ADMINISTRATIVE

CONTROLS **NSTRUCTIONS** 

& SIGNS



## INSTABILITY IN TEMPORARY CONDITION - FORMWORK SHUTTERING

# **Description of Event**

The formwork shutter was not installed in accordance with manufacturer's design

## **Population at Risk**

**Installation Contract Workers and Supervisors** 

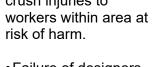
## **Hazardous Activity and Residual Risk Description**

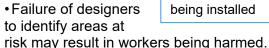
- Installation of shutters may expose workers to structures that are unstable in the temporary condition.
- The residual risk of falling formwork has been assessed as moderate to serious.

## Potential consequences of this event

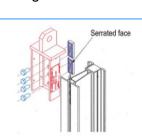
Collapse of formwork may result in impact and

risk of harm.





 Failure to provide adequate working area / plant operating area / material lay down area / on-site assembly area design may increase risk of harm at plant / tool / person interfaces.



Drawing of designed lifting point

crush injuries to

Photo of a shutter

being installed

# Safety Hub Alert Database

Photo of a shutter post

collapse

Sub-category 2 Collapse for Temporary Works has 7 alerts.

# Please send ideas for Whole Life Design safety shares to wellbeing@nationalhighways.co.uk

## **Potential Mitigation Measures**

## Design

- Provide information on the loading limits of the temporary works design e.g., lifted as per the manufacturer's guidance
- Provide information on drawings and associated documents.

### Construction

- Check that the formwork is assembled in accordance with the design.
- Check if a designed lifting ancillary point is installed.
- Select lifting equipment and ancillaries that are suitable for the designed lifting point.
- Check that the lifting plan aligns with the designed drawings.
- If the assembled formwork or lifting plan is not aligned with the design STOP and seek advice.
- Install barriers to remove workers from areas of potential harm.
- Supervisor to talk and walk-through assembly steps and lifting plan before activity starts.
- Temporary Works Coordinator to liaise with supervisory site staff to ensure they are aware of all the potential risks.

### **Further Guidance and Reading**

- BS 5975:2019 Code of Practice for Temporary Works procedures and the permissible stress design of falsework
- Highways Safety Hub Temporary Works
- Lifting Operations and Lifting Equipment Regulations 1998 (LOLER)