

	WORK INSTRUCTION DOCUMENT	Page 1 of 3
	GENERAL	REV 2
	RIG EXCLUSION ZONES	Issued: 08.08.18 GEN-WID 1047

1.0 **Purpose and Scope**

- 1.1 This Work Instruction Document defines the Exclusion Zone distances to be applied to non authorised personnel when piling operations are in progress.
- 1.2 In relation to working without guards the 2 metre exclusion zone applies to all personnel when the auger is operating, including those whom are authorised to be in the working area

2.0 **References**

- 2.1 UMP-MS-1301 Method Statement for Various Piling Operations
- 2.2 UMP-SMS-1308 Authorisation & Operation of MP Auger Rigs without Guards
- 2.3 GEN-RA-1007 Risk Assessment for Driven Piling
- 2.4 GEN-RA 1008 Risk Assessment for Bored Piling
- 2.5 GEN-RA 1009 Underpinning and Mini Piling Risk Assessment

3.0 **Terms and Definitions**

- 3.1 Nil.

4.0 **Procedure**

4.1 **Pre Contract Information, Co-operation & Co-ordination**

- 4.1.1 At the planning stage and during pre-contract meetings the RBL Contracts Manager/Engineer must discuss and agree with the Principal Contractor/Client the arrangements for the establishment of exclusion zones.

4.2 **Establishing Exclusion Zone**

- 4.2.1 Physical demarcation of the exclusion zones must be established to ensure that it is apparent to all other site workers where dangers exist and to assist piling crews in preventing any unauthorised person from entering the zones.

4.3 **Physical Demarcation & Communication**

- 4.3.1 Site traffic and pedestrian routes will have been determined by the Principal Contractor/Site Agent and physical demarcation of defined exclusion zones may rely on existing features of the site and may for example only require a barrier across a traffic or pedestrian route.

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- 4.3.2 On other sites it may be necessary to entirely surround the piling operations with light weight highly visible plastic barriers and warning signs (Fig 4.3.2). The exact arrangements must be agreed with the each Principal Contractor/Site Agent on a site specific basis and communicated to site personnel during inductions and site briefings, it must be emphasised that only the RBL piling team are allowed within the exclusion zone whilst the rig is operating.



Figure 4.3.2

4.4 **Exclusion Zones**

- 4.4.1 Table 4.4.1 below shows the Exclusion Zones that must be applied to all non authorised personnel when RBL piling operations are in progress.

TYPE of RIG	Work Exclusion Zone
3004 –7, TR1, Klemm 1&7, Comacchio MC5, MC6	6m
5014 – 21, 5501 - 5507, 4002 – 9 & Klemm 4, Comacchio MC10, Sonic SD3, Lebotec, Huttie 206 & 205	9m
6001 & 9002, Sonic SD2	11m
5004 & 12001	11m
7001 – 7	11m

Table 4.4.1

- 4.4.2 Should any unauthorised person enter the exclusion zone then all piling operations must stop immediately and escort the person back to a position outside the zone, persistent breaches should be reported to the Principal Contractor/Site Agent and recorded on the site daily work inspection record sheet.

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4.4.3 If the full extent of the specified work exclusion zone cannot be achieved, the reduced zone must have a documented site specific risk assessment reviewed by SHEQ.

4.4.4 In situations where pile positions are close to the site perimeter, the risk to those outside the site boundary should be considered. A site specific risk assessment in conjunction with the Client/ Principal Contractor must be carried out to protect non-workers.

4.5 **Exclusion Zones (Unguarded Rigs)-**

4.5.1 **THIS OPERATIONAL PROCESS SHOULD ONLY BE FOLLOWED ONCE THE AUTHORISATION PROCESS HAS BEEN COMPLETED**

4.5.2 A controlled zone **must** be nominated at each pile position and can be defined as a zone at least 2 metres from the centre of the auger.

4.5.3 The control zone **must** be demarcated by means of a physical barrier, with appropriate signage.

4.5.4 A non-working Supervisor with full visibility of the controlled zone will be in attendance at all times during piling activities and will be given authority and responsibility to ensure only authorised persons are permitted within the zone.

4.5.5 **No** person is permitted to be within the zone whilst the auger is rotating.

4.5.6 If manual intervention is required, the auger **must** be stopped.

4.5.7 An excavator can be used within the zone for the purposes of clearing spoil, but only under supervision of the banksman

4.6 **Pile Testing**

4.6.1 When pile testing is being carried out rig drivers are to be aware of the piles that are being tested and ensure that the pile tester is in view at all times and at a minimum distance of 9 Metres from any point of the rig.

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