

# Piling Rig

Bored above 15 tonnes

**A48**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Piling rig configured for boring operations</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Facilities for rig travel and parking</li> <li>• Flat area for bored works to take place</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Boring equipment to meet the specification</li> <li>• Equipment to create piles</li> <li>• Equipment to remove spoil at the boring location</li> <li>• Crane for lifting operations (if required)</li> <li>• Suitable personnel to assist with the operations</li> <li>• Applicable lifting accessories for all loads (if required)</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Pile specification	<ul style="list-style-type: none"> <li>• Diameter of 300 mm (or as per working specification)</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• Depth of all piles to be 6 metres (or as specified for working operations)</li> <li>• The operator's manual must be with the rig</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of all loads must be known</li> <li>• Specification detailing location, type and depth of completed piles</li> </ul>

## ACTIVITY

### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activity 8 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1 Complete all manufacturers' pre-start and running checks and prepare the rig for travel
Travelling & manoeuvring (refer to specifications)	2 Travel to the work area 3 Manoeuvre through a restriction
Setting up for work	4 Configure, prepare and set the rig for bored works
Working tasks (refer to specifications)	5 Form bored piles to specification 6 Ensure the bore is plumb throughout the boring activity 7 On completion of all piling activities, configure the rig for travel
Shutting down	8 Park the rig and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>The test may be carried out during actual work and discrepancies allowed for compared to the stated activities and pile types</li> <li>A minimum of 4 piles must be formed to completion</li> <li>If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

### Activity measurements

Manoeuvring restriction	<ul style="list-style-type: none"> <li>Maximum of the width of the rig plus 800 mm</li> </ul>
Bore placing	<ul style="list-style-type: none"> <li>Within 100 mm of the given position</li> </ul>
Bore measurement	<ul style="list-style-type: none"> <li>Maximum of 10 degrees from vertical</li> </ul>
Bore depth	<ul style="list-style-type: none"> <li>6 metres and within 100 mm of the given depth</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 2 hours and 15 minutes</li> </ul>

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<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Set the rig correctly for travel		
	3 Restrictions cleared		
	4 Faced the direction of travel		
Setting up	5 Encountered hazards cleared		
	6 Area checked and safe prior to setting up for bored works		
	7 Rig positioned accurately prior to bored works		
	8 Ensured rig was level prior bored works		
Working	9 RCI programmed for all duties (if fitted)		
	10 Communication arrangements confirmed with the signaller		
	11 Aligned the flight for the required bore angle		
	12 Created each bore to the specification		
	13 Soil spun of flight in the agreed area (if applicable)		
	14 Formed pile to the specification		
	15 Did not exceed rig's capacity		
	16 Rig stability maintained		
Shutdown	17 Instructions conformed with		
	18 Rig reconfigured from piling to travelling duties		
Other	19 Parked in appropriate place		
	20 All shut down and securing procedures		
Other	21 Legislation, manufacturers' and health and safety requirements complied with		
	22 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Rig mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Full observation before slewing the upper structure		2	
	5	Drive sprockets kept to the rear when travelling		1	
	6	Matching travel speed to ground types		1	
	7	Auger motor and flight setting for travel		2	
Working	8	Minimal manoeuvring maintained during work		2	
	9	Using planned cycles of operation		2	
	10	Sequence of using boring (piling) controls		1	
	11	Smooth use of steering controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved

