



Article published on June 19th 2012 | [Visual Arts](#)

A Structural BIM Services provide a broad preconstruction view and structural calculations along with detailed reports of the project. Structural BIM services also include detailed scheduling, clash detections, material specifications and estimation for structural projects. BIM Structural models are not only useful for structural engineers but also to builders, architects, contractors and other personalities which are in the field of construction.

4D Structural BIM Services:

The conversion of 3D photo realistic Structural BIM models in to smart; intelligent, sufficient informative detailed models can be called as 4D Structural BIM services. By addition of Time Frame services to 3D models, 4D BIM services comes in picture. Time Frame services provides detailed time schedules which helps in removal of design conflicts and also provides a time boundary or sequential time frame of project completion.

4D Structural BIM Services provides:

1. Material Specifications
2. Quantitative information
3. High Quality Time schedules
4. Time Frame of project cycle

5D Structural BIM Services:

5D BIM models comes into picture only when client demands for adding Cost estimation factor to 4D detailed models. 5D BIM services contains Budget frames and cost loaded schedules. It also includes detailed study and cost analysis providing high quality of informative schedules to clients.

5D Structural BIM Services provides:

1. Budget Frames of project cycle
2. Cost Loaded schedules
3. Accurate Cost Estimation

Thus by using 4th and 5th Dimensions results into project completion with high level of accuracy, precision and authentication.

BIM Structural Services can be divided broadly into major two domains:

1. Reinforced Concrete Structural Services for following types of buildings:
 - a. Commercial “ low and high rise buildings
 - b. Residential “ Buildings, villas and townships

- c. Industrial – Vast workshops, manufacturing units and corporate offices
- d. Educational – Universities, Schools, College campuses, training centers
- e. Bridges, Flyovers, storage tanks and dams

2. Steel Structural Services

Steel structural services includes steel member placement detail drawings for beams, columns, bracings, bolt holes, bolt connections summary, steel framing and welding details. We also include Bill of Quantities i.e. BOQ's for Steel Structural Services.

Construction Data/Documents/Schedules Our firm provides High quality of construction documents which includes core structural details of floor plans, foundation plan, framing details and roof plans as well as steel detailing for steel structural services.

Benefits of Structural BIM services:

- a. Provides high quality of structural detailed drawings which plays a vital role during construction phase
- b. Material Specifications, material quantities as well as time schedules by using 4D structural services
- c. Cost estimation, cost related schedules and overall budget of project utilizing 5D structural services
- d. Removal of design and cost conflicts along with clash detection
- e. Project completion with high level of accuracy, precision thus makes project error free.

Article Source:

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Article Keywords:

CAD Services, BIM Services, Structural BIM Services