

CRANE SET-UP AND GROUND CHECK

FORM — SITE FILE

Before the first lift — outrigger loads from the crane data, mats sized, ground bearing confirmed, proximity hazards measured

KD-LIFT-CS-004 Rev A0

A crane is only as stable as the ground under its outriggers. LOLER 1998 reg 4 (strength and stability) and reg 6 (positioning and installation) put the duty; BS 7121-1:2016 and, for mobile cranes, BS 7121-3:2017 put the method: the outrigger or track loads come from the crane's own data for the configuration and the load, the mats spread them to a pressure the ground is proven to carry, and someone who knows what is under the ground says so before the first lift. This check is made once per set-up by the lifting supervisor with the operator, against the plan (KD-LIFT-CL-001); the permit (KD-PTW-LO-008) is not issued until it is signed. KD-INS-MC-023 is the tick-list check at every set-up; this sheet is the outrigger-load calculation behind it.

1 THE SET-UP

PROJECT / SITE REF	SITE	DATE	LIFT PLAN REF	CHECKED BY (LIFTING SUPERVISOR)
CRANE / FLEET NO.	CONFIGURATION SET	OPERATOR	SET-UP COMPLETE AT	

2 OUTRIGGER OR TRACK LOADS — FROM THE CRANE DATA, WRITTEN IN

OUTRIGGER	LOAD (KN)	MAT (M × M)	AREA (M²)	IMPOSED (KN/M²)	ALLOWED (KN/M²)	OK?

SOURCE OF THE OUTRIGGER LOADS	SOURCE OF THE ALLOWABLE BEARING PRESSURE	CONFIRMED BY

3 WHAT IS UNDER THE OUTRIGGERS — TICK WHEN CHECKED ON THE GROUND, NOT FROM THE DRAWING ALONE

- ☐ Underground services located by the HSG47 (3rd edition, 2014) method — plans, surface signs, locator scan — and the crane is clear of them, or they are bridged or protected as the engineer states
- ☐ Drains, manholes, culverts, chambers, cellars, tanks and voids: none under a mat, or the cover or slab is proven for the load
- ☐ Backfilled excavations, trenches and soft spots: none under a mat, or compacted and proven
- ☐ Edge of an excavation, a slope, a retaining wall or a river bank: the distance from the nearest mat written below and agreed by the engineer
- ☐ Suspended slab, basement roof or podium: the engineer's check for the outrigger loads is on file (ref below); props in place where designed
- ☐ Ground condition today: recent rain, standing water, frost or thaw considered; the mats are on the surface the plan describes

DISTANCE FROM NEAREST MAT TO AN EXCAVATION OR SLOPE (M)	SLAB / STRUCTURE CHECK REF	PERMIT TO DIG / SERVICES SCAN REF

4 THE CRANE AS SET — TICK WHEN CONFIRMED WITH THE OPERATOR

- ☐ Outriggers fully extended, or set to the intermediate position the plan states and the rated capacity indicator set to match
- ☐ Mats centred under every outrigger float, flat, not bridging a gap or sitting on a kerb
- ☐ Crane level within the manufacturer's tolerance on the crane's own indicator, wheels clear where the data requires it
- ☐ Counterweight, boom and jib configuration exactly as the plan; the chart page in the cab is the one for it
- ☐ Rated capacity indicator set to the configuration and function-tested; anemometer working and reading
- ☐ Slew path clear of the cab counterweight arc to structures, scaffolds, parked plant and the site fence; slew limiter set where the plan says
- ☐ Thorough examination report seen and within date; the crane's daily check done by the operator (KD-INS-PL-004)

5 PROXIMITY — MEASURED, NOT ESTIMATED

NEAREST OVERHEAD LINE: VOLTAGE AND DISTANCE (M)	GS6 CONTROLS IN PLACE	NEAREST STRUCTURE OR OTHER CRANE (M)
PUBLIC HIGHWAY / FOOTPATH / NEIGHBOUR	SITE TRAFFIC NEAR THE CRANE	EXCLUSION ZONE SET OUT AS KD-LIFT-EZ-006

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continued

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6 DECISION

- ☐ SET-UP MATCHES THE PLAN — the first lift may proceed once the permit is issued
- ☐ SET-UP DIFFERS FROM THE PLAN — described below; the appointed person has been told and the plan is amended before any lift

DIFFERENCES AND WHAT WAS DONE

7 SIGNATURES

Lifting supervisor:

PRINTED NAME	ROLE	COMPANY	SIGNATURE	DATE	TIME

Crane operator:

PRINTED NAME	ROLE	COMPANY	SIGNATURE	DATE	TIME

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	2026-09-02	first-issue	First issue.	— not yet approved —
A0	2026-09-02	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.