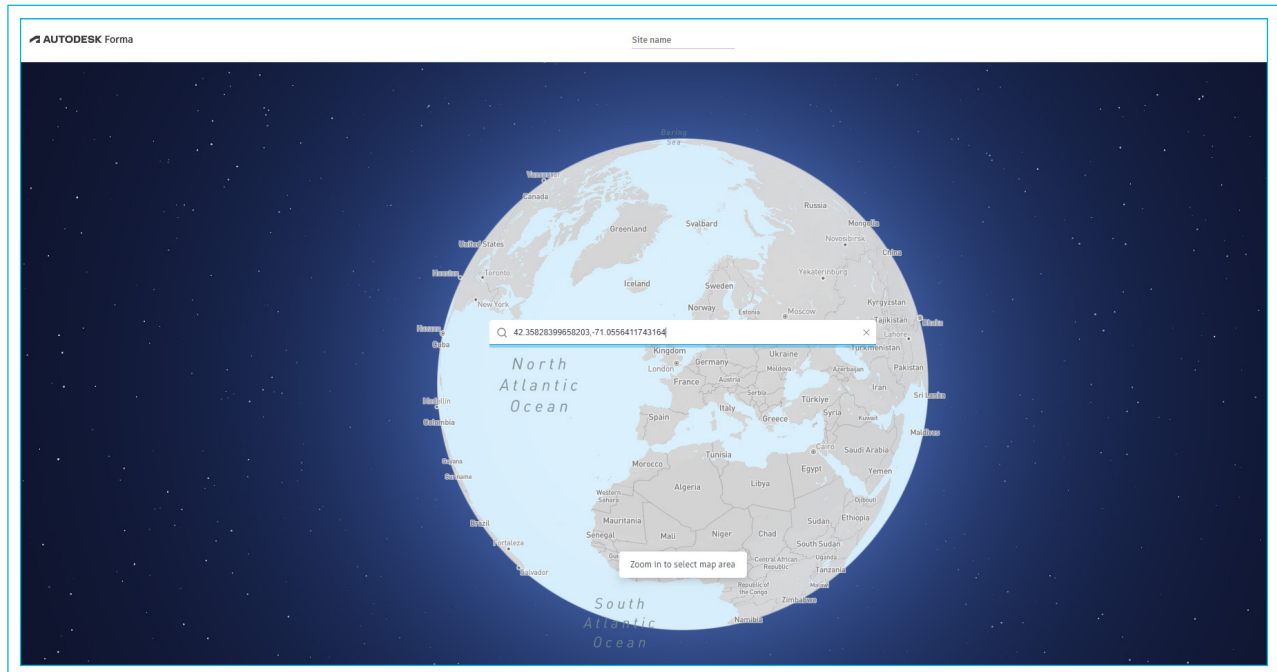
FenestraPro

Creating a Forma model for Envelope Analysis

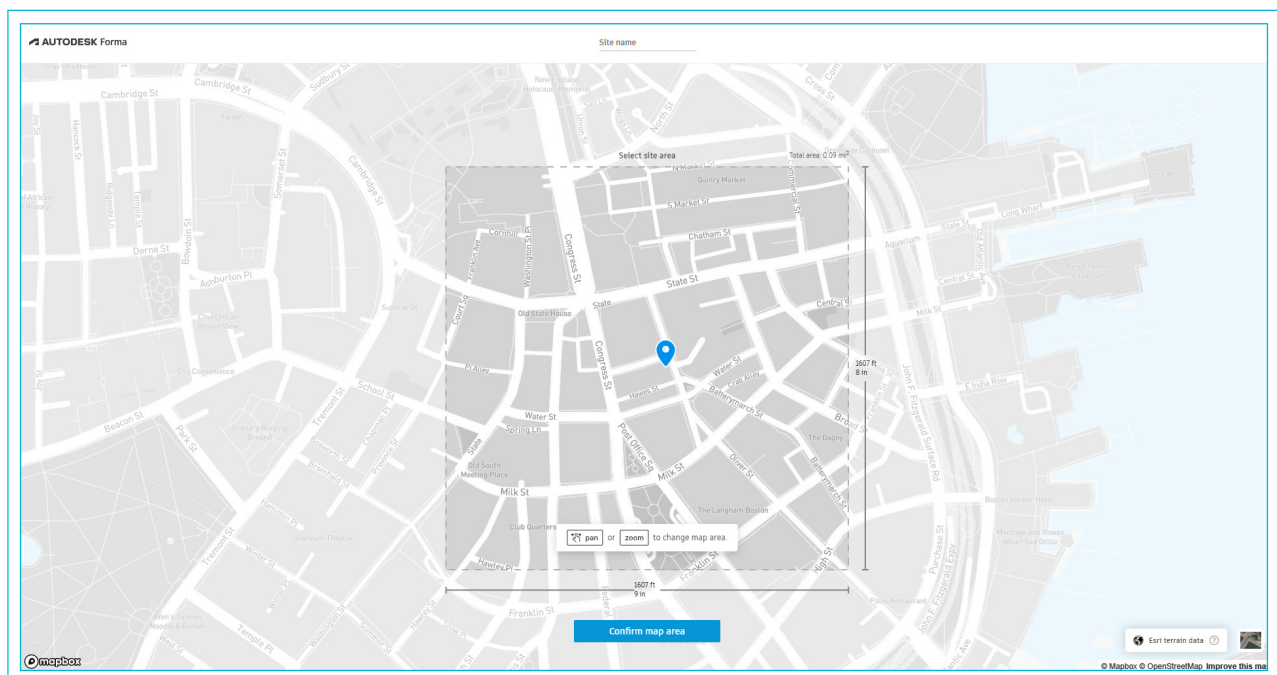


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1. Create a new project in this location: Exchange Place, Boston, Massachusetts, USA Latitude/ Longitude: 42.35828399658203, -71.0556411743164. You may copy and paste these coordinates into the search field, then press Enter. You may enter a name for the site at the top of the screen if you wish.



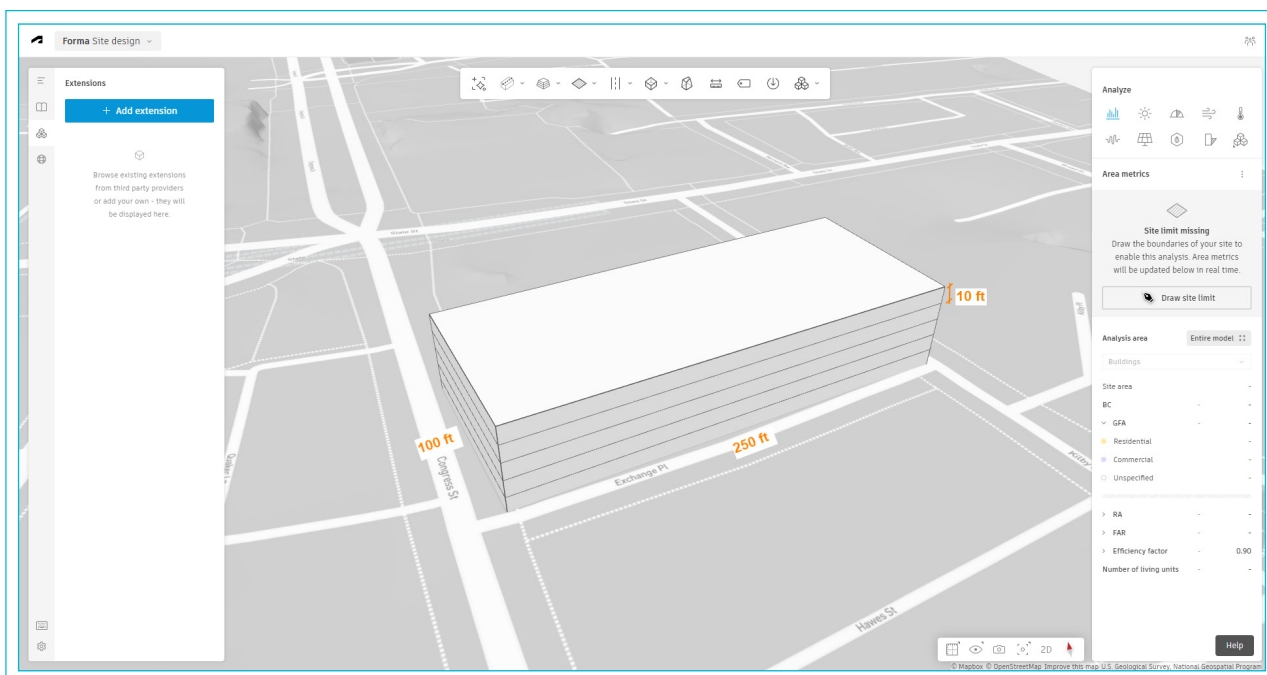
2. Zoom into the site and confirm the map area.



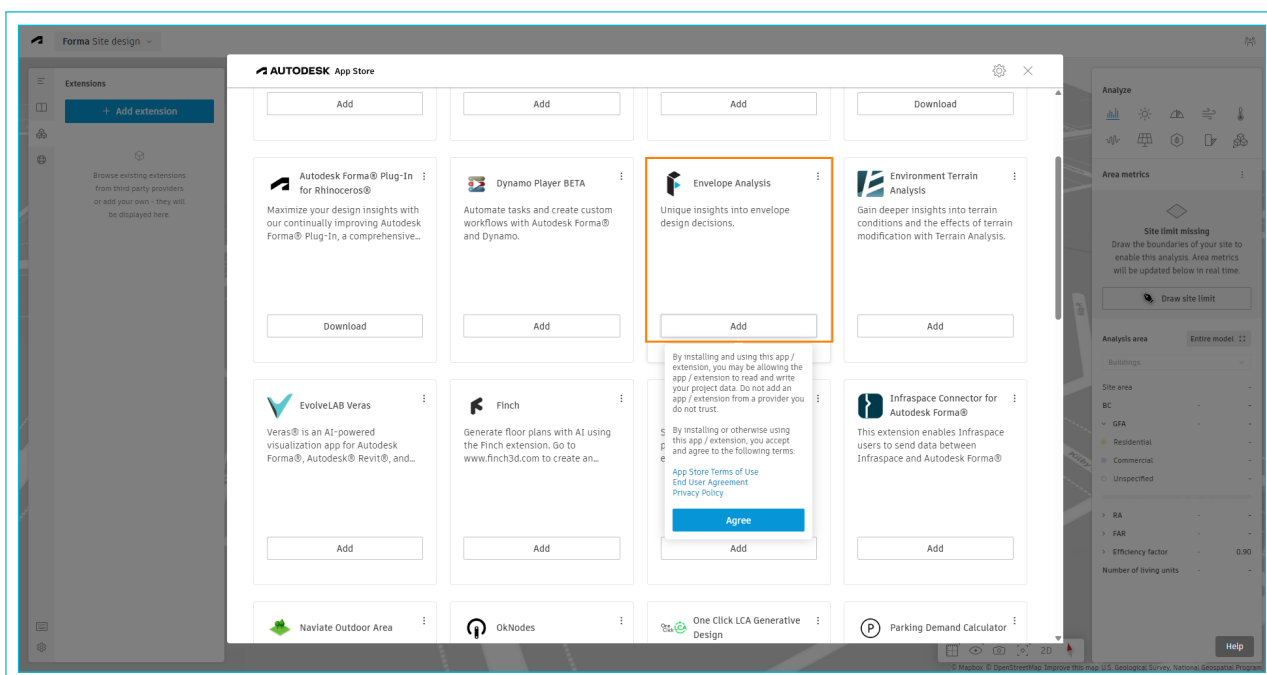


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3. You may skip the option of importing contextual data (surrounding buildings).
4. Using the **Basic Building** option in Forma, create a footprint with 250 feet length x 100 feet width and with 5 Floor levels (10 feet high each (50 feet total height)).



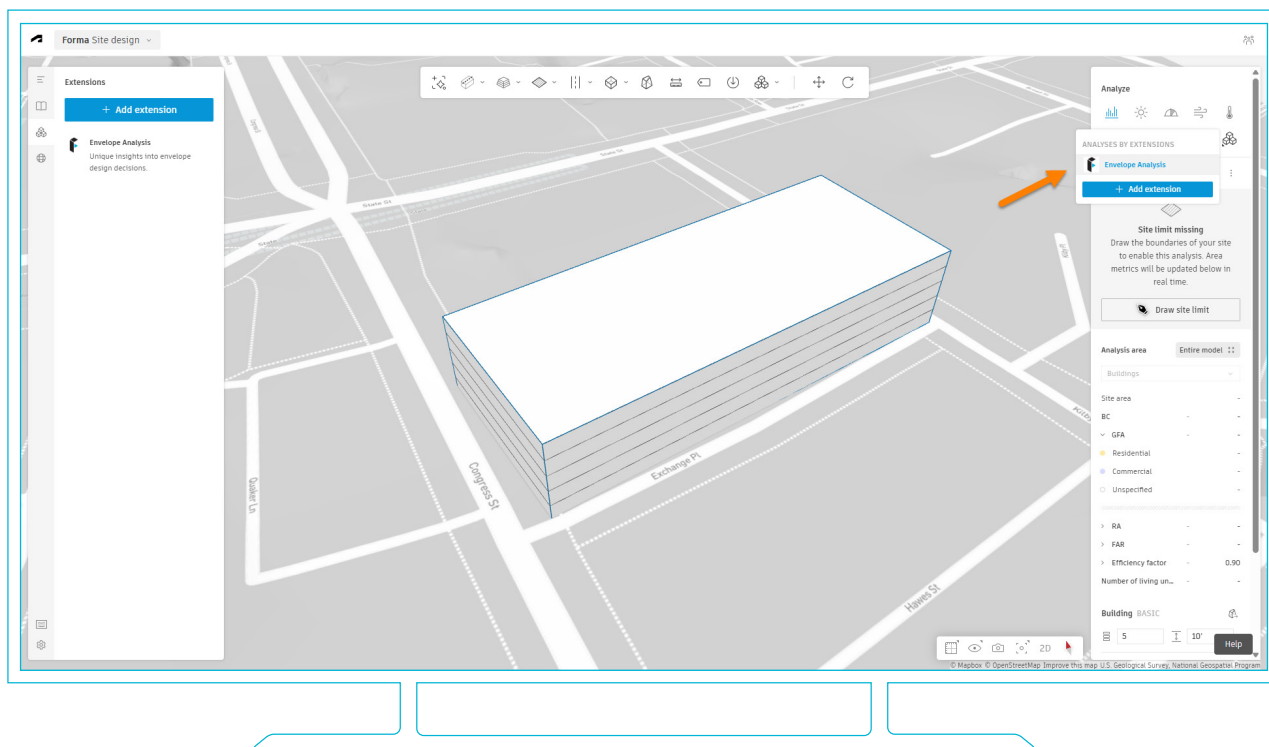
5. Install the **Envelope Analysis** extension by going to 'Add Extensions' in Forma and selecting **Envelope Analysis** in the list. Click on 'Add' and 'Agree' to the terms and conditions.



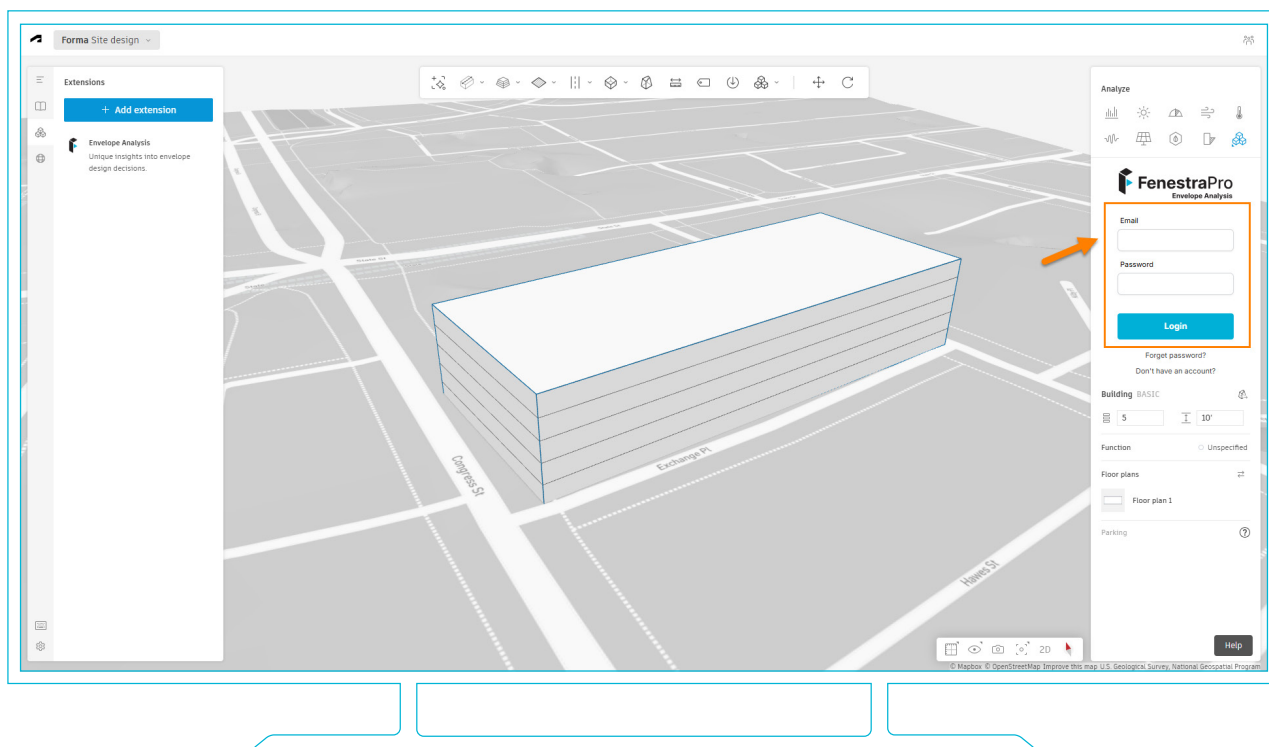


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6. Launch **Envelope Analysis** from the dropdown list in Forma.



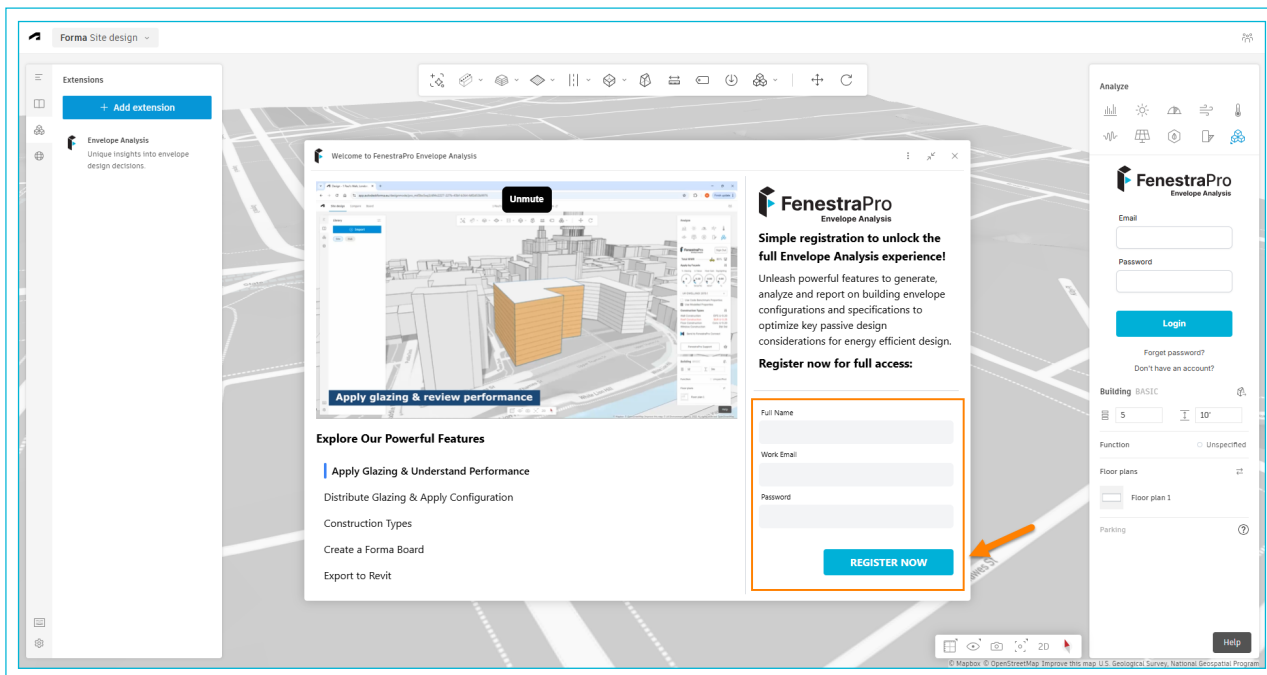
7. If you have an account for **Envelope Analysis** already, login.



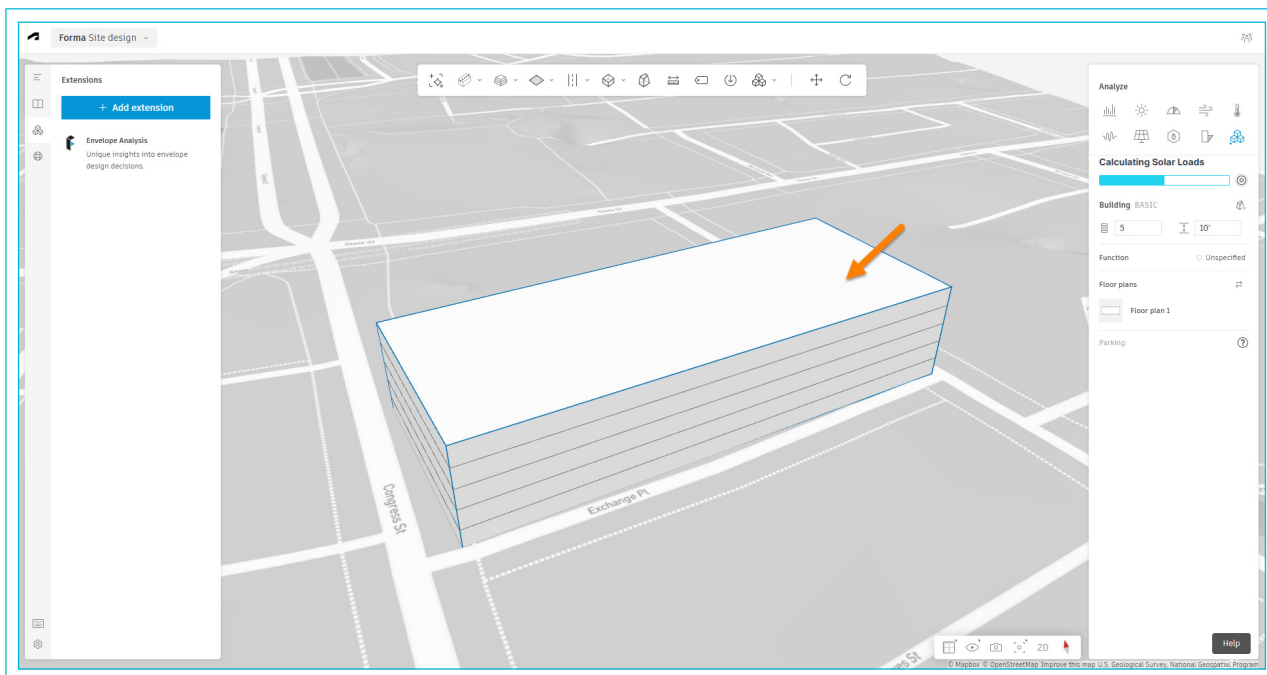


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- If you do not yet have an account with us, sign up for a 30 day free trial (enter your name, work email and create a password). Then log in with these credentials.



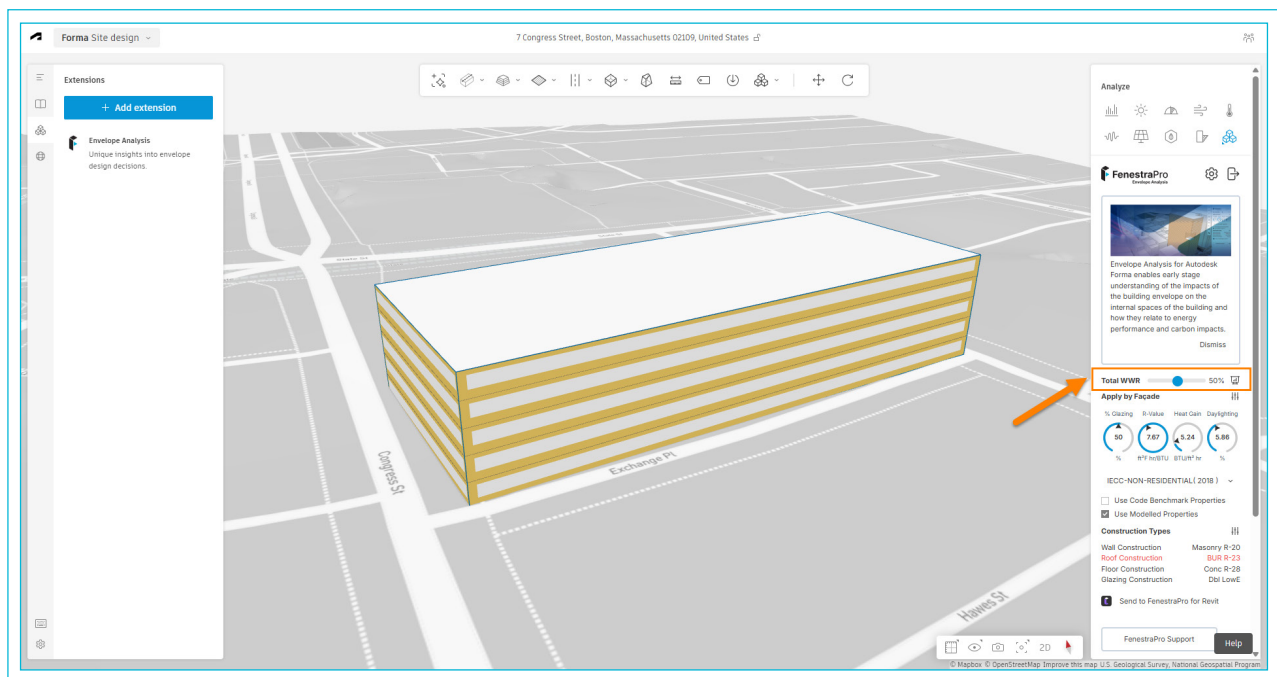
- Select your proposal (by clicking on the roof) and allow the extension to render surfaces.





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10. Apply a Total Window to Wall ratio (WWR) of 50% to all areas by dragging the slider as shown.



11. You may open the Construction Types panel and check that you are using the default values as follows:

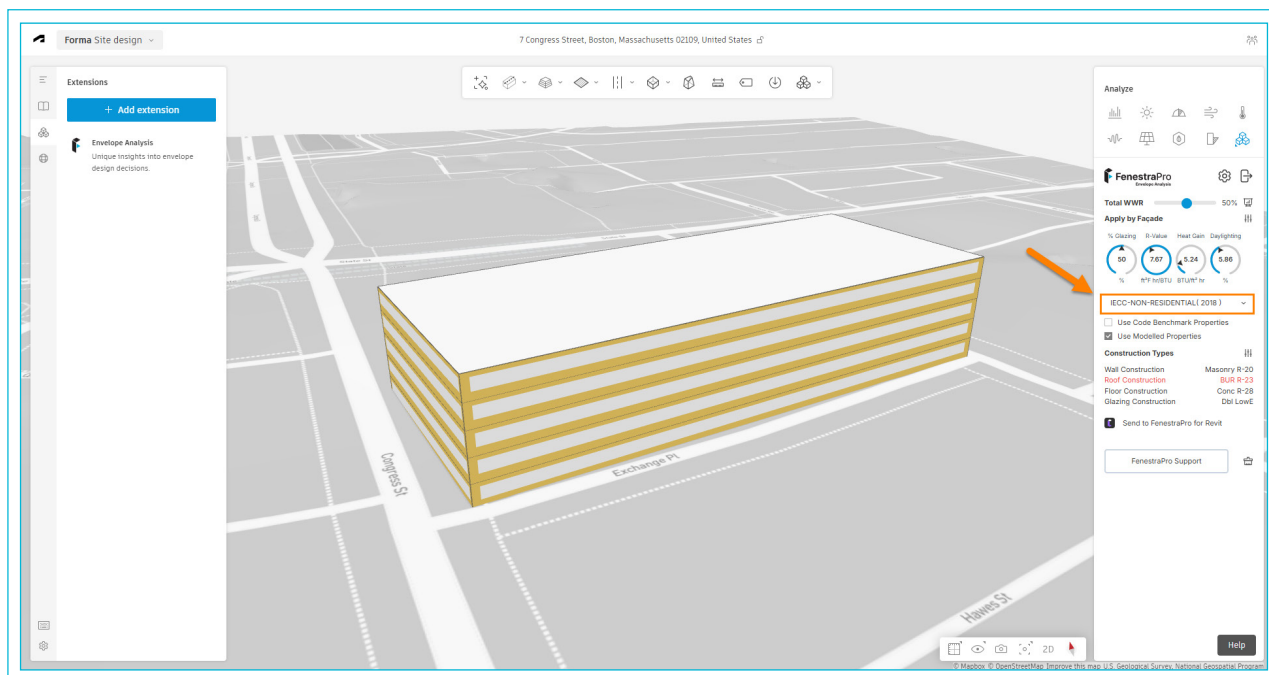
Wall: Masonry Cavity Wall 20.29 R-value
Roof: Built-Up Roofing (BUR) System 22.73 R-value
Floor: Slab-on-Grade with Rigid insulation 22.73 R-value
Glazing: Standard Double Glazing 0.32 U-value

Note: construction types or codes are displayed only when a glazing percentage has been applied and the Code option is set to 'Use Modelled Properties'.

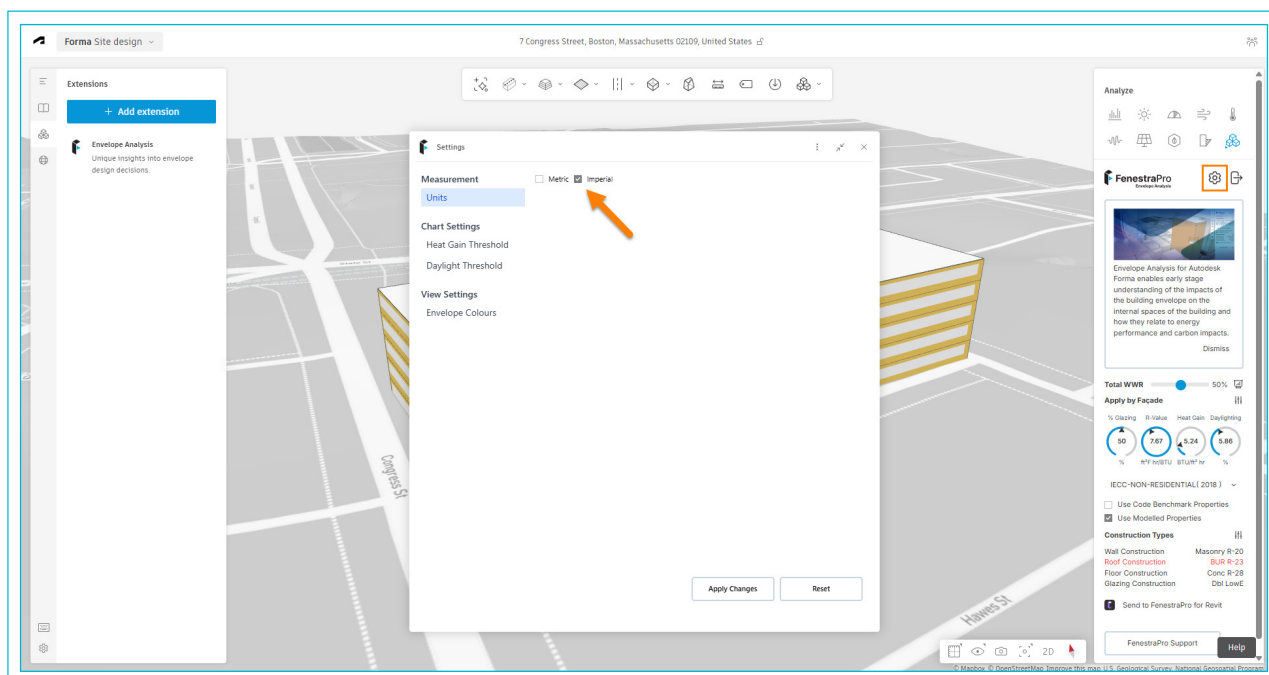


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12. The Energy Code selected should be: IECC-NON-RESIDENTIAL (2018).



13. Your unit preferences should be imperial. This can be set under Settings as shown.



These settings will ensure that your project results match the test model results. A link to a video showing how to set up a model and the default model settings is also provided if required.

The Learning Support test will suggest some adjustments that should be made to your model and that you simply report the new results/changes.



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