

## **PRE-INSTALLATION GUIDELINES FOR ISO-FLEX WINGED EXPANSION JOINT SYSTEM**

The following guidelines must be followed prior to the installation of Iso-Flex Winged Expansion Joint System.

1. Blockout dimensions shall be .75 inch deep and 3.5 inches wide on both sides of the structural joint opening. Refer to drawing number 1120 for stem opening dimensions.  
The expansion joint blockout and stem openings shall be a consistent width and depth along the entire length. They shall be parallel and vertically plumb. They shall be the required widths and depths for the specified seal on this project.
2. Slightly chamfered or rounded top corners (at the traffic surface) of the blockout are recommended to help prevent edge spalling and damage to these edges during subsequent use.
3. It is critical that the leading corner on the base of the blockout, at the joint stem opening be a sound, square 90° corner. This ensures that the wing flange of the seal is fully supported.
4. Confirm that the decks are level (on the same plane) across the joint gap. Report any areas exceeding +/- 1/4 inch to LymTal for instructions prior to commencing with installation of seal.
5. Concrete within the blockout area and adjacent to the expansion joint system must be sound. This should be confirmed by tapping these areas with a hammer. If a hollow sound is heard or the concrete cracks, crumbles or loosens, the unsound concrete must be removed and repaired with a structural repair mortar.
6. Repair mortars acceptable to LymTal include; Thoroc 1060, Emaco T-415 and Sika 123. Contact LymTal for recommendations on other compatible repair mortars.
7. Edge spalling, sharp projections and concrete voids (bug holes) shall also be repaired prior to proceeding with the joint installation. All repair materials used should have reached full cure conditions as specified by the repair material manufacturer. All obstructions such as form work and refuse shall be removed from the joint opening.
8. Areas that are repaired must also be sound and be confirmed by tapping these areas with a hammer. If a hollow sound is heard or the repaired area cracks, crumbles or loosens, the unsound repair must be completely removed and repaired again with a structural repair mortar.
9. The expansion joint blockout and opening should be sandblasted to remove laitance, loosely bonded material and any other contaminant, which may inhibit bonding of the system to the concrete. Should sandblasting not be feasible the surfaces must be ground with a coarse wheel disc grinder to produce an abraded surface. Care must be taken not to polish the concrete surface, as this can lessen adhesion.

For further information on installation of the Iso-Flex Winged Expansion Joint please refer to the installation procedures available from LymTal International.

Rev 12/03