



Future Community Water Sports Centre
By others

Extensive Green Roof
Native grasses

Pylon Lighting Gantry
Proposed 4m vertical shift to existing Pylon lighting: Support provided from new horizontal and accessible gantry structure. (All subject to approvals and lighting design confirmations). Implemented prior to construction of new building to maintain uninterrupted night time lighting of bridge and pylon

Entry Courtyard Below

Entry Courtyard Canopy

Exhibition Pavilion Roof

ANZAC Bridge Pylon

Roof

High Level Glazing

EXTENSIVE GREEN ROOF NOTES:

- Can reduce urban heat islands by providing shade and through evapotranspiration (the release of water from plants to the surrounding air);
- Absorb air pollution, collect airborne particulates, and store carbon;
- Filter pollution from rainwater. This is achieved by the root systems' bacteria and fungi, which utilise the natural filtering processes of bioremediation and phytoremediation. As a result, the non-point source pollutants (nitrogen and phosphorus) are broken down and detoxified, with the process increasing over time as plants and root systems mature;
- Protect underlying roof material by eliminating exposure to the sun's ultraviolet (UV) radiation and extreme daily temperature fluctuations.
- Serve as living environments that provide habitats for birds and other small animals;
- Reduce noise transfer;
- Insulate the building from extreme temperatures, mainly by keeping the building interior cool in the summer;
- Generally be low maintenance.

SYDNEY HERITAGE FLEET BASE - Environmental Assessment

