

Building Details

Building Name: Mawson Building No: NT 29	Date of Inspection: 1/09/2023	Inherent Risk
	Keys required: Roof Access & Plant Room	Medium

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.
- If accessing roof externally a lock out/tag out procedure has been implemented for Fume Cupboards

There is internal access to roof from the first floor. Access is via eastern stairs 201, northern stairwell 204 or western stairs 138. A roof access key is required to open all doors that lead onto the roof.

There is no access to the terracotta roof.

Work is not to be undertaken in close proximity to **fume extractors**.



Mawson



A frame skylights



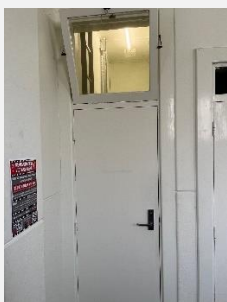
Terracotta roof

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 Space

There is internal access to the roof space from the first floor. Go to level 1 and enter door next to room 126. Climb fixed ladder and enter roof space.

Note: There is no internal light in roof space. Walkways present.



Door to fixed ladder



Entry to roof space

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: Surfaces include: Terracotta, Iron & Membrane	No. of Roofs on Building: Range of roofs
Pitch: < 15° X General plant access > 30° X Terracotta tile roof	Roof Height (m): 9m

Infrastructure HSW Management Sub-System

Roof Inspection Check



Gutter Details: External Gutter	X	Fragile Panels / areas: A frame skylights with Georgian wired glass
Fixed Ladders	X	Parapet Details (height, construction): Brick surrounding entire plant area.
Walkways	X – in roof space	
Description of Roof Plant: Glasshouses A frame skylights Fume extractors Air conditioners		Number: Various 4 Various Various
Other Details: A range of hazardous chemicals (i.e. Hydrofluoric acid, Sulphuric acid) are used in the building and fumes may enter the fume extraction systems posing a potential exposure to airborne hazardous chemicals hazard.		

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 terracotta roof unless under a work permit and a safe system of work for prevention of falls is implemented.
	Walking on roof – Fall and slip hazard	Rare x Moderate 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 Minor Low	Take care when traversing. Walk and do not run. Wear protective footwear (refer below).
	Working alone	Slight x Major High	A system to ensure lone worker’s welfare, needs to be in place.
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"> Undertake roof access in accordance with the University of Adelaide Infrastructure Management Sub-System Roof Access Permit to be obtained prior to roof access; 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.

CONSEQUENCES TABLE	
Category	Description
Severe	Injury resulting in death, permanent incapacity

Infrastructure HSW Management Sub-System

Roof Inspection Check



Likely	There is an expectation that an event/incident could occur 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 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