

**AARSLEFF**

## LIFT PLAN

Project Title & number: New Mills

Client: Forrest

Issue Date: 26/10/2017

Site Address: Marsh

Lane New Mills

### TYPE OF LIFT – SIMPLE LIFT

**OFF-LOADING and PITCHING OF PILE SECTIONS (each measuring up to 14m in length and weighing up to 3.1 tonnes) FUEL BOWSER, HYDRAULIC HOSE CONTAINER AND MINOR ANCILLARY EQUIPMENT FROM FLATBED DELIVERY WAGONS ON SITE WITH A FIXED LEADER PILING RIG.**

### NOTE

The off-loading and pitching of pile sections and unloading of ancillary equipment from delivery wagons using the piling rig, is a routine part of Aarsleff work activities and involves 'simple' lifts. The work is planned in accordance with Federation of Piling Specialists Code of Industry Best Practice 'Lifting Operations on Piling Sites'.

**Lifting accessories to be connected to proprietary lifting points on equipment, cast-in lifting eyes within pre-cast concrete piles and pre-slung steel tube piles only**

1.	Lifting:	Precast Concrete Piles & Ancillary Equipment
2.	Date and Duration of Operation.	
3.	Details of where fixed leader piling rig will be sited or operating	Multiple lifts will be carried out daily and at multiple locations across the prepared piling platform. The Client / Principle Contractor is to carry out temporary works checks and certify by way of signed Working Platform Certificate that the platforms can support the rig bearing pressures as detailed on the WPC.
4.	Name Address & Tel. No. of Owner.	Per Aarsleff (UK) Ltd. Hawton Lane, Balderton, Newark Nottinghamshire NG24 3BU Tel: 01636 611140 Fax: 01636 611142 Email: <a href="mailto:piling@arsleff.co.uk">piling@arsleff.co.uk</a>
5.	Type of piling rig, detail make & model.	Banut 700

7.	Date of last examination of lifting gear (within 6 months)	19/09/2017
8.	Maximum Equipment Load. (Applicable to Type of Lift above).	Fuel bowser weighs 1.5T Hydraulic hose container weighs 0.5T Drive helmets weigh up to 1T
9.	Maximum Pile Load.	Pile Load – Total Load up to 3.1T
10.	Safe Working Loads. (Current 6 monthly thorough examination certificates, Daily & Weekly Plant Inspection Reports to have been completed - with rig operator)	SWL of 4 Leg Chain Sling – 6.7T SWL of Single Chain Sling – 5.3T SWL of Pile Line Safety Hook - 8T All lifting to be carried out within the documented plant lifting radius capabilities – with operator
11.	Authorised Person	Piling Foreman: Assessed as competent by Aarsleff and holder of CPCS Piling Rig Operator card and CPCS Slinger Signaller card.

12.	Competent Person	Piling Rig Attendant: Assessed as competent by Aarsleff and holder of CSCS Piling Operative Card or CPCS Slinger / Signaller card or CPCS Piling Rig Attendant card.			
		YES	NO	N/A	Details
13.	Is the set down area clear and accessible?	X			Set down area for piles to be provided by client within 10m of their area intended for use.
14.	Details of Ground Conditions - Have checks been carried out for services, ducts, drains, excavations, load bearing capacity, etc?	X			Client / Principal Contractor to ensure working area is clear of services and that platform is constructed to cater for the rig bearing pressures in accordance with Aarsleff Permit to Pile and Working Platform Certificate.
15.	Is the sling/load connection the same for each lifting operation (piles and equipment) from flatbed delivery wagons?	X			4-leg chain hooks connected directly into lifting eyes of pile section (cast-in) or proprietary lifting points on bowser & hose container.
16.	Are there any Site Access Problems i.e. Overhead cables, railway lines, other structures, width restrictions?	X			Suitable and clear access is to be provided by the client for flatbed delivery wagons.
17.	Is the load path / route of travel clear of obstructions?	X			The client is to maintain a clear and unobstructed haul route for flatbed delivery wagons.
18.	Are Warning Notices, Fencing, Cones etc. required?	X			Client / Principal Contractor is to provide Aarsleff with a clear 20m exclusion zone at all times during lifting operations.
19.	Are suitable areas available for unloading of lorries?	X			Client / Principal Contractor is to provide suitable unloading areas within 10m of the area in which piles are intended for use.
20.	Will Notification to Police and Highways Dept. Be necessary for temporary road closure etc.?		X		
21.	Will Temporary Lighting be necessary?		X		
22.	Has a Risk Assessment been carried out?	X			
23.	Is a Method Statement required?	X			
24.	Name and Signature of CPCS Appointed Person (Lifting Operations) completing this plan.	Name: N .Humberstone  Sign: _____ Date: _____			

### **Other matters for consideration.**

This lift plan is intended for use on site only. Where lifting equipment/plant or items intended for lifting vary from those detailed within this lift plan, these details must be included within a separate lift plan if applicable.

[illegible]

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## PILE WEIGHT CHART



**CENTRUM**

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<b>Length</b>	<b>200mm</b>	<b>250mm</b>	<b>300mm</b>	<b>350mm</b>
<b>3m</b>	0.3T	0.5T	0.7T	0.9T
<b>4m</b>	0.4T	0.7T	0.9T	1.2T
<b>5m</b>	0.5T	0.8T	1.1T	1.5T
<b>6m</b>	0.6T	0.9T	1.3T	1.8T
<b>7m</b>	0.7T	1.1T	1.5T	2.1T
<b>8m</b>	0.8T	1.2T	1.8T	2.3T
<b>9m</b>	0.9T	1.4T	2.0T	2.6T
<b>10m</b>	1.0T	1.5T	2.2T	2.9T
<b>11m</b>	1.1T	1.7T	2.4T	3.2T
<b>12m</b>	1.2T	1.8T	2.6T	3.5T
<b>13m</b>		2.0T	2.8T	3.8T
<b>14m</b>		2.1T	3.1T	4.1T
<b>15m</b>		2.4T	3.3T	4.4T
<b>16m</b>		2.7T	3.6T	4.7T
<b>17m</b>				5.0T
<b>18m</b>				5.3T

## STEEL TUBE WEIGHTS

Outside Diameter	Wall Thickness	Length	Total Weight	Weight per metre
168 mm	12 mm	13 m	0.63 T	48 kg
178 mm	12 mm	13 m	0.68 T	52 kg
194 mm	12.5 mm	13 m	0.75 T	58 kg
219 mm	13 mm	13 m	0.86 T	66 kg
244.5 mm	13 mm	13 m	1.04 T	80 kg
273 mm	14 mm	13 m	1.19 T	91 kg
339 mm	14 mm	13 m	1.43 T	110 kg

**Note: 1000 kg = 1 T**