

PBA 10K Field Installation Instructions



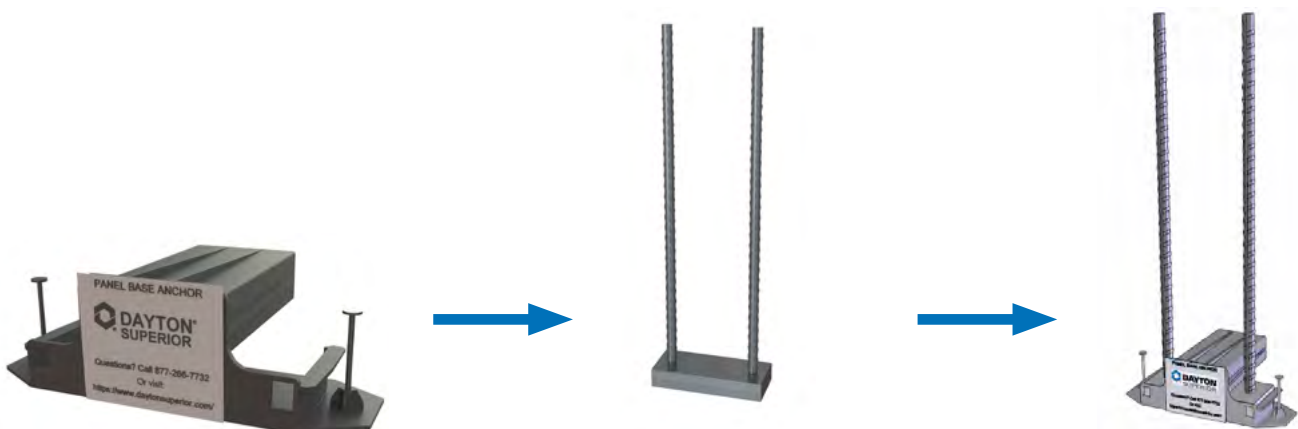
The PBA 10K was designed to meet the structural integrity requirements for Uplift outlined in ACI 318. The PBA 10K is a verifiable connection and can be installed after the panels have been lifted and properly secured/braced. Below, are detailed field instructions on properly installing the PBA 10K.

If there are any questions, please reach out to Dayton Superior for more information.

KEY INSTALLATION NOTES:

- Always refer to the structural specifications for the project regarding quantity and locations of the PBA 10K.
- The PBA 10K is provided with Dayton Superior's 12" Bearcat™ Bolt. However, always use the anchor specified in the structural documents. Do not interchange other bolts or anchoring methods without written approval from the project's EOR.
- For more detailed information on installation of the Bearcat™ Bolt, refer to Dayton Superior's published data.
- The PBA 10K was designed to accommodate most power drills for pre-drilling the bolt hole location in the foundation. This was done to help speed up installation time by eliminating the need to mark where the anchor is to be installed. Always be sure to fully insert the insert bar into the void such that the stopper bar is flush against the outside of the void.
- Make every effort to ensure the rebar layout in the footing/foundation is considered during placement so there are no conflicts with the PBA 10K.

INSTALLATION PROCEDURE



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- 1 - Attach the plastic void to the base sub-assembly. The plastic void can be facing either direction during assembly. Once secured, the plastic void should “snap” in place.
- 2 - Inspect the weatherproof covering over the void opening to ensure there are no tears and that the edges have completely sealed the perimeter of the opening. It is important to ensure no concrete enters the void opening during casting.



- 3 - Position the void opening with the weather-proof adhesive face-down towards the casting surface. Be sure to secure the bottom of the PBA 10K flush against the bottom form board with the provided nails. Refer to the structural drawings for precise location and quantity on the panel.

- 4 - Secure the ends of the rebar using bar supports or by tying them into the rebar mat. (Figure 1) Keep the distance between the rebar and the casting surface uniform and parallel. If tying into the existing rebar mat, be sure not to pull away the void opening from the casting surface in order to tie into the existing mat (Figure 2) – use a bar support.



FIGURE 2 - Correctly supported with chairs



FIGURE 1 - Incorrectly tying in PBA into existing mat

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5 - Pour and ensure consolidation around the PBA 10K's.



6 - Once the panels have been lifted and secured/braced. Locate the weatherproof cover (Figure 3) on the cast-down face of the panel and punch the insert bar through (Figure 4).



FIGURE 3 - Locate PBA 10K



FIGURE 4 - Insert bar until stopper is flush with void

7 - Slide in the bar until the stopper portion on the insert bar is flush with the PBA 10K's plastic void (Figure 5). The Insert Bar can be oriented up or down, but by orientating up, the installer can verify that the bar is fully engaged.



FIGURE 5 - Bar fully engaged with stopper bar flush against void of PBA 10K

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IMPORTANT NOTE It is CRITICAL that the stopper bar is flush against the plastic void when installing the anchor into the footing. It is NOT acceptable to move out the insert bar in order to avoid conflict with the rebar in the footing or any other obstruction. (Figure 6)

FIGURE 6 - Stopper bar NOT flush with PBA 10K void

8 - With the Insert bar fully engaged in the void.
Pre-drill the hole for the Bearcat™ with a 3/4" drill bit. Refer to Bearcat™ installation information on Dayton Superior's webpage.



9 - Install the 12" Bearcat™ Bolt as specified in the Single-Use Bearcat Bolt Technical Data sheet.



10 - Verify that the bolt is torqued to the specified 200 ft·lb and the installation is complete.

