

COMPANY
LOGO

LIFTING PLAN — COMPLEX LP-01

Granite cornice lift — East turret

50 t mobile crane · carved cornice to parapet level

REFERENCE LP-01	LIFT CATEGORY Complex	LOAD WEIGHT 2400 kg	CAPACITY AT RADIUS 3.2 t
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1. LIFTING EQUIPMENT

DESCRIPTION 50 t all-terrain mobile crane	MAKE / MODEL Liebherr LTM 1050-3.1	
SWL 50t	CERT EXPIRY 02/10/2026	CERTIFICATE REF (THOROUGH EXAMINATION) LOLER-LTM1050-0931

2. LOAD DETAILS

LOAD DESCRIPTION Pre-cut granite cornice section, carved face	WEIGHT 2400 kg	DIMENSIONS 2400 × 600 × 400 mm
CENTRE OF GRAVITY NOTES Offset ≈ 150 mm toward carved face — rig to balance level	LIFTING ATTACHMENT POINTS 4 × cast-in lifting eyes M24 · proof-tested 2× WLL	

3. LIFT GEOMETRY

WORKING RADIUS 14 m	CAPACITY AT RADIUS 3.2 t	HEADROOM 18 m clear to parapet
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4. LIFTING ACCESSORIES

ACCESSORY	SWL	WEIGHT	CERT / ID	INSPECTION DUE
4-leg chain sling, 10 mm grade 100	8.4t	65 kg	CS-4L-0688	31/08/2026
Bow shackle, screw pin × 4	4.75t	32 kg	SH-BOW-0512	31/08/2026
Tag lines, 10 m polypropylene × 2	—	3 kg	TL-10 / TL-11	Visual, pre-use
Total below-the-hook tackle		100 kg		

5. GROSS LOAD SUMMARY

Net Load 2,400kg	Below-Hook Tackle + 100kg	Gross Load = 2,500kg	Capacity at 14 m Radius 3,200kg
Load itself	Sling, shackles, tag lines	Total suspended weight	78% utilisation · within capacity ✓

6. SLING ANGLE CHECK

WORKING ANGLE 45° from vertical 90° included angle	ANGLE FACTOR 0.71 tension multiplier ×1.41	TENSION / LEG 1.77 t 2 legs sharing · rigid load	SINGLE-LEG WLL 4.0 t 1.77 of 4.0 t · 44% · within WLL ✓
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Tension / leg = (gross load ÷ legs sharing) ÷ cos θ = (2,500 ÷ 2) ÷ cos 45° = 1,768 kg. Conservative: a rigid load is assumed to share across 2 of 4 legs only — slight imbalance puts 2 legs carrying essentially everything (BS 7121-1 / LEEA). Compare against the **single-leg WLL stamped on the chain tag** (not the assembly rating — assembly ratings already bake in a mode factor). Angle factors from vertical — 0°=1.00 · 30°=0.87 · 45°=0.71 · 60°=0.50. BS EN 13414 limit: 60° from vertical (120° included).

7. GROUND CONDITIONS & OUTRIGGERS

GROUND BEARING / CONDITIONS Compacted hardcore, 150 kN/m² verified · level apron	OUTRIGGER PAD SIZES 800 × 800 × 60 mm steel-faced timber pads, all 4 legs
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8. PERSONNEL & SITE CONTROLS

OPERATOR / DRIVER —	OPERATOR CARD / QUALIFICATION CPCS A60 · Mobile Crane
SLINGER / SIGNALLER —	SLINGER CARD / QUALIFICATION CPCS A40 · Slinger / Signaller
BANKSMAN —	APPOINTED PERSON (LIFT SUPERVISOR) —
EXCLUSION ZONE 12 m radius, Heras fencing + marshals	COMMUNICATIONS 2-way radio (Ch. 3) + hand signals

EMERGENCY PROCEDURE

On loss of control, signal STOP via radio and hand signal; operator to hold the load and slew clear of personnel only on the banksman's instruction. If the crane shows instability (outrigger settlement / overload alarm), land the load on the nearest prepared bearing and cease the lift. Notify the Site Manager. First-aider on site: _____. Nearest A&E: Jersey General, St Helier. Crane recovery contact: _____ plant desk, ext. 14.

NOTES / ADDITIONAL INFORMATION

Lift window 09:00–11:00 to avoid public footfall. Maximum wind 7 m/s at hook height — abort above. Confirm anemometer reading before lifting. Trial lift to 300 mm to verify balance and CoG before full hoist. Banksman to maintain line of sight to both operator and landing crew throughout.

APPOINTED PERSON _____ — 27/06/2026	OPERATOR _____ — Pre-lift briefing	SLINGER / SIGNALLER _____ — Pre-lift briefing	BANKSMAN _____ — Pre-lift briefing
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N.B. This is a plan for a complex lift under LOLER 1998 Reg. 8, planned and supervised by the Appointed Person. Read alongside the relevant Risk Assessment, Safe Working Practice and the crane's load/radius chart. Stop and re-assess if the load, ground, weather or crane configuration changes.