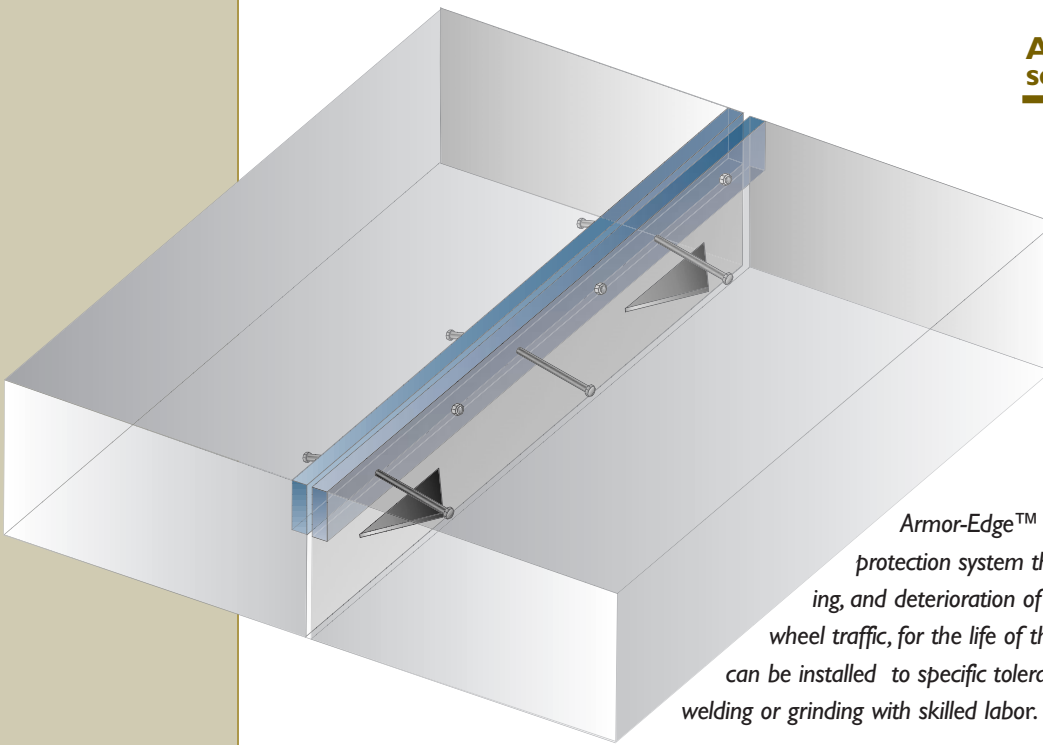


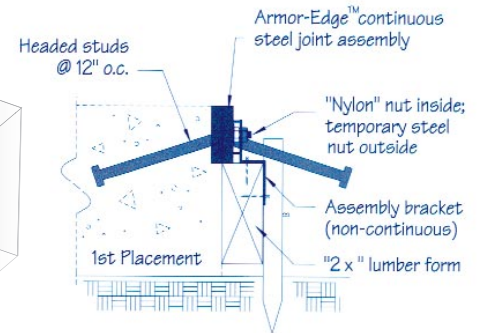
Armor-Edge™ Assembly

J o i n t P r o t e c t i o n S y s t e m

FEATURES & BENEFITS



Armor Edge section over form



Armor-Edge™ is a fully assembled armored joint protection system that virtually eliminates spalling, raveling, and deterioration of joint edges from the impact of hard wheel traffic, for the life of the floor. The Armor-Edge™ assembly can be installed to specific tolerances, without the need for onsite welding or grinding with skilled labor.

Features / Benefits

- Eliminates spalled raveling concrete edges for the lifetime of the floor.
- Malleable steel absorbs the impact of small, hard wheeled traffic that can rapidly deteriorate and exposed concrete joint edge.
- Steel used to fabricate PNA Armor-Edge™ products provide a flat exposed surface edge to finish to, with tighter dimensional tolerances. Conventional hot-rolled steel has rounded ends that create a crowned surface edge, creating a feathered transition of concrete over the steel.
- Eliminates tack welding, previously necessary to suspend armored bar for the second slab placement. This also allows for easier finishing of the concrete that abuts the steel bar edge.
- Armor-Edge™ is shipped fully aligned and assembled for simplified, efficient and accurate installation.
- Cost savings are not only found in the initial product price, but the Armor-Edge™ system can be installed in a fraction of the time necessary to install conventional alternatives. A national flooring contractor, from St. Louis, esti-

imated a 70% savings in time and labor costs to install the PNA Armor-Edge™ system.

Example Specifications

- Two 2" x 3/8" square edged steel bars are held back to back with assembly bolts at 3' centers.¹
- Specially designed mounting brackets are also located at 3' on center.
- The steel bars are first held together with a nylon nut that is designed to yield (threads strip) under tension thus allowing the completed joint to open freely during normal drying shrinkage of the concretes.
- The full assembly is held together with steel shipping nuts
- The mounting bracket can be nailed or screwed to the top of a 2" x 4" form (2" x 4" for a 6" slab).
- Armor-Edge™ assemblies shall be manufactured by and installed in accordance with the recommendations of PNA Construction Technologies, Inc. 1.800.542.0214

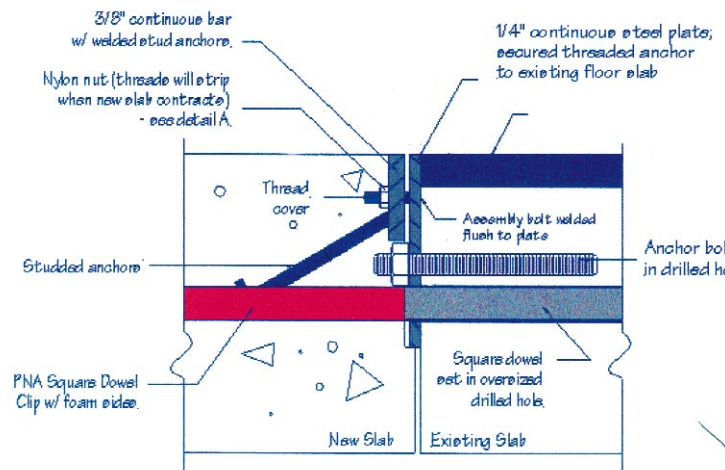
¹ Standard lengths for the PNA Armor-Edge™ assembly is 12'. Alternative custom lengths are available. Additional charges may apply for custom length orders.

Armor-Edge™ n2e

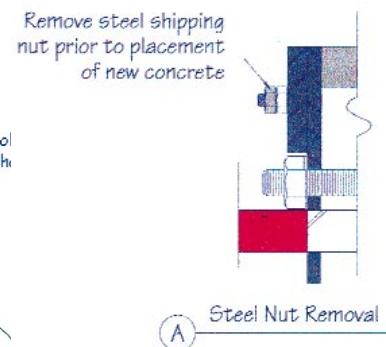
Joint Protection for New to Existing

SPECIFICATIONS

Section at Sawed Joint



Detail A



Armor Edge™ n2e is a superior edge protection system for transitions from new to existing concrete slabs, typically located at new door openings or other high traffic locations along a building's expansion line. Installed with square dowels and PNA square dowel clips the system provides a smooth surface transition for forklift traffic, while eliminating the restraint of movement, that can cause unwanted random cracking of the newly placed concrete slab as it shrinks.

Features / Benefits

- Armor Edge™ n2e is shipped as a complete engineered system, providing protection for both the new and existing slab joint edges.
- Provides a means to improve the surface tolerance and profile of the existing slab that was originally placed abutting the building perimeter wall.¹ Historically, this is the location of poorest finished surface profile, and must be improved for a smooth transition when building is expanded.
- Packaging includes square dowels with PNA Square

Dowel Clips™, that are epoxy grouted² into oversized drilled holes in the existing concrete slab edge. The dowel clips, with foam sides, insure free lateral movement of the newly placed concrete slab, accommodating concrete shrinkage without restraint that leads to random cracking.

- Fast, simple, cost effective solution.

¹ Concrete floor slab resurfacing materials specified and provided separately.

² Epoxy grout materials specified and provided separately.

Example Specification...

- A 4 1/2" x 1/4" plate is bolted back to back with a 2" x 3/8" square edged studded bar and held together with a combination of nylon and steel nuts.
- The Armor Edge™ n2e system can be fabricated and shipped in a custom length that matches width of a newly created door opening¹.
- The steel nuts are for shipping and installation only and **MUST** be removed prior to the new slab cast. The nylon nut is used to hold the studded bar in position during second slab cast and is designed to yield under tension thus allowing the completed

joint to open freely while the concrete undergoes its normal drying shrinkage.

- The anchor bolts; square dowels and 'Square Dowel Clips' are provided by PNA and must be used at the specified centers.
- The installation method shall be in accordance with the recommendations of PNA Construction Technologies Inc. 800-542-0214.

¹ Standard lengths for the PNA Armor Edge™ n2e assembly is 10'. Additional charges may apply for custom length orders.

PNA
Construction
Technologies Inc.
P.O. Box 1411,
Matthews, NC 28106
Tel: 704 821 7000
Fax: 704 821 7474
800-542-0214
www.pna-inc.com

