



100 lb. and 500 lb. Rules

We received several questions concerning the 100 lb. and 500 lb. rules during the August webinar. SJI's YouTube video answers many of these questions and can be viewed at:

<https://steeljoist.org/resources/100-pound-and-500-pound-rules/>

This supplement also provides additional information:

- The 100# and 500# rules will be in the 46th edition of the Code of Standard Practice, due out later this year.
- The 100# and 500# were verified on existing joists and joist girders, therefore these rules apply on all angle chord and angle web joist since about 1985.
- Loads outside the 100# and 500# rule parameters should be covered by bend-check loads.
- If the uniform load considers a concentrated 500# load at every panel point, 500# can be applied once at every panel point.
- If the panel point is over 12 inches wide, (6 inches from the center) this 500# load can be placed next to the panel point without a strut.
- The bend-check load considers every panel of the joist.
- Beam clamps are not concentric loadings.
- Since either the 100# or 500# loads must be included in the uniform loading of the joist, the joists are not an order bigger to accommodate these loads.
- The 500# rule accommodates one load on either side of the panel point.
- The 100# rule and the 500# rule cannot be applied to the same panel.
- If the concentrated load is included in the uniform load, the joist will handle the concentrated load at the panel point. The maximum load within 6 inches from a panel point not requiring a strut is 500#.