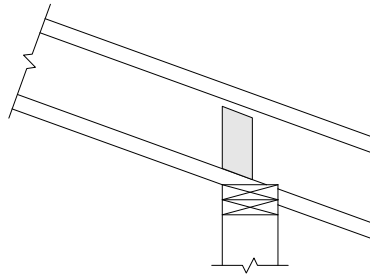




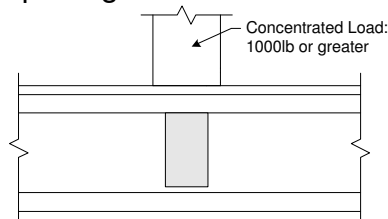
## **BCI<sup>®</sup> Joist Web Stiffener Requirements**

### **BCI Joist Applications where Web Stiffeners are Required:**

- 1) BCI Designs that Require a Higher Allowable Reaction Value: All of the allowable span and load tables found in Boise EWP literature are based upon minimum allowable reaction values. Thus web stiffeners are not required when sized according to these tables (except 18" & 20" joists, see note 3 below). Typical designs that occasionally require a higher reaction value (and thus web stiffeners) include commercial/industrial floors, residential floors with concrete topping, corridor areas in hotels, etc. By using Boise EWP's sizing software BC Calc, one can determine whether web stiffeners are required at specific bearing locations for heavier-load conditions.
- 2) Metal Joist Hangers that Do Not Extend Up to Provide Lateral Resistance for the Top Flange: Consult either Boise EWP Specifiers Guide (page 34) or the hanger manufacturer's literature for web stiffener requirements per hanger. Web stiffeners may also be needed to achieve uplift values, again consult hanger manufacturer's literature.
- 3) 18" and 20" deep BCI joists: Web stiffeners are required at all bearing locations for 18" & 20" BCI 60 & 90 joists, regardless of hanger or bearing condition.
- 4) BCI Roof Rafters with Birdsmouth Cuts at the End Wall Support: Per the detail shown, all BCI joists require web stiffeners when attached to the bearing wall in such a manner.

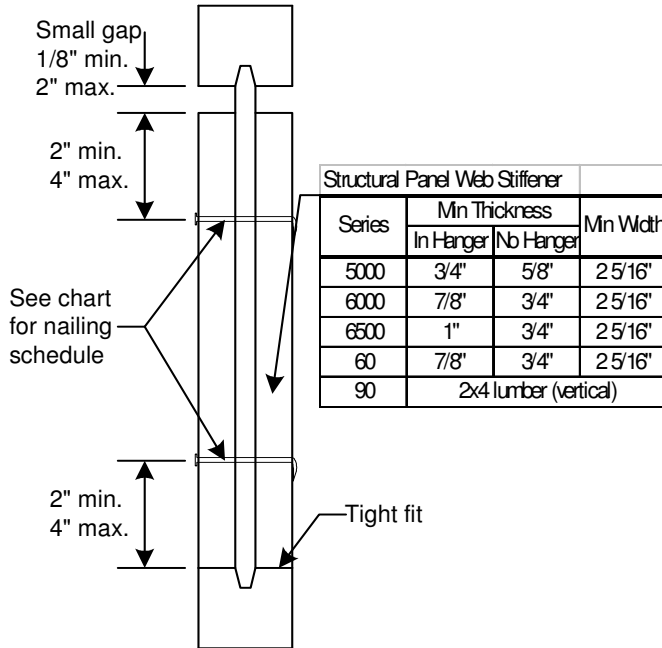


- 5) Under Concentrated Loads that Exceed 1000lbs: Web stiffeners are required at any location along a joist's span where a point load of over 1000lbs is being supported. Install the web stiffeners tight to the top flange in this situation.





**Web Stiffener Size and Nailing Requirements**



BCI Joist Series	Joist Depth	Bearing Location	
		End	Intermediate
BCI 5000	9 1/2"	2 - 8d	2 - 8d
	11 7/8"	2 - 8d	3 - 8d
	14"	2 - 8d	5 - 8d
BCI 6000	9 1/2"	2 - 8d	2 - 8d
	11 7/8"	2 - 8d	3 - 8d
	14"	2 - 8d	5 - 8d
BCI 6500	9 1/2"	2 - 8d	2 - 8d
	11 7/8"	2 - 8d	3 - 8d
	14"	2 - 8d	5 - 8d
BCI 60	11 7/8"	2 - 8d	3 - 8d
	14"	2 - 8d	5 - 8d
	16"	2 - 8d	6 - 8d
BCI 90	11 7/8"	3 - 16d	3 - 16d
	14"	5 - 16d	5 - 16d
	16"	6 - 16d	6 - 16d
	18"	7 - 16d	7 - 16d
	20"	8 - 16d	8 - 16d