

STEEL FRAMING DESIGN



Efficient Structural Design
3D BIM Model
Material Take-Off
Wall Panel Elevations
Project Support

Practical Engineering for a Complex World www.fdr-eng.com



FDR offers a range of structural engineering design services for cold-formed steel framing. Architects, engineers, general contractors, and framing contractors obtain greater insight into their projects with FDR on their team. FDR offers Comprehensive Shop Drawings and Advanced BIM Shop Drawing & Estimation Packages. FDR is comprised of the industry's most knowledgeable, trusted team of CFS design experts to support Shop Drawing and BIM projects.

Comprehensive Shop Drawings:

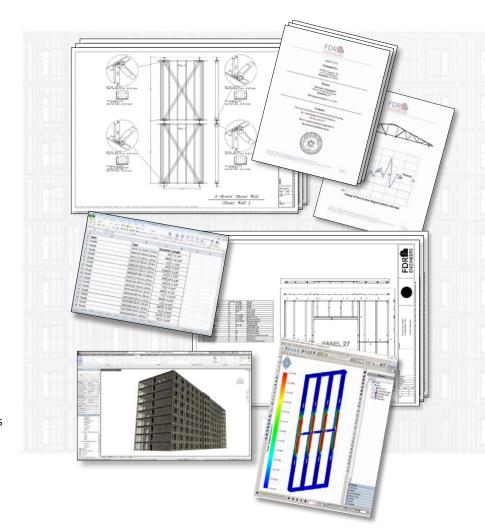
- · Engineered Shop Drawings
- Structural Calculation Package
- Sealed by a Licensed Professional Engineer

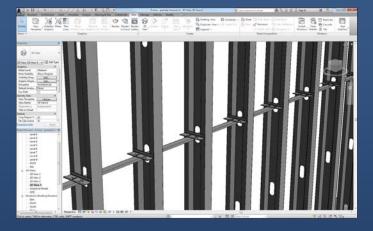
Advanced Design & Estimating:

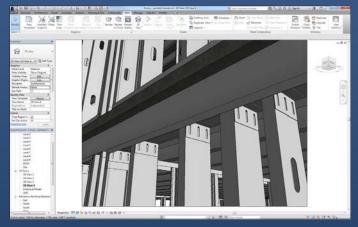
- 3D BIM Model
- Material Take-Off in excel format for all framing & connectors
- · Plan Layouts
- · Panel Drawings

Advanced Analysis:

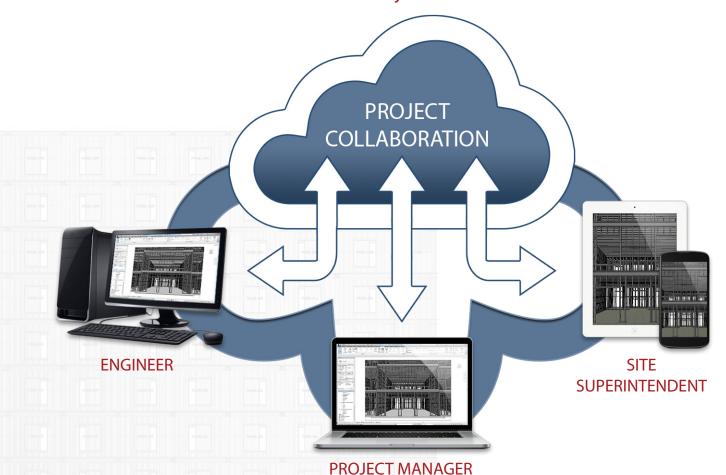
- · Performance Based Design
- Progressive Collapse Analysis
- Blast Analysis of Wall and Roof Truss Systems to DoD Requirements







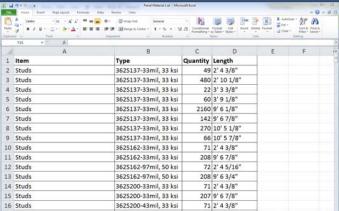
3-D Cloud Based Project Collaboration



FDR Engineers' comprehensive BIM modeling services provide the design and construction team a centralized workspace to efficiently collaborate on the construction of your next steel framing project.

Benefits of 3-D Cloud Based Project Collaboration:

- Comprehensive 3-D model that includes all steel framing and connections.
- Review and comment on a full 3-D model from anywhere using your computer, tablet, or mobile phone.
- Project plans are updated instantly for the entire team to ensure the most accurate information.
- · Improved quality and accuracy in the field.





PANEL 27

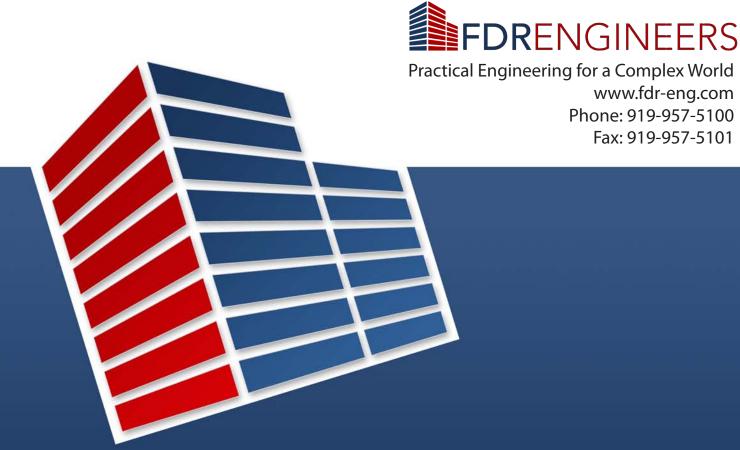


REALISTIC RENDERING

FDR can also provide realistic rendering and walkthrough animation for client presentations and communications.

FDR Engineers, PLLC, is a full-service structural engineering consulting firm, whose engineers are known for their creativity and technical excellence. Our engineering approach looks at facilities and structures from the perspective of structural performance under a variety of possible loads that the structure will encounter throughout its life cycle rather than conventional design methods alone.

Structures can easily be over-designed using a conventional design approach that may neglect the contribution of significant structural components. A performance based approach takes the structure as a whole with all of its components into account to provide not only a more efficient but more cost effective design solution.



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