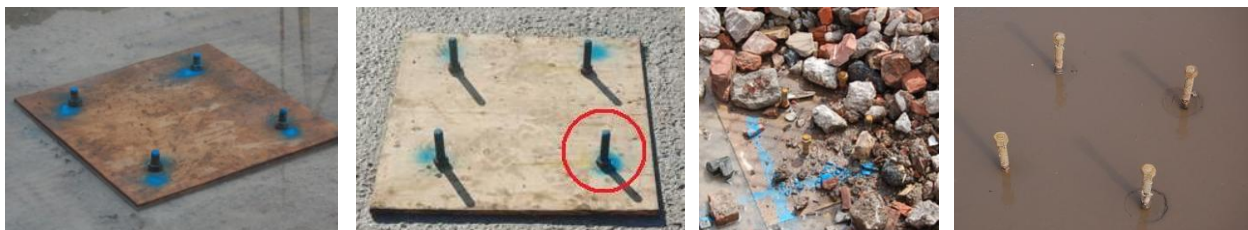


Foundations: - Holding Down Bolts

Bad Practice:

- Incorrect bolt: Size, Layout or Projection installed: Failure to check prior to casting resulting in potential delays/additional costs incurred.
- Incorrect orientation: Bolt arrangement not symmetrical or intersection of two 'wings'.
- Missing Nuts: not replacing bolts and washers after stripping templates and cracking bolts
- Bolts buried/cones filled with slurry: potential for damaged or broken bolts by from site traffic unable to identify location.



Best Practice:

- Using Denso tape on washers: Aids in cracking and movement/rotation of bolt within cone.
- Forming blow holes in congested bolt arrangements (see image below): Preventing trapped air and subsequent concrete voids under template.
- Cracking bolts: ensuring free movement.
- Marking centrelines of base plates on the pads: Aiding in erection, plumbing and lining columns
- Keeping the cones clean and clear from debris by replacing the template after cracking.
- Battering ground around foundations back: Preventing hazards and potential for bolts to become buried.
- Protecting bolts from plant movements: Erecting barriers around bolt arrangements.



Better Practice:

- Protecting threads from corrosion: Wrapping Denso Tape around the threads.
- Using Precast Manhole rings to protect bolts/ensure access for erection when required to backfill around bolts for haul routes, MEWPS or Crane berthing locations.



Visit: - www.ajb-settingout.co.uk/index.php/site-engineering-guide
For further Best Practise, Quality Assurance Checklists, Templates & Forms

