

# Infrastructure HSW Management Sub-System

## Roof Inspection Check

### Building Details

<b>Building Name:</b> Vet Science Building <b>Building No:</b> RW163	<b>Date of Inspection:</b> 09/08/2023	<b>Inherent Risk</b>  <b>Medium</b>
	<b>Keys required:</b> Plant Room	

### Roof Access Details

- Right of Access Permit is only for visual inspection and a different permit is required before commencing any work on the roof.
- Parapets are not a fall arrest system unless part of a submitted SWMS.
- A Lock Out/Tag Out procedure has been implemented for Fume Cupboards.
- If using a harness all workers accessing the roof must have current Working at Heights training

To access roof, go to back of building and enter staff car park. On northwestern side of building is an external staircase. Fixed ladder provides access to upper roof.

Walkway network does not allow access to all plant on roof.

Roof on southwestern corner cannot be accessed via external staircase.



Roof access



No walkways



Extraction units



Anchor points



Southwestern roof

**No access** unless a safe system of work is in place to ensure the risk of a fall has been minimised (2012 SA WHS Regulations Part 4), this could include using industrial fall arrest harness attached to the static lines or anchor points if available.

### Roof Details

<b>Roof Material:</b> Zinc/Alum decking	<b>No. of Roofs on Building:</b> 2 (upper and lower)
<b>Pitch:</b> (10°)	<b>Roof Height (m):</b> Approximately 8 metres
<b>Gutter Details:</b> External Gutter           X Box Gutter                   X	<b>Fragile Panels / areas:</b> Nil
<b>Access:</b> Walkways                    X Platforms                   X Fixed Ladders               X	<b>Parapet Details (height, construction):</b> Various in height
<b>Description of Roof Plant:</b> Solar panels at upper northern end, multiple air-con units and fume cupboard ventilation	

#### Other Details:

Be aware of multiple bleed valves. Use collapsible step ladder railings for fixed steps at southeast side of building. Check with lab manager when working around fume cupboard ventilation to arrange the most appropriate time so not to be exposed to any vapours.

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### RISK ASSESSMENT

Hazards	Hazard	Risk Indicator once Controls in place	Control
Hazards	Unprotected roof edges – Fall hazard	Rare x Severe Medium	No access to roof without a permit to work and a documented safe system of work.
	Airbourne hazardous chemicals (Venting or Flumes)	Rare x Major Medium	Check with Building Owner and/or Laboratory Manager and undertake a risk assessment. Contact FM for details
	Weather – Heat, rain, strong winds – Heat exhaustion, dehydration, sunburn, colds, fall hazard	Rare x Minor Low	Do not commence works in extreme weather conditions which will adversely affect workers.
	Working alone	Slight x Major High	A system to ensure lone worker's welfare needs to be in place.
	Slips and trips	Rare x Moderate Low	Wear safety boots and long trousers.
	Other Information	<ol style="list-style-type: none"> <li>The method of access to rooftop shall depend on the specific job task being undertaken and risk assessment completed prior to commencement of work and included in Job Safety Analysis (JSA) or Safe Work Method Statement (SWMS) or Safe Work Procedure (SWP) and Safe Work Instruction (SWI);</li> <li>Access and work on roof top when weather is clear, dry and no high winds;</li> <li>Footwear must be toe steel capped and comply with AS/NZS 2210 for type 1 safety footwear;</li> <li>Sun protection policy and procedure is in place when working outdoors;</li> <li>Tools to be carried in tool belt; and</li> <li>Plant and equipment must be well maintained and serviced regularly.</li> </ol>	
Instructions	<ol style="list-style-type: none"> <li>Undertake roof access in accordance with the University of Adelaide Infrastructure Management Sub-System</li> <li>Roof Access Permit to be obtained prior to roof access;</li> <li>Venting or Fumes - airborne hazardous chemicals: check with Building Owner, Laboratory Manager and/or the Maintenance Service Centre and undertake a risk assessment;</li> <li>Ensure that tools are secured on their person or a safe work method for bringing tools to and from the task has been determined prior to commencement of job; and</li> <li>Do not carry out any tasks within on an unguarded roof edge or fall hazard, unless a safe system of work is in place to ensure the risk of a fall has been minimised.</li> </ol>		

LIKELIHOOD TABLE		CONSEQUENCES TABLE	
Category	Description	Category	Description
Almost certain	There is an expectation that an event/incident will occur	Severe	Injury resulting in death, permanent incapacity
Likely	There is an expectation that an event/incident <b>could occur</b> but not certain to occur.	Major	Injury requiring extensive medical treatment, hospitalisation, or activities could result in a Notifiable occurrence.
Slight	This expectation lies somewhere in the midpoint between "could" and "improbable"	Moderate	Injury requires formal medical treatment (hospital outpatient/doctors visit etc), activities could result in an Improvement Notice.
Unlikely	There is an expectation that an event/incident is doubtful or <b>improbable</b> to occur	Minor	Injury requires first aid
Rare	there is no expectation that the event/incident will occur	Negligible	Injury requires minor first aid (e.g. band aid), or result in short term discomfort (e.g. bruise, headache, muscular aches, etc)

RISK RATING					
Likelihood	Consequences				
	Negligible	Minor	Moderate	Major	Severe
Almost Certain	Medium	High	Very High	Very High	Very High
Likely	Medium	Medium	High	Very High	Very High
Slight	Low	Medium	High	High	Very High
Unlikely	Low	Low	Medium	Medium	High
Rare	Low	Low	Low	Medium	Medium