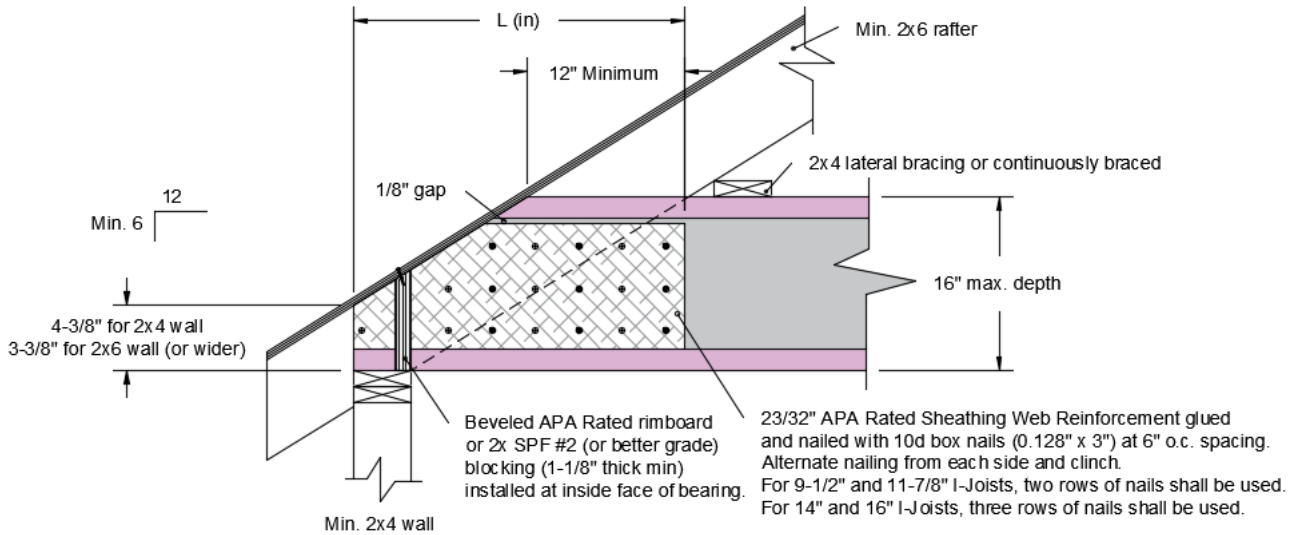


# PinkWood PKI® Joists

## Rafter Slope-Cut I-Joist Reinforcement – Canada (LSD)

### Rafter Cut Detail:

Max. factored reaction/shear shall not exceed the values provided below.



| Joist Series | Joist Depth (in) | Max. Factored Reaction/Shear (lbs) |    |        |    |                 |    |        |    |
|--------------|------------------|------------------------------------|----|--------|----|-----------------|----|--------|----|
|              |                  | 2x4 Wall: 4-3/8" Min. Heel Height  |    |        |    |                 |    |        |    |
|              |                  | Roof Pitch 6/12                    |    |        |    | Roof Pitch 8/12 |    |        |    |
|              |                  | L (in)                             |    | L (in) |    | L (in)          |    | L (in) |    |
| PKI10        | 9.5              | 1256                               | 25 | 1375   | 23 | 1495            | 22 | 1615   | 21 |
|              | 11.875           | 1171                               | 30 | 1283   | 27 | 1394            | 24 | 1506   | 23 |
|              | 14               | 1116                               | 34 | 1222   | 30 | 1328            | 27 | 1434   | 25 |
| PKI15        | 9.5              | 987                                | 25 | 1081   | 23 | 1175            | 22 | 1269   | 21 |
|              | 11.875           | 871                                | 30 | 954    | 27 | 1037            | 24 | 1120   | 23 |
|              | 14               | 798                                | 34 | 874    | 30 | 950             | 27 | 1026   | 25 |
| PKI20        | 9.5              | 1256                               | 25 | 1375   | 23 | 1495            | 22 | 1615   | 21 |
|              | 11.875           | 1171                               | 30 | 1283   | 27 | 1394            | 24 | 1506   | 23 |
|              | 14               | 1116                               | 34 | 1222   | 30 | 1328            | 27 | 1434   | 25 |
|              | 16               | 1081                               | 38 | 1184   | 33 | 1287            | 29 | 1390   | 27 |
| PKI23        | 9.5              | 1512                               | 25 | 1656   | 23 | 1799            | 22 | 1943   | 21 |
|              | 11.875           | 1329                               | 30 | 1456   | 27 | 1582            | 24 | 1709   | 23 |
|              | 14               | 1221                               | 34 | 1337   | 30 | 1454            | 27 | 1570   | 25 |
|              | 16               | 1146                               | 38 | 1255   | 33 | 1364            | 29 | 1474   | 27 |
| PKI35Plus    | 9.5              | 1256                               | 25 | 1375   | 23 | 1495            | 22 | 1615   | 21 |
|              | 11.875           | 1171                               | 30 | 1283   | 27 | 1394            | 24 | 1506   | 23 |
|              | 14               | 1116                               | 34 | 1222   | 30 | 1328            | 27 | 1434   | 25 |
|              | 16               | 1080                               | 38 | 1183   | 33 | 1285            | 29 | 1388   | 27 |
| PKI40        | 9.5              | 1364                               | 25 | 1493   | 23 | 1623            | 22 | 1753   | 21 |
|              | 11.875           | 1302                               | 30 | 1426   | 27 | 1550            | 24 | 1674   | 23 |
|              | 14               | 1262                               | 34 | 1382   | 30 | 1502            | 27 | 1623   | 25 |
|              | 16               | 1236                               | 38 | 1354   | 33 | 1471            | 29 | 1589   | 27 |
| PKI50        | 11.875           | 1302                               | 30 | 1426   | 27 | 1550            | 24 | 1674   | 23 |
|              | 14               | 1262                               | 34 | 1382   | 30 | 1502            | 27 | 1623   | 25 |
|              | 16               | 1236                               | 38 | 1354   | 33 | 1471            | 29 | 1589   | 27 |

**Notes:**

- 1) Sloped-end cut I-Joist shall not be used as collar/tension tie.
- 2) Nail roof rafter to I-joist top flange with 1-16d sinker nails (0.148" x 3-1/4") or 16d box nails (0.135" x 3-1/2").
- 3) Continuous APA Rated sheathing (nailed, or glued & nailed), or 2x4 nailer @ max. 2'-0" o.c. shall be fastened to the top flange.
- 4) Beveled blocking shall be installed at inside face of bearing. Nail roof sheathing to beveled blocking to top wall plate as per applicable building code.
- 5) 23/32" APA Rated Sheathing - Web Reinforcement shall be glued (with AFG-01 construction adhesive, or equivalent) and nailed with 10d box nails (0.128" x 3") at 6" o.c. spacing. Alternate nailing from each side and clinch. For 9-1/2" and 11-7/8" I-Joists, two rows of nails shall be used. For 14" and 16" I-Joists, three rows of nails shall be used.
- 6) Concentrated loads must be located min. 24" from the end beveled cut.

| Joist Series | Joist Depth (in) | Max. Factored Reaction/Shear (lbs) |        |      |        |       |        |       |        |
|--------------|------------------|------------------------------------|--------|------|--------|-------|--------|-------|--------|
|              |                  | 2x6 Wall: 3-3/8" Min. Heel Height  |        |      |        |       |        |       |        |
|              |                  | Roof Pitch                         |        |      |        |       |        |       |        |
|              |                  | 6/12                               | L (in) | 8/12 | L (in) | 10/12 | L (in) | 12/12 | L (in) |
| PKI10        | 9.5              | 1283                               | 26     | 1475 | 23     | 1667  | 21     | 1859  | 20     |
|              | 11.875           | 1210                               | 31     | 1391 | 27     | 1572  | 24     | 1753  | 22     |
|              | 14               | 1159                               | 35     | 1333 | 30     | 1506  | 27     | 1680  | 24     |
| PKI15        | 9.5              | 987                                | 26     | 1135 | 23     | 1283  | 21     | 1430  | 20     |
|              | 11.875           | 871                                | 31     | 1002 | 27     | 1132  | 24     | 1262  | 22     |
|              | 14               | 815                                | 35     | 937  | 30     | 1058  | 27     | 1180  | 24     |
| PKI20        | 9.5              | 1283                               | 26     | 1475 | 23     | 1667  | 21     | 1859  | 20     |
|              | 11.875           | 1210                               | 31     | 1391 | 27     | 1572  | 24     | 1753  | 22     |
|              | 14               | 1159                               | 35     | 1333 | 30     | 1506  | 27     | 1680  | 24     |
|              | 16               | 1129                               | 39     | 1298 | 33     | 1467  | 29     | 1636  | 26     |
| PKI23        | 9.5              | 1528                               | 26     | 1757 | 23     | 1985  | 21     | 2214  | 20     |
|              | 11.875           | 1367                               | 31     | 1571 | 27     | 1776  | 24     | 1981  | 22     |
|              | 14               | 1273                               | 35     | 1464 | 30     | 1654  | 27     | 1845  | 24     |
|              | 16               | 1208                               | 39     | 1389 | 33     | 1569  | 29     | 1750  | 26     |
| PKI35Plus    | 9.5              | 1283                               | 26     | 1475 | 23     | 1667  | 21     | 1859  | 20     |
|              | 11.875           | 1210                               | 31     | 1391 | 27     | 1572  | 24     | 1753  | 22     |
|              | 14               | 1159                               | 35     | 1333 | 30     | 1506  | 27     | 1680  | 24     |
|              | 16               | 1127                               | 39     | 1296 | 33     | 1465  | 29     | 1634  | 26     |
| PKI40        | 9.5              | 1364                               | 26     | 1568 | 23     | 1772  | 21     | 1976  | 20     |
|              | 11.875           | 1323                               | 31     | 1521 | 27     | 1719  | 24     | 1917  | 22     |
|              | 14               | 1295                               | 35     | 1489 | 30     | 1683  | 27     | 1876  | 24     |
|              | 16               | 1279                               | 39     | 1470 | 33     | 1661  | 29     | 1853  | 26     |
| PKI50        | 11.875           | 1323                               | 31     | 1521 | 27     | 1719  | 24     | 1917  | 22     |
|              | 14               | 1295                               | 35     | 1489 | 30     | 1683  | 27     | 1876  | 24     |
|              | 16               | 1279                               | 39     | 1470 | 33     | 1661  | 29     | 1853  | 26     |

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