

**BACKGROUND:**

The edge lifting lifting anchors located on a tilt up panel have failed during the erection process. A crane was lifting the panel into position when the one of the lifting anchors has pulled out, this left the entire weight of the panel on one anchor which has also failed, and this resulted in the top section of the anchor being torn off completely. No one was injured but riggers had to take evasive action to prevent from being struck by the falling panel

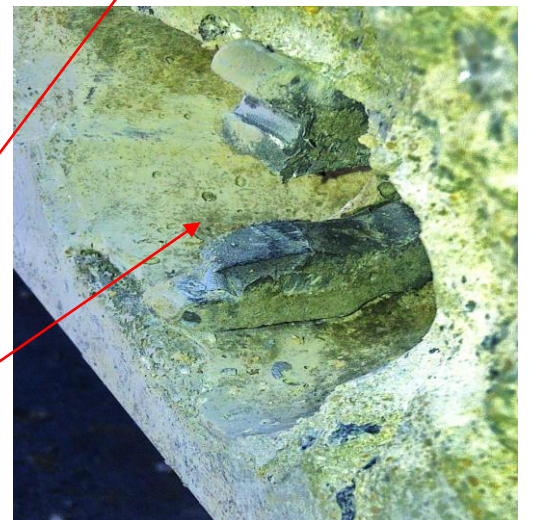
It would appear that the hairpin lifting anchor, which has pulled out, was not properly installed into the panel as per the design. This has left the anchor with no structural integrity what so ever, which subsequently resulted in its failure.



Resulting damage to panel after incident

Hairpin anchor pulled completely out of the panel structure.

Second anchor with top section sheared off.



**RECOMMENDATIONS:**

- Ensure that all panels have been inspected and signed off as per the requirements of the National Code of Practice for Precast, Tilt up and Concrete Elements in Building Construction.
- Maintain a safe exclusion zone when concrete panel work is taking place.
- Verify that any lifting inserts/pins/anchors used in the panel manufacturing process meets AS 3850
- Ensure that all personnel involved in the transportation, manufacturing and erection of concrete panels have undergone the required training.

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