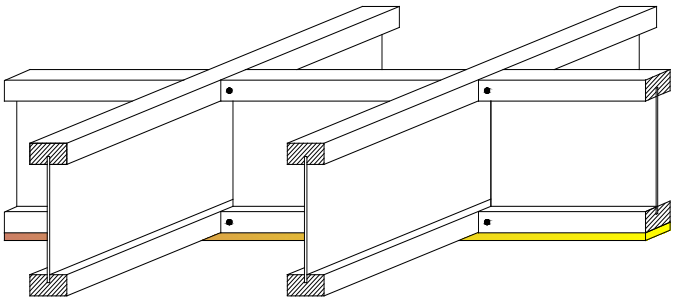
Higher Floor Performance

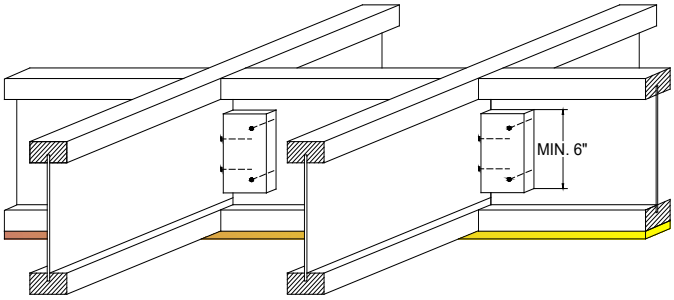
Floor performance can be improved by:

- Reducing the spacing or using deeper joists
- Using a thicker subfloor; gluing the subfloor
- Adding concrete topping
- Installing gypsum board
- Using a wider flange product
- Adding blocking and/or 1x3 strapping



AJS/BCI blocking fastened at the top and bottom flange

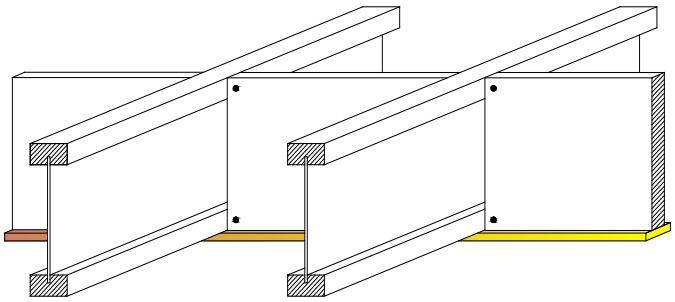
- Toenail each blocking at each end using 1 -2 ½" (8d) nail on each side at top and bottom flange. **Nails must be offset by ½" in the BCI joist glue lines to reduce risk of splitting.**
- 1x3 strapping could also be installed under blocking to increase the floor rigidity. Nail strapping at each joist-blocking intersection with 2 – 2" (6d) nails.
- Holes allowed in blocking webs (minimum 3" web distance required at each end); or alternate with 2x4 horizontal blocking at top and bottom flange.



AJS/BCI blocking fastened at the web

**** Preferred detail for BCI joist ****

- Install one 2x4 SPF (No.2) block at each joist-blocking intersection.
- Use 2 -2 ½" (8d) nails (clinched) through face of 2x4 and web, and 2 -2 ½" (8d) nails end-nailed through the web. Install the second 2x4 block on the other side of the AJS/BCI blocking to allow room for nailing to the joist.
- 1x3 strapping could also be installed under blocking to increase the floor rigidity. Nail strapping at each joist-blocking intersection with 2 – 2" (6d) nails.
- Holes allowed in blocking webs (minimum 3" web distance required at each end); or alternate with 2x4 horizontal blocking at



2x SPF No. 2&B blocking fastened at the top and bottom flange

- Toenail each blocking at each end using 1 -2 ½" (8d) nail on each side at top and bottom flange. **Nails must be offset by ½" in the BCI joist glue lines to reduce risk of splitting.**
- 1x3 strapping could also be installed under blocking to increase the floor rigidity. Nail strapping at each joist-blocking intersection with 2 – 2" (6d) nails.

Note: 2-½" (8d) nail may be substituted with #6 wood screw