### Roof Details

#### ROOF NOTES:
1. Use minimum 2½" x 0.131" nails unless otherwise noted. Larger diameter nails might split flanges.
2. Fasten joists to top plate with at least two nails. Start nails at least 1½" from end to avoid splitting.
3. Engineered projects might require higher strength connections. Refer to designer’s specifications.
4. 1¼” min. bearing at end supports. 3½” at intermediate and cantilever supports.
5. Framing lumber is assumed to be S-P-F unless otherwise noted.
6. See Web Stiffener Requirements on page 93.
7. Joists sloped more than ¾ in 12 must be birdsmouth-cut or set on sloped supports (e.g. beveled wall plates, sloped-seat hangers).
8. Birdsmouth cuts are allowed only at low end supports. Do not make birdsmouth cuts at high end supports or at intermediate supports.
9. Details apply to joists sloped up to 12 in 12.
10. Lateral support, to prevent lateral movement and rotation, is required at all supports.
11. Attach straps and hangers according to manufacturer’s instructions.
Trim and add blocking as desired for fascia and soffit attachment.

2'–0" max. overhang.

Beveled plate (shown) or birdsmouth cut.

Web stiffeners required at birdsmouth cut. See detail R4.

No. 2 S-P-F 2x4 or better. Nails at 8" o.c. 2'–0" max. overhang. 4'–0" min. back span. 24" o.c. max. joist spacing.

Ridge

Strap

Sloped-seat joist hanger.
Notes:
1. Side Load is the concentrated load transferred by a joist hanger.
2. Use min. 0.131” diameter nails. For backer blocks, use 2½” nails. For filler blocks, use length shown in table. Note that some joists require filler block nailing from each side.
3. Use Sheathing grade panels, Utility grade S-P-F lumber, or better. Thinner blocks may be combined to achieve specified thicknesses.
4. Size and position blocks to receive all nails, including hanger nails, without splitting.
5. Max. block depth is joist depth minus 3⅛” to avoid an interference fit between flanges.
6. For top-mount hangers, install backer blocks snug to top flange.
7. Clinch nails when possible.
8. Attach hangers according to manufacturer’s instructions.