

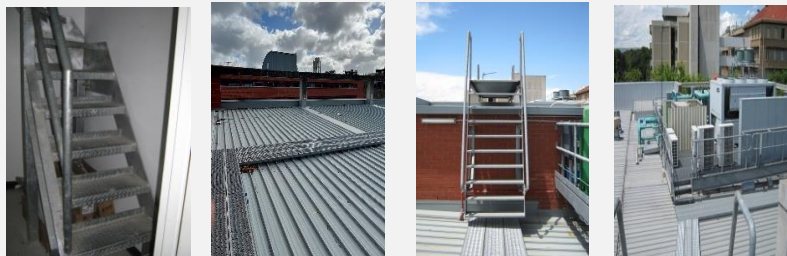
### Building Details

<b>Building Name:</b> Santos Building <b>Building No:</b> NT 41	<b>Date of Inspection:</b> 10/08/2023	<b>Inherent Risk</b>
	<b>Keys Required:</b> Plant Room & Roof Access	<b>Medium</b>

### 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 an internal access to the roof from Level 4 of the Engineering and Mathematics Sciences Building room EM421. Once the door is opened (light on left side), walk upstairs, open the internal door on the right side and you will be on the roof of Engineering and Mathematics Science Building. Follow walkways on left side to elevated walkway and cross onto Santos building.



Access from Eng & Maths to roof      Walkway      Access to Santos Roof      Santos 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

<b>Roof Material:</b> Iron	<b>No. of Roofs on Building:</b> One
<b>Pitch:</b> < 15°                      X	<b>Roof Height (m):</b> 4 storeys
<b>Gutter Details:</b> Box Gutter                      X	<b>Fragile Panels / areas:</b>
Walkways                      X Other: Platforms                      X Fixed Ladders                      X	<b>Parapet Details (height, construction):</b> Unprotected edge on northern side. Parapets, where in place, range from 0.8-2m.
<b>Description of Roof Plant:</b> Venting/exhaust pipes Air conditioners Fume stacks Aerial (high gain TV receiver)	<b>Number:</b> Various Various Various 1

**Other Details: NA**  
 Static lines in-situ (see pages 3)

### RISK ASSESSMENT

Hazard	Risk Indicator once Controls in place	Control
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 roof – Fall hazard	Rare x Severe Medium	No access to roof without a permit to work and a documented safe system of work.
Walking on roof- Slips, trips and collision with plant	Rare x Moderate Low	Take care when traversing. Wear protective footwear (refer below). Implement a safe system of work for prevention of falls prior to commencing works.
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 needs to be in place to ensure lone worker's welfare.
<b>Other Information</b>	<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>	
<b>Instructions</b>	<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 Facilities Manager 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 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	
Category	Description
Almost certain	There is an expectation that an event/incident will occur.
Likely	There is an expectation that an event/incident <b>could occur</b> but not certain to occur.
Slight	This expectation lies somewhere in the midpoint between "could" and "improbable"
Unlikely	There is an expectation that an event/incident is <b>doubtful or improbable to occur</b>
Rare	there is no expectation that the event/incident will occur

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.
Minor	Injury requires first aid
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
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Building Schematic Roof:



- Static Line
- Purlin Anchor
- Mechanical Anchor
- Surface Mount Anchor Point
- Fall Arrest Anchor
- Bolted Post Anchor
- Diversion Anchor
- Davit Cup
- Davit Cup
- Davit Cup
- Post
- Unknown Fixing Type
- Access Point
- Inaccessible Location In Black
- Unknown Anchor

<b>Warning</b>	This process is uncontrolled when printed. The current version is available on the I&TS Website.	<b>Effective</b>	August 2023	<b>Version:</b>	3.0
<b>Authorised</b>	Director, Capital Projects & Facilities Management   Infrastructure Branch   Division of University	<b>Review</b>	August 2026	<b>Page: 3 of 3</b>	
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