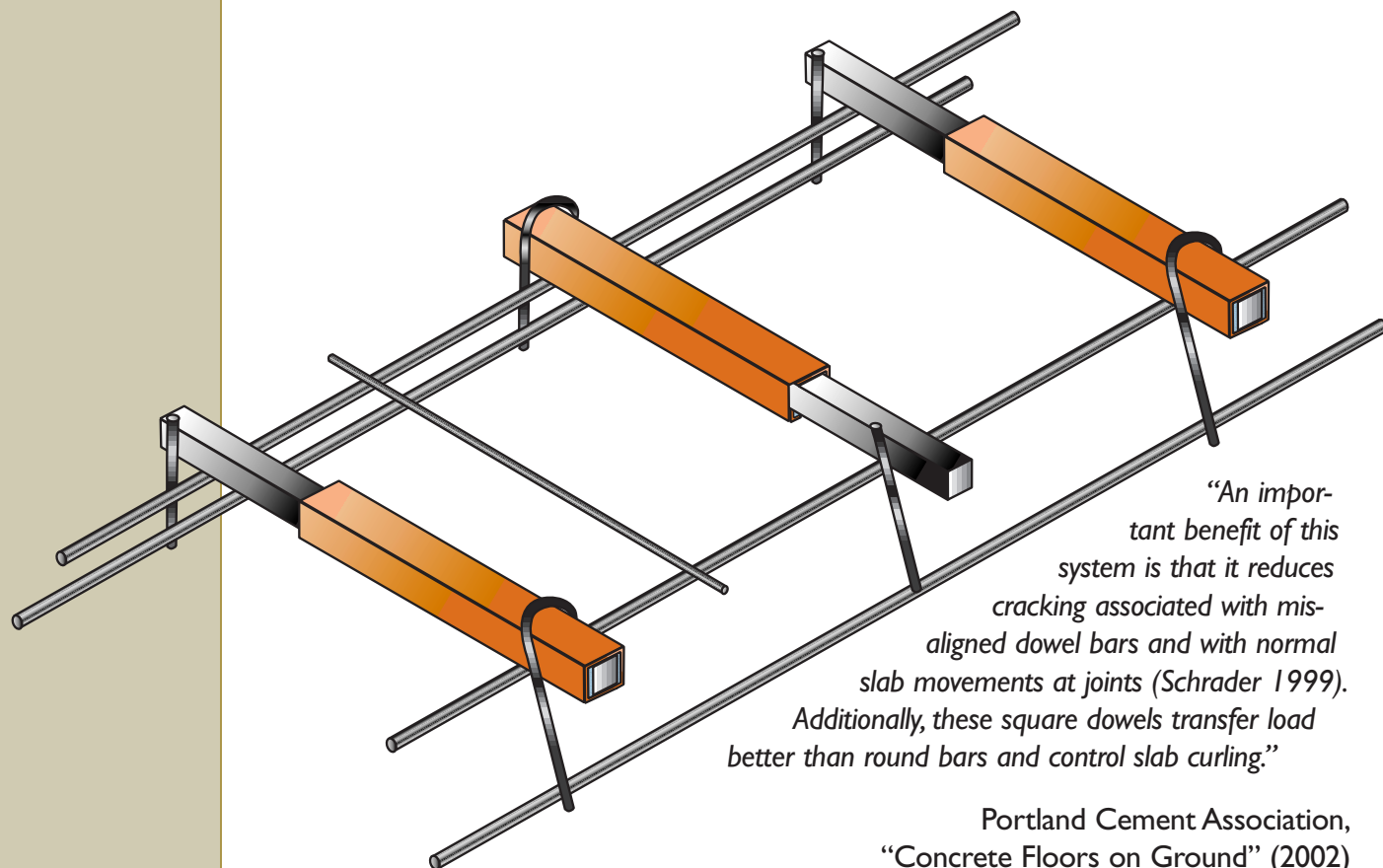




Square Dowel Basket

For Saw Cut Construction Joints

FEATURES & BENEFITS



"An important benefit of this system is that it reduces cracking associated with misaligned dowel bars and with normal slab movements at joints (Schrader 1999). Additionally, these square dowels transfer load better than round bars and control slab curling."

Portland Cement Association,
"Concrete Floors on Ground" (2002)

Features / Benefits

Engineering Advantages

- Square Dowels have an improved section modulus and bend less easily than conventional round dowels.
- Square Dowel Baskets are designed to allow for up to 15° of misalignment during construction while still allowing opening of the sawed contraction joint. This reduces restraint and minimizes random cracking.
- Dowels can be placed much closer to joint intersection (where faulting stresses are greatest) than round dowels, without causing increased restraint of movement.
- Conforms to the latest ACI and PCA recommendations.

Higher Quality

- All PNA Dowel Baskets are fully welded assemblies, offering the most stable support of the dowel during construction. Both this stability and the PNA clip ensure activation of the sawed contraction joints.
- Square Dowel Clips are attached at the factory and are supplied as part of the system.
- PNA Square Dowel Baskets are bundled and shipped on individual skids to provide for easy unloading and handling.
- Square Dowel Baskets can be custom manufactured to specific lengths to minimize or eliminate field cutting and wastage.*

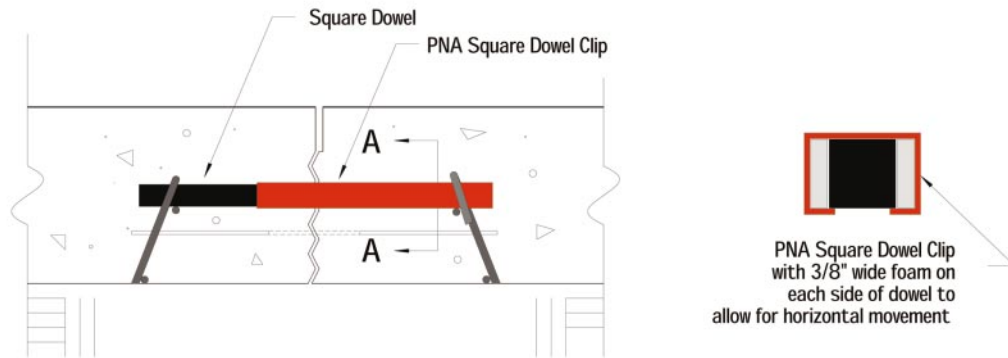
**Additional cost may apply.*

Square Dowel Basket

F O R S A W C U T C O N S T R U C T I O N J O I N T S

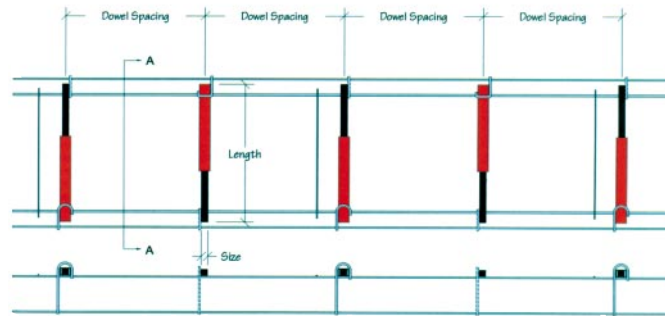
SPECIFICATIONS

Section



PNA Square Dowel Baskets are manufactured as fully welded assemblies that include both the square dowel and clips

Plan



Construction Joints

Many of the same benefits associated with the use of square dowels and clips in formed construction joints can be achieved more cost effectively with the use of the Diamond Dowel® System. PNA does however supply individual Square Dowels and Clips to comply with numerous specifications and Dowel Aligners to facilitate the proper installation of Square Dowels in formed joints.

Example Specification...

- All formed construction joints will incorporate the PNA Square Dowel Basket.
- Square Dowel Basket more information to come will be saw cut from hot rolled plate per ASTM A36
- The Square Dowel Basket will be supplied by and installed to PNA's recommendations. (Contact PNA Construction Technologies Inc. at 800-542-0214 for the most current installation guide).

The Square Dowel Basket has become a recognized industry standard. Some of its benefits as listed in the latest revision of The Portland Cement Association's, "Concrete Floors on Ground", publication;

Find Out More

For more details, specifications and independent engineering reports, please give us a call. Together we can determine a joint solution for your construction needs. **1-800-542-0214**

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