Roof Safety Survey

GENERAL INFORMATION

CAMPUS: Innovation
BUILDING: 231 - AIIM
DESCRIPTION: Modern three storey with plantroom on roof. Awnings over ground floor and outside walkways along the windows on the first and second floors on the northern side of the building.

RISK ASSESSMENT #: UOW02299

ROOF ACCESS:
1. Awnings Ladder brackets up to awnings
2. Main roof Via door from Plantroom on Northern side
3. Main roof Via door from Plantroom on Southern side
4. Upper roof Ladder via hatch inside Plantroom
5. Walkways - first floor Ladder via hatch inside Plantroom
6. Walkways - second floor/EMF Roof Access via second floor window in Room 204

SIGNAGE: Nil to roof; Danger Non Trafficable Roof over covered skylight

COMPLIANCE PLATES: Compliance plates are located on the walkways on northern side of the building and beside the ladder accessing the upper roof of the plant room. Also adjacent to the hatch to the upper roof. Anchor points are tagged.

SAFE WORK AREA: Main roof accept over the covered skylight area

ROOFING SYSTEM:
- Sala Evolution Lifeline
- Sala Ladsafe Lifeline
- Typical Anchors

HEIGHT OF BUILDING: Four storey

PITCH: Flat

ROOF CONSTRUCTION: Concrete and steel

STRUCTURAL INTEGRITY: Good

VEGETATION: Nil

ADJOINING ROOFS: Building 236 EMF

SERVICES:

<table>
<thead>
<tr>
<th>Service</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gutters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A/C Units</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Exhaust Fans</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Ducts</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Roof Ventilators</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Satellite Dishes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Antenna</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Exhaust Fans</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Glass Skylights</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Pipework</td>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>

EXISTING SAFETY ITEMS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Lifelines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anchor Points</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Vertical Lifelines</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Handrail</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Walkway</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Parapets</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

WORK ACTIVITY DETAILS:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean Gutters / Routine Maintenance</td>
<td></td>
</tr>
<tr>
<td>Service A/C Plant</td>
<td></td>
</tr>
</tbody>
</table>

Note: Before commencing any work obtain Roof Permit from Resolve FM
## Roof Safety Survey

**Risk Assessment / Task Location**

**Building 231**

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.

<table>
<thead>
<tr>
<th>What is the Activity/Service Item</th>
<th>What are the potential Hazards</th>
<th>What is the Risk Level</th>
<th>List any Control Measures already Implemented</th>
<th>Describe what can be done to eliminate risk or reduce the harm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access to Roof via Plantroom</td>
<td>Unauthorised Access</td>
<td>Medium</td>
<td>Swipe access required, area locked</td>
<td>Signage</td>
</tr>
<tr>
<td>Access to upper roofs via ladder and hatch</td>
<td>Unauthorised Access</td>
<td>High</td>
<td>Swipe access required, area locked</td>
<td>Compliance plates need certifying</td>
</tr>
<tr>
<td>Air Conditioning Maintenance</td>
<td>Refer to SWMS of contractor</td>
<td>Negligible</td>
<td>A/C Units are situated in enclosed area off plant room</td>
<td>Ensure SWP developed is followed by Contractors</td>
</tr>
<tr>
<td>Air Conditioning Maintenance</td>
<td>Atmospheric contaminants; Legionnaires Disease from A/C Units</td>
<td>Medium</td>
<td>Regular inspection and cleaning of Air filters; intakes and exhausts; ductwork and cooling towers</td>
<td>Continuing Maintenance</td>
</tr>
<tr>
<td>Antenna Maintenance</td>
<td>Falling and Refer to SWMS of contractor</td>
<td>High</td>
<td>Anchor points installed</td>
<td>Ensure SWMS developed is followed by Contractors</td>
</tr>
<tr>
<td>General</td>
<td>Trip Hazard - Roof Sheeting</td>
<td>Medium</td>
<td>Safe Work Procedure</td>
<td>Walkway or minimum awareness in Safe Work Procedure</td>
</tr>
<tr>
<td>General</td>
<td>Trip Hazard - Horizontal Lifeline or Anchor Points</td>
<td>Medium</td>
<td>Signage &amp; System is visible</td>
<td>Be aware of location of horizontal lifeline &amp; anchor points. Compliance plates need certifying.</td>
</tr>
<tr>
<td>General</td>
<td>Weather Trips/Slips - Wet Roofs</td>
<td>High</td>
<td>Safe Work Procedure, do not work on wet roof</td>
<td>Do not work while roofs are wet or have dew</td>
</tr>
<tr>
<td>General</td>
<td>Weather - Windy Condition</td>
<td>High</td>
<td>Safe Work Procedure, do not work in high wind conditions</td>
<td>Do not work in windy conditions</td>
</tr>
<tr>
<td>General</td>
<td>Weather - Hot Conditions</td>
<td>Medium</td>
<td>Thermal Comfort Guidelines</td>
<td>Use suncream, hats and remain hydrated and take appropriate breaks</td>
</tr>
<tr>
<td>General</td>
<td>Weather - Hot Conditions</td>
<td>Medium</td>
<td>Maintain 3 points of contact; Signage; and Working at Heights Guidelines - Working from Ladders</td>
<td>Ensure that ladder is used correctly</td>
</tr>
<tr>
<td>General</td>
<td>Climbing ladder</td>
<td>Medium</td>
<td>Maintain 3 points of contact; Signage; and Working at Heights Guidelines - Working from Ladders</td>
<td>Ensure that ladder is used correctly</td>
</tr>
</tbody>
</table>
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 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 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
WorkCover - Safe Working at Heights Guide 2006
Ladder bracket
Roof access point
Horizontal lifeline
Anchor Point
Ladder bracket up to awning

Northern aspect

Link from Building

North access door from Plantroom

Lifeline for window cleaning

Southern side of roof

Air-conditioning units on south-west side
Skylight covering now enclosed - unsafe

North west awning

Anchor point on north west corner

Northern roof

Ladder and hatch in plantroom to upper roof

Vertical lifeline on ladder

Upper roof looking east from hatch

Upper roof looking west from hatch
SAFE USE OF SALA “EVOLUTION” LIFELINE.

1. TYPICAL LIFELINE.
2. ATTACHMENT OF SHUTTLE

3. SHUTTLE IN CLOSED POSITION.

SALA EVOLUTION SHUTTLE
- Depress the large round grey button on top and small grey button under the connection ring simultaneously. The bottom jaws will open.
- Place the shuttle jaws over the cable with the jaws facing downward and the connecting ring facing toward the gutter.
- Close the jaws and check the cable is locked within the jaw.
- It is possible to orientate to different sides of the cable without the need to disconnect the shuttle from the cable. Simply depress the top round button only and swivel the “D” loop ring to the opposite side. Release the button and the ring will lock to the other side.
SAFE USE OF SALA “LADSAFE” VERTICAL LIFELINE.

Sala “Ladsafe” is a vertical fall arrest system mounted to fixed ladders. The system is identified as a 10mm vertical cable system. A system data plate is generally mounted close to the system or ladder.

REFER TO MANUFACTURERS INSTRUCTIONS
GUIDE LINE ONLY

THIS OPERATION MANUAL SHOULD BE CONSIDERED A GUIDE ONLY. ALL PERSONS USING THE EQUIPMENT LISTED IN THIS MANUAL MUST BE COMPETENTLY TRAINED. "THE INSTALLER" INSTALLS SYSTEMS ONLY AND DOES NOT MANUFACTURE THE SYSTEMS. END USERS TO ENQUIRE WITH "THE MANUFACTURER" (BULLIVANTS) AT THEIR OWN DISCRETION. ALWAYS FOLLOW MANUFACTURERS INSTRUCTIONS.

TYPICAL ANCHORS