

Calais at Pelican Bay

Project Management Report – Building E

1. Unit E301 Interior Structural Slab Crack Repair

Socotec conducted a field inspection of the ongoing structural crack repair at Unit E301. During the structural epoxy injection process, significant deficiencies were identified in the formwork installed by Dietz of Naples that prevents proper containment of the structural epoxy during injection. The formwork beneath the crack has been installed improperly and incompletely. The form does not seem to extend throughout the entire length of the crack. Structural epoxy was observed leaking from the ends of the formwork and additional leakage was noted at unsealed seams/joints of the formwork. It is important to note that this crack is a structural crack that extends completely through the depth of the concrete slab. This full-penetration crack represents a discontinuity in the structural element. Due to the full-depth structural nature of this crack, restoration of the slab's original load-carrying capacity requires the use of a high-modulus, high-strength epoxy. The repair must achieve 100% penetration and sealing of the entire crack throughout its full depth and length. Complete removal and reinstallation of the formwork is necessary to ensure full coverage along the entire crack length and proper sealing at all seams/joints to prevent epoxy migration. All formwork must be inspected and approved by Socotec prior to the continuation of the repair work and injection operations.



Observed interior structural slab crack.



Observed formwork starting and end points.



Observed epoxy leakage at unsealed formwork seams.



Observed epoxy leakage at formwork end point.