Pied Piper (-)			Risk Assessment Sheet Form RA/AC		Ref No Date	RA/2020.2 11.03.24
Task Description	Air Conditioning Installation	on &	Location			

**RISK ASSESSMENT INFORMATION** 



Ref No	RA/2020.2
Date	11 03 24

Task Description

Air Conditioning Installation & Decommissioning

Engineer  Persons Affected Individuals or Groups		Mark Hawkins		Date		
		staff, client staff, other contractors, members of the p	oublic			
Hazards/Consequences	Existing Contro	l Procedures	Likelihoo (a)	Severity (b)	Residual Risk (a x b)	Priority
Working at height from ladders/MEWPS etc. Risk of		eight carried out above 2 metres will be from a or Mobile Elevating Work Platform (MEWP)	2	2	4	4
death or major injury		All staff must wear approved safety harnesses attached to secure safety lines whilst working from MEWPS and/or ladders				
	reported, dama	ers inspected on a regular basis and defects ged ladders removed from site and replaced.				
		erienced, trained and competent to carry out ladder				
	Young/inexperi work at height	enced staff are trained and closely supervised during				
		oted and tied during use, other stabilising devises will the competent person deems necessary				
	determined tha high. The com	t be used where an onsite risk assessment has t the residual risk with all controls in place is still too betent person is responsible for organising other access to height.				
HSE guidance form INDG401 working at followed at all times.		form INDG401 working at height guidance to be mes.				



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Hazards/Consequences	Existing Control Procedures	Likelihood (a)	Severity (b)	Residual Risk (a x b)	Priority
Hung up Workers	Emergency procedures and equipment for recovering workers hung from harnesses must be available on site.	Na	Na	Na	Na
	Mobile phones or other forms of communication will be available at all times on site to summon the emergency rescue services				
	All staff have training and instruction of the recovery of hung up workers				
Dropping equipment from height leading to injury of persons on the ground	The area below ladders where other person may be liable to walk will be marked out with warning tape or barriers, and persons prevented from travelling across the danger area	1	4	4	4
	Installers have been instructed to take extra care when carrying tools at height, tool belts will be worn				
	If necessary a banksman will be stationed under the work area to prevent pedestrians from coming into the work area				
Slips trips and falls	Good house keeping, working area to be kept clean and free from trip hazards such as wires for equipment  Walkways to be provided and kept clean  Good footwear to be issued / used at all times	1	2	2	4



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Hazards/Consequences	Existing Control Procedures	Likelihood (a)	Severity (b)	Residual Risk (a x b)	Priority
Occupational asthma from breathing solder fumes	When inhaled, rosin-based solder flux fume can lead to occupational asthma or make existing asthmatic conditions worse. The fume can also cause irritation to the eyes and upper respiratory tract.	1	2	2	4
	As exposure to rosin-based solder flux fumes may be hazardous to health, their use is subject to the Control of Substances Hazardous to Health Regulations (COSHH). A suitable assessment of the risks to health must be carried out. Where reasonably practicable, exposure should be prevented, or failing that, adequately controlled				
	All staff will follow instructions on safe working practices, including the correct use and adjustment of control measures such as local extraction ventilation.				
	When required, all staff will wear protective equipment such as respirators. Suitable gloves, protective clothing and eye protection may also be appropriate for certain work where splashing of fluxes etc can occur				
Noise	Appropriate ear defenders will be worn by all staff when noise levels dictate	1	2	2	4



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Air Conditioning Installation & Decommissioning

Hazards/Consequences	Existing Control Procedures	Likelihood (a)	Severity (b)	Residual Risk (a x b)	Priority
Working with power tools and	Inspect tools for safety before use.	2	2	4	4
battery powered tools	Only competent persons to use power tools				
	Appropriate PPE to be worn including gloves, utility belt with fall restraint for tools and eyewear				
Injury to Tenants /	Inform anyone who may be affected by the works.	2	2	4	4
householder from installation operations	Put up notice to inform of men working overhead.				
σροιατιστισ	Use bunting round working area outside, when on roof.				
Manual Handling	Staff trained in correct lifting methods	2	2	4	4
Wallaarraming	Lifting equipment provided where loads are heavy including sack / wheel barrows or chain hoists or rope hoists where appropriate				
	Dual lifting to be used on awkward lifts				
	Appropriate lifting equipment to be used when lifting aerials to roof, rope or chain hoists				
Illness from exposure from Asbestos	A type 1 asbestos survey must be carried out to determine the location and condition of any asbestos-containing materials prior to starting work.	Na	Na	Na	Na
	All staff have received asbestos awareness training and have been instructed to stop work and report any suspicious materials				



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Air Conditioning Installation & Decommissioning

Hazards/Consequences	Existing Control Procedures	Likelihood (a)	Severity (b)	Residual Risk (a x b)	Priority
Fire from Hot work	It should be ensured that there is no combustible material in close proximity to the work. Suitable protection should be provided for any combustible items that cannot be moved and for combustible construction such as wooden floors.	1	5	5	3
	A check should be carried out on all of the surrounding areas to minimise the possibility of ignition by heat transfer.				
	If the area is protected by a sprinkler system, then sprinklers should be fully operational. Hot work' should not normally be carried out if the sprinklers are shut down.				
	At least one and, preferably two, 9 litre (13A rated) water or 6kg (ABC) powder extinguishers should be provided in the vicinity of the work.  Hot work' should be stopped at least an hour before the end of the working day, and a thorough inspection of the area should be undertaken, once the work is complete and, again, one hour after completion. Where necessary, a further check should be carried out at the end of the working day.				
	Gas cylinders should be secured vertically and be fitted with regulators and flashback arresters.				
	No boiler or any other 'hot work' apparatus should ever be left unattended when alight.				



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Hazards/Consequences	Existing Control Procedures	Likelihood (a)	Severity (b)	Residual Risk (a x b)	Priority
Injury to other construction workers and members of the	All hazardous areas are signposted, barricaded and, where appropriate, covered to avoid possible injury to visitors and	1	4	4	4
public during operations.	members of the public.				
	Anyone who may be affected by the works to be informed of site work, especially tenants and other contractors.				
	Site to be secured to prevent un-authorised access.				
	Foreman is to ensure no one access site without permit, or permission				
	Staff will cordon off work area and ensure tenants do not enter area of danger				
	Hand tools and power tools will not be left unattended				
	The site will be made safe at the end of each shift and staff will follow the method statement devised for this task				
Contact with Electricity	Only qualified electricians will be allowed to work on electrical circuits	1	5	5	3
	All circuits will be isolated prior to work starting			_	
		1	5	5	3



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Task Description Air Conditioning Installation & Decommissioning

Hazards/Consequences	Existing Control Procedures	Likelihood (a)	Severity (b)	Residual Risk (a x b)	Priority
Using R32 and R410A refrigerant gasses	Do not deliberately release R32 or R410A to the atmosphere	1	3	3	4
	Ensure persons carrying out work with Refrigerant gases have been suitably trained				
	Never mix R32 and R410A when recharging the system				
	Do not allow hot work to take place in areas near the refrigerant, the refrigerant must not be allowed to come into contact with hot surfaces.				
	Old and waste refrigerant must be disposed of according to hazardous waste disposal procedure.				
	Ensure that refrigerant recovery and recycling equipment is maintained and serviced regularly				
	Ensure that manufacturers instructions are closely followed for recharging and discharging air conditioning systems				
	Ensure Refrigerant chemicals are stored in a secure area away from heat				
	Check with Manufacturer if refrigerant requires removal before refinishing work				



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Air Conditioning Installation & Decommissioning

Location

#### **Site Specific Control Procedures**

Hazards/Consequences	Further Control Procedures Required	Implementation Responsibility	Probability (a)	Severity (b)	Residual Risk (a x b)	Priority
Dropping of tools from ladder Injury to others.	Put up signage. Put up barriers around area	Lead Engineer	1	4	4	4
Good housekeeping	Ensure good working practices	Lead Engineer	1	2	2	4
Correct PPE, Hi-Viz, gloves,safety boots and goggles worn.		Lead Engineer	2	3	6	3
Contact with electricity	All systems to be isolated from Mains	On site Electrician	1	5	5	3
Dealing with refrigerants	Fully qualified engineer	Lead Engineer	2	3	6	3
Working with power tools	Correct and working tools	Lead Engineer	2	3	6	3
Manual Handling	Two man lifting	Lead Engineer	1	2	2	4

Safe System of work / Method statement

See separate method statements

	Likelihood		Severity		Priority
1	Highly Unlikely	1	Trivial	1	Urgent action – (Risk no 15 – 25)
2	Unlikely	2	Minor Injury	2	High Priority – (Risk no 10 – 12)
3	Possible	3	Over 3 day Injury	3	Medium Priority – (Risk no 5 – 9)
4	Probable	4	Major Injury	4	Low Priority – Risk no (2 – 4)
5	Certain	5	Incapacity or Death	5	Very Low Priority– No Action required (Risk no 1)