

Roof Safety Survey

GENERAL INFORMATION

CAMPUS: Wollongong Campus
BUILDING: Austin Keane Building (15)
DESCRIPTION: Three storey H - shaped building with flat metal roof. The eastern end of the southern wing has a single storey annex currently housing the Exercise Science & Rehabilitation Unit. There is a covered walkway linking the eastern end of the northern wing to Building 35. On western side there is a single storey gas storage facility with a curved metal roof and two skylights - no fall arrest system in place.

RISK ASSESSMENT #: UOW01597

ROOF ACCESS: Two access points
 1) Main Access through Plantroom on Level 2 (S4 opposite lift)
 2) South east wing Via door 1P11 Mechanical (through to 1P12) to landing
 3) Entry awning and links Portable ladder required. Ladder brackets
SIGNAGE: Danger - No Access to Roof without a Buildings and Grounds Roof Access UOW Permit to work; Caution - Trip Hazard

COMPLIANCE PLATES: Anchor plates on covered awnings over entrance tagged. Locations of compliance plates for horizontal lifelines marked on aerial photo.

SAFE WORK AREA: Two enclosed services areas adjacent to roof access doors

ROOFING SYSTEM: SALA "SAYFGLIDA & SAYF8" LIFELINE.
 TYPICAL ANCHORS

HEIGHT OF BUILDING: 3 storey

PITCH: Flat < 5 degrees

ROOF CONSTRUCTION: Metal roof

STRUCTURAL INTEGRITY: Sound

VEGETATION: Yes

ADJOINING ROOFES: Biological Sciences (35) but no access from there - only a linking single story passageway.

SERVICES:	Gutters	Yes	Satellite Dishes	Yes
	A/C Units	Yes	Antenna	Yes
	Exhaust Fans	Yes	Skylights Domes	Yes
	Ducts	Yes	Glass Skylights	No
	Roof Ventilators	No	Pipework	Yes
	Fume Cupboards	5	Cooling Tower	Yes
	Telco Towers	No		

EXISTING SAFETY ITEMS:	Horizontal Lifelines	Yes	Handrail	Yes	1200 mm
	Anchor Points	Yes	Walkway	Yes	
	Vertical Lifelines	No	Parapets	Yes	200 mm

WORK ACTIVITY DETAILS:	Clean Gutters / Routine Maintenance	Yes	Frequency	Every 6 weeks
	Service A/C Plant	Yes		Monthly
	Fume Cupboards	Yes		Every 6 months
	Cooling Tower Maintenance	Yes		Every 3 Months

Note: Before commencing any work obtain Roof Permit from Facilities Management Division

Roof Safety Survey

RISK ASSESSMENT

Risk Assessment / Task Location

BUILDING 15

Note: The hazards identified do not include hazards that related to specific work tasks. These should be identified in the Safe Work Method Statement (SWMS) of the contractor.

Hazard Identification		Risk Assessment & Control Measures		Risk Control
What is the Activity/Service Item	What are the potential Hazards	What is the Risk Level	List any Control Measures already Implemented	Describe what can be done to eliminate risk or reduce the harm
Access to Upper Roof via plantroom door Building	Access ladders	M	Fixed ladders	Minimum awareness - ladder rungs close to wall.
Access to Lower roof via plant area	Step to roof - portable ladder or steps required	M	Step access to roof	Minimum awareness - safe use of portable ladder
Access to front awnings	Portable access ladder required	M	Secure ladder to façade prior to access	Barricade ground level. Tie ladder prior to use
Access to Roof	Unauthorised access	M	All access points to roof are locked and made secure so are not accessible by unauthorised persons; signage	Risk Assessment and Roof Safety Survey
Air Conditioning Maintenance	Atmospheric contaminants; Legionnaires Disease from A/C Units	M	Regular inspection and cleaning of Air filters; intakes and exhausts; ductwork and cooling towers	Continuing Maintenance
Roof / gutter maintenance	Falling	H	Horizontal Lifeline & Anchors Installed	Ensure horizontal lifeline & anchors used correctly
Roof Plant Maintenance greater than 2m from roof edge	Refer to SWMS for contractor	M	Safe Work Procedure	Nil
Roof Plant Maintenance within 2m from roof edge	Falling & Refer to SWMS for contractor	H	Horizontal Lifeline & Anchors Installed	Ensure horizontal lifeline & anchors used correctly
Working near fume cupboard vents	Fume Cupboard Emissions	M	Nil	Signage and liase with faculty when work needs to be carried out on Fume Cupboards. An Equipment Lockout Procedure (ELP) must be developed so that the equipment can be serviced safely.
Antenna Maintenance	Falling and Refer to SWMS of contractor	H	Anchor Points Installed	Ensure SWP developed is followed by Contractors
Working near Skylights on Gas Storage Annex	Falling near or through skylight	H	Nil	Install fall restraint system; or Protective gridmesh or handrail around skydomes; Signage
General	Trip Hazard - Roof Sheeting	M	Safe Work Procedure	Walkway or minimum awareness in Safe Work Procedure
General	Trip Hazard - Horizontal Lifeline or Anchor Points	M	Signage & System is visible	Be aware of location of horizontal lifeline & anchor points
General	Environmental Hazards - Spiders, Wasps, and other insects	M	Appropriate PPE and insect repellent and Pest control as required	On-going pest control measures
General	Weather Trips/Slips - Wet Roofs	H	Safe Work Procedure, do not work on wet roof	Do not work while roofs are wet or have dew
General	Weather - Windy Condition	H	Safe Work Procedure, do not work in high wind conditions	Do not work in windy conditions
General	Weather - Hot Conditions	M	Safe Work Procedure	Use suncream, hats and remain hydrated and take appropriate breaks
General	Climbing ladder	M	Maintain 3 points of contact; Signage; and Working at Heights Guidelines - Working from Ladders	Ensure that ladder is used correctly

Reference Documentation

Legislation

NSW Work Health and Safety Regulation 2011 Part 4.4 Falls

Public Health (Microbial Control) Regulation 2000

Australian Standards

AS 1657 - 2013 : Fixed platforms, walkways, stairways and ladders - Design, construction and installation

AS 1891.1 - 2007 : Industrial fall-arrest systems and devices - Harnesses and ancillary equipment

AS 1891.2 - 2001 : Industrial fall-arrest systems and devices - Horizontal lifeline and rail systems

AS 1891.3 - 1997 : Industrial fall-arrest systems and devices - Fall-arrest devices

AS 1891.4 - 2009 : Industrial fall-arrest systems and devices - Selection, use and maintenance

AS 1892.5 - 2000 : Portable ladders - Selection, safe use and care

AS 2210.1 - 2010 : Safety, protective and occupational footwear - Guide to selection, care and use

AS 2243.8 - 2006 : Safety in Laboratories - Fume Cupboards

AS 2243.9 - 2009 : Safety in Laboratories - Recirculating Fume Cabinets

AS 3666- 2011 : Air-handling & Water Systems for Buildings - Microbial Control

AS 4994.1 - 2009 : Temporary edge protection - General requirements

AS 4994.2 - 2009 : Temporary edge protection - Roof edge protection - Installation and dismantling

AS 5532 - 2013 : Manufacturing requirements for single-point anchor device used for harness-based work at height

Code of Practice

Safe Work Australia - Managing the Risk of Falls at Workplaces

NSW Health Department Code of Practice for the Control of Legionnaires' Disease

UOW Documentation

Managing the Risk of Falls Guidelines

Thermal Comfort Guidelines

UOW Roof Access Permit

UOW Roof Access Certificate

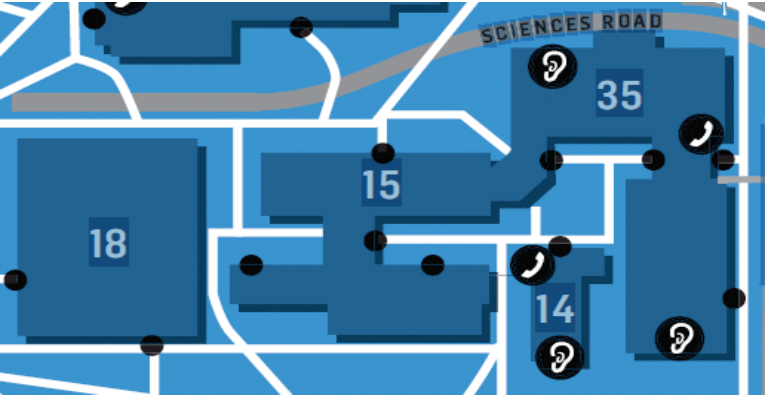
Other

[SALA - Fall Arrest and Height Safety Systems - Fall Protection Manual](#)

WorkCover - Safe Working at Heights Guide 2006

WorkCover Safety Guide - Portable Ladders February 1999

Building 15 Roof Safety Assessment



- A - location of access to roof
- Horizontal lifeline
- Anchors
- P - location of access to roof
- Safe Roof Work Area

Building 15 Roof Safety Assessment

Existing controls



<p>CLIENT: University of Wollongong</p> <p>SITE: Building 15—Northfield Ave, Wollongong</p> <p>INSPECTED BY: AA</p> <p>DRAWN BY: AMF</p>	<p>LEGEND</p> <ul style="list-style-type: none"> ● ANCHOR POINT STATIC LINE NEW WALKWAY EXISTING WALKWAY GUARD RAIL ROOF ACCESS HATCH HAZARD AREA ⊘ BRITTLE ROOF SIGNS EWP ACCESS LADDER New Walkway with GR LADDER BRACKETS 	<p>NOTES</p> <p>VERIFY ALL DIMENSIONS AND SITE MEASURE BEFORE COMMENCING WORK. DO NOT SCALE FROM THIS DRAWING. THIS DRAWING IS COPYRIGHT AND REMAINS THE PROPERTY OF WORKPLACE ACCESS & SAFETY AND SHALL NOT BE REPRODUCED OR COPIED IN ANY FORMAT BY ANY MEANS WITHOUT THE WRITTEN PERMISSIONS OF WORKPLACE ACCESS & SAFETY</p>	<p>workplace access&safety[®]</p> <p>the fall prevention specialists</p>
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Building 15 Roof Safety Assessment



Southern wing - western view



Southern wing - horizontal lifeline



Ladder to access Northern wing



Walkway & handrails over plantroom to Northern wing



Northern wing - eastern view



Northern wing - western view



Walkway behind plantroom



Walkway and access from door of plantroom

Building 15 Roof Safety Assessment



Anchor point on awning



Location of compliance plate north east wing



Gas storage annex on western side of Building 15



Access to south east annex landing



Location of compliance plate south east annex



Location of compliance plate south east annex