

# SAFE INSTALLTION OF INTERLOCKING PIN FOR WATER BARRIERS

A tool designed to install steel interlocking pins into plastic barriers while keeping workers' hands safe from potential harm.

A purpose-designed tool has been developed for safe installation of steel interlocking pins into water barriers.

The tool improves safety for workers by eliminating the interface between the worker's hand and the steel interlocking pin during the installation process.



Steel interlocking pin on top of water barrier (left), Utilising purpose-designed tool to install interlocking pin (centre), Safe position of hands after the installation of interlocking pin (right)

## The Situation

Hand injuries are a safety risk during the installation of water barriers.

The challenge is aligning the steel interlocking pin with the holes in the water barrier.

Insufficient space and curved edges can lead to misalignment of the steel interlocking pin into the water barrier.

The safety concern arises when the worker manually adjusts the positioning of the pin and water barrier for realignment.

This places the worker at risk of hand injury if the pin unexpectedly drops.

## The Solution

A specially designed tool has been developed in collaboration with the supply chain partner, BK Labour.

The tool enables safe installation of the interlocking pin by eliminating the interface with the worker's hands.

The tool ensures that hands remain at a safe distance above the water barrier even after the locking pin is in position.

This reduces the risk of injuries resulting from the downward motion of the interlocking pins.

## Benefits and learnings

### Safety:

The tool effectively protects hands and fingers from potential harm, even in the event of unexpected movements of the locking pin.

### Ease of Use:

Users find the installation tool easy to fit, making the process convenient and user-friendly.

### Increased Safety Distance:

The tool ensures that hands remain at a safe distance above the water barrier even after the locking pin is in position.

### Cost Savings:

The installation tool is cost-effective, providing a practical solution without requiring significant financial investment. RRP cost per unit is approximately \$30.

### Storage Convenience:

The tool is designed for easy storage, promoting efficient organisation and accessibility.

**Program Office:** Level Crossing Removal Project  
**Work Package:** Union Road and Mont Albert Road  
**Principal Contractor:** BK Labour Hire

**Solution Vendor:** McMahon Hire Solutions  
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