

# PK-USA PKI series I-joists

## Allowable Holes in Blocking Panels

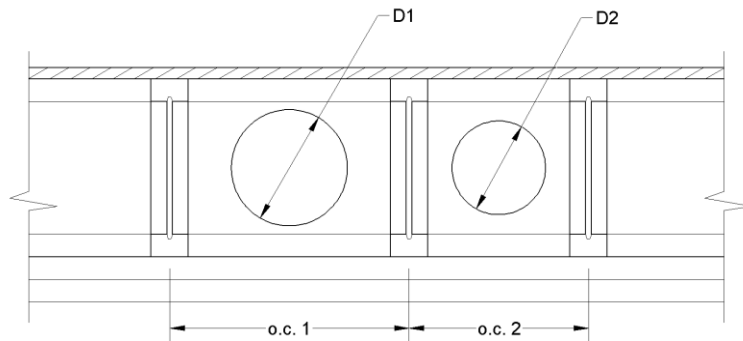
### Blocking Panel Uses

PKjoists® are often specified for use as blocking panels in the following conditions:

- To transfer lateral forces between Floors, Ceiling, and Roof joists.
- To support the compression flanges of continuous I-joists over interior supports and cantilever conditions.
- To prevent “roll-over” of Floor joists, ceiling joists, and rafter joists.
- To transfer both lateral forces and vertical loads as seen in end conditions terminating over a shear wall.

In such instances, holes are often required in the blocking panel to support the installation of duct work, electrical wiring, plumbing lines, and/or the cross ventilation of joist rafters. In these conditions, the below hole sizes and location are permitted.

### Size and Location Allowances



| I-joist blocking panel depth | Maximum allowable hole dia. |                |        |              |
|------------------------------|-----------------------------|----------------|--------|--------------|
|                              | D1                          | o.c. 1         | D2     | o.c. 2       |
| 9-1/2"                       | 6-1/4"                      | 12" o.c. min   | –      | –            |
| 11-7/8"                      | 7-3/4"                      | 12" o.c. min   | 6-1/4" | < 12" o.c.   |
| 14"                          | 9-1/4"                      | 16" o.c. min   | 7-3/4" | < 16" o.c.   |
| 16"                          | 10-1/2"                     | 19.2" o.c. min | 9-1/4" | < 19.2" o.c. |

- The holes must be cut in a workman-like manner.
- If holes are not round, they must be cut in such a manner to avoid “over-cutting” at the corners.
- The holes can be placed anywhere vertically in the web provided they do not damage the joist’s top and bottom flanges. A minimum of 1” of web material is required on each side.
- Clustered holes are allowed provided they can be circumscribed within the allowable diameter listed above.
- Holes other than those listed are permitted provided they have been approved by a licensed design professional.

If you have any questions, please contact PK-USA for details.

