

Webinar FAQ's

Here are answers to many of the questions that were asked at our live webinar, Innovative Structural Steel Solutions, Part 2 — QuickFrames Webinar, held on **March 26**, **2025**. Thank you for submitting your questions. You can also <u>view this webinar's recording</u> and the <u>slide deck</u>.

Please send any additional questions to **Chase Sebastian** (<u>csebastian@strongtie.com</u>) or **Jenn Masich** (<u>jmasich@strongtie.com</u>)

## <u>QuickFrames Frequently Asked Questions – Sales</u>

1. Where can QuickFrames ship?

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- a. QuickFrames can ship to any location in the USA or Canada.
- 2. What's the lead time for QuickFrames?
  - a. CURRENTLY, timing is dependent on the following:
    - i. The time to get all the construction and loading information to QuickFrames.
    - ii. 1–2 weeks are necessary for engineering *when required* (time measured after all information has been received).
    - iii. The time for QuickFrames to receive a purchase order and release from the customer.
    - iv. Number of frames: 1 day per 20–30 frames (as measured after customer has provided the purchase order and release).
    - v. 2–5 days shipping.
  - b. As QuickFrames is further integrated into the Simpson family, our production capacity and response times will grow.
- 3. How much do QuickFrames cost?
  - a. You can request a consultation on our website.

## QuickFrames Frequently Asked Questions — Design, Capacities, and Engineering

- 1. Is QuickFrames rated/approved, or does it have an ESR/code report?
  - a. QuickFrames provides evaluation of every project, so there's no need for specifiers to have an evaluation report for reference.
- 2. Do you provide capacities to engineers?
  - a. Specifiers contract with QuickFrames to provide frames that have already been designed for their specific application, eliminating the need for capacities.
  - b. Capacities used in our calculations are determined by engineers.
- 3. Is engineering included?
  - a. Individual project-specific design is included for every QuickFrames project.
- 4. What does "design" mean?
  - a. *Evaluation* using tools developed by the engineers who helped develop QuickFrames.

OR

- b. Engineering, including sealed calculations and drawings, when
  - i. Necessary because of
    - 1. Complexity.

- 2. High loading.
- 3. Uniqueness.
- ii. Requested.
- 5. Who performs the engineering?
  - a. Design and/or engineering is performed either
    - i. In house at QuickFrames offices
    - ii. By Caruso Turley Scott (CTS), the engineers who helped develop QuickFrames.
    - iii. In Canada, we work with engineers licensed in Ontario, British Columbia, or in Nova Scotia.
- 6. How long does the engineering take?
  - a. Engineering takes 1–2 weeks from the time that all information has been received.
  - b. Not all projects require engineering. For projects that don't require engineering, the products can be provided more quickly.
- 7. [Anything involving load tables]
  - a. Load tables are not used in any project design calculations are performed for every project.
  - b. The load tables shown were developed to show **example** equipment weight capacities for a very specific given combination of criteria:
    - i. Code criteria.
    - ii. Gauge and size of rails.
    - iii. Dead, live, and snow loads.
    - iv. Wind speed and seismic design category (SDC).
    - v. Building height.
    - vi. Equipment dimensions.
  - c. The capacities in the tables are for the weight of a mechanical unit, and already account for the other loading.
  - d. Load table values are Allowable Stress Design (ASD).
- 8. How are the loads distributed?
  - a. Load distribution can vary per project.
  - b. The typical distribution assumption is
    - i. Distributed loads along the cross rails from a mechanical unit and surrounding structure, without bracing to the rails.
    - ii. Point loads to the main rails from the cross rails, braced only at the cross rail connection.
- 9. Do you sell QuickFrames components individually, without site-specific design?
  - a. QuickFrames are only sold as full frames designed for specific projects.
- 10. Do you provide engineering in all states in the US?
  - a. Caruso Turley Scott is licensed for engineering in all 50 states.
- 11. Do you provide engineering in Canada?
  - a. We work with engineers who are licensed in Ontario, British Columbia, or in Nova Scotia.
- 12. What if QuickFrames is installed on a thin top flange of a beam or joist?
  - a. QuickFrames designs address the capacities of the frame and connection parts. The adequacy and reinforcement of elements of the structure are the responsibility of the structural EOR.
- 13. What about lateral loads?
  - a. QuickFrames designs and connections are provided for

- i. Gravity loads (dead, live, and snow).
- ii. The vertical effects of lateral loads (overturning from wind and seismic).
- b. QuickFrames can be installed with our welded hangers, rather than bolt-in, but our designs don't yet calculate for horizontal loading.
- c. As QuickFrames continues to integrate into the Simpson family, we are working toward providing frames and designs to resist horizontal loads.
- 14. How is diaphragm shear around openings handled? Does the decking attach to
  - QuickFrames?
    - a. As with other types of framing, decks can be attached to QuickFrames with SDIapproved screws, power-actuated fasteners, or puddle welds.
    - b. Our designs may require attachment for stability of the QuickFrames rails, which would be specified in the drawings provided. Otherwise, the attachment is at the discretion of the structural EOR.
    - c. At this time, QuickFrames designs do not consider shear transfer to diaphragms, but Simpson is currently developing ways to provide that.
- 15. Do you have a detail available for use in structural drawings?
  - a. We have a detail that's currently available directly on request, and will soon be available on our website.
  - b. This detail is for the structural EOR to specify QuickFrames as the required or alternative framing at mechanical units and openings.
  - c. This detail represents the QuickFrames system but not construction information, as site-specific details are required with each project.
- 16. Has QuickFrames been used on DSA and HCAI/OSHPD jobs in California?
  - a. So far, QuickFrames has had limited applications in that context, and now that they're part of the Simpson family, we're focusing on expanding into that market.

## **<u>QuickFrames Frequently Asked Questions</u>** — Construction Considerations

- 1. What if the QuickFrames rails fall under a high flute of the metal deck?
  - a. QuickFrames can provide rails with wider top flanges that extend to a lower flute where the deck needs connection to the rails, and a curb may need to be connected through the deck.
- 2. What if a unit is wider than one joist bay?
  - a. QuickFrames can be used in adjacent bays to provide full support of larger units.
- 3. Are QuickFrames corrosion resistant?
  - a. Most QuickFrames rails are made of galvanized, G-90 steel. Our heavier (thicker) rails are sometimes painted.
  - b. Standard QuickFrames hangers are powder-coated.
- 4. Can QuickFrames be fireproofed?
  - a. Fireproofing approved for galvanized surfaces, painted surfaces, or powder-coated surfaces can be used on QuickFrames.
- 5. Do QuickFrames require fireproofing?
  - a. Fireproofing requirements are determined by the EOR or the local jurisdictions.
- 6. What is the minimum overlap length in a splice?
  - a. Rail configurations are determined in the design for each project, and frames are shipped with rails sized for proper overlap. Clear installation instructions are provided with every project.
- 7. Does QuickFrames require inspections?

- a. QuickFrames does not specify inspection requirements in drawings or installation instructions.
- b. Inspection requirements are at the discretion of the structural EOR and local jurisdictions.
- 8. What if frames are installed away from the panel points on open-web joists?
  - a. Joist reinforcement requirements are the same with QuickFrames as with any other framing, in accordance with Steel Joist Institute (SJI) specification.
  - b. At this time, the responsibility for this reinforcement is left to the builder as with other types of framing.
  - c. Simpson is currently working on developing a product for reinforcement in these cases —stay tuned!
- 9. What torque is required for QuickFrames installation?
  - a. QuickFrames standard frames require tensioning using the turn-of-nut method at all connections.
  - b. Where tensioning requirements don't follow the turn-of-nut method, they will be specified in the drawings provided with each project.
- 10. Can QuickFrames be used underfloor slabs?
  - a. QuickFrames can install underfloor slabs just as it does roof decks.
  - b. Floor slabs with very high loading can sometimes exceed QuickFrames capacities. Simpson is currently developing QuickFrames with higher capacities — stay tuned!
- 11. Can QuickFrames be used to support hanging ceiling components?
  - a. Supporting suspended loads is not the intended use for QuickFrames.