



ALWARQA Surveying Services is the unrivalled company in this domain by providing unparalleled quality in our Building Information Modeling services. The practice of outsourcing Revit BIM services is commonly adopted to enhance the efficiency of any project. They are utilized by a number of professionals which include engineers, architects, structural designers, construction managers, contractors and sub-contractors, facility managers, project and construction managers.

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Our experienced team of modellers have created models for shopping centres, hospitals, airports, hotel complexes, transport infrastructure, residential areas and mixed-use sites.

Our range of 3D architectural modelling services includes the following:

Revit BIM 3D Models

Using Autodesk Revit Architecture we create intelligent Revit BIM models (Building Information Models) for a range of architectural projects. Using BIM models ensures that any changes to schedules, plans, elevations, sections or the 3D model itself result in coordinated updates to all corresponding areas. This is referred to as 'integrated bi-directional associativity' by Autodesk.

Revit Architecture allows for a range of other benefits including material take-offs, interference checks and improved compatibility with other Autodesk visualisation tools, such as 3Ds Max.

Our Revit project experience includes developing construction drawing sets for leading homebuilders in the US, Australia and Canada; developing models, associated drawings, and schedules for multi-use buildings in the UK, the US and Australia, including high-rise structures; and creating Revit-based construction drawing sets for retail design updates.

Point Cloud 3D BIM Models

We take 3D laser scan data in the form of 'point cloud' data and use it to create accurate Revit BIM models for architects, retailers and general contractors. Typically we will create scan-to-BIM models for existing building where no accurate or up-to-date plans are in



place. We will usually also model the proposed alterations (false ceiling and additional structural items) so that our customer has an accurate and updated model with which to progress their design.

3D CAD Building Models

We create building models using Autodesk Revit, ArchiCAD and AutoCAD Architecture for architects, consulting engineers, structural engineers, main contractors and subcontractors. Using 2D layout plans and elevations as a starting point, we create entire architectural and structural building models to exact standards and specifications. We specialise in providing ArchiCAD 3D Modelling services and also undertake to maintain the models for such projects throughout the duration of a project — from design through to installation/handover.

3D CAD Component Modelling & Revit Family Modelling

We create 3D model libraries (using AutoCAD or Revit) for all equipment, fixtures, fittings and furniture within construction and engineering domains. Our Revit 3D Modelling services are used by original equipment manufacturers as these same-class models include all parameters and constraints that can be modified as per requirements.

