

Statutory basis: HSWA 1974 s.2(2)(a) and MHSWR 1999 regs 3 and 5 — this document is the recorded safe system of work for installing supports as the designer specifies. The principal contractor plans, manages and monitors the construction phase, and each contractor its own work, under CDM 2015 regs 13 and 15. Post-installed anchors are selected, installed and site-tested following BS 8539:2012; resin anchor products are assessed under COSHH 2002, and the asbestos register is checked before drilling existing buildings under CAR 2012. Pipe lifts, chain blocks, hoists and riser lifts are lifting equipment under LOLER 1998 and work equipment under PUWER 1998. Overhead fixing is work at height under the Work at Height Regulations 2005, and handling pipe and supports falls under the Manual Handling Operations Regulations 1992.

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

Installing the supports that carry large-bore and heavy pipework and risers: post-installed anchors into concrete and masonry, drop rods and support steel, riser clamps and anchor points, guides, expansion bellows and loops — and controlling the loads they take during installation, filling, pressure testing and first heat-up.

This document does not cover: the support design and load calculations (the designer's), general pipework installation (KD-RAMS-ME-001), the pressure test itself (KD-RAMS-ME-006), cutting or coring structure (KD-RAMS-CR-001), and vibration exposure from drilling (KD-RA-MP-003).

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. Anchor failure — pipework or support steel falling

At risk: Fitters, anyone below

Controls: Anchor type, size, embedment and spacing to the design and the anchor maker's data for that substrate — cracked concrete, hollowcore, blockwork and post-tensioned slabs each need a stated anchor. Holes cleaned; anchors set and torqued to the maker's method; resin anchors not loaded before the stated cure time. Anchors carrying overhead heavy services are proof tested on site as safety-critical fixings, to the designer's or maker's test load, and recorded.

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

2. Drilling into post-tensioned tendons, reinforcement, hollowcore webs, or asbestos in existing buildings

At risk: Fitters, the structure

Controls: Drilling zones confirmed with the structural engineer before fixing into post-tensioned or precast slabs; positions scanned and marked; the site's permit for drilling structure obtained. In existing buildings the asbestos register is checked for every fixing zone (CAR 2012). STOP and report if steel or suspect material is struck.

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

3. Skin and eye contact with resin anchor products

At risk: Fitters

Controls: COSHH assessment from each resin's safety data sheet; gloves and eye protection when injecting; cartridges and nozzles disposed of as the data sheet states.

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

4. Supports overloaded — water-filled weight, hung materials, partial runs

At risk: Fitters, anyone below

Controls: Supports sized by the designer for the filled weight; no materials, access equipment or other services hung from them; runs never left hanging on incomplete supports at shift end — temporary supports as the design allows.

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

5. Expansion bellows moving violently under test pressure

At risk: Fitters, anyone nearby

Controls: The designer confirms the main anchors are designed for the pressure thrust at the test pressure, not only the working pressure. Main anchors and guides either side of every bellows complete and inspected before filling; transit restraints removed only when and how the maker instructs. No pressure test until supports are signed off.

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

6. Stored energy in cold-pulled loops and pre-set bellows

At risk: Fitters

Controls: Cold pull and pre-set only as the design states, with the pipe restrained; no restraint released on a pre-stressed section until the anchor it acts on is complete.

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

7. Riser sections and heavy pipe lifted into position

At risk: Fitters, anyone below

Controls: Lifts planned; pipe lifts, chain blocks and hoists thoroughly examined and rated, from rated lifting points; riser clamps and anchor points installed before sections are landed on them; shaft openings below protected and excluded during lifts; nothing held overhead while fixings are made.

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

8. 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

9. Work at height from steps, podiums, towers or MEWPs

At risk: Operatives, and anyone below

Controls: Select access by the Work at Height hierarchy — podium or tower before steps; MEWPs by trained (IPAF) operators only. Inspect access equipment before use, establish an exclusion below overhead work, and secure tools and materials against dropping.

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

- Obtain the support drawings, anchor schedule, proof test requirements and expansion device details; confirm post-tensioned or precast zones and the anchor design for test-pressure thrust with the designer.
- Check the asbestos register in existing buildings; set out and scan each position, adjusting within the design's tolerance where reinforcement is found.
- Drill with extraction; clean holes and install anchors to the maker's method; record resin cure times.
- Proof test safety-critical anchors; record results. STOP if any anchor fails — report to the designer.
- Install drop rods, support steel, riser clamps and main anchor points before any pipe is landed.
- Plan and carry out riser and heavy pipe lifts with examined equipment; support fully before releasing the lifting aid.
- Install guides and expansion devices in the positions the design shows; leave transit restraints as the maker instructs.
- Carry out any cold pull or pre-set with the pipe restrained and the anchors complete.
- Inspect all supports, anchors, guides and bellows against the drawings; sign off before filling.
- Remove bellows restraints at the stage the maker states; hand over to the pressure test.

SITE-SPECIFIC AMENDMENTS TO THE SEQUENCE

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5 PLANT, EQUIPMENT AND MATERIALS

Cover meter or scanner	Pipe lifts, material hoist or chain blocks (examined)
Rotary hammer drill with extraction	Torque wrench and resin dispenser
Anchor proof tester	Podiums, towers or MEWP

INSPECTION / THOROUGH EXAMINATION REFS

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COSHH ASSESSMENT REFS

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

Head protection	High visibility	Eye protection
Safety footwear	Gloves — task-rated	Hearing protection

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

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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-SC-028 — Permit to Cut or Core Structure

Where the site requires a permit for drilling into structure, and always for post-tensioned slabs.

PERMIT NUMBER

PERMIT NUMBER

KD-PTW-LO-008 — Lifting Operations Permit

For riser section lifts and heavy pipe lifts.

KD-PTW-PT-025 — Pressure Test Permit

Not issued until supports, anchors and guides are signed off.

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	2026-09-11	first-issue	First issue.	— not yet approved —
A0	2026-09-11	review	Approved for issue by the author. Content unchanged from the reviewed draft; 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.