















Risk assessment for : Coulsdon Home Hardware Ltd

Risk assessment name	Demolition	Assessment type	 General
Assessor name	Simon Harris	Affected site(s)	Signature Homes Ltd (CR5 2RA)
Assessment date	17/02/2020	Review period	Annually
Approved by		Review date	16/02/2021
Approved date		Reference	Demolition - 001










Workspace(s)	Description
 Outside Area	This Risk Assessment is to cover aspects of demolition.

Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 Asbestos Dust	All staff, Contractors, Members of the public, Operators, visitors How? Risk of lung cancer, asbestosis	 Asbestos awareness training All operatives are provided with asbestos awareness training to recognise Asbestos Containing Materials (ACMs)	 Asbestos Management In Place Information about the possibility of asbestos on site is provided in prior to demolition work commencing.
		 Asbestos survey by competent person A full asbestos survey shall be undertaken before the start of the project	2 x 3  6 Medium










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		<p> Asbestos Waste Regulation concerning asbestos waste disposal, transportation and labelling is applied. All removal of ACM will be removed by experienced and trained personnel. Double plastic sacks, suitably leveled are available for small waste, then tied and sealed. Large pieces are not to be cut but wrapped in plastic sheeting or placed in a totally sealed container or skip.</p> <p> Asbestos work is planned All asbestos or fragile roofs are correctly signed to warn employees of the fragile roof and the presence of asbestos All operatives are provided with asbestos awareness training to recognise Asbestos Containing Materials (ACMs) Correct access equipment and fall arrest equipment or safety nets will be provided for all employees working on fragile roofs</p> <p> Decontamination Ensure operatives are correctly decontaminating using the facilities provided.</p> <p> Exclusion zone created around work area Erect Safety Signage, segregate work areas and install transit routes</p> <p> Health surveillance programme Occupational health monitoring (for asbestos exposure) to be completed</p> <p> Non notifiable asbestos work All non-notifiable asbestos works shall be undertaken in accordance with safe systems of work submitted</p> <p> PPE and RPE provided and worn Correct PPE and RPE is to be used at all times</p>	











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		<p> Suspected asbestos reported Staff have been informed and instructed with regards to action to be taken if asbestos is suspected. Staff are informed to stop work where asbestos may be present and report immediately to Head Office/Supervisor</p> <p> Wetting Materials are to be dampened down with water</p>	
 Demolition Work	<p>All staff, Contractors, Members of the public, Operators, visitors</p> <p>How? Impact, crush injuries & fatality</p>	<p> Exclusion zone Exclusion zones are to be established with barrier tape when breaking or removing glass.</p> <p> PPE provided and worn Operatives clearing glass are to wear boots with mid sole protection, rigger type gloves and safety spectacles</p> <p> Waste segregation All debris to be segregated and stockpiled by plant ready for disposal</p> <p> Exclusion zone created around work area Site personnel protected from falling glass, by the use of exclusion zones and machine demolition</p> <p> Training and competence All operative shall be trained, qualified and competent e.g. holds CPCS, CSCS, Safety passport</p>	<p>2 x 4</p>  8 Medium










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 <p>Dust</p>	<p>All staff, Contractors, Members of the public, Operators, visitors</p> <p>How? Breathing difficulties, occupational asthma, silicosis</p>	<p> Avoid Creating dust Dust suppression to be in place and utilised efficiently. Damping down site processes</p> <p> Health surveillance Occupational health monitoring carried out</p> <p> Sheeting of lorries Sheeting of disposal lorries leaving site to prevent dust escape</p> <p> Wet cutting Wet cutting is used where applicable to reduce dust levels</p> <p> Dust monitoring Environmental dust monitoring to be carried out</p> <p> Provision and use of respiratory protective equipment RPE to be worn when working in areas with increased levels of airborne dust</p> <p> Waste transfer Do not transfer loose waste material to lorries during very windy conditions to reduce dust escape</p>	<p>2 x 3</p>  <p>Medium</p>















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 <p>Falling Objects</p>	<p>All staff, Contractors, Members of the public, visitors</p> <p>How? Injury, fatality & damage to property</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p>Debris Guards Netting Fitted All loose debris to be removed from height</p> </div> <div style="width: 50%;">  <p>Exclusion zone set up Exclusion zones must be established with barriers around a hazardous drop area on the ground.</p> </div> <div style="width: 50%;">  <p>Falling object protection Falling object protection must be fitted on demolition excavator plant</p> </div> <div style="width: 50%;">  <p>Hard hats are worn All persons in area to be wearing safety helmets. Appropriate hard hat signs and a barrier safe zone shall be put in place</p> </div> <div style="width: 50%;">  <p>No unauthorised access Prevent unauthorised access to work area</p> </div> <div style="width: 50%;">  <p>Training and competence Trained, competent and experienced supervisor and operatives to undertake works</p> </div> <div style="width: 50%;">  <p>Use of Excavator All high level demolition and soft strip will be performed by an excavator</p> </div> <div style="width: 50%;">  <p>Use of watchmen A watchmen shall be present outside of the hording when demolition works are being undertaken to direct pedestrians and provide safe passage.</p> </div> </div>	<p>2 x 3</p>  <p>6</p> <p>Medium</p>










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Hazard	Who could be harmed and how?	Existing controls		Risk rating (L x S)
 <p>Fire</p>	<p>All staff, Contractors, Members of the public, Operators, visitors</p> <p>How? Burn injuries, fatality</p>	<p> All persons aware of fire procedures</p> <p> Fire exits unobstructed Fire exit routes on demolition site are identified and checks carried out to ensure they are clear at all times</p> <p> Good Housekeeping Observed Maintain good housekeeping, all combustible items should be stored properly and waste moved to skips</p> <p> Training Ensure any operative using blowtorches or Oxy-fuel equipment has been properly trained</p>	<p> Fire Arrangement Robust Fire Arrangements in Place. A fire action plan, fire marshals and adequate firefighting equipment shall be available</p> <p> Fire Fighting Equipment tested and maintained Fire hoses are tested annually by competent persons Extinguishers are maintained annually as per regulations</p> <p> No smoking policy enforced + signage No smoking on site – only in designated smoking area and no bonfires allowed on site</p>	<p>1 x 3</p> <p> 3</p> <p>Low</p>











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Hazard	Who could be harmed and how?	Existing controls		Risk rating (L x S)
 <p>Hydraulic attachments</p>	<p>All staff, Operators</p> <p>How? Being struck by moving parts, trapped fingers, crush injuries and skin contact with hydraulic oil</p>	<p> Health surveillance Occupational health monitoring (Dermatitis/Skin Exposure) to be completed if contact to skin with hydraulic oil/other contaminants is made</p> <p> PPE worn Impervious (latex) gloves to be worn when changing hydraulic hoses in addition to PPE (hard hat, gloves, steel toe cap boots) requirements</p> <p> Training Only trained and competent operatives to change attachments</p>	<p> Keep away form moving parts fingers/hands to be kept clear of moving parts</p> <p> Routine Maintenance Undertaken Plant to be kept well maintained (greased and serviced on a regular basis)</p> <p> Use of correct tools/equipment The right tools and equipment is to be used to change attachments</p>	<p>1 x 2</p> <p></p> <p>2</p> <p>Low</p>
 <p>Live services</p>	<p>All staff, Contractors, Members of the public, Operators, visitors</p> <p>How? Fire, burn injuries, explosion, fatality</p>	<p> All services treated as live All services are to be treated as live unless identified from plans, Isolation certificates / isolation reports</p> <p> Locate live services Locate and identify all services prior to demolition commencing</p>	<p> Isolation Gas and electricity supplies to site must be isolated before work commences</p> <p> Permit to work issued A permit to work issued along with all isolation certificates prior to work.</p>	<p>2 x 3</p> <p></p> <p>6</p> <p>Medium</p>










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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Manual handling</p>	<p>All staff, Contractors, Operators</p> <p>How? Musculoskeletal injuries</p>	<p> Avoid manual handling operations on uneven ground Where this cannot be avoided, a task specific manual handling risk assessment will be conducted to establish the necessary controls.</p> <p> Gloves should be worn</p> <p> Mechanical aids provided hoists, sack trucks etc.</p> <p> Team lifts Team lifts to be employed where necessary</p> <p> Correct Lifting Equipment Provided Utilise mechanical lifting and carrying aids where possible</p> <p> Manual handling training All staff are trained in Manual Handling and instructed to comply with good manual handling techniques.</p> <p> PPE provided Operatives to wear PPE (Gloves, eye protection, overalls and safety footwear) against substance or material being carried as required by the COSHH assessment</p>	<p>2 x 3</p>  <p>6</p> <p>Medium</p>









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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Moving plants and vehicles to/from and on site</p>	<p>All staff, Contractors, Members of the public, visitors</p> <p>How? Persons being struck and injured, fatality and property damage</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p>Banksman used All vehicle movement to and from the site shall be controlled by specifically appointed banksman. Competent banksman are used when vehicles are reversing</p> </div> <div style="width: 50%;">  <p>Competent persons used Competent and experienced supervisor and operatives to undertake works</p> </div> <div style="width: 50%;">  <p>Exclusion zone Where 360° plant, e.g. excavator is in use, an exclusion zone is to be established with barrier tape.</p> </div> <div style="width: 50%;">  <p>Segregated pedestrians Segregate pedestrian and vehicle/ plant routes will be established with barriers where possible in accordance with the Site plan and vehicle route</p> </div> <div style="width: 50%;">  <p>Speed Restrictions Enforced limits on speed applicable whilst on site.</p> </div> <div style="width: 50%;">  <p>Traffic Controls A designated and marked vehicle entrance/exit shall be established</p> </div> <div style="width: 50%;">  <p>Use of public warning notices Public warning notices showing site entrance, exit and pedestrian gates will be established and exclusion zone shall be posted around the designated entrance with barrier tape and banksmen during the movement of plant</p> </div> <div style="width: 50%;">  <p>Vehicle/plant reversing Reversing movements, or any movement over a public access area, may only be undertaken with the aid of a banksman.</p> </div> </div>	<p>2 x 3</p>  <p>6</p> <p>Medium</p>








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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Noise</p>	<p>All staff, Contractors, Members of the public, Operators, visitors</p> <p>How? Hearing loss, deafness, tinnitus</p>	<p> Areas are designated as mandatory hearing protection Hearing protection zones to be installed on site during excessively noisy activities</p> <p> Hearing protection provided and must be worn when noise is believed to be above 80 dBA (i.e. when you have to raise your voice to be heard two metres away). Appropriate hearing protection to be issued and worn.</p> <p> Noise control procedures in place Correct equipment maintenance in place to ensure noise level as per manufacturers type approval limits (exhaust baffles, etc. fitted and checked before use) PPE (ear protection) to be worn. Hazard signage to be displayed in public places Audiometric (hearing tests) testing regularly for all operatives and results monitored</p> <p> Plant selection & method of demolition Noise to be controlled and reduced to as low as is reasonably practical by careful selection of plant and method of demolition (safe system of work).</p> <p> Erection of acoustic barriers Acoustic barriers to be erected around noisy operations</p> <p> Information, instruction and training Provide information, instruction and supervision when and how to correctly use hearing protection.</p> <p> Routine Maintenance Undertaken Regular maintenance of vehicles, plant & equipment</p>	<p>1 x 2</p> <p> 2</p> <p>Low</p>















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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
		 Tool selection Use of pneumatic impact hammer attachments will be minimised where possible or substituted with hydraulic munchers	
 Premature collapse	All staff, Contractors, Members of the public, visitors How? Impact , crush injuries and fatality	 Exclusion zone Designated exclusion zones to be established external to the site with barrier tape and banks men when working close to the perimeter of the site.	2 x 4  Medium
		 Pre-demolition survey Carry out a pre-demolition survey, a detailed site risk assessment and a safe system of work	 No unauthorised access Persons not directly involved are to be excluded including the public by means of a hording and warning signs as necessary.
		 Temporary propping Use temporary propping where required	 Supervision Required Adequate supervision and competent work force










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 <p>Use of demolition drop zones</p>	<p>All staff, Contractors, Members of the public, Operators, visitors</p> <p>How? crush, impact injuries, fatality</p>	<p> chutes or mechanical means Using mechanical means or chutes</p> <p> Exclusion zone Exclusion zones established with barriers around a hazardous drop area on the ground.</p> <p> No blind dropping Avoid blind dropping</p> <p> Drop zone attended at all times Drop zones not to be left unattended when in use and emergency stop procedures to be in place</p> <p> Monitoring Two-way radios to be used where applicable to monitor drop zone</p>	<p>2 x 3</p>  <p>6</p> <p>Medium</p>













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 <p>Use of tools / work equipment</p>	<p>All staff, Contractors, Members of the public, Operators, visitors</p> <p>How? Cuts, impact injuries, shocks</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p>110v electric tools used</p> </div> <div style="width: 50%;">  <p>Defects reporting procedure All defects to be reported and defective tool/equipment tagged and quarantined until replaced or repaired</p> </div> <div style="width: 50%;">  <p>Double insulated or all insulated tools are used</p> </div> <div style="width: 50%;">  <p>Employees are trained in the use of hand tools</p> </div> <div style="width: 50%;">  <p>Guards and warnings All guards & warnings in place</p> </div> <div style="width: 50%;">  <p>Guards checked prior to use plant/equipment with defective guards not used until guard repaired/replaced</p> </div> <div style="width: 50%;">  <p>Regular PAT testing All electrical appliances to be Portable Appliance Tested (PAT) at regular and appropriate intervals. Use 110v equipment</p> </div> <div style="width: 50%;">  <p>Safe working load complied to Do not exceed plant safe working load</p> </div> <div style="width: 50%;">  <p>Tools and equipment stored when not in use</p> </div> <div style="width: 50%;">  <p>Tools Checked Before Use Tools Checked Before Use</p> </div> <div style="width: 50%;">  <p>Trained and competent operators Operators of machinery need to be trained and competent</p> </div> <div style="width: 50%;">  <p>Use of power tools Only trained and competent persons use power tools</p> </div> </div>	<p>2 x 2</p>  <p>4</p> <p>Medium</p>












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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Vibration & Vibrating Tools</p>	<p>All staff, Contractors, Operators</p> <p>How? Hand arm vibration syndrome, musculoskeletal injuries</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p> Adequate breaks taken Work is scheduled and phased. Task rotation</p> </div> <div style="width: 50%;"> <p> Gloves provided Keep hands warm/massage fingers during work (gloves to be worn).</p> </div> <div style="width: 50%;"> <p> Health surveillance Occupational health monitoring and assessment.</p> </div> <div style="width: 50%;"> <p> Only trained and competent operatives use tools Information, instruction and training provided to operatives on how to use the tool safely, identifying and reporting symptoms of HAVS</p> </div> <div style="width: 50%;"> <p> Selection and use of low vibration tools Ensure that the tool is correct for the job and is in good working order</p> </div> <div style="width: 50%;"> <p> Vibration Assessment Undertaken Identify vibration magnitude from manufacturers data and calculate exposure using Hand-Arm Vibration Calculator.</p> </div> <div style="width: 50%;"> <p> Work to manufacturer's guidance Work to manufactures guidance and rotate work force so as not to expose workers to high levels of vibration.</p> </div> </div>	<p>2 x 3</p>  <p>6</p> <p>Medium</p>






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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Working at Height</p>	<p>All staff, Contractors, Members of the public, Operators</p> <p>How? Fall from height resulting in major injury, potential fatality</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p> Edge protection used Work always within confines of the edge protection and double guardrail and toe boards are in place</p> <p> Ensure suitable working at height equipment is chosen and provided Ladders and stepladders to be used for short duration work only. Training in safe working at height Ladders , stepladders or podium steps checked for defects prior to use</p> <p> Only essential equipment used Essential equipment only used when working at height</p> <p> Provisions of Written Method Statements A task specific method statement to be in place</p> <p> Safety harness to be worn Securely tethered safety harnesses must be worn by all operatives exposed to the risk of falling</p> </div> <div style="width: 50%;"> <p> Employee trained to work at height Operatives working at height are to be working at height trained and competent for the task</p> <p> Exclusion zone Exclusion zone created around work at height area</p> <p> Provision and use of safety netting Fall prevention controls are installed i.e. netting</p> <p> Routine inspection carried out Harnesses and Lanyard tested regularly by a competent person</p> <p> Use of WAH access equipment Only employees who have been trained can use the working at height access equipment</p> </div> </div>	<p>2 x 4</p>  <p>8</p> <p>Medium</p>

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Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
		 Work at Height Emergency Rescue Plan in Place Working at height rescue plan to be in place for use of harnesses.	
 Working from mobile access tower	All staff, Contractors, Members of the public, Operators How? Impact, crush injuries, electrocution	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  Access equipment inspected by a competent person Defect reported to supervisor – work to cease and damaged components to be replaced before work can resume </div> <div style="width: 50%;">  Access to tower Climb up the inside of the tower using the ladder provided </div> <div style="width: 50%;">  Authorised Access Only Make sure access/egress to mobile access tower is clear at all times </div> <div style="width: 50%;">  Avoid overhead services Do not erect tower near to overhead services. Be aware of overhead services when moving the tower </div> <div style="width: 50%;">  Erecting platforms Only trained and competent (PASMA Qualified) operatives to erect mobile working platforms </div> <div style="width: 50%;">  Exclusion zone created around work at height area Exclusion zone to be set up with appropriate signage </div> <div style="width: 50%;">  Manufacturer's specification Towers to be erected in accordance with the manufacturer's specification. </div> <div style="width: 50%;">  Never move a tower with an operative on board. Workers not permitted to move tower with personnel or tools on working platform </div> </div>	1 x 4  Medium

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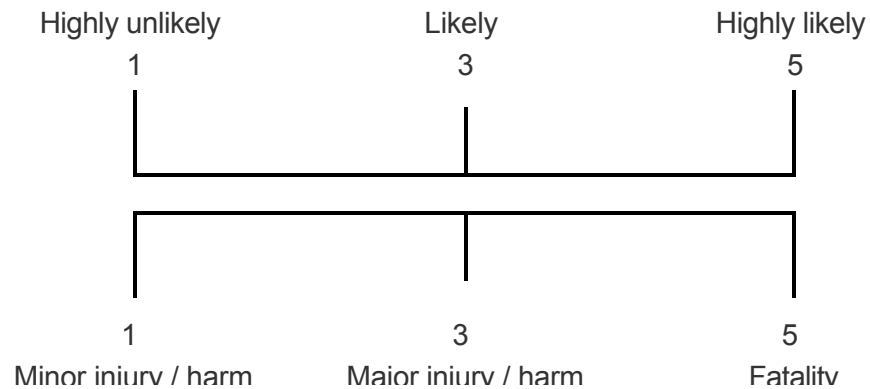
Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
		<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p> No work from mobile access tower during adverse weather Work shall be stopped if weather conditions endanger health or safety</p> </div> <div style="width: 50%;"> <p> Objects falling from height Demolition arising's to be cleared progressively to avoid build up / overloading</p> </div> <div style="width: 50%;"> <p> Tools and material storage Excess tools and materials are not to be stored on the tower</p> </div> <div style="width: 50%;"> <p> Towers to be erected on firm level ground Toe boards and double handrails to be fitted.</p> </div> <div style="width: 50%;"> <p> Use of fall arrest system Authorised employees are trained in the use of access equipment and fall arrest systems</p> </div> </div>	

Further control measures

None required

Risk rating explanation

Risk ratings are calculated by considering the likelihood of an event occurring along with the severity of the potential consequence should an accident occur. After considering existing control measures, values are assigned to the likelihood and severity from the scales below and these figures multiplied to established the risk rating.



	5	10	15	20	25
5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5
Probability					
					Severity

What do your risk ratings mean?

- Risk is categorised as LOW: Look to reduce risk if practicable
- Risk has been categorised as MEDIUM: Begin to plan your action to reduce the risk immediately
- Risk has been categorised as HIGH: Immediate action required to reduce the risk

Assessor's signature: Simon Harris

Approved by signature: