

SERIES 1, ISSUE 10 – EMBED PLACEMENT

Placing embeds is a vital part of the precast concrete production process. The location of each required embed is significant for the installation/connection of each precast concrete piece. Proper placement will help field crews maintain the erection schedule and contributes to the overall quality of the project. These connections are very important to the success of each project. Embed issues can create significant costs for the field when redesign and/or rework is required, and can cause delays.

Common Issues

- Embeds not in the proper location
- Embeds sunk into the concrete or moved off during casting
- Incorrect shop drawings, causing mislocated embeds
- Lack of consolidation around embeds (voids)
- Embeds missing
- Embed not level
- Lack of training of importance of embed location

Best Practices

- Use standard plates specific to certain product types.
- Shop drawings should provide special embed details with a dimensioned detail.
- Provide a drawing that contains all embeds needed for each piece.
- Have a quality system in place with pre- and post-pour checks for proper embed placement.
- Plant should provide standard work instructions for proper embed placement (refer to PCI MNL 135 for standard embed tolerances per production type).
- Develop a standard practice to ensure there are no voids beneath the embed as it is being cast.
- Premount embeds whenever possible.
- Avoid placing embeds into concrete that has already begun to set.



Embed not flush with concrete surface



Embed not level

PCI Plant Quality Talk Quality Enhancement Committee



NPCA
National Precast Concrete Association



PCI
Precast/Prestressed
Concrete Institute

Note: Please complete this form and return to the Quality Control Manager. All crew members should be observant and report to their foreman anything out of the ordinary on a project. *See something, say something.*

NOTES	ATTENDEE SIGNATURES
DATE	
PRESENTER	