



British Museum – Galleries 36 to 40

Method Statement for the Crane Operation

The following method statement is proposed for the operation of the tower crane during the Gallery 36–40 refurbishment project.

CRANE DETAILS:

Hire Company:

Skyline Tower Crane Services Ltd,
Unit 15 Thurrock Enterprise Centre,
Maidstone Road,
Grays,
Essex,
RM17 6NF.

Crane Type: Raimondi MR75 Tower Crane

Height: 36.7Mtrs

Jib Length: 42Mtrs

Safe Working Load: 1500kgs @ 42Mtrs

Power: 60KVA

ANTICIPATED LIFT:

Lift required: 1000kgs

Nature of lift: Various loads of even and uneven weight to roof level.

Additional lifting measures: Loads in excess of 2mts long will be restricted from spinning by the use of guide ropes secured to one end. Loads in excess of 2mts long will be restricted to the lifting zone directly in front of the hoist only.

Distance of lift location: 40Mtrs

Height of lift from ground: 27Mtrs

Lifting Accessories: a) 500L lifting tub. SWL 1000kgs

b) 6mtr two leg chains c/w master ring, shortening hooks and self locking hooks. SWL 4250kgs

c) 6mtr polyester flat webbing slings. W.L.L 3000kgs

d) 20Mtr nylon guide ropes (loads in excess of 2mts long)

SAFE ACCESS ROUTES:

Sketch attached: Ground Level Safe Access Routes SK01.

Safe access routes will be identified to ensure pedestrians are remote from the lifting zones and vehicle access routes. Barriers will be positioned outside the hoist and Haki stair exits to restrict pedestrian access into the lifting zone.

CRANE OPERATION:

Trained crane operators and banksman direct employed by Coniston Ltd:

Mr David Gray – Driver & banksman

Mr Stacy Jordan – Driver & banksman

Mr Kevin Gathern – Driver & banksman

Mr Tom Grimley – Driver & banksman

Staffing: The crane will be operated by one of the above operatives. A second named operative will be in attendance.

Communication: Two way radios.

Control: The crane will be remote controlled. The driver will have visual contact with the load at all times. This will necessitate the driver's priority use of the Hoist and Haki stairs whilst the crane is in operation.

Working Hours: Daylight hours only.

Weather Restrictions: Operator recommendation 22mph maximum wind speed. The crane operation will cease in the event of heavy snow and ice conditions.

Materials movement:

Sketch attached: Lifting Plan SK01.

The materials will be restricted from passing over certain areas ie; areas accessed by the public (shown as red).

The lifting of materials beyond the site hoarding will only occur during permitted delivery periods outside of Museum opening times. Temporary barriers will restrict staff access at this time (shown as white squares on red background).

The accent, decent, inward and outward movement of materials will be restricted to the zones coloured blue.

The rotation of the jib will only occur when the materials are positioned close to the mast (shown as green)

The proposed sequence of operation will be:

A..Accend – The material is lifted vertically to its maximum height.

I..Inward – The material is drawn inward along the jib to finish tight into the mast.

R..Rotate – The material is rotated to its desired position.

O..Outward – The material is extended along the jib to stop above the loading site.

D..Decend – The material is lowered onto the loading site.

LIFTING PLAN:

A job specific Lifting Plan will be completed prior to lifting. Coniston's independent Safety Advisor will review these documents.



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