

3D Model Submission Requirements

The Planning, Urban Design & Sustainability team may ask that you submit a 3D model with your development application for the purpose of verifying compliance with protected views, solar access and other building envelope regulations.



Specifications

1. Format and File Size

All models should be in DWG format, the total file size should not exceed **5MB**

2. Units and Spatial Reference

Models should be geo-located at a 1:1 scale with the following spatial reference:

Code: UTM83-10

Description: UTM with NAD83 datum, Zone 10, Meter; Central Meridian 123d W

If you have trouble geo-locating the model correctly, please include one of the following for reference:

- Parcel polygon(s). To ensure the correct elevation is achieved, the parcel(s) must be drawn on the datum (geodetic elevation of zero), not at grade.
- Building grade points

3. Level of Detail

The building model must include the following elements:

- a mesh surface of the building form which includes:
 - all elements affecting shadow analysis
 - accurate placement of roof pitches, terraces, roof services and any other prominent external design features such as signage and awnings
- a 2D polyline representing the parcel(s) on which the proposed building will be constructed

The building model should **NOT** include the following:

- internal features including stairs, walls or furniture
- people or vehicles
- vegetation
- overly complex highly polygonised features
- redundant or duplicate polygons, lines or textures
- gaps or missing elements

4. Data resources - [City of Vancouver Open Data Portal](#)

- [Property parcel polygons — City of Vancouver Open Data Portal](#)
- [LiDAR 2022 — City of Vancouver Open Data Portal](#)
- [Orthophoto imagery 2022 — City of Vancouver Open Data Portal](#)

Questions

If you have any questions about the above standards, please contact us at views@vancouver.ca.