Roof Safety Survey

GENERAL INFORMATION

CAMPUS: Innovation Campus

BUILDING: 237 Sustainable Buildings Research Centre

DESCRIPTION: H shaped two level research building comprising of High Bay (north wing) with Rooftop Test Area and Exhibition space and offices (south wing). Solar Panels are fitted on the roof of the South Wing and on the north facing side of the North Wing

RISK ASSESSMENT # : UOW02597

ROOF ACCESS: Multiple Access points

1. South wing Ladder bracket adjacent to exit doors beside Room 102A - access from Roof Terrace

2. North Wing East Ladder bracket from eastern end of Rooftop Testing Area (1 m rise from roof)

3. North Wing West Ladder bracket from western end of Rooftop Testing Area (1 m rise from roof)

4. Rooftop Testing Area Access to Rooftop Testing Area through gate (security access to be determined) from Roof Terrace

5. Roof Terrace Stairs from Squires Way frontage; Stairs from Inovation Way frontage and exit doors beside Room 102A

SIGNAGE : Nil

COMPLIANCE PLATES: South - Beside ladder bracket (above entrance to deck)
North East - Beside ladder bracket
North West - Beside ladder bracket

SAFE WORK AREA: Rooftop Testing Area (Authorised personel only) and Roof Terrace

ROOFING SYSTEM: Typical Anchors
Sala Evolution Lifelines

HEIGHT OF BUILDING: 2 levels

PITCH: 20 ^{o} (South wing) and Curved <15^{o} (North wing)

ROOF CONSTRUCTION: Steel - Colourbond

STRUCTURAL INTEGRITY: New - Solid

VEGETATION: Nil

ADJOINING ROOFES: Nil

SERVICES:

Gutters	Yes	Satellite Dishes	No
A/C Units	Yes	Antenna	No
Exhaust Fans	No	Skylights Domes	No
Ducts	No	Glass Skylights	No
Roof Ventilators	3	Pipework	Yes
Solar Panels	Yes	Weather Station	Yes

EXISTING SAFETY ITEMS:

Horizontal Lifelines	Yes	Handrail	100 mm
Anchor Points	Yes	Walkway	NA
Vertical Lifelines	Yes	Parapets	10 mm

WORK ACTIVITY DETAILS:

Clean Gutters / Routine Maintenance		**Frequency**	Yearly or 6 monthly
Service A/C Plant			TBA

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

Roof Safety Survey

RISK ASSESSMENT

Risk Assessment / Task Location Building 237

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	Unauthorised access	M	All access points to roof are locked and made secure so are not accessable by unauthorised persons; signage	Risk Assessment and Roof Safety Survey
Gutter Maintenance on Roof and Awnings	Falling	H	Horizontal Lifeline & Anchors Installed	Ensure horizontal lifeline & anchors used correctly
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
Antenna/Weatherstation Maintenance	Falling and Refer to SWMS of contractor	H	Anchor Points Installed	Ensure SWMS developed is followed by Contractors
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	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	Thermal Comfort Guidelines	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
Using crane - lifting goods from highbay through pit	Falling	H	Nil	Railing around pit area

Reference Documentation

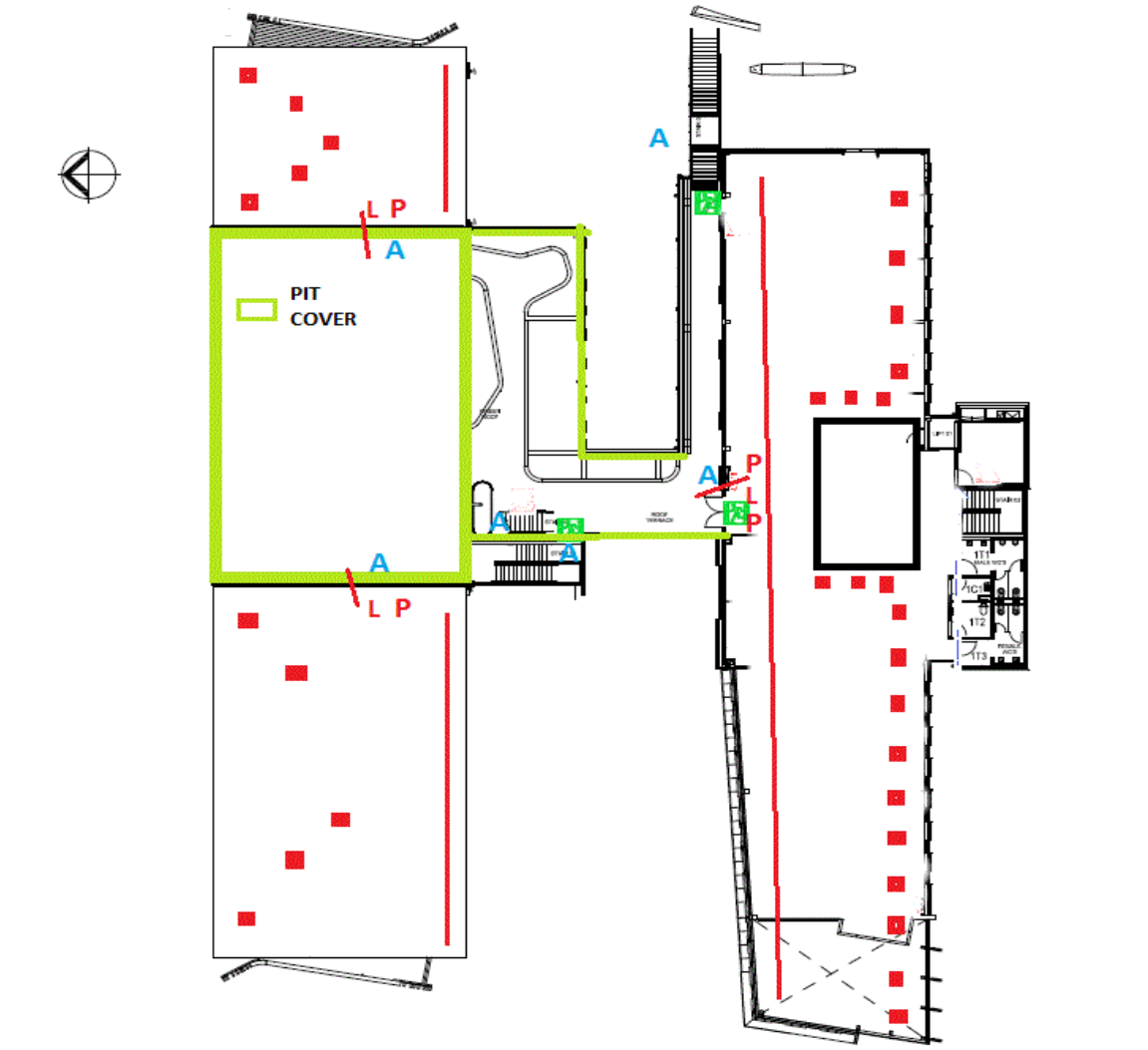
Legislation
NSW Work Health and Safety Regulation 2011 Part 4.4 Falls

Australian Standards
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

Code of Practice
WorkCover - Safe Work on Roofs. Part 1 - Commercial and industrial buildings

UOW Documentation
Managing the Risk of Falls Guidelines
Thermal Comfort Guidelines
UOW Roof Access Permit
Roof Access Certificate

Other
WorkCover - Safe Working at Heights Guide 2006



L - Ladder bracket
P - Compliance plate

Safe work Area
Horizontal lifeline

A Access Point
Anchor Point


Artist impression of the SBRC Building, completion due mid-2013

South Wing - East

South Wing - Solar cells

South Wing - West

North Wing - East access

North Wing - North East aspect

North Wing - West access

Pit Lid down to Highbay

Stairs to Rooftop Test Area

North Wing - North West aspect

Northern aspect North Wing

Garden deck area

Squires Way Gate to roof

Crane and pit lid on rooftop test area

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" (CAPITAL SAFETY GROUP) AT THEIR OWN DISCRETION. ALWAYS FOLLOW MANUFACTURERS INSTRUCTIONS.

SAFE USE OF SALA "EVOLUTION" LIFELINE.

1. TYPICAL LIFELNE.

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

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TYPICAL ANCHORS