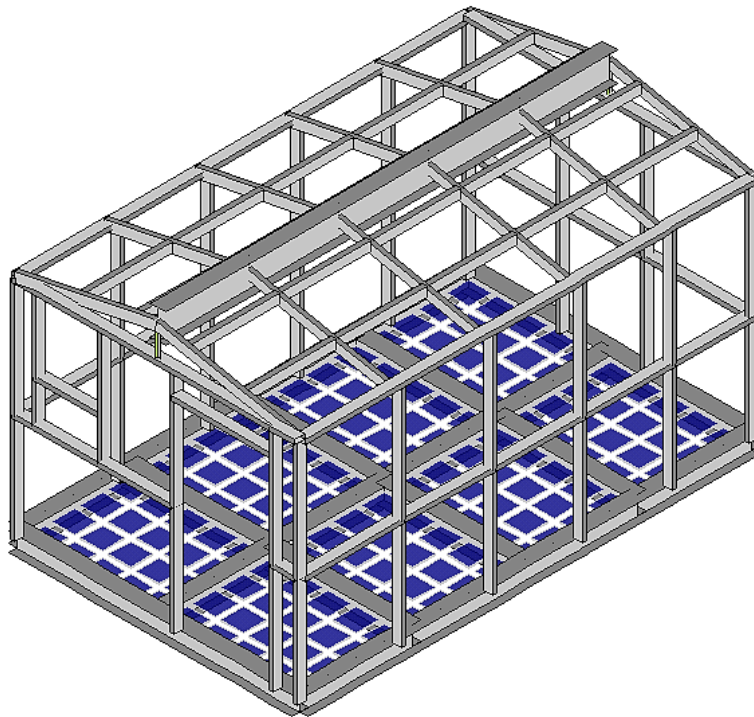


ZAP ENGINEERING QUALIFICATIONS AND CAPABILITIES

EQUIPMENT SKID & SKIDDED BUILDING STRUCTURAL ANALYSIS



333 S. Allison Parkway - Suite 100
Lakewood, CO 80226
Phone: 720.529.4430





Equipment Skid and Skidded Building Structural Analysis

SUMMARY OF QUALIFICATIONS

The ZAP Structural Team routinely provides structural analysis, calculation packages and stamped drawings for equipment skids and skidded buildings. We can vary our scope from simple third-party PE review of our Client's standard packages to full scale custom engineered skids with drawings. In addition to design/review of skids, we can provide our Clients with value engineering to reduce the overall cost of their skids as well as standardization of components and details to help expedite fabrication.

- ✓ Our complete analysis includes any combination of the following:
 - Skid Design
 - Building Design, including Siding and Roof Deck
 - Access Stairs and Platforms
 - Lifting Lug Design
 - Anchor Reactions
 - Seismic Evaluation and Detailing

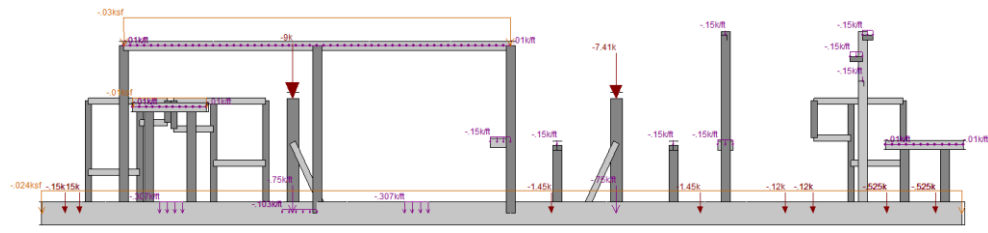
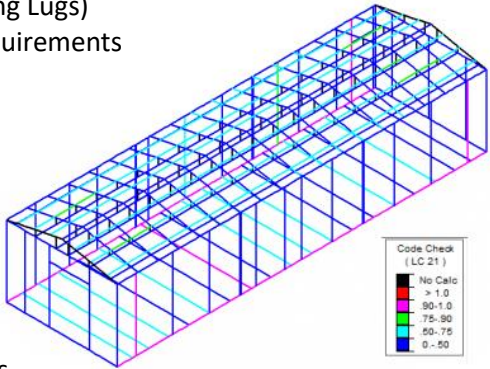
- ✓ Analysis is completed per Authority Having Jurisdiction, including but not limited to:
 - International Building Code
 - State and Local Adopted Building Codes
 - OSHA/MSHA
 - ASME BTH-1 (Lifting Lugs)
 - Client Specific Requirements

Software Capabilities:

- ✓ RISA-3D
- ✓ Advanced Steel

Experience and Capabilities Include:

- ✓ Equipment Skids
- ✓ Power Distribution Centers
- ✓ Electrical Equipment Enclosures/Cabinets
- ✓ Analyzer Buildings
- ✓ Control Buildings



Excellence in Execution

ZAP LEADERSHIP

CEO
Steve Tzap, PE

PRESIDENT
Frank Lousberg, PE

VP OF ENGINEERING
James Allan, PE

STRUCTURAL DIRECTOR
Jackson Emmott, PE

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 Lakewood, CO 80226

ZAP appreciates the opportunity to share our qualifications and capabilities with you and your team. Please do not hesitate to contact us if you have any questions or require additional information.

Thank you!