



**HouseDocs/FrameUpNow 350 pages of AI assisted Design Specifications combined 6,000 lines of code combined with CAD Engineering Guide.**

FrameUpNow (FUN) Design outcomes rely on a codified body of AI-assisted design specifications—three hundred and fifty pages of specifications and more than 6,000 lines of rule-based automation.

The FUN design system follows a fixed set of programmed instructions, decision trees, and engineering rules to produce consistent, repeatable outputs, limiting or avoiding human intervention at each step.

FUN's Affordable Home Design process applies International Building Code (IBC) engineering requirements, pre-defined structural rules, and manufacturing constraints to systematically design a steel frame (Home Skeleton) or convert wood or masonry plans into an engineered steel skeleton suitable for fabrication and assembly.

Unlike large commercial cold-formed steel workflows that are economically viable primarily at high volume and large project scale, the FUN design workflow is optimized for small residential structures. By codifying engineering discipline into deterministic rules, FUN can process high volumes of small-home designs quickly while continuously improving accuracy through documented lessons learned.

The FUN system does not exhibit autonomous reasoning. Instead, it is a deterministic, rule-driven process that enables commercial-grade IBC engineering and BIM precision to be applied economically to small homes and ADUs—ensuring speed, repeatability, and compliance with engineering and buildability standards.

**The FUN Affordable Home document set includes:**

- Complete plan set of engineered drawings
- Generic BIM>BOM>Bill of Materials Shopping List
- Calculations booklet: vertical & lateral analysis and truss calculations

