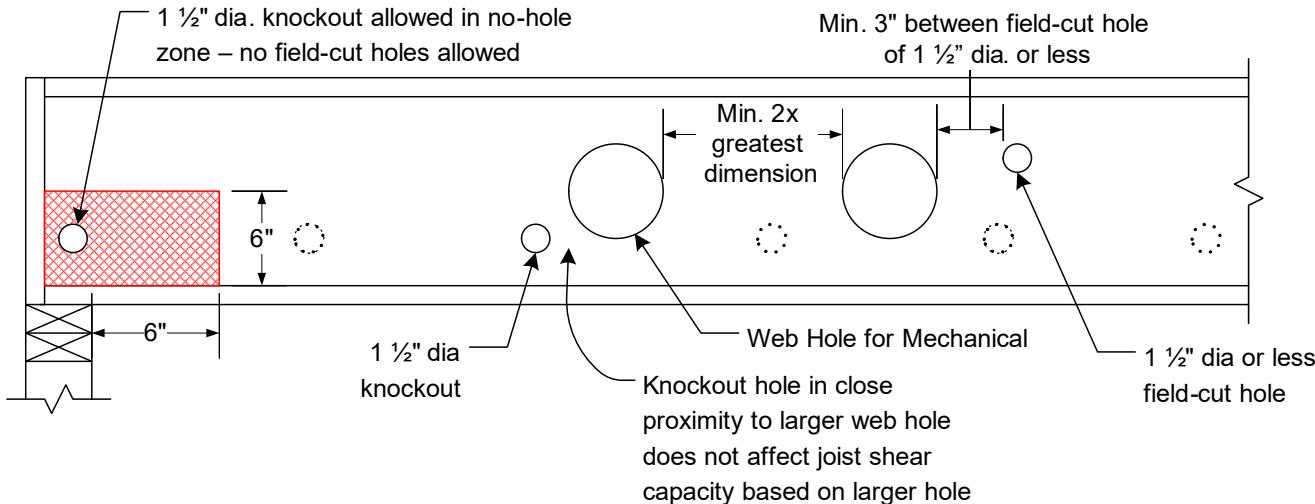




BCI® / AJS® Knockout and Field-Cut Web Hole Location Provisions

Both BCI® and AJS® joists are manufactured with perforated knockout holes in the web spaced at 12" on-center and having a diameter of 1.5 inches. The knockouts are cut closer to one flange and thus may be found near either the top or bottom flange, depending on the installed joist orientation. The knockouts may be removed in the field for wiring, small flexible pipe, or ventilation. BCI® / AJS® joist shear capacities, including reductions for web holes, are determined through testing that is performed on joists manufactured with the perforated knockout holes. Since the testing accounts for the factory-cut knockout holes, the following provisions apply:

- Minimum hole spacing requirements do not apply between field-cut web holes and knockouts.
- Knockout holes that fall directly in bearing zone areas (bottom 6" of web x 6" wide from bearing edge area from end or either side of intermediate bearing) may be removed, but no other web holes may be cut.
- Additional 1.5" diameter field-cut holes may be located at any location along the joist length with the following exceptions:
 - When located adjacent to other field-cut web hole greater than 1.5" diameter, a minimum edge distance of 3" is required
 - No field-cut holes of any diameter are allowed in bearing zone areas
 - No web holes of any size are permitted through web stiffeners or backer blocks



Web holes shall be located by hole charts found in BCI® / AJS® literature or analyzed with the BC Calc® sizing software. When using BC Calc® software, knockout holes are not required to be analyzed when they meet all minimum spacing and location requirements shown. For further information, please contact Boise Cascade EWP Engineering.