

Plate Dowel Basket Assemblies

For Saw-Cut Contraction Joints

PNA offers two types of plate dowel basket assemblies: Load Plate Basket™ Assembly and PD³ Basket™ Assembly

PNA's plate dowel systems are used in a "Strategic Reinforcement" design that helps you achieve superior load transfer while optimizing the amount of steel in concrete slabs-on-ground. PNA's plate dowel baskets are a smarter, more efficient way to deliver the durable, maintenance-free floors your customers expect. Plate dowel basket assemblies allow you to:

- Optimize the amount of steel in a project
- Collect your retainage
- Reduce your callbacks
- Save labor
- Limit your liability by using the latest ACI 302.1R-04 guidelines
- Deliver cost-effective slabs-on-ground

Faster, Easier Installation

- Reduces man hours for installation
- Allows subgrade leveling after installation to prevent rutting
- Construction tolerances allow for misalignment without causing restraint in the panels
- Eliminates obstacles for the laser screed
- Can be installed during pouring
- Fully welded assemblies, offering stable dowel support during installation
- Bundled and shipped on skids, for easy handling

Better Engineering and More Cost-Effective

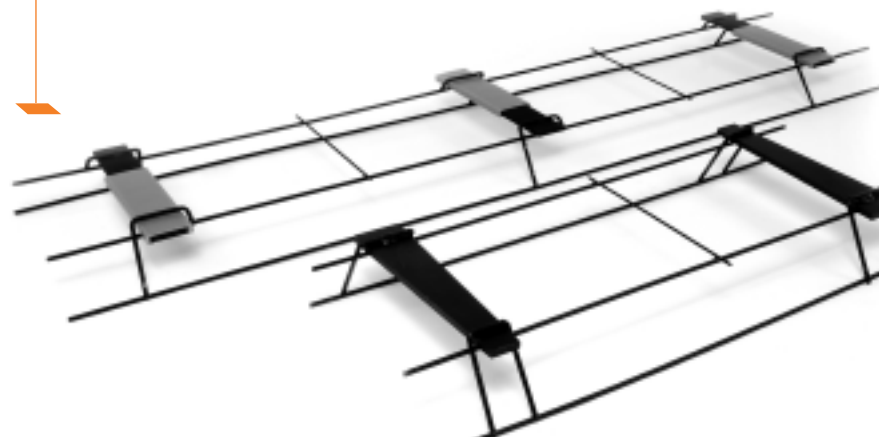
- Provides an increased bearing area of steel at the joints for superior load transfer
- Increases joint stability to extend the life of joint fillers
- Ensures long-term joint activation of saw-cut joints
- Eliminates restraint to allow floating slab panels
- Can be located up to within six inches of a joint intersection

Optimizes Steel

PNA's plate dowel assemblies allow you to only use steel at the saw-cut joints and not throughout the slab. This provides superior load transfer at the contraction joints while optimizing the amount of steel needed in the floor.

Example Conversion

Plate Dowel Baskets	Round Dowel Baskets (all dowel lengths)
2" X 3/8" X 12" @ 19" o/c	3/4" dowels @ 12" o/c
2" X 3/8" X 12" @ 24" o/c	3/4" dowels @ 18" o/c
2 1/2" X 1/2" X 12" @ 18" o/c	1" dowels @ 12" o/c
2 1/2" X 1/2" X 12" @ 24" o/c	1" dowels @ 18" o/c
2 1/2" X 3/4" X 12" @ 18" o/c	1 1/4" dowels @ 12" o/c
2 1/2" X 3/4" X 12" @ 24" o/c	1 1/4" dowels @ 18" o/c



Instructions for Use

Step 1

Measure and mark (notch or nail) the saw-cut location on the forms.



Step 2

Pull string lines then spray paint saw-cut locations on the subgrade.



Step 3

Lay out one row of baskets over painted marks on the subgrade. Keep plates a minimum of 6" away from the intersection of two joints.

Special length baskets are available on request to minimize cutting & piecing of baskets.



Step 4

Place concrete (be careful to maintain alignment of baskets over paint marks).



Step 5

Screed and finish concrete as normal (internal vibration/consolidation may be necessary per ACI specifications).



Step 6

Use notches or nails on forms to snap chalk-lines and saw-cut joints as normal to the specified depth.



Doweled construction and contraction joints are recommended when load transfer is required...

—ACI 302.1R-04

LOAD TRANSFER SYSTEMS

- ▶ DIAMOND DOWEL® SYSTEM
- ▶ LOAD PLATE BASKET™ ASSEMBLY
- ▶ PD³ BASKET™ ASSEMBLY
- ▶ ROUND/SQUARE DOWELS, CLIPS & BASKETS

JOINT PROTECTION PRODUCTS

- ▶ ARMOR-EDGE™ JOINT ASSEMBLY
- ▶ ARMOR-EDGE™ N2E JOINT ASSEMBLY

HYDRACURE™ COVERS



800.542.0214

WWW.PNA-INC.COM

© 2005 PNA Construction Technologies, Inc.
All rights reserved. 01/05
US and foreign patents pending.