

Infrastructure HSW Management Sub-System

Roof Inspection Check

Building Details		
Building Name: Molecular Life Sciences Building No: NT 27	Date of Inspection: 30/08/2023	Risk <div style="background-color: green; color: white; text-align: center; padding: 5px;">Medium</div>
	Keys required: Plant room, Roof Access & Building Master.	

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.
- If using a harness attached to an anchor point/static line, all workers must have current Working at Heights training and anchor points/static lines must have been certified in the last 12 months.
- 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

There is access to the roof from Level 5 via the eastern and western external fire exit doors on the ground level. A Building master (swipe) key is required to access the eastern stairs. A plant room key is required to access the western stairs at ground level (G25).

Alternatively take the lifts to level 5 and enter laboratories 5.11-5.13 (west side) or 5.19-5.24 (east side). Once in laboratories access is through a door on left (west side) or a door on the right (east side). Access to the roof is via locked doors (plant room keys) at the top of the stairs. Roof access keys are required to exit the plant rooms onto the level 5 plant decks.

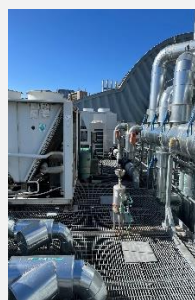
Level 6 is accessed via 5m fixed vertical ladders from the eastern and western L5 plant decks.



Western entrance



Eastern entrance



Lower level roof



Ladder to upper level



Upper level roof

No access to areas without walkways 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

Roof Material: Iron	No. of Roofs on Building: 3 accessible, 2 no access.
Pitch: L5 plant decks and L6 roof are near flat. Curved roofs are not accessible without specialist training and equipment.	Roof Height (m): 5 storeys high
Gutter Details: Box Gutter <input checked="" type="checkbox"/>	Fragile Panels / areas: Light well adjacent to The Braggs building on the L6 roof.
Walkways <input checked="" type="checkbox"/> Other:	Parapet Details (height, construction): All edges are protected by parapet wall or fencing except the Eastern edge.
Fixed Ladders <input checked="" type="checkbox"/> Walkways and fixed ladders in situ	Number: 1 Various
Description of Roof Plant: Aerial on second roof Venting pipes/fume exhaust	

Other Details:

Static lines
Purlin anchors

RISK ASSESSMENT

	Hazard	Risk Indicator once Controls in place	Control
Hazards	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
	Unprotected roof edges and height of roofs – Fall hazard	Rare x Severe Medium	No access to roof without a permit to work and a documented safe system of work.
	Falling from fixed ladder(s)	Rare x Severe Medium	Avoid accessing L6 roof if not required. Maintain 3 points of contact. Do not use ladder during wet or windy weather. Do not carry tools in hands.
	Working alone	Slight x Major High	A system to ensure lone worker's welfare, needs to be in place.
	Walking on roof – Fall and slip hazard	Rare x Minor Low	Take care when traversing. Walk and do not run. Wear protective footwear (refer below).
	Weather – Heat, rain, strong winds – Heat exhaustion, dehydration, sunburn, colds, fall hazard	Rare x Moderate Low	Do not commence works in extreme weather conditions which will adversely affect workers
	Other Information	<ol style="list-style-type: none"> 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); Access and work on roof top when weather is clear, dry and no high winds; Footwear must be toe steel capped and comply with AS/NZS 2210 for type 1 safety footwear; Sun protection policy and procedure is in place when working outdoors; Tools to be carried in tool belt; and Plant and equipment must be well maintained and serviced regularly. 	
Instructions	<ol style="list-style-type: none"> Roof Access Permit to be obtained prior to roof access; Undertake roof access in accordance with the University of Adelaide Infrastructure Management Sub-System Venting or Fumes - airborne hazardous chemicals: check with Building Owner, Laboratory Manager and/or the Maintenance Service Centre and undertake a risk assessment; 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 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. 		

LIKELIHOOD TABLE	
Category	Description
Almost certain	There is an expectation that an event/incident will occur.
Likely	There is an expectation that an event/incident could occur but not certain to occur.
Slight	This expectation lies somewhere in the midpoint between "could" and "improbable"

CONSEQUENCES TABLE	
Category	Description
Severe	Injury resulting in death, permanent incapacity
Major	Injury requiring extensive medical treatment, hospitalisation, or activities could result in a Notifiable occurrence.
Moderate	Injury requires formal medical treatment (hospital outpatient/doctors visit etc), activities could result in an Improvement Notice.

Infrastructure HSW Management Sub-System

Roof Inspection Check



Unlikely	There is an expectation that an event/incident is doubtful or improbable 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