

STRUCTURAL CONCRETE REPAIR

Breaking out · reinforcement treatment · reinstatement

ACTIVITY RAMS — ADAPT TO SITE BEFORE USE

KD-RAMS-CR-002 Rev A0

Statutory basis: HSWA 1974 s.2(2)(a) and MHSWR 1999 regs 3 and 5; COSHH 2002 with EH40/2005 (4th edition, 2020) — concrete cutting is a high silica-exposure activity and dry cutting is not a method under this document; CAR 2012, because existing structures and their coatings are presumed to contain asbestos until the register says otherwise; PUWER 1998 and LOLER 1998 reg 8 for the saws and for rigging cut sections; Electricity at Work Regulations 1989 for services within the structure; Work at Height Regulations 2005; Manual Handling Operations Regulations 1992; CDM 2015 regs 13 and 15. Cutting an opening removes structure: the propping and the sequence are temporary works under BS 5975-1:2024, designed before the first cut and never decided at the workplace.

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

Repair of defective and corroded reinforced concrete: breaking out to sound material, cleaning and treating exposed reinforcement, and reinstatement with repair mortars or sprayed concrete.

This document does not cover: the repair design and the assessment of structural adequacy, cathodic protection systems, and any break-out that goes beyond the extent the design allows.

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. Removing structure without the propping the design requires

At risk: Everyone in and around the building

Controls: No structural cut starts until the temporary works design is on site, the propping is installed to it, and the temporary works co-ordinator has signed the permit to cut. The cutting sequence in the design is followed exactly — an opening is not enlarged, and a second opening is not started, without going back to the designer.

Props are not moved, slackened or removed to suit access at any point.

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

2. 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

3. Disturbing asbestos-containing materials in existing buildings

At risk: Operatives, building occupants

Controls: Check the asbestos register before any intrusive work (CAR 2012). No register, or unclear entries, means stop and refer. If suspect material is found: STOP, withdraw, secure the area and report it — the discovery procedure applies before any further work.

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

4. Hand-arm vibration from power tools

At risk: Operatives

Controls: Select low-vibration tools, keep cutting edges sharp, rotate operatives to keep exposure below the action value, and record trigger time where the assessment requires it.

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

5. Noise from cutting, fixing and plant

At risk: Operatives, others in the area

Controls: Select quieter methods and tools where practicable; hearing protection in designated zones and for noisy operations; agree noisy-works windows with the occupier in occupied buildings.

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

6. Skin contact with cements, plasters, adhesives and sealants

At risk: Operatives

Controls: COSHH assessments for every substance; gloves matched to the substance; barrier and after-work creams available; washing facilities close to the work; report skin problems early — dermatitis is a reportable trend, not a private nuisance.

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

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7. 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

8. Interface with occupants, other trades and the public

At risk: Occupants, other trades, the public

Controls: Segregate the work area — barriers, signage, sheeting; agree access routes and working hours with the occupier; never obstruct escape routes; deliveries and waste runs outside peak movement times where agreed.

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

9. Breaking out more than the design allows and weakening the element

At risk: Everyone in and around the structure

Controls: The break-out extent, depth and sequence come from the repair design and are marked on the element before work starts. Where sound material is not reached within the designed depth, work STOPS and goes back to the engineer — it is not chased further on the operative's judgement. Reinforcement is never cut without written instruction, and propping stays until the reinstatement has reached the specified strength.

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 HI...	RESIDUAL...	ACTION OWNER	BY WHEN

4 METHOD — SEQUENCE OF WORK

- 01 Confirm the repair design, the marked extents and the propping before starting.
- 02 Check the asbestos register for coatings and adjacent materials.
- 03 Break out to the designed extent with dust suppression or on-tool extraction; stop at the design depth and refer if unsound material continues.
- 04 Clean and treat exposed reinforcement to the specification; report any section loss beyond the design assumption.
- 05 Reinstate with the specified mortar or sprayed concrete, in the specified lifts.
- 06 Cure and protect as specified; propping is removed only on the engineer's written instruction.

SITE-SPECIFIC AMENDMENTS TO THE SEQUENCE

5 PLANT, EQUIPMENT AND MATERIALS

- Breakers with on-tool extraction or water suppression
- Needle guns and wire brushes

- Spray or hand-applied repair plant
- Access towers or MEWP

INSPECTION / THOROUGH EXAMINATION REFS

COSHH ASSESSMENT REFS

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

- Head protection
- Safety footwear
- High visibility
- Gloves — task-rated
- Eye protection
- Hearing protection
- FFP3 to the COSHH assessment
- Anti-vibration gloves
- Waterproof gauntlets for repair mortars

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-GP-003 — General Permit to Work

For structural break-out under the temporary works regime.

PERMIT NUMBER

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KD-PTW-WH-006 — Work at Height Permit
For soffit and high-level repairs.

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.