

BORED AND CFA PILING

Rotary and continuous flight auger · concrete supply · open bores

ACTIVITY RAMS — ADAPT TO SITE BEFORE USE

KD-RAMS-PS-002 Rev A0

Statutory basis: HSWA 1974 s.2(2)(a) and MHSWR 1999 regs 3 and 5; CDM 2015 reg 22(4) — no work in a supported or battered excavation without a competent-person inspection, reported under reg 24; reg 25(4) with HSE HSG47 (3rd edition, 2014) for underground services; PUWER 1998 and LOLER 1998 regs 8 and 9 for the rig and its lifting operations; Work at Height Regulations 2005; Manual Handling Operations Regulations 1992; COSHH 2002 with EH40/2005 (4th edition, 2020) for silica and wet cement; CDM 2015 regs 13 and 15. The working platform is temporary works: it is designed, certified and re-inspected under BS 5975-1:2024 management procedures, and no rig tracks onto it without a current certificate.

1 DOCUMENT AND PROJECT IDENTIFICATION

RAMS REFERENCE	PROJECT / SITE REF	SITE NAME AND ADDRESS	DATE PREPARED	NEXT REVIEW DATE
CLIENT / PRINCIPAL CONTRACTOR	PLANNED START	DURATION	OPERATIVES	SUPERVISING THE WORK

2 SCOPE OF WORKS

Installation of bored, CFA and rotary piles: boring, reinforcement cage installation, concrete placement through the auger or tremie, and management of arisings.

This document does not cover: pile design, working platform design and certification, and integrity or load testing.

SITE-SPECIFIC SCOPE, LOCATIONS AND LIMITATIONS

3 RISK ASSESSMENT — SCORE EACH RISK FOR THIS SITE, THEN ADD WHAT IS MISSING

The hazards and controls below are the starting point for this activity, written by a working main contractor. They are not complete for your site until a competent person has scored each risk, added the site-specific hazards, and struck out anything that does not apply. Rate risks High / Medium / Low before and after controls.

1. Rig overturning through an inadequate or degraded working platform

At risk: Rig crew, everyone on site

Controls: No rig tracks onto a platform without a current working platform certificate naming the rig and its ground bearing pressure. The platform is temporary works under BS 5975-1:2024: designed, constructed to the design, and re-inspected after heavy rain, after any excavation adjacent to it, and at the frequency the design states. Rutting, ponding or edge break-up stops work until the temporary works co-ordinator has re-certified it.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

2. Striking underground services or a live cable while boring or driving

At risk: Rig crew, the public

Controls: The HSG47 (3rd edition, 2014) sequence without exception: plans obtained and on site, CAT-and-genny survey by a trained operative, marking up, and trial holes to prove every service near a pile position. Positions within the agreed proximity of a known service are hand-dug or vacuum-excavated to depth before the rig is set up. No plans, or a survey that does not match the plans, stops the work.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

3. Falls into an open bore, pile cap excavation or shaft

At risk: Everyone on site

Controls: Every open bore is covered or barriered the moment the auger clears it — no bore is left open and unattended, ever, including at breaks. Covers are secured and marked. Pile cap excavations are battered, supported or barriered to the temporary works design, and inspected at the start of every shift under CDM 2015 reg 22(4) with the report made under reg 24.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

4. Being struck by the rig, the mast, or a swinging pile or auger

At risk: Rig crew, other trades

Controls: A marked exclusion zone around the rig covering the full slew and mast radius; nobody inside it but the rig crew, and entry only with the operator informed and the rig stationary. Loads and augers are tag-lined, never handled by hand while suspended. Reversing and tracking movements are banksman-controlled with agreed signals and eye contact maintained.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

5. Concrete supply, pumping and wet cement contact

At risk: Operatives, delivery drivers

Controls: Delivery route and standing agreed and banksman-controlled; nobody between a reversing mixer and a fixed object. Pump lines coupled with safety pins and whip checks, pressure released before any coupling is broken, and nobody in line with a blockage. Wet cement is corrosive and a potent sensitiser: gauntlets, eye protection, and washing facilities at the workplace.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

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6. Arisings, slurry and contaminated spoil

At risk: Operatives, the public, the environment

Controls: Arisings stockpiled clear of the platform edge and of every excavation, at a distance the temporary works design allows. Bentonite and polymer slurry contained, never discharged to drain, and disposed of under the site waste procedure. Where the ground investigation identifies contamination, the specific controls in that report apply and are briefed before the shift.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

7. Respirable silica and general dust from cutting and drilling

At risk: Operatives, others in the area

Controls: On-tool extraction (M-class) or wet suppression; RPE to the COSHH assessment (FFP3, face-fit tested) where extraction cannot adequately control exposure; sheet and segregate the work area in occupied buildings.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

8. Slips, trips and housekeeping

At risk: Everyone in the work area

Controls: Keep the workface clear, remove waste and offcuts as they are created, route leads at high level or under mats, and maintain task lighting.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

Site-specific hazards not listed above — every site has at least one:

HAZARD	WHO IS AT RISK	CONTROLS	INITIAL H/...	RESIDUAL...	ACTION OWNER	BY WHEN

4 METHOD — SEQUENCE OF WORK

- Confirm the platform certificate and the rig thorough examination are current before tracking on.
- Prove services at every position per HSG47 (3rd edition, 2014); hand-dig or vacuum-excavate where positions are close to a known service.
- Establish and mark the exclusion zone covering full mast and slew radius.
- Bore to depth, monitoring torque and arisings against the expected ground profile; report any variance before continuing.
- Place reinforcement cages under lifting control; cover or barrier every bore the moment the auger clears it.
- Concrete through the auger or tremie without interruption; record volumes against theoretical and investigate over- or under-supply.
- Clear arisings continuously and keep the platform to the certified condition.

SITE-SPECIFIC AMENDMENTS TO THE SEQUENCE

5 PLANT, EQUIPMENT AND MATERIALS

- CFA or rotary rig with current thorough examination
- Bore covers, secured and marked
- Concrete pump and lines
- Cage lifting gear with current certificates

INSPECTION / THOROUGH EXAMINATION REFS

COSHH ASSESSMENT REFS

6 PPE — THE LAST LINE OF CONTROL, NOT THE FIRST

- Head protection
- Gloves — task-rated
- Gauntlets and eye protection for concrete
- Safety footwear
- Eye protection
- Hearing protection
- High visibility
- Hearing protection

RPE TYPE, FACE-FIT STATUS, AND ANY OTHER PPE REQUIRED

7 PERMITS REQUIRED BEFORE THIS WORK STARTS

A permit authorises this work in that place, on that day. It extends the safe system of work in this document — it does not replace it (HSE HSG250). The site issues the permit; record its number before work starts.

KD-PTW-EX-005 — Excavation and Permit to Dig

PERMIT NUMBER

Before any ground is broken.

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KD-PTW-LO-008 — Lifting Operations Permit
For cage and casing lifts.

PERMIT NUMBER

8 EMERGENCY ARRANGEMENTS — COMPLETE FOR THIS SITE

FIRST AIDER AND LOCATION	NEAREST A&E	ASSEMBLY POINT
HOW THE ALARM IS RAISED	EMERGENCY ACCESS FOR THIS WORK AREA	SPILL / ENVIRONMENTAL RESPONSE

9 BRIEFING RECORD — EVERYONE WORKING UNDER THIS RAMS SIGNS BEFORE STARTING

By signing you confirm the contents of this RAMS have been explained to you, you understand the hazards and controls, and you will work to the sequence stated. Tell the supervisor if the work or the site does not match this document — work stops until it does.

NAME	COMPANY	SIGNATURE	DATE

10 PREPARED AND ACCEPTED

Prepared / adapted for this site by — I confirm I have adapted this document to the site, scored the risks, and that it describes how the work will actually be done.

PRINTED NAME	ROLE / COMPETENCE	COMPANY	SIGNATURE	DATE	TIME

Accepted for the site by — principal contractor or site manager review.

PRINTED NAME	ROLE	COMPANY	SIGNATURE	DATE	TIME

Review this RAMS if the work, the site or the law changes, and at least before each new phase of the works. Flatten the completed PDF before filing so the record cannot be silently edited.

R REVISION HISTORY

Every revision of this document, and every review that found nothing to change. The revision on the front of this sheet is the one you are holding — check kubitdocs.com for the current one before use.

Rev	Date	Class	What changed	Authorised by
D0	2026-08-11	first-issue	First issue.	— not yet approved —
A0	2026-08-27	review	Approved for issue by the author. Content unchanged from D0; the draft status strip is removed. No independent third-party review has been carried out.	Author — director, UK principal contractor, SMSTS. Not an independent review.

Class: first-issue · material (the law, a control, a field or the scope changed — past buyers are notified) · editorial (wording or layout only) · review (checked, nothing changed) · withdrawal. Revision prefix D = draft, not approved and not for sale; A = approved for issue by the person named, on the date shown.