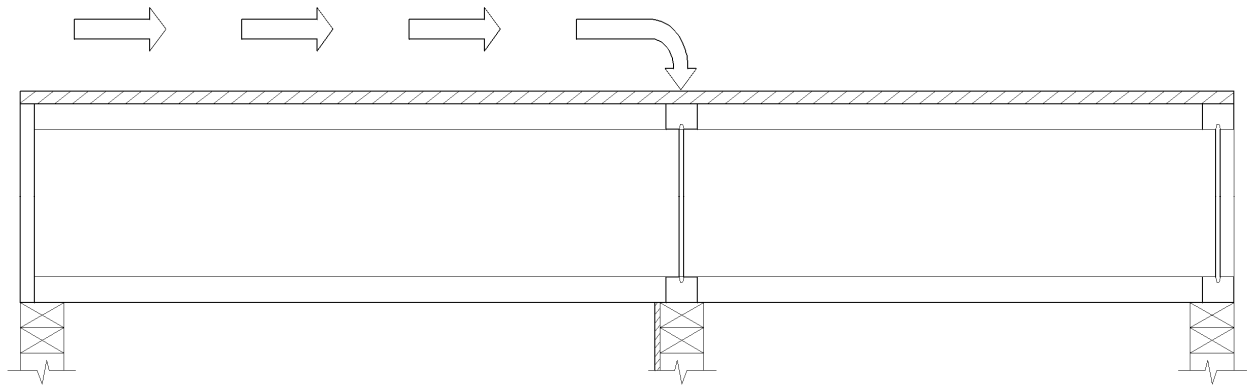


PK-USA PKI Series I-joists

Blocking Panel Removal at Intermediate Bearings

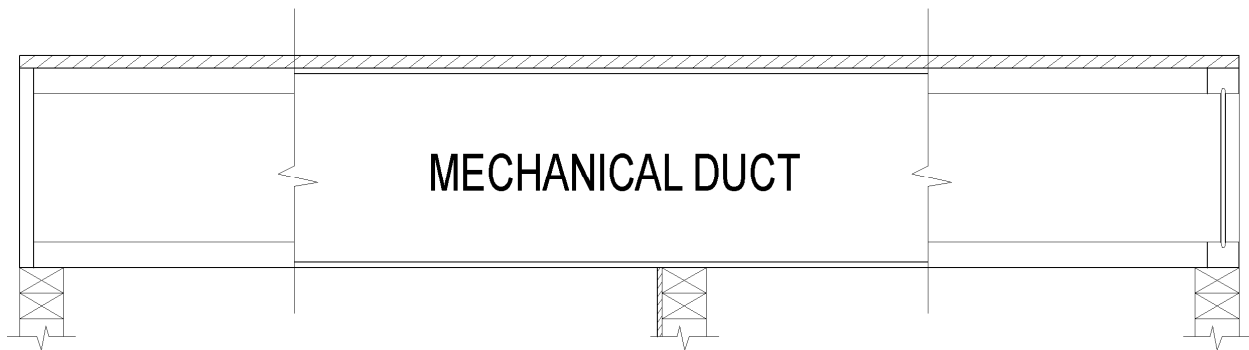
Blocking conditions

When designing floor and roof systems utilizing PKI Series I-joist it is necessary to install blocking panels at intermediate bearing conditions. These blocking panels not only assist in maintaining proper joist spacing, but they help in preventing joist “roll over” when forces introduced in the floor or roof diaphragm are transferred to the joist. Blocking panels may also be used to transfer collected diaphragm forces or “drag loads” so that such forces can be transferred to bearing walls below when such walls are designed to transfer these loads from the diaphragm to the concrete.



Blocking Removal conditions

When floor and roof systems designs introduce “joist high” mechanical duct runs or other items which reside within the joist bay, it may become necessary to remove a blocking panel which resides over an intermediate bearing. This occurs when the size of the duct is taller than the exposed web height of the joist blocking panel. In these condition, a blocking panel may be removed provided they are removed under the following condition.



PK-USA PKI Series I-joists

Blocking Panel Removal at Intermediate Bearings

Blocking panel removal conditions

1. The floor or roof assembly was properly installed prior to blocking removal.
2. Subfloor assembly was installed with an approved subfloor adhesive.
3. Remaining blocking panel length is capable of transferring any required diaphragm shear loads which do not exceed 230 lbs/ln.ft.
4. Only 1 block for every 4 bays may be removed when shear load transfer is required.

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

