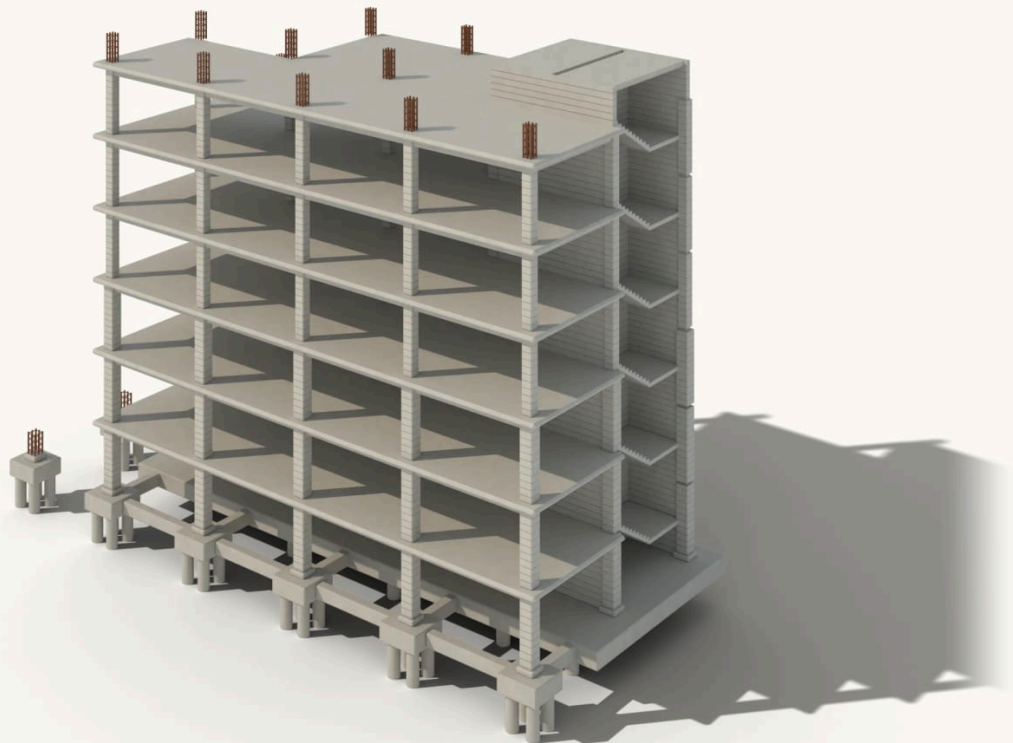


Structural BIM services

The frame of the building, modeled and checked before steel is cut or concrete is poured.



ILLUSTRATIVE 3D MODEL

SOFTWARE

Autodesk Revit, Autodesk Navisworks, AutoCAD

YOU RECEIVE

Structural Revit model (RVT); IFC export

REPLY TIME

A scoped quote within one working day.
NDA first if you ask.

IN PLAIN WORDS

Structural BIM, explained.

IN PLAIN WORDS

We build the building's skeleton, its foundations, columns, beams and floors, as a 3D model. Builders can then see how the frame fits with everything else, count every beam and bolt, and get drawings for fabrication.

A structural model is more than the engineer's analysis model. It is the physical frame as it will be built: real sections, real connections, correct levels and openings. When it is coordinated against the architecture and the services, clashes show up on screen. On site they would appear as a beam that does not clear a duct.

We model concrete, steel and composite structures in Revit, from foundations to roof, and extract the schedules and drawings the fabricator and the site team need. Where a project needs steel shop drawings, we continue from the same model.

LEVEL OF DETAIL

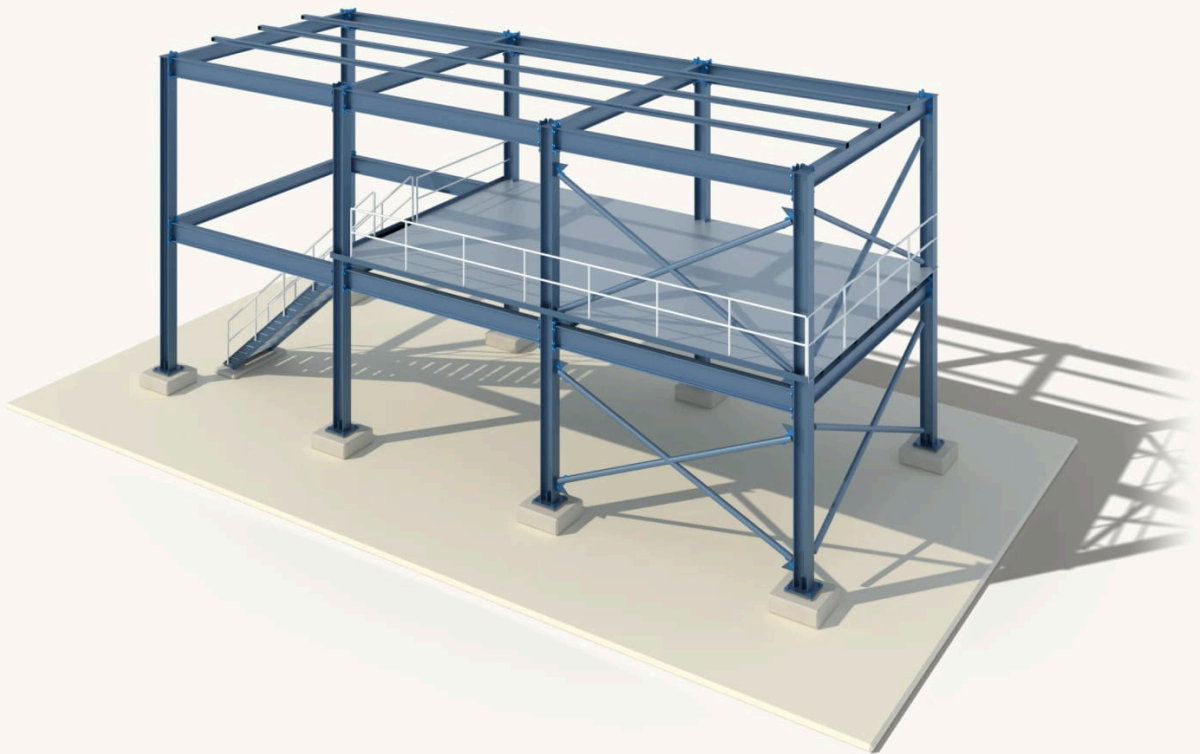
LOD 300 for design and tender, LOD 350 for coordination, LOD 400 for fabrication, LOD 500 for field-verified as-built.

SOFTWARE AND FORMATS

Autodesk Revit, Autodesk Navisworks, AutoCAD. Delivered as RVT, RTE, IFC, DWG, PDF, NWD.

WHO IT IS FOR

Structural design firms. Steel fabricators and detailers. General contractors. Architects who need a structural model to coordinate against.



— WHAT IS INCLUDED

What we build and deliver.

01 Structural modeling Foundations, footings, piles, columns, beams, slabs, walls, trusses, purlins and anchor bolts.	02 Steel and connections Primary and secondary steel with plates, bolts and welds at the detail level the project needs.
03 Reinforcement Rebar modeling and bending schedules for concrete elements where the scope requires it.	04 Quantity take-offs Volumes, weights and counts from the model for ordering and cost planning.
05 Coordination with other trades Structural openings, sleeves and clearances checked against architecture and MEP.	

What you send us

- Structural drawings, calculations summary or engineer's markups
- Grid, level and column schedules
- Steel or reinforcement standards the project follows
- Your title block, sheet size and naming standards
- A named contact for questions

What you receive

- Structural Revit model (RVT)
- IFC export
- Material and quantity schedules
- General arrangement and detail drawings
- Steel shop drawings where in scope (see steel detailing)

— HOW A PROJECT RUNS

Four steps, **written down.**

01

Send us your drawings

Share what you have: DWG, PDF, a Revit model or a point cloud, with the services and level of detail you need.

02

We scope and quote

We read the drawings and write down the scope, the LOD and any assumptions, then give a fixed price or a rate.

03

We model and check

Our team builds the model, then checks it: model health, coordination and clash tests where in scope.

04

You receive the model

Revit, IFC, DWG, PDF and NWD files with a note of what we assumed and flagged. Revisions follow the agreed scope.

— WHERE WE WORK

UNITED KINGDOM

UNITED STATES

CANADA

AUSTRALIA

UAE AND THE GULF

EUROPE

Standards, units and working hours differ by region. Our market pages at www.sactik.com explain each one.

— COMMON QUESTIONS

Do you do structural analysis or design?

No. We model the structure that your engineer has designed. The model carries the information, but the design and calculations stay with the engineer of record.

Can you work in Tekla?

Our structural and steel work is Revit-based. If your fabricator needs another platform, tell us at the start so we can confirm the right workflow.

Do you provide rebar detailing?

Yes, where it is in the scope. Say at the start whether you need reinforcement modeled and scheduled, as it changes the effort considerably.

Send us your **drawings.**

We reply with a scoped quote, usually within one working day. We will sign your NDA first if you ask.

 Shivalik Satyamev, BRTS Stop, 621, Sardar Patel Ring Rd, near Ambli - Bopal Road, South Bopal, Bopal, Ahmedabad, Gujarat 380058, India

 +91 98983 48022

 connect@sp-acecrafts.com

 www.sactik.com

 [linkedin.com/company/102757633](https://www.linkedin.com/company/102757633)

 [instagram.com/sactikservices](https://www.instagram.com/sactikservices)

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