

Roof Safety Survey

GENERAL INFORMATION

CAMPUS: Wollongong Campus
BUILDING: School of Information Systems & Technology (39A), X (39B) and CEDIR (39C)
DESCRIPTION: Building comprises 3 wings/blocks
 Block C (western wing) Two storey metal roof building with raised glass atrium skylight and two enclosed service areas - the smaller in the south west corner beside the access door, the larger north of the atrium in the centre of the block - to the west of the other access door. Anchor points to clean gutters
 Block B (southern wing) Two storey metal roof building plus underground parking with raised glass atrium skylight and enclosed service area to the north beside the access door. Anchor points to clean gutters. Stile to access Block A
 Block A (northern wing) Two storey metal roof building with raised glass atrium skylights and enclosed service area to the north. Anchor points to clean gutters. Horizontal lifelines beside skylights on the western side. Stile to access Block B. Note : Trip hazard at roof access. North wing plant room access - safe use of ladders - telescopic stiles to ladder to be extended prior to access. Low head clearance on ladder.

RISK ASSESSMENT: UOW01676

ROOF ACCESS: Multiple Access points:
 1) Block C (western wing west) Via Stair 2 up to roof
 2) Block C (western wing east) Via 2C1 plantroom up stairs to roof - opens up to services area
 3) Block B (southern wing) Via Stair 1 up to roof
 4) Block A (northern wing) Assess room 2P2 - 4 metre ladder up to hatch that opens onto roof
 5) Front Awning Access via portable ladder - at ladder bracket attachment

SIGNAGE: Danger - No Access to Roof without a Buildings and Grounds Roof Access UOW Permit to work; Caution - Trip Hazard; Caution - Low Headroom; Caution - Chemical Hazards

COMPLIANCE PLATES: Plate for Horizontal lifeline on wall adjacent to the line. All anchors have data tags.

SAFE WORK AREAS: None on Block A; however three within the enclosed service areas immediately accessed from the roof access doors in Block B and C. Refer Map

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

HEIGHT OF BUILDING: 3 storey
PITCH: < 5 degrees
ROOF CONSTRUCTION: Metal
STRUCTURAL INTEGRITY: Sound

VEGETATION: Yes

ADJOINING ROOFES: Nil

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

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

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

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

Roof Safety Survey

RISK ASSESSMENT

Risk Assessment / Task Location

BUILDING 39

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 Roof	Low Head Clearance & Falling	M	Caution	Signage for clearance and a safer access point so you are not exposed to fall
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
Gutter Edge Maintenance with edge protection	Refer to SWMS of contractor	L	Parapet & Handrail Protection	Nil
Gutter Edge Maintenance with no protection	Falling	H	Horizontal Lifelines & Anchor Points Installed	Handrail, Horizontal Lifeline or a minimum of Anchor Points are required
A/C Maintenance not close to edge or with handrail protection	Refer to SWMS of contractor	L	Safe Area or with Parapet & Handrail Protection	Nil
A/C Maintenance close to roof edge with no protection	Falling & Refer to SWMS of contractor for maintenance work	H	Nil	Handrail, Horizontal Lifeline or a minimum of Anchor Points are required
Exhaust Fan & Duct Maintenance not close to edge or with Handrail protection	Refer to SWMS of contractor	L	Parapet & Handrail Protection	Nil
Exhaust Fan & Duct Maintenance close to roof edge with no protection	Falling & Refer to SWMS of contractor for maintenacne work	H	Nil	Handrail, Horizontal Lifeline or a minimum of Anchor Points are required
Antenna Maintenance with fall protection	Refer to SWMS of contractor for maintenace work	H	Parapet, Handrail Protection or Horizontal Lifelines & Anchors	Ensure horizontal lifeline & anchors used correctly
Antenna Maintenance with no fall protection	Falling	H	Nil	Handrail, Horizontal Lifeline or a minimum of Anchor Points are required
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
Cooling Tower Maintenance	Falling and Refer to SWMS of contractor for maintenance work	H	Working at Heights Guidelines - Working from Ladders, Maintain 3 points of contact	Vertical Systems on the access ladders
Access near Skylights and possible cleaning	Falling Through	H	Nil	Warning Signs if trafficable or some form of fall protection device is required. Protective gridmesh or handrail around skydomes / skylights on Block A
General	Trip Hazard - Roof Sheeting	M	Safe Work Procedure	Install walkways
General	Climbing ladder	M	Maintain 3 points of contact; Signage; and Working at Heights Guidelines - Working from Ladders	Ensure that ladder is used correctly
General	Environmental Hazards - Spiders, Wasps, and other insects	M	Appropriate PPE and insect repellent; 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 windy 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
Block A Access	Low Head Clearance	M	Caution	North Wing Plant Room Access Safe use of ladders -telescopic stilts to ladder to be extended prior to access.

Reference Documentation

Legislation

NSW Work Health and Safety Regulation 2017 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 2210.1 - 2010 : Safety, protective and occupational footwear - Guide to selection, care and use
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

SafeWork NSW - Manage the risk of falls in the workplace
NSW Health Department Code of Practice for the Control of Legionnaires' Disease

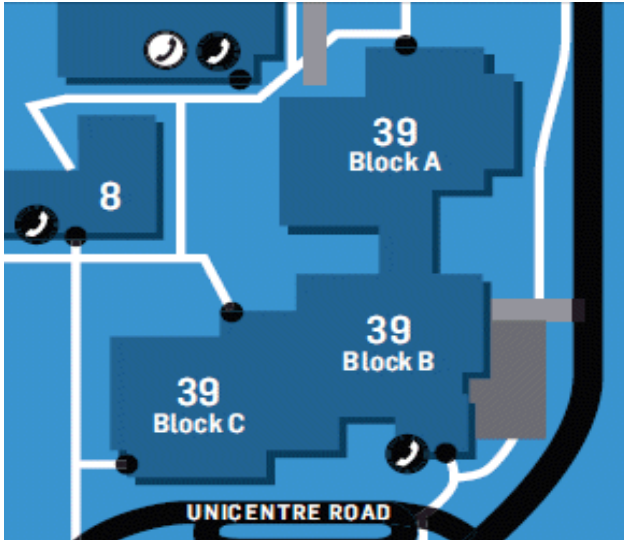
UOW Documentation

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

BUILDING 39 ROOF SAFETY ASSESSMENT



- P - location of compliance plate
- A - location of access to roof
- L - location of ladder/stile
- B - location of ladder bracket
- Horizontal Lifeline
- Safe Roof Work Area
- Anchor points

BUILDING 39 ROOF SAFETY ASSESSMENT



Roof access to enclosed services area in SW corner of Block C



Enclosed services area in SW corner of Block C



Parapet and handrail on southern wall of Block C



Skylight on



Looking up to access door in the main services area on Block C



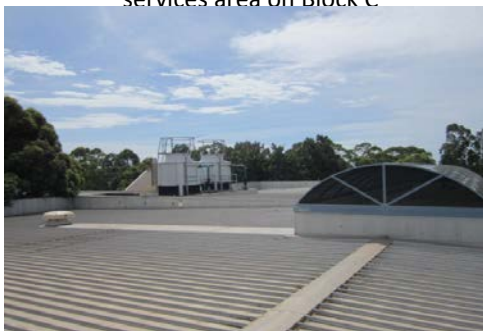
Handrail on the northern side of the main services area on Block C - looking east towards Block B



Main services area on Block C looking west



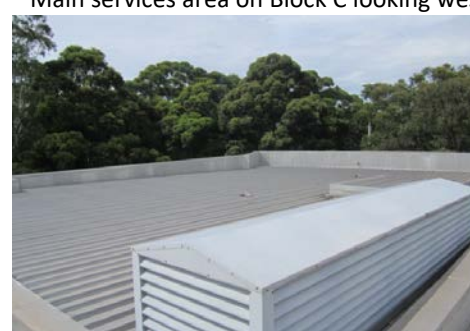
Cooling towers and roof



Skylight and cooling towers on Block B



Skylight on Block C



South east corner of Block B



Horizontal lifelines around

BUILDING 39 ROOF SAFETY ASSESSMENT



Block A



Block A looking north from ladder



Ladder to cooling tower on Block B



B39 low head clearance 2



of access door to Block B



Roof access door to Block B



Ladder and hatch to access on Block A
Caution - Low head clearance on access ladder.



B39 low head clearance on ladder



and skylights on Block A



Skylight domes on Block A